Appendix H

Data Needs Assessment Checklists

This page intentionally left blank

200-W-1, REDOX Mud Pit West

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44)	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Associated with 200-W-17 and 200-W-18.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Location shown on site maps. - Located west of REDOX, outside exclusion fence,; north of 10th Street. - GPS survey in 1999 filed under \\BHI002\hgis-gps\job-275.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Site appears to contain residual drilling mud from unknown source/project.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Solid waste	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for shallow soil contamination if drilling mud is contaminated.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis or field rad surveys.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report	X			Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis or field rad surveys, but expect to be limited based on site knowledge.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report	X			Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (small volume release)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Drilling mud.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision.									

200-W-101, Contaminated Material West of 216-S-12 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	MG-1 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site located near the 216-S-12 crib.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site measures 40 ft by 20 ft. - GPS survey performed Job # 587. - Location posted and marked by presence of two wooden boxes.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Field radiological survey in April 2002 did not detect contamination except for a piece of rubber hose with 2,000 dpm beta/gamma and no alpha.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Solid waste consisting of 2 large boxes and rusted metal shaft.	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual soil contamination but potential is low based on field rad surveys.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Less than 0.5 mR/hr for the area around the boxes.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (solid waste)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Solid waste.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information exists to support remedy decision.								

200-W-106, Soil Contamination Area Adjacent to 200-W-55

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44)	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Not evaluated	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Posted URM area. Photographs provided in WIDS report.- Site sketch contained in SIMBA project folder.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- 53 ft x 67 ft x 0.5 ft (D) soil contamination area. - Radiological survey identified activity ranging from 3,600 to 20,100 cpm.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Contaminated soil disposed in this area, 15 discrete areas of contamination identified.	Waste Stream Analysis				Radiation Survey	X	Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual soil contamination	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	3,600 to 20,100 cpm	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report	X			Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes (material removed). Groundwater impacts = no (small solid release volume). Depth to groundwater is 79 m (based on 8/16/07 water	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information extists to support remedy decision.								

200-W-11, Concrete Foundation South of 241-S, S-Farm Foundation and Dump Site

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	MG-1 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Area located south of 241-S Tank Farm	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site is large, approx 3 acres (123,840 ft2). - GPS survey performed between 10/25-11/14/95. - Location shown on field sketches and evident by concrete slab.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	No sampling and analysis or field rad survey, but high concentrations not expected based on waste type.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste	Appears to be a solid waste dump area.	Waste Stream Analysis		Visual Survey Walk down	X			Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual soil contamination but potential is low based on nature of the solid waste present in the area.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis or field rad survey.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis or field rad survey.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (solid waste)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Solid waste.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information extists to support remedy decision.								

200-W-12, 201-W Soil Mound and Plastic Pipe

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 200-W-12 Dumping area was evaluated as part of the 200-MG-1 OU EE/CA (DOE-RL-2008-44, Draft A). The preferred remedy identified in is removal, treatment, and disposal (RTD).	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The site is located northwest of 201-W and approximately 75 meters (246 feet) north of 13th Street and west of Albany Avenue.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The site history indicates that this Site is most likely a grout test site that did not involve contaminated materials. This site is located near other test sites and pits that were used to test grout, slurry and soil infiltration in the late 1970's and early 1980's. It is suspected that this site was also a test site. Several employees that were involved in the grout, slurry and infiltration tests were interviewed. None of the employees had any knowledge of what this mound with polyvinyl chloride (PVC) piping was used for.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	During the 1970's, the Atlantic Richfield (ARCO) and Rockwell Research Departments used this area for testing equipment and processes to support the waste management operations. This area was selected for testing because it was adjacent to the REDOX facility (where the Research Department offices were located) and because the area did not contain any contaminated facilities or vadose contamination. The site may be associated with other adjacent test sites.(200-W-35 and 200-W-10).	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	The site consists of a soil mound with one 0.76-rn (2.5-ft) aboveground plastic pipe and one 20-cm (8-in.) aboveground plastic pipe topped with tees and elbows. There are also insulated electrical wires and an electrical heat controller. The RCRA Permit General Inspection Report notes that "It appears there is a tank in the ground under the vents." The comment section of the Discovery Site Evaluation Checklist from 6/25/96 states that "Per discussion with K. Moss, unable to discount the potential for waste disposal based on interviews. Considered a SWMU based on discarded materials at the site." The WIDS summary notes that "while this site is most likely another test site like the adjacent 200-W-35, it cannot be rejected as a waste management unit based on available information."	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	No characterization data has been identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No characterization data has been identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Unknown HH: 0-15 ft - Unknown Eco: 0-10 ft - Unknown Groundwater Impacts - Not expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Unknown.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Unknown.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

200-W-127, Surface Stabilized Area East of UPR-200-W-29/UPR-200-W-97 (UN-216-W-5)

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No. Area covered with 2 ft of surface stabilization gravel in March 1994.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Not evaluated.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- GPS survey performed on Oct 20, 2004 under Job 897. - Site sketch in SIMBA project file. - Site marked by posted URM sign on the corner of 23rd Street and Camden Ave.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Work Package 2Y-94-00033 indicates the surface contamination present at this site had maximum levels of 50,000 disintegrations per minute of beta/gamma activity.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Source not specifically identified but may be associated with two underground pipelines (Drawing H-2-44511 sheet 126).	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination likely present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Maximum level of 50,000 disintegrations per minute of beta/gamma.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report	X			Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes (current cap precludes exposure). Groundwater impacts = no (dry equipment staging prior to final disposal.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

200-W-128, Underground Radioactive Material Area East of 218-W-4A

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No previous evaluation identified.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Field sketched map in SIMBA file. - Site adjacent to 218-W-4A Burial Ground east fence line. - Site measures approximately 50 ft x 18 ft. - Marked by posted URM sign.	Process Description		Known Coordinates		Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Site appears to be associated with wind-blown contamination derived from adjacent burial ground. Clean blow sand covers portions of the site. - Site was discovered during a perimeter survey in 1987, 1988 or 1989. - Assume contamination is present due to sign posting and results of the perimeter survey.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
		Incident Report	X	Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Suspect contamination is associated with wind-blow material from adjacent burial ground. - Most likely near-surface contamination.	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Native sand wind-blown into this area may have become contaminated.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No field survey results or sampling and analysis information posted in WIDS.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report	X			Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report	X			Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (surface wind blown contaminant area).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information extists to support remedy decision.								

200-W-13, 2713-WB Green Hut Complex

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Not identified in MG-1 EE/CA. There is a 200-W-3 site identified in MG-1 EE/CA with similar description	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	-Adjacent to north of 2713-WB Building. - Site measures 443 ft by 230 ft. - GPS survey on October, 25, 1995	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Visible soil staining (petroleum hydrocarbons), and radiation protection postings	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	-Oil leaks from vehicles parked in area	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis, but high concentrations not expected based on site knowledge.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis, but expect to be limited based on site knowledge.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no due to nature of release and depth of groundwater.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Sufficient data and information extists to support remedy decision.									

200-W-136, Underground Radioactive Material Area Including 222-U Building Foundation, Demolished 203-U Area and Contaminated Soil

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The site was previously evaluated under the 221-U Ancillary Facilities EE/CA and identified for demolition of the buildings and characterization of remaining foundations and underlying soil.	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other:						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	200-W-136 is partially located beneath the proposed footprint of the U Plant Canyon barrier.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	200-W-136 is located in the former footprint of the 222-U building foundation , the remnants of the demolished 203-U tanks and 272-U Hot Shop and an area of soil contamination in a walkway between the demolished facilities contaminated during demolition. The location was mapped with GPS in 2006.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The remaining foundations are not confirmed to be contaminated. Need to determine removal action verification sampling and analysis. The surface soil area between the foundations was found by surface radiation surveys to be contaminated following the building demolition. Removal action verification sampling of this area needs to be located and reviewed.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		Yes. Determine if removal action confirmatory sampling has been completed and review results.
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Potential contamination of foundations remaining after decommissioning and demolition activities in 2005.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination in a walkway between the demolished facilities was contaminated during demolition.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Additional data needs are identified in the 221-U Ancillary Facilities EE/CA, RAWP, and SAP. Completion of removal action verification activities could meet data needs for this waste site.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The horizontal distribution is contained within an irregular shaped area corresponding with the former footprint of the 222-U building foundation , the remnants of the demolished 203-U tanks and 272-U Hot Shop and an area of soil contamination in a walkway between the demolished facilities contaminated during demolition. The vertical extent of contamination is unknown.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes. Need to determine vertical extent of contamination.
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected. 200-W-136 is covered by gravel stabilization fill.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None. The site has no history of deep vadose zone contamination or groundwater contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Yes. Need to determine vertical extent of contamination. Additional near surface soil sampling is proposed under the Sampling and Analysis Plan for U Plant Canyon Proximal Waste Sites, associated with design of the U Plant Canyon Barrier.									

200-W-14, 200 West Heavy Equipment Storage Area

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	MG-1 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site sketch provided in SIMBA folder. - Good general description and photographs are also available.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Visible hydrocarbon contaminated soil described in WIDS over 2,400 ft^2 area.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Oil drippage from parked heavy equipment.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination present	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (surface and near surface soil contamination only, limited mobility and sorbed contaminant types).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

200-W-15, S Plant Project W-087 Hexone Discovery

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	A thin layer of contaminated soil was discovered during a pipe trench construction. The contaminated soil layer is currently covered by 2 feet soil and asphalt.	CERCLA EE/CA		Action Memorandum		Yes	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site measured approximately 40 ft by 8 ft. - GPS survey performed in 1995. - Located approximately 18 m (59 ft) southwest of the southwest corner of REDOX (202-S). - Location is not marked and posted.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	A 3-inch thick of hexone and surfactants contaminated soil was identified at 2 ft bgs during excavation of a pipe trench for Project W-087. The contaminated soil was stockpiled and returned to the excavation after the pipe was installed.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Hexone was used in the adjacent facility 202-S REDOX.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	The soil appears to be contaminated by historical release of hexone and surfactants from the adjacent facility (202-S REDOX).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis conducted	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	- Defined during the trench excavation. - Total volume = 80 cf (40 ft x 8 ft x 0.25 ft)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		Yes
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no (Contaminated soil is covered by 2 ft overburden soil and asphalt) HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		Yes
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Soil with surfactants	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		Yes
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		

Data Needs Summary

Data Need? **Y** Based on waste material type and contaminants and depth of identified contamination, vadose contamination greater than 15 ft below ground surface suspected. The site has not been previously investigated and there are no adequately-characterized similar sites available.

200-W-2, REDOX Berms West

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	MG-1 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No nearby actions are planned.	CERCLA EE/CA		Action Memorandum				Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site located NW of 202-S Bldg.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo	X					
		Engineering Drawings	X	LIDAR	X					
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	There are no reported releases at this area and no reports of disposal of contaminated or chemical waste.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	No primary source is identified, and based on site decription none expected	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	No secondary source(s) are identified, and based on site decription none expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No measurement data are available, and contamination not expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No measurement data are available, and contamination not expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	No data are available, but no exposure expected based on site knowledge	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	No data are available, and no unique characteristics expected based on site knowledge.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	No data are available. Deep vadose impacts seem unlikely in absence of confirmed release.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Based on site knowledge no contamination confirmed or expected.									

200-W-21, 204-T Unloading Station, T-Plant Waste Railcar Unloading Facility, Unloading Station 1 and Unloading Station 2

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44) - Approx 40 CY of contaminated soil removed in 1967.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	This site is associated with and located near the 216-T-34 and 216-T-35 cribs, and the 340 Facility.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site location described and visible by concrete splash pads around drains. - Posted with URM signs.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Field rad surveys have detected surface contamination, and smear contamination. 1989 survey detected 4,000 disintegrations per minute of beta/gamma in the two drains, and 1,800 disintegrations per minute of alpha contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	300 Area liquid laboratory waste was unloaded from railcars at this site and pumped to the 216-T-34 and 216-T-35 cribs. 17.3 million L of liquids pumped to the 216-T-34 crib and 5.7 million pumped to the 216-T-35 crib.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	- Soil contamination present covered with 6-inches of stabilization material in 1989. - Annual rad surveys are performed.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	From annual rad surveys.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No direct sampling and analysis. Distribution may be interpreted from annual surveys depending on the scope and sensitivity of the surveys.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (volume of splashed liquids likely small, depth to groundwater estimated at 79 m).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Sufficient data and information extists to support remedy decision.									

200-W-22, 203-S/204-S/205-S Stabilized Area

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44). - Site was stabilized with approx 2 ft of material following D&D of the above ground structures in 1983. Structures left in place (at depths below 2 ft) included 203-S Basin, 204-S Basin, 205-S Vault, 205-S Building base pad, various isolated utility lines, railcar unloading area, concrete encased pipeline from REDOX to tank farm, and REDOX chemical sewer. - Following cover placement, area was posted and marked with concrete monuments. - 1952 uranium spill covered with blacktop and posted with radiation signs.	CERCLA EE/CA	X	Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	-Site is located northwest of 202-S Facility, and associated with the 203-S, 204-S and 205-S UNH Facilities, the REDOX UNH Unloading Facility, and UPR-200-W-32, WPR-200-83, UPR-200-W-10, UPR-200-w-69, UPR-200-W-86, UPR-200-W-116, and UPR-200-W-123.	CERCLA EE/CA		Action Memorandum		yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		no		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- This site consists of several named UPR and facilities/infrastructure decommissioned in 1983 and covered with stabilization material. - Site is located northwest of 202-S Facility (see Drawing H-2-44511), and posted as URMA. - Site measures 276 ft by 223 ft.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo		Photographs	X			
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Annual radiological surveys are performed. - A 1952 survey detected 10,000 cpm at 25 cm. Activity due to uranium spill. - Closeout Report (RHO-RE-SR-37-P) cited potential for residual soil contamination that was not removed during 1983 stabilization effort. - UPR-200-W-10 cites a release of uranium to ground at 203-S UNH storage tanks in summer of 1952 (10,000 cpm). - UPR-200-W-83 cites contamination of shoes and shoe covers at 204-S in Nov 1981. - UPR-200-W-123 cites small spill of 300 Area liquid rad waste onto the ground during railcar unloading. - UPR-200-W-116 cites small specs of rad contaminated soil that was bladed into windrows in 1974 and surface stabilized in 1993. - UPR-200-W-69 Railroad Contamination - no information. - UPR-200-W-32 - no information. - UPR-200-W-86 - no information.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Contamination resulted from routine activity in this area and several UPRs.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual soil contamination exists.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	A 1952 survey performed following uranium release from 203-S Facility detected 10,000 cpm at 25 cm.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Based on site knowledge shallow (<15 ft) contamination expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (small release volumes and nature of release)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Potential for low pH waste streams (UNH), 300 Area Laboratory Wastes, 100-N decontamination liquids.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information extists to support remedy decision.								

200-W-231, Temporary Facilities Construction Trailer Septic Tank and Tile Field

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Approximate location shown on drawing in SIMBA project folder and Drawing H-2-2289. - Not marked or posted in field.	Process Description		Known Coordinates		Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Septic tank received septic wastes and may have received disposed X-ray development solutions that could have contained sulfur dioxide, acetic acid, boric acid, potassium sulfite and sodium sulfite.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Septic wastes and potentially x-ray development chemicals	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination may occur, but primarily inert chemicals.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no. Septic tank and drain field expected to be buried at depths below 3 ft. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (small volume of liquid discharged and depth to groundwater estimated at 79 m)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Sufficient data and information extists to support RTD remedy decision.									

200-W-42, U Plant Radioactive Process Sewer from 221-U to 216-U-8 & 216-U-12 Cribs, 200-W-42-PL

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 200-W-42 Radioactive Process Sewer was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy identified in DOE/RL-2003-24 for 200-W-42 is removal, treatment, and disposal.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The 200-W-42 Radioactive Process Sewer is associated with and was formerly connected to the 216-U-8 Crib. is located in close proximity to the 200-W-42 Pipeline. Unplanned release UPR-200-W-163 was associated with this pipeline. Remedies at these sites will need to be coordinated.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	200-W-42 is an underground pipeline that extends from the 221-U Building to the 216-U-8 and 216-U-12 Cribs. It is located west of Beloit Avenue. A portion of the pipeline is north of 16th Street, but the majority of it is located south of 16th Street.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Contamination at 200-W-42 has been identified in surface soil and shallow vadose zone soil based on collection of surface soil and subsurface soil samples at depths between 2 to 4 m (7 to 12 ft). No deeper samples were collected. In February 2006, excavation was begun to remove the pipeline. The first portion to be removed was the portion north of 216-U-12 crib. The majority of the pipeline that fed 216-U-8 and 216-U-12 cribs was remediated in 2006. Excavation to a depth of 4.6 m (15 ft) .	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	200-W-42 conveyed effluent to the 216-U-8 and 216-U-12 Cribs which included stack drainage from the 291-U-1 Stack and acidic process condensate from the 221-U and 224-U Buildings.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	The 200-W-42 pipeline is sufficiently characterized to support remedial decision making. Characterization (prior to remediation) includes approximately 23 surface soil, shallow vadose zone soil and vegetation samples, along with a pipeline integrity survey. Maximum detected concentrations of radionuclides include: Am-241: 426 pCi/g Cs-137: 49,100 pCi/g Pu 239/240: 70.6 pCi/g Sr-90: 180 pCi/g U-233/234: 38 pCi/g U-238: 43 pCi/g Post remediation sampling has also been conducted to demonstrate levels of contamination remaining in the subsurface.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Affected media include surface soil, shallow vadose zone soil and likely some deep vadose zone soil. The burial depth of the pipeline was within the shallow vadose zone, however, leakage from is known to have occurred, and it is likely that some soils within the deep vadose zone (greater than 15 ft bgs) have been contaminated. Surface and subsurface soil sampling indicate limited lateral spread of contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts -No	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding	The waste is acidic process condensate which may have increase mobility of Sr-90 and uranium.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Likely. The contaminant inventory, discharge volume, duration of discharge, discharge depth, and poor condition of the vitrified clay portion of the pipe (displaced joints) suggest that some impact to soils greater than 4.6 m (15 ft) has occurred.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	No, site is sufficiently characterized to support decision making and remediation has already occurred. Post RTD sampling documents subsurface contamination levels at the bottom of the excavation.									

200-W-53, UPR-200-W-166, UN-216-W-31

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- MG-1 EE/CA identified confirmation sampling and no further action as preferred remedial alternative. - Surface soil located east of the 207-T basins was scraped up in 1996 and placed inside the 207-T Retention Basin. No verification sampling performed.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site associated with the 207-T basin.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site GPS boundary survey performed in Feb 1996. - General site configuration shown on sketch contained in SIMBA project folder, on WIDS sheet link. - Site is approx. 3.6 acres in size. - Site posted with URMA sign.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Contamination originated from 241-T Tank Farm operations (wind blown contamination) and 207-T basins operation (wind blow contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	241-T Tank Farm Operations and 207-T basin operations.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Periodic surveys are done	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Horizontal distribution can be approximated by site boundary map. Vertical distribution will be limited due to source and nature of contaminant deposition.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = Yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (dry contaminant source and depth to groundwater estimated at 79 m).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Sufficient data and information extists to support remedy decision.									

200-W-54, Contamination Migration from 241-SX Tank Farm

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	RTD recommended as the preferred alternative in the MG-1 EE/CA (DOE/RL-2008-44 Draft A).	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is located adjacent to and east and north of the 241-S/SX/SY Tank Farms	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site boundaries in state of flux due to windblown erosion and deposition. '- Site area was estimated at 4.35 acres (189,500 ft2) in 2008/2009. '- march 25, 1997 GPS boundary shown on site maps and field sketches. '- Posted as SCA.	Process Description		Known Coordinates		Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Field rad surveys have detected gamma/beta contaminated media including soil, vegetation and animal droppings.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Windblown contaminants from adjacent 241-S/SX/SY Tank Farms.	Waste Stream Analysis				Radiation Survey	X	Same Plant		No
		Process Description	X					Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil/vegetation/feces contaminated media present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	650-20,000 cpm beta/gamma detected during 1998 survey.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report	X			Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Contaminated expected to be widely dispersed.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report	X			Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (small release volumes and nature of release)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Small particulate contamination with potential for windblown transport.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Based on observed radiological contaminant levels observed in vegetation and animal feces, sufficient data and information extists to support remedy decision.									

200-W-6, 200-W Painter Shop Paint Solvent Disposal Area

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44)	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?		Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Yes, solvent-paint odor observed	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Discharge of waste solvent and paint to small floor pit (hand dug)	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis. Based on site knowledge solvents expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Based on site history contamination was observed.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = Yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = not expected due to small volume of discharge, volatile nature of contaminants and depth to groundwater estimated at 79 m).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
conditions, mobility enhancing/retarding conditions)		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information extists to support remedy decision.								

200-W-63, Contaminated Concrete Pad

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44) - Site visit in Sep 1999 found the concrete pad covered with gravel and re-posted as URM.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Yes. The site may be a ffected by remedy for 241-TY Tank Farm.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- 6300 ft2, T-shaped concrete pad. - Located in T Farm Area. - GPS survey performed in Sept 12, 1997. - Posted CA signs with fence. - Used for storage of radiological contaminated equipment in 1980's.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Field radiological surveys have identified 5,000 to 30,000 dpm beta/gamma, and 3,000-7,000 alphas count in December 5, 1997 survey.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Radiological contaminants associated with historical contaminated equipment storage.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual surface soil contamination around perimeter of concrete pad.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- Field radiological surveys have identified 5,000 to 30,000 dpm beta/gamma, and 3,000-7,000 alphas count in December 5, 1997 survey.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No direct sampling and analysis, but field radiological surveys performed.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = Yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = not expected due to nature of release (equipment storage, and depth to groundwater estimated at 79 m).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Radiological surveys of concrete pad and other site knowledge provides sufficient data and information extists to support remedy decision.									

200-W-67, Contaminated Soil at the Corner of Cooper and 16th Street

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 200-W-67 Unplanned Release was evaluated as part of the 200-MG-1 OU EE/CA (DOE-RL-2008-44). The preferred remedy identified in is removal, treatment, and disposal (RTD).	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Unplanned release UPR-200-W-24 and 216-U-3 French Drain are located within proximity of 200-W-67. The remedy for 216-U-3 is confirmation sampling/no further action.	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The 200-W-67 Unplanned Release is located east of the 16th St./ Cooper Ave intersection, adjacent to the 216-U-3 French Drain.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	200-W-67 was identified in April 1998 during a radiological survey of the area south of the 241-U Tank Farm. Contamination specks and a contaminated ant hill were identified. Some of the contaminated soil was removed from the site during the survey and the site was posted as a Contamination Area. Later, in September 1998, the site was covered with clean soil and posted as an Underground Radioactive Material area.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No.
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The source of contamination has not been identified.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Release UPR-200-W-24 could have contributed to 200-W-67 contamination but cannot be positively identified as the source.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No characterization sampling and analysis data has been identified. The April 1998 radiation survey identified a maximum reading on the contamination specks of 11 mr/hr; another speck was found that read 6 mr/hr; other contamination levels ranged from 500 cpm to 70,000 cpm; the ant hill read 3000 cpm.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No characterization sampling and analysis data has been identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - No	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey	X	Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected based on the site type.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Sufficient data and information extists to support remedy decision.									

200-W-71, Undocumented Trench, Undocumented Burn Pit

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 200-W-71 Trench is evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for this site was identified in DOE/RL-2003-24 as maintain existing soil cover, institutional controls, and monitored natural attenuation.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The 200-W-71 Trench open trench was located approximately 400 m (1,300 ft) southeast of the 221-U facility, south of 16th Street and east of Beloit Avenue. The trench has been backfilled. The area where the trench had been located is not marked or posted. A geophysical survey was performed in 2003 detected numerous isolated subsurface anomalies. Most of the anomalies appear to be located within the fill material that created the mound that covers the site.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo	X					
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews		Surface Geophysics	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Based on process knowledge, shallow soil contamination possible.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The exact use of the 200-W-71 Trench is not documented, however historical photographs from 1950 and 1956 show smoke emitting from the trench, indicating it was used as a burn pit. Hanford drawing H-2-1495 labeled the area as "Maintenance Disposal Ground".	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	The same area that was occupied by the 200-W-71 trench was later used as a construction lay down area for the reconfiguration of U Plant for the uranium recovery process.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling data has been identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling data has been identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Unknown HH: 0-15 ft - Unknown Eco: 0-10 ft - Unknown Groundwater Impacts - Not likely based on site type and no documented history of liquid effluent discharge.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Not likely based on site type and no documented history of liquid effluent discharge.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	

Data Needs Summary

Data Need? **N**	Sufficient data and information extists to support remedy decision.

200-W-75, Radiological Logging System (RLS) Calibration Silos

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	RTD recommended as the preferred alternative in the MG-1 EE/CA (Draft A).	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is located in vicinity of 211-S Tank Farm where interim stabilization was completed in approx 2002.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other	X	Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Light duty posts and chain surround the three silos located within 211-S tank farm stabilized area. - Three of the four silos covered with stabilization material, fourth silo located west of 211-S tank farm site, across asphalt road. - Diagram of silo shown on pg J-13 of RHO-ST-14. - GPS survey performed 2/20/2001 (Job # 413). - Posted with URM signs.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo		Photographs	X			
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The silos contain small quantity capsules of Co-60, Sr-90, Ru-106, Ce-144. Except for Sr-90, these radionuclides have relatively short- half-life.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The silos contain small quantity capsules of Co-60, Sr-90, Ru-106, Ce-144. Except for Sr-90, these radionuclides have relatively short- half-life.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None expected as radioactive materials are reportedly contained in sealed capsules.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	This information potentially available from field instrument calibration records.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	None expected as radioactive materials are reportedly contained in sealed capsules.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (source material contained in sealed capsules)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Source materials are contained in sealed capsules with much of the activity likely decayed by now. Sr-90 activity still present. Sufficient data and information extists to support remedy decision.								

200-W-77, Posted Contamination Area East of 216-U-14 Ditch

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 200-W-77 unplanned release was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy identified for this site was removal, treatment, and disposal (RTD).	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The 200-W-77 unplanned release is located adjacent to the railroad track, west of 216-U-16 Crib and east of the stabilized 216-U-14 Ditch. The site is located on the west berm of the railroad track located west of the 216-U-16 Crib and east of the stabilized 216-U-14 Ditch. The area was mapped with Global Positioning equipment in 1999.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The 200-W-77 unplanned release was originally posted as a High Contamination Area. In September 2000, soil and vegetation with contamination levels up to 10,000 counts per minute were removed from the area and the area was reposted as a Contamination Area (CA). After decontamination, contamination levels were reduced to 100 cpm.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	In November 1997, an area was identified containing wind-blown contaminated vegetation that had accumulated along the bank of the railroad track. The area was downwind of the southern end of the 216-U-14 Ditch, which was being surface stabilized. The 216-U-14 Ditch was a known source of contaminated vegetation at that time.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling data identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The distribution of contaminants is expected to be limited to surface soils within the site dimensions which are reported as 2.4 m by 4.6 m (8 ft by 15 ft).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected After decontamination, the area was backfilled with gravel stabilization cover.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None. The site has no history of vadose zone contamination or groundwater contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

200-W-80, Stabilized Contaminated Soil Area Southwest of T Plant, Mound of Contaminated Soil Southwest of T Plant

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44). - Soil mound was flattened and covered with 6-inches of stabilization material in Dec 2000. - Statistical field rad survey of stabilized surface in Dec 2000 detected no radiological contamination.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is located several hundred feet southwest of T-Plant.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- GPS survey performed on 7/7/1998. - Site located west of 221-T and northeast of 241-T-361 Settling Tank. - Posted with URM signs and chain. - Asphalt material was visible in mound pile before it was flattened.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Radiological survey performed in May 2000 detected no contamination on the surface of the mound. - The mound was subsequently flattened and covered with stabilization material. - Source of the mound material may have been a parking lot expansion at adjacent T-Plant. - Volume estimated at less than 15 CY	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Appears to be surface soil and asphalt scrapped off during expansion of T-Plant parking lot,	Waste Stream Analysis				Inferred	X	Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual soil contamination, but potential seems low.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No radiological activity detected during surveys performed in Nov 1999, Dec 2000, April 2001, and April 2002.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Based on site description, potential for soil contamination is low.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = Yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = not expected due to nature of site, apparent source of material, and depth to groundwater estimated at 79 m.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

200-W-81, Contaminated Tumbleweed Fragments Along Railroad Track East of 218-W-3AE

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44). - Some vegetation and soil removal performed following site discovery in Aug 1997. - Three separate contamination areas sprayed with soil cement in 1997 and covered with stabilization material in 2009	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- The three sites are located along the railroad track east of the 218-W-3AS Burial Ground. - Posted as Soil Contamination Areas.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews		Site Photograph	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Field radiological surveys detected beta/gamma activity at 70,000 dpm (Survey Report SW-242127).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Contamination most likely originated from railcar transport spills, and wind-blown transport of contaminated vegetation from nearby 218-W-3AS Burial Ground.	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- Field radiological surveys detected beta/gamma activity at 70,000 dpm (Survey Report SW-242127). - Radiological activity reportedly increased with depth.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = Yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = not expected due to nature of site, apparent source of material, and depth to groundwater estimated at 79 m.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

200-W-82; Risers East of 216-TY-201 and 216-T-26, 216-T-27, and 216-T-28 Cribs; Crib Unloading Station

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44).	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	- Expected that RTD of the 216-T-27 and 216-T-28 cribs and associated piping would result in removal of this waste site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Identified with Contamination Area postings. - Located just east of 216-TY-201 Flush Tank (drawing H-2-2670. - Drawing SK-2-3706 shows unloading station, which may include conveyance pipe.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Unloading station used to transfer waste from 300 Area laboratory waste to 216-T-27 and 216-T-28 cribs. - Potential for splash/spill/drippage from unloading operations. - 4 ft x 4 ft concrete pads (EL-1255-1) define unloading area.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Laboratory waste from 300 Area (ARH-2155). - Period of use 1960-1966 (WIDS)	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual soil contamination outside concrete pad footprint.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (small volume release)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision. Expected that D&D of 216-T-27 and 216-T-28 cribs and their associated piping would also remove this waste site.									

200-W-83, Contamination Area North of 2727W

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 200-W-83 Unplanned Release was evaluated as part of the 200-MG-1 OU EE/CA (DOE-RL-2008-44). RTD identified as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	None.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The 200-W-83 Unplanned Release is located across the railroad track north of the 2727-W Sodium Storage building.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Surface contamination has been identified during several radiation surveys (see details below).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No.
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The source of contamination has not been identified.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	No characterization sampling and analysis data has been identified. All data regarding the nature and extent of contaminates at the site are based on radiological surveys, GPS surveys, and site walk-through. Radiological readings of speck contamination were taken on March 4, 1990 on the tracks near the concrete slabs found a maximum contamination level of 3 mrad/hr. Radiation surveys on March 8, 2005 discovered further contamination on and adjacent to the railroad tracks. The highest contamination readings were taken on the ground in the center of the tracks, with a Gross Direct cpm for beta of 6050, and a total beta dpm of 360,000 and alpha dpm of <100 per 100cm square. A contaminated railroad tie measured 350 Gross Direct cpm beta, with a total beta dpm of 18,000 and an alpha dpm of <100 per 100cm square. Alpha readings for Gross Direct cpm were below detection levels for the railroad track and contaminated tie. Smear readings taken on rails, rail ties, and on rocks had alpha and beta contamination readings below detection levels for both alpha and beta Gross Direct cpm, total dpm and total dpm per 100cm square.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No characterization sampling and analysis data has been identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - No In April 2007, the contamination was backfilled with clean dirt and the area posting was changed to URM. The railroad tracks are no longer used.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey	X	Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	The contamination is likely limited to materials on the surface, the ground surface, and upper subsurface layers.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

200-W-85, Soil Contamination Area East of 2727 W

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	200-W-85 was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy identified for this site was removal, treatment, and disposal.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The site is located approximately 30 meters (100 feet) east of the fenced 2727-WA equipment storage yard. In September 2000, the site was surveyed with Global Positioning equipment to map the location.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The Dyncorp Integrated Soil, Vegetation and Animal Control group submitted this site to WIDS as a Discovery Site. No radiological survey could be found to determine when the area was posted or the radiological conditions inside the posted area. In December 2001, the area was covered with clean backfill material and down posted to an Underground Radioactive Material Area. A GPR scan was done in February 2005 which noted a few isolated pieces of metal and debris are buried beneath the Site and a slightly disturbed area beneath the surface of the stabilized area, near the middle of the site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The source of contamination for this site is not known.	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling data identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The site dimensions are reported as 6 m by 6 m (20 ft by 20 ft).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None. The site has no history of vadose zone contamination or groundwater contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Sufficient data and information extists to support remedy decision.									

200-W-86, Contamination Area Around Light Pole

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 200-W-86 Unplanned Release was evaluated as part of the 200-MG-1 OU EE/CA (DOE-RL-2008-44). The preferred remedy identified is removal, treatment, and disposal (RTD).	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	None.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The 200-W-86 Unplanned Release is located northwest of 221-U, on a gravel road known as Bridgeport Avenue. The site is characterized by GPR and GPS surveys. A GPR scan was performed in February 2005. The site was mapped on September 8, 2000 using GPS.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The SCA Posting is dated back to March 17, 2000. Surface contamination is likely present, but no radiological survey was located corresponding with the original contamination posting.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No.
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Drawings and plans were reviewed to identify site resources prior to a site walk-down on May 24, 2001 to evaluate site conditions. The source of contamination has not been identified.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No characterization sampling and analysis data has been identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No characterization sampling and analysis data has been identified. The site encompasses a triangular area measuring 3 m (10 ft) on each side.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - No Interim stabilization in December 2001 removed and buried the sites' utility pole and covered the site with clean material.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	The contamination is likely limited to materials on the surface, the ground surface, and upper subsurface layers.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

200-W-87, Unplanned Release on Chemical Spur Railroad Track Northwest of 221-U Plant

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	200-W-87 was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy identified for this site was removal, treatment, and disposal.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The site is located approximately 61 meters (200 feet) northwest of the 2714-U building and T-Hopper yard on the U Plant chemical spur railroad track.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The WIDS summary reports that this site was likely a result of a posted contamination area associated with a train that was parked along the rail spur between 1996 and 1998. The train was moved, however, the location was not down posted after the train was removed. It is unlikely that any contamination remains in this area, since the rail cars did not have smearable contamination. In December 2001, the area was covered with clean backfill material and down posted to an Underground Radioactive Material Area.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The potential source of contamination was the train and rail cars parked along the rail spur. This train is not believed to have contaminated the rail spur.	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling data identified. No sampling has been performed to verify the presence or absence of soil contamination at this site. The site dimensions are 37 m by 8 m (120 ft by 30 ft).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The distribution of contamination, if any exists, is unknown. Based on the nature of the site, the distribution of contamination is expected to be limited to shallow soil.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Unknown HH: 0-15 ft - Unknown Eco: 0-10 ft - Unknown Groundwater Impacts - None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None. The site has no history of vadose zone contamination or groundwater contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Sufficient data and information extists to support remedy decision.									

200-W-89, 252-U, U Plant Electrical Substation, C8S17 Substation, U-Cat Substation

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	200-W-89 was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy identified for this site was removal, treatment, and disposal.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The 200-W-89 unplanned release is located at the site of the former 252-U Electrical Substation near the intersection of Beloit and 16th Street in 200 West Area, east of the 224-U building.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	200-W-89 is an area of residual radioactive contamination in soil that remains after the 252-U Electrical Substation was decommissioned at this location.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The radioactive contamination is assumed to have been deposited on the substation due to fallout from the adjacent 224-U stack over time, during the Uranium Tri-Oxide (UO3) facility operation.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	After the substation was decommissioned, contaminated mouse feces, with maximum readings of 700 counts per minute, were found under the switch gear and in the soil.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	The equipment in the substation was found to be contaminated in 1994. Direct readings of 5,000 disintegrations per minute beta/gamma and 3,500 disintegrations per minute alpha were discovered on metal items. Ceramic insulators, metal pieces, black mastic, gray mastic, charcoal disks and painted metal pieces were collected and analyzed for cesium 137, cesium 134, gross alpha, gross beta, barium, cadmium, chromium, lead, PCB's and silver at the WSCF laboratory. Everything except the black mastic was designated below regulatory limits under WAC 173-303. All of the contaminated equipment has been removed from the site and disposed of at Oakridge TN, or ERDF. After the substation was decommissioned, contaminated mouse feces, with maximum readings of 700 counts per minute, were found under the switch gear and in the soil.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The distribution of contaminants is expected to be contained within shallow surface soil within the posted limits of the site which measures approximately 30 m by 30 m (100 ft by 100 ft).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Groundwater Impacts - None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None. The site has no history of deep vadose zone contamination or groundwater contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	

Data Needs Summary		
Data Need?	**N**	Sufficient data and information extists to support remedy decision.

200-W-9, Project W291 Excavation VCP Contamination

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is in close proximity to T-Plant	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site coordinates listed on 10/13/94 communication from John Belcher to Paul Crane and others. - Site located near southeast corner of 221-T, and 138 ft north of 23rd Street. - Shown on drawing H-2-44511 and Site Map contained in SIMBA project folder.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Yes, 3000 dpm beta/gamma on 100 cm2 smear from pipe, 5,500 dpm direct reading	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Site is a vitrified clay pipe, and associated soil contamination that carried chemical sewer effluent from 291-T, 222-T and 224-T to 216-T-3 crib. - Pipe buried at depth of 5 ft.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination expected to be present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	3000 dpm beta/gamma on 100 cm2 smear from pipe, 5,500 dpm direct reading	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (small volume release and depth to groundwater of 79 m)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision. Expect that additional contamination exists along this VCP chemical sewer pipe. Expect that T-Plant remedy or 216-T-3 crib remedy would address this site.									

200-W-90, Underground Radioactive Material Areas Posted Along 23rd Street in 200 West Area

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44).	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Posted URM areas are located along the south shoulder of 23rd Street. - Site sketch provided in SIMBA project folder.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews		Site Photographs	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Unknown, no radiological survey has been performed.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	No	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for soil contamination, but no contamination documented	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Potential for soil contamination, but no contamination documented	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Potential for soil contamination, but no contamination documented	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (small volume release and depth to groundwater of 79 m)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Sufficient data and information extists to support remedy decision.									

200-W-92, Contaminated Mound of Soil and Debris, Soil Mound West of 241-TY Tank Farm

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44). - Clean gravel placed over mound in April 2007.	CERCLA EE/CA	X	Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Not evaluated.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site measures approx 80 ft x 30 ft by 5 ft (D) and may contain up to 400 CY material. - Surrounded with chain and posted as URM area. Radiation flags posted on significant contamination occurrences. - Pictures provided in EE/CA-Appendix A. - Located just west of northwest corner of 241-TY Building.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews		Site Photographs	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Field rad survey performed in 2001 detected 1,600,000 dpm/100 cm2 beta/gamma and 14,000 dpm/100 cm2 alpha. - Mound contains debris such as rocks, asphalt, concrete; vegetation growing on mound.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Site appears to be a radioactive solid waste disposal area	Waste Stream Analysis				WIDS	X	Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Field rad survey performed in 2001 detected 1,600,000 dpm/100 cm2 beta/gamma and 14,000 dpm/100 cm2 alpha.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (due to nature of waste material and depth to groundwater of 79 m based on 8/16/07 water level in well 299-W-11-45)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

207-S, REDOX Retention Basin, 207-S Retention Basin

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-2 EE/CA (DOE/RL-2008-45) - Basin partially filled in 1954. Additional contaminated soil, from cleanup activities performed east of 241-S/SX Tank Farms, added in 1994. Covered with 18-24 inches of clean fill.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	None expected.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site location marked by URM signs. - Located at northeast corner of intrx of Camden Ave with 10th Street.	Process Description		Known Coordinates		Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	-Basin's concrete walls and floor contaminated by several UPRs associated with 202-S coil leaks; includes UPR-200-W-13, UPR-200-W-15, UPR-200-W-95. - Additional contaminated soil added in 1994. - Periodic field rad surveys performed.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Contaminated cooling water and condensate from 202-S (REDOX) Building. - contaminated soil from cleanup activity performed in vicinity of 241-S/SX/SY Tank Farms.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual soil contamination beneath the basin.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Radiological activity levels documented through periodic surveys, and surveys performed following UPR events. UPR-200-W-95 reportedly discharged 10 Ci of mixed fission products to the basin in 1954.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Expect that a majority of the contamination is confined within and beneath the basin footprint if leakage occurred.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = Not expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

207-T, T Plant Retention Basin, 207-T Retention Basin

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-2EE/CA (DOE/RL-2008-45) - Basin was covered with clean fill in 1996	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	- Site is located just east of 241-T Tank Farm, and west of T-Plant. - RTD at UPR-216-T-12, and potentially other similar sites, associated with basin sludge disposal just outside basin walls.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site marked by T posts at corners and posted as URM. - Located just east of 241-T Tank Farm and north of 23rd Street.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews		site photographs	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Contaminated soil present east of the basins was placed inside basin prior to filling. - Basins concrete floor and walls may also contain residual contamination from 51 yrs of wastewater pass-through. - Soil contamination lying beneath the basins may also be present as a result of basin leakage. - Routine rad surveys detected 4,000 cpm on outer area of northeast fence in July 1984.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Received low-level radioactive cooling water from 221-T, 224-T and 242-T Evaporator. - Received 1,900 L of 5% sodium hydroxide (100 Kg) from T-Plant	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	- Residual soil/sludge contamination lying outside basin walls. - Residual soil contamination associated with basin leakage.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = Not expected. Depth to groundwater is 79 m based on 8/16/07 water level in well 299-W-11-45)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected. Expected that the sodium hydroxide was diluted before reaching/leaving the basins.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Concrete structure, liklihood low of transport of contaminants to deep vadose zone.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Sufficient data and information extists to support remedy decision.									

207-Z, 207-Z Retention Basin, 241-Z Retention Basin, 241-ZRB, 241-Z-RB

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Previously assigned to 200-MG-2 OU. RTD identified as preferred remedial alternative in MG-2 EE/CA (DOE/RL-2008-45)	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby facilities and waste sites in vicinity of PFP could affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	No known vadose contamination associated with this waste site. No vadose characterization has been performed. The inner surfaces of the retention basin were contaminated and the basin was filled with concrete.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is variably-contaminated process waste water generated in the 234-5Z Building (PFP). Waste water was transferred to the basin by pipeline. Waste water was generally discharged to a surface ditch; alternatively, contaminated waste could be diverted to the 241-Z-361 Settling Tank.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	No secondary vadose zone source is identified associated with this waste site. No site-specific characterization has been performed. The previous EE/CA identified the need for RTD based on erroneous information.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No release from this waste site has been identified and no characterization has been performed to describe vadose contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No characterization data exist, but based on site disposal history and basin construction, releases not expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is not expected to be a concern at this site due to the absence of any confirmed release to the vadose zone.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	No unusual geochemical issues are associated with this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site does exhibit apparent deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

216-S-1&2, 216-S-5 Crib, 216-S-1 & 2

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No, this site currently being evaluated under 200-PW-2 RI/FS (see DOE/RL-2007-02), and previously under DOE/RL-2003-64.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is located just east of 241-SX Tank Farm.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Location shown on Drawing H-2-44510. - Located just east of 241-SX Tank Farm. - Marked in field with URM and Cave-In Signage.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Yes, extensive soil and groundwater contamination associated with discharges to this crib.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)	X	Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log	X	Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Crib received cell drainage and process condensate from 202-S (REDOX) Facility	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination present.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log	X	Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Yes, through soil and groundwater sampling, and borehole geophysical survey.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log	X	Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Yes, preliminary CSMs provided in RHO-CD-673 and DOE/RL-2007-02	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = yes	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log	X	Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Waste discharged to this crib reportedly had a pH of 2.1.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log	X	Same Site Type		
Data Needs Summary										
Data Need?	**Y**	Characterization information needed to assess risk, deep vadose zone and groundwater impacts.								

216-S-12, UPR-200-W-30, 291-S Stack Wash Sump, REDOX Stack Flush Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	RTD recommended as the preferred alternative in MG-2 EE/CA.	CERCLA EE/CA	X	Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is remote and unlikely to be affected by 202-S (REDOX) cap.	CERCLA EE/CA		Action Memorandum		yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		no		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Location shown on Drawing H-2-44510. - Coordinates for trench corner provided in RHO-CD-673. - GPS survey performed on 1/13/2000 (reference Job # 315). - Located north of 291-S Stack.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Trench received a one-time discharge of 18,000 gallons of stack flush water containing an estimated 5 Ci of beta emitters and other radionuclide constituents.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	One time discharge of flush water from 291-S Stack.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination beneath trench footprint likely present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (based on pore volume calculation)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	One time discharge.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		

Data Needs Summary

Data Need? **Y** Based on disposal history, material type, and disposal volume, vadose contamination greater than 15 ft below ground surface suspected. The site has not been previously investigated and there are no adequately-characterized similar sites available.

216-S-14, Buried Contaminated Hexone, Cold Organic Trench or Grave, 216-S-4 Burial Contaminated Hexone

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- The trench was filled with 6 ft clean earth after completing waste discharge in 1952 and posted with Radiation Zone, Do not Excavate signs. - Core drillings were conducted in 1971 and the fence and warning signs were removed. - Interim stabilization was documented in HW60807 and HW-28471.	CERCLA EE/CA		Action Memorandum		Yes	X	Complete and Verified	X	No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The site is associated with 202-S building.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on process description and core drillings conducted at the site in 1971. There was a strong odor of hexone from each of the sample cores and core holes.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is hexone contaminated with trace amounts of unirradiated uranium from the initial test runs in the 202-S REDOX facility (Process liquid waste). The trench received 76,000 liters of waste.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to depth greater than 20 ft bgs is anticipated based on the results of core drillings conducted in 1971 and amount of liquid waste discharged.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contaminant concentration is unknown because no soil samples were analyzed for hexone. No radioactivity was found.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution was defined by a wooden fence to the boundary of the trench.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		Yes
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = No (the trench was backfill with 6 feet clean earth) HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = No	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes, the bottom of the trench is 6 feet bgs and the height of liquid discharge in soil column is estimated to be greater than 15 feet.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**Y**	Based on disposal history, material type, and disposal volume, and historical investigation, vadose contamination greater than 15 ft below ground surface suspected. The site has not been previously investigated and there are no adequately-characterized similar sites available.								

216-S-18, 241-SX Steam Cleaning Pit, 216-S-14 Steam Cleaning Pit

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	MG-2 EE/CA identified confirmation sampling and no further action as preferred remedial alternative. - Pit excavated in 1972 and in 1995 and 1997 the open trench used to consolidate radionuclide contaminated material from nearby UPR site. Trench was covered with 1-2 and/or 6 ft of clean material in 1997 and posted as URM	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is located just east of 241-S Tank Farm, and also associated with the UPR-200-W-114.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site location with coordinates shown on Drawing H-2-4551. - Site located east of 241-S Tank Farm and just north of 13th Street. - Marked with light weight chain and URM signs.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Trench contains radionuclide contaminated soil associated with wind drift from nearby tank farm and UPR-200-116. Residual soil contamination may also occur beneath trench footprint.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Trench initially received vehicle decontamination effluent in 1954, then later received contaminated soil from cleanup of nearby UPR site(s).	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual shallow soil contaminationbased on operational history (operated only 1 month) and volume of liquid received (98,400 liters).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis. Contamination greater than 15 ft not expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Contamination greater than 15 ft not expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = not expected based on volume of liquid received	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	One time discharge.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	No sampling and analysis, but not expected based on trench size and volume of liquid received.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

216-S-20, 216-SL-1&2 Crib, 216-SL-2

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Site was part of 200-LW-2 OU	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is located southeast of 202-S (REDOX) Building and may be overlain by a cap.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site location marked by light chain, surface contamination signs, and concrete post. - Shown on Drawing H-2-44510.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	-Based on effluent volume discharged and rad/non-rad inventory which included 171 Cu of total Pu, 171 Ci of total beta (includes 25 Ci of Sr-90 and 61.9 ci of Cs-137), and 10.5 Ci of TRU activity as of 12/31/1985.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)	X	Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Crib received liquid waste from the 222-S Building and 300 Area laboratory waste via truck that was unloaded into the manhole. The manhole unloading structure is located approximately 7.6 meters (25 feet) south of the 216-S-20 radiologically posted area.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination present.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Yes, through soil and groundwater sampling, and borehole geophysical survey.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Characterization data available from C4176 borehole drilled in 2004 through first (upstream crib), and monitoring wells 299-W22-61, 299-W22-63, and 299-W22-65	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = yes	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs	X	Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Crib has caved in on past occasions.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient characterization information exists to support remedy decision.									

216-S-22, 216-S-22 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	MG-1 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is located east of 202-S (REDOX) Building and could be overlain by a cap.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	-Crib is marked and posted with URM signs. - Located east of 202-S Building. - Shown on Drawing H-2-44510. - Approx coordinates for crib are listed in RHO-CD-673 (Vol II.)	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- 98,000 Liters of effluent containing 7,000 kg of nitrate and 3,000 kg of sodium discharge. - Effluent reportedly contained only nominal levels of radionuclides. - Existing monitoring wells 299-W22-19 is located near downstream end of crib.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log	X	Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Site used for disposal of liquid waste from acid recovery operations in 293-S Building.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for low-level soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log	X	Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Existing monitoring wells 299-W22-19 is located near downstream end of crib and may not provide representative scintillation data.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log	X	Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	- Small effluent volume and crib geometry likely contained infiltration to the head end of the crib.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (no evidence of groundwater impacts based on historic (1957-1974) 299-W22-19 sampling and analysis results	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Potentially, crib received only 0.14 pore volume which corresponds to depth of 33 ft.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Sufficient data and information extists to support remedy decision.									

216-S-23, 216-S-23 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Site was associated with the 200-PW-4 OU	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site is marked with concrete AC-540 markers and posted with URM signs. - Site location shown on Drawing H-2-4451 and SK-2-21845. - Coordinates listed in RHO-CD-673.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	SIMS reports 300 kg of nitrate, 1.25 Ci of Sr-90, 3.79 Ci of Cs-137, 10 Ci of beta. 0 kg/Ci of uranium, Tc-99, I-129. - Scintillation probes run in wells located outside crib footprint in 1976 showed background activity levels. - Historic sampling did not investigate for contamination at head end of crib within footprint	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log	X	Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Crib received REDOX process condensate from D-2 Receiver Tank in the 202-S Building. - Low salt, neutral-basic. 300 Kg of nitric acid reportedly discharged.	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for soil contamination exists.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)		Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	- Five deep wells (299-W19-5, W19-6, W19-7, W22-37, W22-38). - Scintillation probes in 1976. - Boreholes A7734, A7735, A7856, A7857. - Scintillation probes and spectral gamma run on boreholes located outside crib footprint. May not provide representative data. - Near surface radionuclide contamination present as a result of consolidation of material from UPR-200-W-165.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = minor impact based on historic (1969-1977) sampling from five monitoring wells.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts	X	Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Some impact likely present based on pore volume calculation and historic groundwater sampling.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Recommend a boring near the head of the crib and advanced to the water table to characterize the source area and evaluate vertical extent of contamination.									

216-S-25, 216-S-25 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Confirmation sampling and no action recommended as the preferred alternative in the MG-2 EE/CA (Draft A) at estimated cost of $180,000.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Not expected. Crib is located outside 200 West fence.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Crib located south of 13th Street and west of 241-SX Tank Farm. - Site marked with AC-540 markers and posted with URM signs. - Shown on Drawing H-2-44510. - Coordinates listed in RHO-CD-673 (Vol III).	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	-SIMS reports 1400 kg of chromium, 22,000 kg of nitrate, 3800 Ci of tritium, 0.7 kg of uranium, 0 Ci of Tc-99 and I-129.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	='[216-S-23 and 216-S-25 text.xlsx]Y - 216-S-25 Crib'!$C$17:$D$51+C13	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination likely present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log	X	Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	RHO-RE-SR-86-24 P (Table 23) contains an effluent sample result but sample is labeled 234-5 Z (PFP).	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log	X	Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	##	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		Yes
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log	X	Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential	HH - 0 to 3 ft = No HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = minor impact based on historic	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
receptors identified)	sampling from three monitoring wells.					Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Some impact likely present based on pore volume calculation and historic groundwater sampling.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Recommend a boring within the crib to characterize the source area and evaluate vertical extent of contamination.									

216-S-3, 216-S-5, 216-S-3 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Location shown on site maps. - Located inside the 241-S Tank Farm Fence, - Marked and posted with URM signs.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Inorganic - Condensate sampling indicated 95% of the activity was due to zirconium-niobium. Additional information needed to assess nature of contamination.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Condensate from condensers on the 241-S-101 and 241-S-104 Tanks located inside the 241-S Tank Farm.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Possible surface contamination through disposal of slightly contaminated surface soil scraped from construction of the 241-SY Tank Farm at depressed area at 216-S-3 site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- No sampling and analysis conducted for non-radioactive (inorganics) - The contaminated surface soil was generally contaminated to approximately 1000 counts per minute.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Neutral to basic	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes based on the waste disposal volume.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Recommend drilling within the crib to further characterize the source area and evaluate vertical extent of contamination.									

216-S-5, 216-S-5 Cavern #1, 216-S-6 Crib, 216-S-9 (See Subsites)

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	A remedy evaluation of the 216-S-5 Crib has not performed.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The pipelines to the 216-S-5 crib are 200-W-154-PL and 200-W-152-PL.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	This unit is outside of the 200 West Area perimeter fence, southwest of 207-S Retention Basin and west of the 216-S-10 Ditch.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Yes. Contamination at the site has been confirmed by radiation surveys, scintillation logs, and spectral gamma logs. Contaminant included co-60, Sr-90, Cs-137 and nitrates.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process	X	
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log	X	Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The 216-S-5 Crib received subsurface liquid disposal for the 202-S Building process vessel cooling water and steam condensate via an underground clay pipeline. The 216-S-5 crib was constructed in March 1954 as a temporary replacement for the grossly contaminated 216-S-17 Pond. The 216-S-5 Crib was built to receive effluent with a low potential for contamination whereas, the 216-S-6 Crib received condensate and cooling water with a high potential for contamination. In 1956, the large cooling water discharge volumes made it necessary to cut a hole along the top edge of the crib to discharge overflow cooling water to a trench immediately southwest of the 216-S-5 crib structure rather than allowing the crib to flood (see drawing H-6-466). The emergency crib overflow pond was used until the 216-S-16 Pond was completed in September 1957.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	In September 1956, the REDOX A-2 dissolver and H-4 coils failed. As a result of this failure, dose rates along the edge of the crib overflow area increased from 100 millirad per hour to 350 millirad per hour with some spots reading up to 17 rad per hour.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	Scintillation probe profiles of borehole 299-W26-01 indicate radioactive contaminants from 1.5 to 12.8 m (5 to 42 ft) bgs. In 2006, Geophysical logging of borehole 299-W26-01 identified Cs-137 in the same depth range as the scintillation log with a maximum concentration of 12,000 pCi/g at 5.8 m (19 ft) bgs. Scintillation probe and spectral gamma log profiles from wells 299-W-26-1, -3, -4, -5 and -6 indicate residual gamma emitters to about 30 feet bgs within the crib footprint, with little evidence of lateral spread of contamination. In 2003, spectral gamma logging of borehole 299-W26-6 to a depth of 210 ft identified Cs-137 near the ground surface (1 to 4.9 m [3 to 16 ft]) with concentrations ranging from 0.4 pCi/g to 2.5 pCi/g.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The site consists of a gravel-filled crib and an overflow trench. The crib was constructed of two lengths of perforated, corrugated metal pipe that form a cross. The crib measured 64 m (210 ft) by 64 m (210 ft) with a depth of 4.6 m (15 ft). Contaminated media include surface soil, shallow vadose zone soil, and deep vadose zone soil.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes. The 216-S-5 Crib was surface stabilized in August 1990. HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - Unknown.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey	X	Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log	X	Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding	The waste was acidic and contained nitrates.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes. Based on the contaminant inventory, discharge depth, effluent volume and characterization	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	DOE/RL-2007-02 developed a conceptual site model for the 216-S-5 Crib and concluded that sufficient characterization data was available for decision making for the shallow zone, but relied upon information to be collected for the 216-S-6 Crib for the deep vadose zone. Data for the 216-S-6 crib will be collected to groundwater.									

216-S-6, 216-S-6 Cavern #2, 216-S-5 Crib, 216-S-13 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	This waste site was previously investigated as part of the 200-SC-1 OU and again under the Supplemental Remedial Investigation Work Plan (DOE/RL-2007-02) No remedial action decision has been made.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The site is sufficiently separated from other sites that remedial action at other sites will not likely directly affect this site.	CERCLA EE/CA		Action Memorandum				Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is confirmed, southwest of REDOX plant.	Process Description	x	Known Coordinates	x	Relative to defined landmark	x			No
		Site description	x	Air Photo	x					
		Engineering Drawings	x	LIDAR	x					
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Previous sampling and analysis confirms vadose zone contamination by fission products, nitrate, and uranium. Elevated concentrations detected to the maximum depth investigated (i.e., 33 m [100 ft] bgs). Existing data do not characterize deep vadose zone (i.e., deeper than 33 m [100 ft]) at this waste site that indicated historical groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements		Same Plant		No
		Process Description	x	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	x	Groundwater Impacts	x	Scintillation Log	x	Same Site Type		
		Deep (>15 ft bgs)?	x	Spectral Gamma Log	x	Shallow (<15 ft bgs)?	x			
				Shallow (<15 ft bgs)?	x	Deep (>15 ft bgs)?	x			
				Deep (>15 ft bgs)?	x					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Yes, this waste site received 4.5e+09 L (1.2e+09 gal) of REDOX Plant steam condensate and cooling water with varying contamination. This waste stream previously grossly contaminated the 216-S-17 Pond and 207-S Retention Basin.	Waste Stream Analysis						Same Plant		No
		Process Description	x					Same Process		
		Incident Report	x					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Contaminated vadose soil beneath the site are a potential secondary source of groundwater contamination.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts	x	Radiation Survey	x	Same Process		
		Incident Report	x	Spectral Gamma Log	x	Scintillation Log	x	Same Site Type		
				Shallow (<15 ft bgs)?	x	Shallow (<15 ft bgs)?	x			
				Deep (>15 ft bgs)?	x	Deep (>15 ft bgs)?	x			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Existing measurement data indicate contamination from near surface to 33 m (100 ft) bgs. Highest concentration are observed near the bottom of the crib. No data from vadose soil deeper than 33 m bgs are available.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements		Same Plant		Yes
		Process Description	x	Spectral Gamma Log	x	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Available data indicate little lateral spreading in the vadose zone. No measurement data are available for the vadose deeper than 33 m (100 ft) bgs. The site exhibits apparent historical groundwater contamination.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements		Same Plant		Yes
		Process Description	x	Spectral Gamma Log	x	Radiation Survey		Same Process		
		Incident Report				Scintillation Log	x	Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical receptors are applicable at this site: Near surface (i.e., <1 m bgs), 1-4.7 m (3 to 15 ft) bgs, and deep vadose zone (>4.7 m [>15 ft] bgs). Potential for future groundwater contamination.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements		Same Plant		Yes
		Process Description	x	Spectral Gamma Logs	x	Radiation Survey	x	Same Process		
		Incident Report	x	Groundwater Impacts	x	Scintillation Log	x	Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	No unusual geochemistry identified for this waste site.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts	x	Radiation Survey		Same Process		
		Incident Report	x	Spectral Gamma Log	x	Scintillation Log	x	Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes, this waste site apparently contaminated groundwater.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts	x	Radiation Survey		Same Process		
		Engineering Drawings	x	Spectral Gamma Log	x	Scintillation Log	x	Same Site Type		
Data Needs Summary										
Data Need? Y	Previous sampling and analysis confirms vadose zone contamination by fission products, nitrate, and uranium. Elevated concentrations detected to the maximum depth investigated (i.e., 33 m [100 ft] bgs). Existing data do not characterize deep vadose zone. Additional data that describe residual contamination between 33 m (100 ft) bgs and the water table are needed to fully evaluate the potential for future groundwater impacts. This waste site also will be used to represent conditions at nearby 216-S-5 Crib.									

216-S-7, 216-S-7 Crib, 216-S-15

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	A remedy evaluation of the 216-S-7 Crib has not performed.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The crib is located north of 10th Street, northwest of the 202-S Building.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Yes. Based on the contaminant inventory, discharge depth, effluent volume and characterization data, deep vadose zone impacts have been confirmed at this Site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log	X	Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The crib was built to replace the 216-S-1 & 2 cribs. It received REDOX cell drainage and process condensate waste. From January 12, 1956 to April 12, 1959, the unit received REDOX cell drainage from the D-1 Receiver Tank, process condensate from the D-2 Receiver Tank, and condensate from the H-6 Condenser in 202-S Building. A buildup of beta activity in this crib prompted the rerouting of H-6 waste material. On April 12, 1959, jumper changes were completed that routed the H-6 liquid waste to the underground waste storage tanks. The crib continued to receive waste from D-1 and D-2 Vessels until July 1965. The chemicals disposed at the site included nitrate, aluminum nitrate, nitric acid, and sodium.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	Core samples collected from well 299-W22-32 (installed in 1966) show the presence of Cs-137 reaching a maximum concentration of 13,000,000 pCi/g at 6 m (21 ft) and decreasing rapidly to <300 pCi/g at 10 m (35 ft). The concentration drops below 2 pCi/g at 39 m (130 ft). Sr-90 peaks to a concentration of 2,700,000 pCi/g at 6 m (21 ft) and falls below the detection limit at 42 m (140 ft). Core samples collected from well 299-W22-33 (installed in 1966) show a maximum concentration of 15,000 pCi/g of Cs-137 at 6 m (21 ft), and falling below the detection limit below 14 m (45 ft). Sr-90 has peak concentrations of 58,000 and 6,100,000 pCi/g at 7 m (25 ft) and 14 m (50 ft), respectively. Water samples (groundwater?) contained Sr-90 concentrations of 0.78 pCi/m. In November 2004, characterization borehole C4557 was installed near the center of the crib to a depth of 69 m (226 ft) below ground surface. Four soil samples were collected (B1B5H0 through B1B5H3). Between March 2003 and January 2005, six boreholes were geophysically logged to depths ranging from 65 to 105 m (212 to 345 ft). Three boreholes (C4557, A7851 and A7852) were centrally located within the crib, with the other three (A7837, A7838, and A7839) located at the eastern, western and southern edges of the crib respectively. Elevated levels of man-made radionuclides (primarily Cs-137) were identified in each borehole. Other man-made radionuclides detected at elevated levels include Co-60, U-238, and Eu-154. Maximum detected concentrations include: Cs-137 @ 3x106 pCi/g and U-238 at 31 pCi/g, with Eu-154 and Co-60 detected sporadically at low levels near their respective method detection limits. Geophysical logging of these wells detected the highest levels of contamination between 4.6 m (15 ft) and 10.7 m (35 ft) with elevated levels of Cs-137 extending to approximately 40 m (130 ft) with detections as deep as 63 m (207 ft).	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The 2-16-S-7 Crib measures 30 m (100 ft) long by 15 m (50 ft) wide by 6.6 m (22 ft) deep. The distribution of contaminants includes shallow vadose zone soil, deep vadose zone soil, with likely impacts to groundwater. The lateral distribution of contaminants appears to have reached the western and southern edges of the crib footprint and likely beyond.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes. The site was surface stabilized in 1992 with 0.6 m (2 ft) of clean fill. HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - Yes Sampling of wells W22-12, W22-13, and W22-14 during January 1963 found detectable levels of Total-Sr and Sr-90 in groundwater beneath the Crib, indicating breakthrough to groundwater had occurred.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey	X	Same Process	X	
		Incident Report		Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding	The waste had a pH of 2 with high salt content.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes. Based on the contaminant inventory, discharge depth, effluent volume and characterization data, deep vadose zone impacts have been confirmed at this Site.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts	X	Radiation Survey	X	Same Process		
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log	X	Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient characterization information exists to support remedy decision.									

216-S-8, Cold Aqueous Trench, Cold Aqueous Crib, 216-S-3, Unirradiated Uranium Waste Trench, Cold Aqueous Grave

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-S-8 Trench was evaluated as part of the 200-MG-1 OU EE/CA (DOE-RL-2008-44). The preferred remedy identified in is confirmation sampling/no further action (CS/NFA).	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The 216-S-8 Trench is located near the 216-S-2 and 216-S-2 Cribs.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	This unit is located on the east side of the 241-SX Tank Farm and southwest of the 216-S-1 & 2 Cribs.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Yes. Based on the reported waste discharge volume and contaminant inventory and results of a radiation survey, contamination is present at the site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The site was a single use trench (November 1951 to February 1952) that received Unirradiated uranium start-up waste from the 202-S Building. The site was retired when the discharge of start-up waste to the unit was completed. The site was deactivated by removing the above-ground piping and backfilling the unit. Waste concentrations were estimated to be 0.2 grams of uranium per liter. The estimated total volume was expected to be only 152,000 liters (40,000 gallons). HW-28471 states that a total of 309,700 liters (81,500 gallons) containing 193 kilograms (430 pounds) of Unirradiated uranium was discharged to this trench.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No subsurface sampling and analysis data has been identified. A surface radiation survey performed in 1984 identified spots of contamination ranging from 400 to 5,000 counts per minute.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The trench dimensions are 30 m (100 ft) long by 18 m (60 ft) wide and 7.5 m (25 ft) deep. The water table is located 58 m (192 ft) below the Trench. A surface radiation survey performed in 1984 identified spots of contamination in the center and northwest corner of the trench. The distribution of contaminants within the subsurface is unknown. Pore volume ratio is .03 pore volumes.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes. Interim surface stabilization took place in 1994 HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - Not Expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Based on the trench construction depth of 7.5 m (25 ft), deep vadose zone impacts are likely.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		

Data Needs Summary

Data Need?	**N**	No, since discharge volume is significantly lower than pore volume ,contamination expected near bottom of former trench.

216-SX-2, 216-SX-2 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	RTD identified as preferred remedial alternative in MG-2 EE/CA (DOE/RL-2008-45)	CERCLA EE/CA	X	Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Located at southwest corner of 241-SX Tank Farm	CERCLA EE/CA		Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Yes, waste site marked in field with light post, signs and chain. - Drawing H-2-39955 shows a gravel sump on north side of compressor building, which appears to be a raw water drain. - Size = 60 ft (L) x 10 ft (W) x 6 ft (D).	Process Description	X	Known Coordinates	X	Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews	X							
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Received steam condensate from 241-SX-701 Compressor House. - Crib plugged.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Interpreted to be oily condensate from compressor, as suggested by crib plugging	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	TPH contaminated soil.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis, but deep contamination not expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	- No sampling and analysis. - Drawing H-2-39952 shows invert elev of 657.8 ft and ground surface elev of 661 ft (depth is 3.2 ft below ground surface). DOE/RL-2008-45 Draft A reports depth of 6.8 ft.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 3 ft = no (material removed). Groundwater impacts = not expected (small effluent volume)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Residual oil potentially present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Sufficient data and information extists to support remedy decision.									

216-T-10, Decontamination Trenches, Equipment Decontamination Area

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- No. Trench was excavated in May 1972 and material disposed in 200 West Dry Burial Ground. - No verification sampling performed. - MG-2 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	-Grid coordinates shown in ARH-2155 (pg B-18). - 610 ft west of 221-T and 630 ft north of 23rd Street -Not marked in field. - Dimensions of 50 ft (L) x 10 ft (W) x 6 ft (D)	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Majority of soil contamination likely removed. -1950's rad inventory (project library folder) reported 12.1 curies beta activity discharged. - Residual contamination may occur beneath excavation footprint.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	-Estimated volume discharge is 50,000 gals. - Radionuclide activity in material excavated and disposed was identified at 3,000 cpm (ARH-2757).	Waste Stream Analysis				Radiation Survey	X	Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	- Relatively small effluent volume and removal of excavated material in May 1972 suggests limited (if any) residual soil contamination remains.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Radiation activity reported at 3000 cpm in excavated material removed from trench	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	- No sampling and analysis. - Limited distribution expected due to small volume of effluent received. - Horizontal extent approximated by trench footprint. Vertical extent expected to be limited near bottom of trench.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes (material removed from 0 to 3 ft). Groundwater impacts = not expected (small effluent volume). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

216-T-11, Decontamination Trenches, Equipment Decontamination Area

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- No. Trench was excavated in May 1972 and material disposed in 200 West Dry Burial Ground. - No verification sampling performed. - MG-2 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	-Grid coordinates for T-9, T-10 and T-11 provided in HW-33305. - Not marked in field. - Dimensions of 50 ft (L) x 10 ft (W) x 6 ft (D)	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Majority of soil contamination likely removed. - Residual contamination may occur beneath excavation footprint. -1950's rad inventory (project library folder) reported 12.1 curies beta activity discharged.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	-Estimated volume discharge is 50,000 gals. - Radionuclide activity in material excavated and disposed was identified at 3,000 cpm (ARH-2757).	Waste Stream Analysis				Radiation Survey	X	Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	- Relatively small effluent volume and removal of excavated material in May 1972 suggests limited (if any) residual soil contamination remains.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Radiation activity reported at 3000 cpm in excavated material removed from trench	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	- No sampling and analysis. - Limited distribution expected due to small volume of effluent received. - Horizontal extent approximated by trench footprint. Vertical extent expected to be limited near bottom of former trench.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes (some material removed from 0 to depth of 2-3 ft). Groundwater impacts = not expected (small effluent volume). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

216-T-12, 207-T Sludge Grave, 207-T Sludge Pit, 216-T-11

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-2 EE/CA (DOE/RL-2008-45) - Site stabilized with clean backfill in 1996.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	207-T Basins RTD proposed on the MG-2 EE/CA would likely affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site is not marked by lies adjacent to northeast corner of 207-T Basins, which are marked. - Map provided in SIMBA Project folder. - Site measures 15 ft x 10 ft x 8 ft (D).	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews		site photographs						
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Received sludge for 207-T Basins.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Received sludge for 207-T Basins. Estimate less than 50 CY sludge.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination may be present immediately beneath the trench footprint.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Field screening at time of disposal in 1954 measured 15 mrem/hour, surface readings measured 2-5 Mrem/hour.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Contamination expected immediately beneath trench footprint.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = not expected (due to nature of waste material (semi-solid) and small volume of material buried). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

216-T-13, 269-W Regulated Garage, 269-W Decontamination Pit or Trench, 216-T-12, 269-W Regulated Garage Decontamination Pit

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- No. Trench was excavated in April 1972 and 4 CY of material contaminated at 1500 cpm disposed in 200 West Dry Burial Ground. - No verification sampling performed. - MG-2 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	-Grid coordinates listed in ARH-2155 pg. B-21, and HW-33305. - Not marked/posted in field. - Conflicting dimensions provided. HW-33305 states trench was 25 ft (L) x 10 ft (W) x 8 ft (D). -Drawing H-2-1495 (originally made in 1952) shows the location of the trench adjacent to the 269-W garage and northwest of the 241-TY Tank Farm, while a later drawing (H-2-32526, 1967 Rev 3) shows the trench due north of the 241-TY Tank Farm. The mapped location in HGIS is due north of the Tank Farm as of December 2001.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Majority of soil contamination likely removed but 4 CY excavation volume represents only 5% of trench volume. - Residual contamination may occur within and beneath excavation footprint.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	-Estimated volume discharge is reported at 26,000 gals (ARH-1608). Inventory described in DOE/RL-2008-45 (pg A-37). - Radionuclide activity in material excavated and disposed was identified at 1,500 cpm (WIDS).	Waste Stream Analysis						Same Plant		No
		Process Description	X			Radiation survey	X	Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	- Relatively small effluent volume and removal of excavated material in April 1972 suggests limited (if any) residual soil contamination remains.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Radiation activity reported at 1,500 cpm in excavated material removed from trench	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume	- Two test pits excavated in 2005. Samples Identified as BIC769 to BIC783, BICY49 and BICY50. Sampling results indicate low concentrations of radionuclides and metals.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
of affected media)	- Limited distribution expected due to small volume of effluent received. - Horizontal extent approximated by trench footprint.					Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes (material removed from 0 to 3 ft). Groundwater impacts = not expected (small effluent volume). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45).	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

216-T-2, 222-T-110 Dry Well, 222-T Reverse Well

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	None identified.	CERCLA EE/CA		Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is located near southwest corner of 222-T Building.	CERCLA EE/CA		Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Location shown on site maps. - Coordinates are known. - Well perforated at depth of 50 to 75 ft below ground surface.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews		Site Photographs	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Received 6,000,000 L of laboratory waste containing fission products and plutonium. Reportedly 2.6 curies of fission products and 600 mg of plutonium discharged per month. - Well receive waste for approx 5 yrs.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste	Received laboratory waste from 222-T Laboratory.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination likely present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Soil contamination likely present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Soil contamination likely present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no (waste discharged at depth of 50-75 ft bgs). HH - 0 to 15 ft = no (waste discharged at depth of 50-75 ft bgs). Eco - 0 to 10 ft = no (waste discharged at depth of 50-75 ft bgs). Groundwater impacts = likely based on effluent volume discharged.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Waste was acidic in nature.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes, based on perforated interval of well (~55 to 75 ft bgs), and effluent volume discharged.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Extrapolation of nature and extent from 216-B-5 injection well sufficient for remedy decision.									

216-T-20, 216-TX-2, 216-T-20 Crib, 241-TX-155 Contaminated Acid Grave

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44) - Formerly part of PW-4 OU.	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	None expected.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site maps and photograph identify location. - Identified with concrete marker and URM sign. - Located north of 200 Powerhouse Pond. - Pit measures 22 ft x 22 ft x 4 ft (D)	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews		Site Photograph	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Site received one time disposal of 18,900 L of nitric acid from 241-TX-55 Diversion Box. - Small concrete block structure at surface labeled with possible internal contamination. - Radionuclide inventory indicates 0.43 Curies of Sr-90, 1.78 Curies o Total Beta, and 5 kg of uranium (1986).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Nitric acid from 241-TX-55 Diversion Box.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for nitrate contamination and low pH	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis. No deep contamination expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. No deep contamination expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = not expected (small discharge volume). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Acidic.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected. Based on liquid volume discharged, liquids could have migrated to depth of 9 ft.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Sufficient data and information extists to support remedy decision.									

216-T-27, 216-TY-2 Cavern, 216-TY-2 Crib, 216-TX-2 Cavern, 216-TX-2 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- Approximately 6-inches of material scraped from surface in July 1975 and disposed on 200 West Dry Burial Grounds. - Site was surface stabilized in May 1990. - None identified. Site formerly associated with 200-LW-1 OU.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is associated with the 221-T, 2706-T, 216-TY-201 Flush Tank, 200-W-199-PL and 200-W-82 sites	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site is located with a chained and posted URM area east of 241-TY Tank Farm. - Location shown on drawing H-2-2733. '- Crib bottom measures 30 ft x 30 ft by 15 ft (D)	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Site reportedly received 7,190,000 Liters of effluent. - Site operated from September to November 1965. - Reportedly received 282 Curies of total beta, includes 82.6 Curies of Sr-90 and 61 Curies of Cs-137 (decayed to 1986), 13 grams of Pu, 7.26 Kg uranium, and 1000 Kg of nitrates.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Site received steam condensate and decontamination wastes from T-Plant (through 241-TY Tank Farm), along with 2607-T equipment decontamination waste, and later 300 Area laboratory waste, and round the clock trucked waste from PRTR rupture incident. - Surface survey performed in 1975 detected activity to 30,000 cpm.	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination present	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis. Data from 216-T-28 will be used.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Data from 216-T-28 will be used.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes (1969-1979 contaminated Russian Thistles found on surface). HH - 0 to 15 ft = yes (waste discharged at depth of 15 ft bgs. Eco - 0 to 10 ft = no (1969-1979 contaminated Russian Thistles found on surface). Groundwater impacts = Yes (effluent volume corresponds to 7.7 pore volumes). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	- Groundwater monitoring wells 299-W14-2 and W14-3 provide coverage for this area. Data from 216-T-28 will also be used.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Site knowledge and extrapolation of nature and extent from 216-T-28 sufficient for remedy decision.									

216-T-28, 216-TY-3 Cavern, 216-TY-3 Crib, 216-TX-3 Cavern, 216-TX-3 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- Approximately 6-inches of material scraped from surface in July 1975 and disposed on 200 West Dry Burial Grounds. - Site was surface stabilized in May 1990. - None identified. Site formerly associated with 200-LW-1 OU	CERCLA EE/CA		Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is associated with the 221-T, 2706-T, 216-TY-201 Flush Tank, 200-W-199-PL and 200-W-82 sites	CERCLA EE/CA		Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site is located with a chained and posted URM area east of 241-TY Tank Farm. - Location shown on drawing H-2-2733. - Crib bottom measures 30 ft x 30 ft by 15 ft (D)	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Site reportedly received 42,300,000 Liters of effluent. - Site operated from 1960 to 1966. - Reportedly received 663 Curies of total beta, includes 116 Curies of Sr-90 and 210 Curies of Cs-137, 70 grams of Pu 9 (decayed to 1986), 391 Kg of uranium, 6.72 Curies of TRU.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- From Feb 1960 through Feb 1963 received steam condensate and process decontamination water via the 241-T-112 tank in the 241-T Tank Farm. In 1963, 2706-T equipment decontamination waste was added to the waste stream. In 1964, 300 Area laboratory waste was sent to this site. 945,00 gallons of waste from PRTR rupture incident sent to crib between Sep and Oct 1965. - Surface survey performed in 1975 detected activity to 30,000 cpm.	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	- Ritter (1966) reported radioactive strontium and cesium breakthrough to groundwater in 1965. - Soil contamination present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Characterization borehole C4175 was drilled into the crib in November 2004.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Characterization borehole C4175 was drilled into the crib in November 2004. Vertical characterization information available. See Figure 1-7 in BHI-01589 (Draft A) for preliminary contaminant distribution model for this crib.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes (1969-1979 contaminated Russian Thistles found on surface). HH - 0 to 15 ft = yes (waste discharged at depth of 15 ft bgs). Eco - 0 to 10 ft = no (1969-1979 contaminated Russian Thistles found on surface). Groundwater impacts = Yes (effluent volume corresponds to 7.7 pore volumes). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Acidic to basic, low salt, low organic liquid waste stream.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	- Groundwater monitoring wells 299.W14-1, W14-2 and W14-3 provide coverage for this area. - Pore volume and liquid effluent volume indicate deep vadose zone impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Site characterization sufficient to support remedy decision.									

216-T-29, 291-T Sand Filter Sewer, 216-T-29 French Drain

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	- Sand Filter located 190 ft east of 221-T Canyon Building. - Expected that D&D of 291-T Sand Filter would Affect this Site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Located adjacent/north of 291-T Sand Filter. - Coordinates shown on RHO-CD-673. - Drawing shows a gravel pit on north side of sand filter also.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Drains to gravel line pit at north corner of sand filter (Drawing H-2-1378). - Depth of discharge hard to discern from drawing, but is less than 15 ft. - WIDs list nitric acid only.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Canyon Blg air condensate from 291-T sand filter discharged to this French drain. - Volume estimate at 74,000 L (19,600 gals). - 8,000 kg of nitric acid disposed (WIDS) _ Less than 8 Ci of beta estimated (12/73)	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination (rads and nitrate) potentially present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Nitrate estimated at 110 mg/kg based on mass of nitric acid (8,000 kg) and volume (74,000 L) of condensate discharged.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Deep soil contamination not expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (small effluent volume)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision. Given proximity to 291-T Sand Filter, it is possible that this unit would be D&D with sand filter.									

216-T-31, 216-T-31 French Drain

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Site formerly part of 200-MG-2, but was not addressed in EE/CA.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is located near the southeast corner of the 241-TX Tank Farm.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Coordinates listed in RHO-CD-673. - Site maps also show the location. - Site is a 3 ft diameter culvert with unknown depth.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Contamination was initially present following steam condensate line rupture. - Contaminated material was reportedly exhumed (RHO-CD-673) and transferred to the 200 West Dry Burial Ground.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Steam condensate line rupture.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Released from radiation zone status in 1962.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No field radiological survey or sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No field radiological survey or sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = No, material removed. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes (material removed to unknown depth). Groundwater impacts = no (small release volume). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

216-T-33, 216-T-33 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-2 EE/CA (DOE/RL-2008-45). - Surface stabilization material added in 1991.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified	X	
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is located west of the 2706-T Building.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site location shown on area maps. - Site is located southwest of the 2706-T Building and west of the 221-T Canyon Building. -Surrounded with metal chain and posted as URM Area.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Two boreholes drilled in Jan and Feb 2005. - Borehole C4738 drilled in crib footprint, C4558 drilled at southwest corner of crib footprint. - Borehole C4558 terminated at 15 ft (refusal), borehole C4738 drilled to 132.5 ft. Samples collected. - Monitor well 299-W11-14 located to north of crib.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Received liquid effluent from 2706-T Building. Crib line plugged shortly after crib was put into service.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination present.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Yes, from samples collected from Borehole C4738.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Horizontal distribution can be approximated by crib footprint, vertical distribution evaluated by Borehole C4738.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes (based on crib plugging). HH - 0 to 15 ft = yes (based on 10.8 ft depth of discharge). Eco - 0 to 10 ft = yes (based on crib plugging). Groundwater impacts = Yes (effluent volume corresponds to 4.3 pore volumes). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Low salt, neutral to basic waste stream.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	- Groundwater monitoring wells 299.W14-1, W14-2 and W14-3 provide coverage for this area. - Pore volume and liquid effluent volume, and sampling from Borehole C4738 indicate deep vadose zone impacts	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information extists to support remedy decision.								

216-T-34, 216-T-34 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- Crib interim stabilized in July 1990. - Capping preliminary identified as preferred alternative in 200-LW-1/LW-2 FS.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site surrounded by chains and posted with URM signs. - Located northwest of 221-T Building. - coordinates listed in ARH-2155, pg B-45	Process Description		Known Coordinates		Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- The site provided subsurface liquid disposal for waste from the 340 Building in the 300 Area and operated from May 1966 to March 1967. - Crib received 1.73 E7 liter (4.57 E6 gallon) of mixed waste, 5.94 kg Uranium, 107 gm of Pu, 157 Ci Cs-137, 178 Ci Sr-90, and 1000 kg nitrate. The waste was rerouted to the 216-T-35 Crib in February 1967. Residual contamination remained near the ground surface at the unloading station.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste	The site provided subsurface liquid disposal for waste from the 340 Building in the 300 Area and operated from May 1966 to March 1967.	Waste Stream Analysis	X					Same Plant		No
		Process Description						Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination present. Groundwater monitoring in nearby wells indicates that site contaminants (e.g., Cs-137 and Sr-90) entered groundwater within the first year of operation.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Detection of low-mobility site contaminants (e.g., Cs-137 and Sr-90) in groundwater at the site indicates full-thickness residual contamination is likely.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no (based on crib depth of 16 ft). HH - 0 to 15 ft = yes (based on some mounding of discharge in crib). Eco - 0 to 10 ft = no (based on crib depth of 16 ft). Groundwater impacts = Yes (effluent volume corresponds to 2.8 pore volumes). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Low salt, neutral to basic waste stream.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	- Monitoring wells 299-W11-16 and W11-15 located along crib's northwest footprint. - Based on volume of effluent and chemical and radionuclide inventory deep vadose zone impacts anticipated. - Future groundwater impacts are uncertain. Historical crib operations affected groundwater as indicated by Cs-137 and Sr-90 occurrence in groundwater.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		Yes
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Site exhibits high uncertainty in potential for future impacts to groundwater. Characterization of this crib would provide comparable information for application to 216-T-35 Crib.									

216-T-35, 216-T-35 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- Surface stabilized in July 1990. - Analogous site; preliminarily assigned to 216- Z-7; 200-LW-1/2 FS in progress; MESC/MNA/IC preliminarily identified as preferred alternative draft FS.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site surrounded by chains and posted with URM signs. - Located west of 221-T Building. - Coordinates listed in Cramer, K.H. (1987) pg 530.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Crib received 5.72 E6 liters of mixed waste, 47.6 kg Uranium, 66.2 g Pu, 11.7 Ci Cs-137, 11.4 Ci Sr-90, 1000 kg Nitrate.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log	X	Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The site provided subsurface liquid disposal for waste from the 340 Building in the 300 Area and operated from March 1967 to Jan 1968.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log	X	Same Site Type	X	
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis. Indirect data available.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	- Scintillation probe profiles indicate that most of the radioactive contaminants are concentrated at the head end of the crib. - Wells 299-W11-17, 299-W11-18, 299-W11-19, 299-W11-20, and 299-W11-21 monitor this unit. - At well 299-W11-18 radioactive contaminants detected between 4.6 meters (15 feet) and 32 meters (105 feet) below the ground surface. - Wells 299-W 11-20 and 299-W 11-21 show minor levels of radiation between 12.2 meters (40 feet) and 32.0 meters (105.et)below ground surface. - Background levels of activity are detected in wells 299-W11-17 and 299-W11-19. - On the basis of the scintillation probe profiles no measurable movement of radionuclides beneath this crib has been detected since discharge terminated. - Radiation intensity has decreased by radionuclide decay. These data indicate breakthrough to the groundwater has not occurred.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report		groundwater monitoring	X	Scintillation Log	X	Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no (based on crib depth of 15 ft). HH - 0 to 15 ft = yes (based on some mounding of discharge in crib). Eco - 0 to 10 ft = no (based on crib depth of 15 ft). Groundwater impacts = No (effluent volume corresponds to 1.2 pore volumes). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding	Low salt, neutral to basic waste stream.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	- Groundwater monitoring wells 299-W11-16 and W11-15 located along cribs northwest footprint. - Based on volume of effluent and chemical and radionuclide inventory deep vadose zone impacts anticipated. - Groundwater impacts may not be significant due to low mass of uranium (metal) discharged.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	

Data Needs Summary		
Data Need?	**N**	This site is similar to 216-T-24. Characterization of the 216-T-34 crib will provide sufficient data and information to support a remedy decision for this crib.

216-T-36 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- Analogous site; assigned to 216-T-26; evaluated in the 200-C W-5/2/4/200-SC-1 FS (DOE/ RL-2004-24); capping identified as the preferred alternative in the FS. - In Nov 200 biobarrier and layer of clean gravel placed over site.	CERCLA EE/CA		Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		no	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Located S of the 241-T Tank Farm and 216-T-7 Crib and Tile Field. - Coordinates listed in Cramer, K.H. (1987). - Location shown on site maps.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Received 522,000 L of liquid effluent containing 2.48 g Pu, 7.7 Curies of Sr-90, 46 Curies of Ru-106, 6.4 Curies of Cs-137 (as of June 1978) and 1.2 Kg of uranium (metal)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Received steam condensate and decontamination waste from the 221-T and 221-U Buildings via the 200-W-79-PL Pipeline, and decontamination waste from 2706-T Building.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log	X	Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis. Indirect data available.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		Yes
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log	X	Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	- Scintillation logs developed for wells 299-W10-2 and 299-W10-4 in 1976 detected no measurable movement of radionuclides beneath the Crib. The data indicate no breakthrough to the groundwater had occurred at the time.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log	X	Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no (based on crib depth of 15 ft). HH - 0 to 15 ft = yes (based on some mounding of discharge in crib). Eco - 0 to 10 ft = no (based on crib depth of 15 ft). Groundwater impacts = No (effluent volume corresponds to 1.2 pore volumes). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log	X	Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Low salt, neutral to basic waste stream.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	- Based on volume of effluent and chemical and radionuclide inventory deep vadose zone impacts anticipated. - Groundwater impacts from Ru-106 may be present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Recommend drilling within the crib to characterize the source area and evaluate vertical extent of contamination. There are no adequately-characterized similar sites available.									

216-T-4-1D, 216-T-4 Ditch, 216-T-4 Swamp

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-2 EE/CA (DOE/RL-2008-45) - The 216-T-4-1 Ditch was backfilled in 1972 and surface stabilized along with the 216-T-4-2 replacement ditch in 1995.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Ditch is not currently visible. - site is located north of 23rd Street, west of the 221-t Building and northwest of the 241-T Tank Farm. - Ditch alignment generally shown on DWG H-2-44511. - Ditch 850 ft long. - Posted as URM area.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Site used from November 1944 to May 1972. - Radionuclide activity measured at 20,000 cpm in bottom of ditch	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	From 1944 to September 1951, the site received process cooling water from the 221-T and 224-T Buildings via the 207-T Retention Basin and steam condensate from 221-T Building. From September 1951 to July 1955, the site received the above listed streams plus condenser cooling water and steam condensate from 242-T Evaporator. From July 1955 to August 1956, the site received the same as November 1944 to September 1951. From August 1956 to June 1957, the site received steam condensate from 221-T. From June 1957 to July 1964, the site was on standby. From July 1964 to December 1965, the site received decontamination waste from 2706-T. From December 1965 to November 1970, the site received the above listed streams plus condenser cooling water from 242-T Building. After November 1970, the site received condenser cooling water from 242-T Building. The total plutonium is 1.41 grams (3.1E-3 pounds) according to Hanford Defense Waste Environmental Impact Statement data.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination expected to be present directly below bottom of ditch.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	Radionuclide activity measured at 20,000 cpm in bottom of ditch	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Residual soil contamination expected to be present directly below bottom of ditch.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes (cover thickness is 1-2 ft). HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = Not Expected. Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Possible due to long period of use, but based on process description, not expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Need?	**N**	Sufficient data and information extists to support remedy decision.								

216-T-8, 222-T-1 & 2 Cribs

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- None identified. - Site interim stabilized in 1991. site also backfilled.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Two cribs are shown on drawing H-2-353. - The site consists of two wood crib boxes, each set into a pit with sloped sides. Each crib pit has 4.3-meter (14-foot) by 4.3-meter (14-foot) bottom dimension, with a 1:1 side slope. The pits are 23 meters (75 feet) apart. The boxes have risers and are connected in series by a pipe. One box overflows into the other. The pits are backfilled. - Site posted URM.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Site received 500,000 L of effluent. - 1000 Kg of sulfuric acid and 1000 kg of nitric acid. - 1.68 Curies of beta (April 1986), 0.413 Curies of Sr-90, 0.436 curies of Cs-137, 4.5 Kg of uranium (metal), 5 gm of Pu, and 10 kg of sodium dichromate.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	From 5/50 to 9/51 the site received the decontamination sink waste and sample slurper waste from the 222-T Building. Site deactivated in 1951.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis. Data needed to evaluate vertical extent of contamination	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Data needed to evaluate vertical extent of contamination	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no (based on crib depth of 17 ft). HH - 0 to 15 ft = yes (based on some mounding of discharge in crib). Eco - 0 to 10 ft = no (based on crib depth of 17 ft). Groundwater impacts = Not expected (effluent volume corresponds to 1.2 pore volumes). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Waste was neutral basic	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	- Based on volume of effluent and chemical and radionuclide inventory deep vadose zone impacts anticipated. - Groundwater impacts may be very limited or absent based on pore volume of 1.2.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Data needed to evaluate vertical extent of contamination									

216-T-9, Decontamination Trenches, Equipment Decontamination Area

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- No. Trench was excavated in May 1972 and material disposed in 200 West Dry Burial Ground. No verification sampling performed. - MG-2 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Grid coordinates described on pg 17 of 21 in HW-43121. - Not marked in field. - Waste site size" 50 ft (L) x 10 ft (W) x 6 ft (D).	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Majority of soil contamination likely removed. Residual contamination may occur beneath excavation footprint. -1950's rad inventory (project library folder) reported 12.1 curies beta activity discharged.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	-Estimated volume discharge is 50,000 gals. - Radionuclide activity in material excavated and disposed was identified at 3,000 cpm (ARH-2757).	Waste Stream Analysis				Radiation Survey	X	Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	-Relatively small effluent volume and removal of excavated material in May 1972 suggests limited (if any) residual soil contamination remains.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Radiation activity reported at 3000 cpm in excavated material removed from trench	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	- No sampling and analysis. - Limited distribution expected due to small volume of effluent received. - Horizontal extent approximated by trench footprint. Vertical extent to be ascertained through sampling and analysis.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes (material removed from 0 to 3 ft). Groundwater impacts = no (small effluent volume). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

216-U-1&2, 361-WR (Crib 2), 216-U-3, 216-UR #1&2 Cribs, 216-U-1 & 2, 216-U-1, 216-U-2

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-1 and U-2 Cribs were evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for selected for this site an engineered barrier.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The site is located adjacent to the 241-U-361 Settling Tank and is overlain by UPR-200-W-19. A remedy for the 216-U-1 and U-2 Cribs will likely impact those sites . The preferred alternative for the 2-16-U-1 and 216-U-2 Cribs was installation of an engineered surface barrier.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The Site is part of a marked URMA that includes the UPR-200-W-19, 241-U-361 Settling Tank, and a portion of the 2607-W-5 Septic Tank and Tile Field.	Process Description	X	Known Coordinates	X	Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The 1995 LFI included installation of three boreholes and collection of 5 surface soil samples. In 2004, Geophysical logging of Surface soil, shallow vadose zone soil, deep vadose zone soil, and groundwater contamination have all been identified at the Site.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The tank received cell drainage from the 5-6 tank in 221-U and waste from the 224-U Building until the Uranium Recovery process operations shut down in 1957. From July 1957 through May 1967, the 216-U-1 and U-2 Cribs received waste	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Liquid discharges from the 2607-W5 Septic Tank and Tile Field and the 216-U-16 Crib may have flushed and mobilized contaminants from the 216-U-1 and U-2 Cribs deeper within the vadose zone and to groundwater.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Maximum detected concentrations of radionuclides include: Am-241: 33 pCi/g Co-60: 10.6 pCi/g Cs-137: 1,700,000 pCi/g Sr-90: 2,400,000 pCi/g U-233/234: 1,400 pCi/g U-238: 10,800 pCi/g	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Affected media include surface soil, subsurface soil and groundwater. Surface soil contamination is associated with UPR-200-W-19. The 1995 LFI identified no significant lateral movement of contaminants in the vadose zone, however, the highest concentrations of contaminants remain in the soil column directly beneath the 216-U-1 and U-2 Cribs. The highest concentrations of contaminants are located directly beneath the cribs between 6m and 12 m (20 ft and 40 ft) bgs. Elevated levels of contamination were also identified at the caliche layer located 52 m (170 ft) below ground surface.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling	X			
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - Yes. Between June 13 and November 26, 1985, a pump and treat remedial action processed 30,000,000 L (8,000,000 gal) of contaminated groundwater to recover 687 kg (1515 lb) of uranium.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts	X	Scintillation Log		Same Site Type		
						Modeling	X			
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None. The waste is low in salt and is neutral to basic.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes. Characterization data confirms deep vadose zone soil impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	No. Previous remedy evalatuion documented in DOE/RL-2003-23. This site is well characterized. Sufficient data and information available to support remedy decision.									

216-U-12, 216-U-12 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-12 Crib was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for selected for this site an engineered barrier.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The crib is located south of 16th Street and west of Beloit Avenue. It is south of the 216-U-8 crib.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews		Surface Geophysical Survey	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Contamination at the 216-U-8 Crib has been identified in surface soil, deep vadose zone soil, and groundwater. The discharge depth of the crib was within the deep vadose zone ranging between 4.9 m (16 ft) and 9.8 m (32 ft) below ground surface. The 216-U-8 Crib surface and adjacent UPR-200-W-163 were interim stabilized in 1994, during which, contaminated soil from the UPR was consolidated onto the surface of the Crib, covered with 0.6 m (2 ft) of clean soil.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The Crib received stack drainage from the 291-U-1 Stack and acidic process condensate from the 221-U and 224-U Buildings. The 216-U-8 Crib reportedly received the largest inventory of waste uranium of any 200 West Area crib.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Contaminated soil from the adjacent unplanned release UPR-200-W-163 was consolidated onto the 216-U-8 Crib surface in 1994.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Maximum detected concentrations of radionuclides include: Cs-137: 16,100 pCi/g at 7 m (23 ft) U-235: 20 pCi/g between 22-24 m (73 – 80 ft) U-238: 500 pCi/g at 23 m (76 ft)	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log	X	Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Affected media include surface soil, deep vadose zone soil and groundwater. The 216-U-12 Crib has been characterized. Characterization includes installation of borehole 299-W-22-78 to a depth of 71 m (233 ft) adjacent to the crib with collection of sediment samples as well as spectral gamma logging of that borehole and existing borehole 299-W22-75 within the 216-U-12 Crib footprint to a depth of 57 m (175 ft). In 2004, an additional 9 direct push boreholes were installed to depths ranging from 15.2 m (50 ft) to 18.3 m (60 ft) bgs, and spectral gamma logging was performed at these locations as well as at two additional existing well locations. Characterization data indicate no significant lateral movement spread of contaminants in the vadose zone. The highest contaminant concentrations are located at the base of the crib. Uranium contours developed from the 2004 characterization effort contours suggest lateral spread is minimal, but that Nitrogen and Tc-99 has migrated slightly west of the Crib boundary. A borehole to groundwater to the groundwater table through the center of the crib has not been installed.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log	X	Same Site Type		
						Modeling	X			
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - Yes	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts	X	Scintillation Log	X	Same Site Type		
						Modeling	X			
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding	The waste included acidic process condensate .	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes. The contaminant inventory, discharge volume, and discharge depth, along with characterization data indicate that deep vadose zone soil has been affected. The 216-U-12 Crib was identified at the suspected source of elevated Tc-99 and nitrate concentrations in groundwater (PNL-14187).	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Previous remedy evaluation documented in DOE/RL-2003-23. Characterization data for this site exists, but additional data in the deep vadose zone in the groundwater needed.									

216-U-13, 216-U-13 Cribs, 216-U-13, Vehicle Steam Cleaning Pit

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No previous remedy evaluations have been performed for this Site.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	This site was located west of the 241-U Tank Farm.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews		Surface Geophysics	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	When the pits were deactivated in 1956, contaminated soil in the bottom of the pits was removed and taken to 200 West Burial Grounds. The steam cleaning equipment was removed in the 1960's and the pits were backfilled. A radiation survey and soil sample collection activities performed in 1982, identified only isolated surface contamination. Based on these cleanup activities, and the 1982 radiological survey which included test holes and trenches, 216-U-13 was found to be free of surface and subsurface radiological contamination. The area was released from radiological control in 1982.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The site received drainage from equipment steam cleaning and decontamination activities done inside the trenches. The pits were used mainly to decontaminate trucks and cranes bearing low levels of radioactive contamination. Several large pumps used in the Uranium Recovery process were also cleaned at the Site. The site waste may include traces of detergent and nitric acid.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Contaminated rabbit droppings were found during a 1981 radiation survey.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	In August 1982, six holes, measuring approximately 1.2 m (4ft) wide and 1.8 m (6 ft) deep, were dug around the perimeter of the trenches and two trenches 9 m (30 ft) long and 4.6 m (15 ft) deep were dug across the two vehicle decontamination pits to determine the subsurface radiological conditions. No contamination was found in the bottoms of the trenches. However, excavations revealed a rubble pile that included two radioactive items; a stainless steel boiler plate reading 800 c/m and a small rock approximately the size of a quarter with readings of 100,000 c/m. A radiation survey taken of the ground surface after the excavated rubble pile and fill material was re-leveled showed no radiation. The rubble pile and fill material were not released from radiological control. A general surface radiation survey was also done in the area.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contamination appears to have been effectively removed from the Site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - No HH: 0-15 ft - No Eco: 0-10 ft - No Groundwater Impacts - No Note: The site was interim stabilized in 1994 with 0.5 to 0.6 m (18 to 24 inches) of clean fill.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		

Data Needs Summary		
Data Need?	**N**	Sufficient data and information extists to support remedy decision.

216-U-14, 216-U-14 Ditch, Laundry Ditch

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-14 Ditch was evaluated as part of the 200-MG-2 OU EE/CA (DOE-RL-2009-45). The preferred remedy identified is removal, treatment, and disposal (RTD). The Action Memorandum for Non-Time Critical Removal Action for 200-MG-2 Operable Unit (DOE/RL-2009-37) recommends that RTD be implemented under a removal action	CERCLA EE/CA	X	Action Memorandum	X	Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The ditch originated west of the 284-W Powerhouse, west of Bridgeport Avenue and extended southward, terminating at the 216-U- 1 Pond.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Several characterization events have been performed at the 216-U-14 Ditch including sediment, soil and vegetation samples.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	It received 284-W Powerhouse waste water, laundry waste water (until 198 1) via 200-W- 102 Pipeline, chemical sewer waste from 22 1 -U, and steam condensate and cooling water from 22 1-U, 24 1 -U- 1 10 condenser tank, 224-U and the 242-S Evaporator. The 22 1-U and 224-U effluent entered the ditch after passing through the 207-U Retention Basin.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	A variety of wastewater releases have occurred over 50 years. Occurrence Report 86-46 states that on August 6, 1986, 2365 L (625 gal) of recovered nitric acid, containing 39 kg (86 lbs) of uranium was discharged though the chemical sewer to the 207-U retention Basin. The acid released to the ditch was greatly diluted with the 1140 L (300 gal) per minute flow of cooling water from the 224-U facility being processed through the chemical sewer system.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	1981 sampling detected Cs-137, Sr-90, U-238, Co-60, Pu-239/240, and contamination levels found in sediment at the head end of the ditch, to a depth of 175 cm (70 in), were above background levels for all radionuclides analyzed. The average concentration for all depths was 76.6 pCi/g cesium- 137, 113.4 pCi/g per gram cobalt-60, 101.6 pCi/g strontium-90, and 89.1 pCi/g plutonium 239/240. Three samples were taken along the 216-U-14 Ditch, B0BKN7 (north of the 207-U Retention Basin), B0BKN8, and B0BKN9 (both taken due west of the 207-U Retention Basin). The soil samples, collected in 1994, to a depth of 15 centimeters (6 inches), showed cesium to a level of 1230 pCi/g, strontium to 32.7 Ci/g, and total uranium to 31.8 ug/kg. Radiological survey showed collected tumbleweeds with 4000 to 10,000 dpm in 1997.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The highest concentrations of cobalt-60 were found in the head end of the ditch. The highest concentration of cesium- 137 was found near where the ditch entered U Pond. Core samples were collected in 1987 to determine the effects of the accidental nitric acid and uranium release that occurred in 1986. A maximum of 185 pCi/g of uranium was found at a depth of 15 to 30 cm (6 to 12 in). Test pits were excavated in the ditch in 1992 to support the Groundwater Impact Assessment for the 216-U-14 Ditch. The test pits were located in the portion of the ditch west of Cooper Ave and east of the 216-U-10 pond. Data indicated the contaminants were concentrated within a few feet of the bottom of the ditch.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected based on characterization data noted above.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Nitric Acid Release. The Hanford Site Waste Management Units Report (1987) reported different release values than the occurrence report referenced above. . It stated approximately 3000 L (796 gal) of 50% reprocessed nitric acid was released to the unit. The total release to the environment consisted of approximately 10 1,250 kg (225,000 lbs) of corrosive solution (pH less than 2.0) and 45.4 kg (100 Lbs) of uranium.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Limited deep vadose zone soil impacts are present based on characterization data as noted above.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	No further data needs are identified to support remedy decision.									

216-U-15, UN-216-W-10, 388-U Tank Dumping, UPR-200-W-125, UN-200-W-158, U-152 Interface Crud Burial

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-15 Trench is evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for this site is removal, treatment, and disposal.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The 216-U-15 Trench is located west of the 271-U Building and north of 16th Street. Hanford Plant coordinates were recorded as N-38270, W-73900. In August 2002, translated GPS coordinates were used to locate the area documented in 1957 as the disposal pit site. No visual signs of the site were noted. Ground Penetrating Radar scans were done of several potential site locations in February 2005. GPR results found no subsurface disturbances, only a linear pipe anomaly, beneath the location identified as the spot documented with Hanford Site coordinates. A large disturbed area was noted west and south of the Hanford Site coordinate location. This large disturbance was determined to be the most likely 216-U-15 Trench location.	Process Description		Known Coordinates	X	Relative to defined landmark	X			Yes. Additional site evaluation to confirm location of this site is required prior to remedial action. Location must be confirmed prior to conducting RTD..
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews		Surface Geophysics	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Based on the discharge inventory and volume, shallow and deep vadose zone contamination is expected at the 216-U-15 Trench.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	Yes. Due to uncertainty of the site location and type of waste discharged, additional characterization data is recommended.
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	216-U-15 Trench was associated with the 388-U Tank and the 276-U Solvent Storage Area, and was used in May of 1957as a liquid disposal site for one time disposal of approximately 26,500 liters (7000 gallons) of liquid waste via an above ground pipeline. After discharge was completed, the trench was backfilled and the piping was removed. The waste consisted of interface crud, activated charcoal, and diatomaceous earth containing approximately 1 curie of fission products.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type	X	

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	The May 1957 monthly report (HW-50584) indicates conflicting information regarding the source and volume of waste discharged to the 216-U-15 Trench. This reference states that 79,494 liters (21,000 gallons) of organic solution (RAX) was originally scheduled to be transferred to the PUREX plant, but was buried because it was found to be incompatible with the PUREX process.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Exploratory core samples taken in 1970 at the historical coordinates did not detect any radioactivity (RHO-CD-673). No other analytical sampling of geophysical borehole logging has been identified for this site. DOE RL/2003-23 grouped the 216-U-15 Trench in an analogous site group with the 216-U-12 Crib, however, the 216-U-15 Trench is expected to have far lower contaminant concentrations based on contaminant inventory and effluent discharge volume.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		Yes. Due to uncertainty of the site location and type of waste discharged, additional characterization data is recommended.
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The 216-U-15 Trench was constructed to a depth of approximately 4.6 m (15 ft) below the original ground surface with a length and width of 6.1 m (20 ft) on each side. Based on this discharge depth, deep vadose zone contamination is expected, with the highest levels of contamination expected to occur directly beneath the discharge depth. The effluent discharge volume is estimated to be less than the calculated soil pore volume. DOE/RL 2003-23 concluded that groundwater impacts from the 216-U-15 Trench are not likely. Based on characterization data from other crib sites (e.g. 216-U-8 and 216-U-12) minimal lateral spreading is anticipated within the vadose zone.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes. Due to uncertainty of the site location and type of waste discharged, additional characterization data is recommended.
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Not likely (based on discharge depth) HH: 0-15 ft - Likely (based on discharge depth) Eco: 0-10 ft - No (based on discharge depth) Groundwater Impacts - No (based on discharge volume)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Waste discharged contained tributyl phosphate and normal paraphin hydrocarbons.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Based on the discharge depth, volume, and contaminant inventory, deep vadose zone impacts are anticipated at the 216-U-6 Trench. The analysis conducted in DOE/RL-2003-23 concluded that the 216-U-15 Trench has not impacted groundwater.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	Yes. Due to uncertainty of the site location and type of waste discharged, additional characterization data is recommended.
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										

Data Need Category	Comments	Process Knowledge?	Direct Data?	Indirect Data?	Extrapolation from Similar Site?	Data Need
Data Need? Y	Previous remedy evaluation is documented in DOE/RL-2003-23 and DOE/RL-2003-24 as RTD. However, site location is not confirmed, and geophysical survey suggests another location. Due to uncertainty of the site location and type of waste discharged, additional characterization data is recommended at the location suggested by the geophysical survey. Additional characterization effort has been proposed under the U Plant Proximal Waste Sites Sampling and Analysis Plan associated with the U Plant Canyon Barrier.					

216-U-16, UO3 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-16 Crib was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for selected for this site is to maintain the existing soil cover, with institutional controls and monitored natural attenuation.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The crib is located south of 16th Street, between Beloit and Cooper Avenues, southwest of the 224-U Building.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews		Surface Geophysical Survey	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Borehole 299-W19-95 located at the edge of the crib detected very minimal contamination at shallow depth. Due to the dilute nature of the waste discharged, low levels of contamination are expected at this crib. Historical monitoring of the 216-U-16 Crib monitoring wells indicate that radiological monitoring in groundwater was being conducted and that radiological contaminants were detected in groundwater. Surface radiological survey conducted in 1995 did not detect any contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The 216-U-16 Crib received UO3 laboratory process condensate, 271-U compressor cooling water, 221-U chemical sewer waste, and 224-U process condensate, steam condensate and chemical sewer waste. The effluent discharged to the crib was a dilute uranium bearing process stream.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	In 1985 high flow rates of liquid discharged caused a pooling above a caliche layer located 50 m (165 ft) below the Crib. The effluent moved laterally, northward to the 216-U-1 and 216-U-2 Cribs and flushed uranium from those Cribs into the groundwater	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	In 1995, a characterization borehole, 299-W19-95, was drilled, sampled and gamma logged to determine the lateral extent of Uranium contamination along the caliche layer between the 216-U-16 and 216-U-1&2 Cribs. Borehole 299-W19-95 was advanced to 55.5 m (182 ft) bgs. Field screening results and total activity analysis of archive samples indicate radiological contamination was below detectable levels for the borehole, with the exception of Cs-137 detected at a concentration of 10 pCi/g occurring from 0 to 1.2 m (0 to 4 ft).	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The 216-U-16 crib was constructed to a depth of 5.2 m (17 ft) below ground surface, with the discharge pipe located 4.3 m (14 ft) below ground surface. The discharge depth is located near the defined boundary between shallow and deep vadose zone soil.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - Yes	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts	X	Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Results of characterization at borehole 299-W19-95 do not suggest significant impact to deep vadose zone soils or lateral spreading.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Previous remedy evaluation documented in DOE/RL-2003-23. This site is characterized and was included as an analogous site to the 216-U-12 Crib.									

216-U-17, 216-U-17 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-17 Crib was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for selected for this site is to maintain the existing soil cover, with institutional controls and monitored natural attenuation.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The crib is located south of 16th Street and east of Beloit Ave. inside the 200 West Area. It is southeast of the 221-U facility.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews		Surface Geophysical Survey	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Based on the high liquid discharge volume and limited contaminant inventory, some deep vadose contamination is anticipated, however, geophysical logging of numerous boreholes have not detected man made radionuclides.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process	X	
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The crib received effluent from the 224-U building process condensate from the conversion of urynal nitrate hexahydrate (UNH) to Uranium Tri-oxide (UO3) through the calcining operations. Effluent flow was evenly distributed over the entire unit from the distribution line lying in an aggregate field with a PVC vapor barrier.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	DOE/RL-2003/23 reports spectral gamma logging of 6 boreholes was conducted in 1993 (before process discharge was completed) and no man-made radionuclides were detected beneath the crib. In 2004, Spectral gamma logging of Borehole 299-W19-89 (located though the center of the crib) to a depth of 49 m (160 ft) did not detect presence of man made radionuclides.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The 216-U-17 Crib was constructed to a total depth of 5.5 m (18 ft) below ground surface. A 1997 radiation survey did not identify any contamination at the surface of the crib. In 1993, prior to completion of discharge to the crib, WHC-EP-0664 reported that no significant additional impacts on groundwater quality were expected due to the continued use of the 216-U-17 Crib through 1995, and that the primary impact of effluent disposal would be localized contamination within approximately the upper 30 m of the soil column beneath the 216-U-17 Crib. This source noted that groundwater beneath the 216-U-17 Crib had already been significantly contaminated by upgradient operations, and that modeling predicted that migration of 216-U-17 contaminants to groundwater could be minimized by a surface barrier. Spectral gamma logging of multiple boreholes, including borehole 299-W19-89 through the center of the crib have not detected man-made radionuclides.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - No HH: 0-15 ft - No Eco: 0-10 ft - No Groundwater Impacts - Potential impacts not likely per WHC-EP-0664.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts	X	Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Spectral gamma logging has not detected man-made radionuclides within the deep vadose zone.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Previous remedy evaluation documented in DOE/RL-2003-23. This site is characterized and was included as an analogous site to the 216-U-12 Crib.								

216-U-3, 216-U-11, 216-U-3 French Drain

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-3 French Drain was evaluated as part of the 200-MG-2 OU EE/CA (DOE-RL-2009-45). The preferred remedy identified in is Confirmation Sampling/No Further Action. The Action Memorandum for Non-Time Critical Removal Action for 200-MG-2 Operable Unit (DOE/RL-2009-37) recommends that CS/NFA be implemented under a removal action.	CERCLA EE/CA	X	Action Memorandum	X	Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	This site is located south of the 241-U Tank Farm on the south side of 16th Street and consists of a French drain with light steel posts and chain with URM signs.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	No radiological contaminants are associated with this Site. Nonradiological constituents include Mercury and Selenium.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	216-U-3 received condensate from the steam condensers on the 24 1-U- 104 and 24 1-U- I 10 tanks. The 241 -U- 104 and 24 1-U- I 10 tanks held REDOX boiling waste. The site waste contains nitrate.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	In December 2004, a characterization borehole (C4559) was drilled near the edge of the French drain. Geophysical logging was performed using a Spectral Gamma Logging System for borehole C4559 on December 20, 2004. The only man-made radionuclide detected was Cs-137 at 0.3 m (1 ft) bgs, at a concentration of 1 pCi/g. Soil samples collected in borehole C4459 during drilling were found to have the following contaminants exceeding background concentrations: Mercury at 3.8 m to 4.6 m (12.5 ft to 15 ft), 5.3 m to 6.1 m (17.5 ft to 20 ft) and 14.3 m to 15.1 m (47 ft to 49.5 ft); Selenium at 3.8 m to 4.6 m (12.5 ft to 15 ft); Chromium at 10.7 m to 11.4 m (35 ft to 37.5 ft); Silver at 14.3 m to 15.1 m (47 ft to 49.5 ft) and 38.7 m to 39.5 m (127 ft to 129.5 ft).	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No.
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Site consists of a 12 ft deep excavation 6 ft in diameter with 1:1 side slopes. Discharge pipe entered the site at approximately 7 ft bgs. In December 2004, a characterization borehole C4559 was drilled to a total depth of 39.5 m (129.5 ft) below ground surface (bgs). Hanford Environmental Information System (HEIS) samples B19938 through B19972 were analyzed for radionuclides, metals, inorganic chemicals and organic chemicals. Borehole C4559 was not to be drilled to groundwater depth and groundwater was not encountered during drilling. Though concentrations of Mercury, Selenium and Chromium were identified above background, the detected concentrations are relatively low (DOE/RL-2009-45, Rev. 0 pg. 5-21). Approximately 15 pore volumes were discharged to the site.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - No HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected based on borehole characterization data.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Limited deep vadose zone soil impacts are present based on characterization data as noted above. Approximately 15 pore volumes were discharged to the site.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log		Same Site Type		

Data Needs Summary

Data Need?	**N**	Sufficient data and information extists to support remedy decision.

216-U-4, 222-U Dry Well, 222-U-110 Dry Well, 216-U-2, 216-U-4 Dry Well

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-4 Reverse well was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy identified in DOE/RL-2003-24 is to maintain the existing soil cover, with institutional controls and monitored natural attenuation until the U Plant Canyon barrier is installed over the Site.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	216-U-4 is located within the proposed footprint of the U Plant Canyon barrier.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	This site is located at the southwest corner of the 222-U Building.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Characterization data collected for the 1995 Limited Field Investigation identified deep vadose zone soil contamination associated with the 216-U-4 Reverse Well.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The site received acidic decontamination waste containing fission products from the 222-U Laboratory hood sinks. RHO-CD-673 states that both plutonium and fission products were discharged to the site from laboratory hoods and sinks. The site waste contains nitrate.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Visual and radiological surveys are performed at this site. In 1994, a characterization borehole (299-W19-98) was drilled between the 216-U-4 Reverse Well and 216-U-4A French Drain. Maximum detected concentrations include: Am-241: 190 pCi/g Cs-137: 1,980 pCi/g Np-237: 0.85 pCi/g Eu-152: 0.6 pCi/g U-234: 5.8pCi/g U-238: 7.8pCi/g	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminants are distributed from the top of the discharge interval at 17 m (55 ft) to the water table with little lateral spreading anticipated. Concentrations of less mobile constituents (e.g. Cs-137) decrease to near background levels within 6m (20 ft) of the bottom of the reverse well at 23 m (75 ft). More mobile contaminants (e.g. nitrate) are found at low concentrations to the water table. Shallow vadose zone contamination at this Site is likely associated with the 216-U-4A French Drain located directly adjacent.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling	X			
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - No HH: 0-15 ft - No Eco: 0-10 ft - No Groundwater Impacts - None expected based on modeling reported in DOE/RL-2003-23. No contaminants associated with the 216-U-4 Reverse well exceed groundwater within 1,000 years.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling	X			
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Deep vadose zone soil impacts are present based on characterization data as noted above.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log	X	Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need?	**N**	Previous remedy evaluation documented in DOE/RL-2003-23 and DOE/RL-2003.-24. Site is sufficiently characterized to support decision making and remedy implementation.								

216-U-4A, 216-U-4 Reverse Well Replacement French Drain, 216-U-4 Dry Well

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-4A French Drain was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy identified in DOE/RL-2003-24 is to maintain the existing soil cover, with institutional controls and monitored natural attenuation until the U Plant Canyon barrier is installed over the Site.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	216-U-4A French Drain is located within the proposed footprint of the U Plant Canyon barrier.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	This site is located at the southwest corner of the 222-U Building.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Characterization data collected for the 1995 Limited Field Investigation identified shallow vadose zone soil contamination associated with the 216-U-4A French Drain.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The 216-U-4A French Drain received acidic decontamination waste containing fission products from hood sinks in the 222-U Facility. Waste flowed to the 216-U-4A French Drain via an overflow line from the 216-U-4 Reverse Well.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	A surface radiation survey was conducted at the borehole location, in 1993, prior to drilling 299-W19-98. Results showed readings ranging from a low of 100 dpm alpha to a high of 15,000 dpm beta. The source of the contamination is not documented.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Visual and radiological surveys are performed at this site. In 1994, a characterization borehole (299-W19-98) was drilled between the 216-U-4A French Drain and 216-U-4 Reverse Well. Two distinct zones of contamination are present each corresponding with the discharge depth of the French drain and Reverse Well. Maximum detected concentrations in the shallower zone of contamination from 1.4 m (4.5 ft) to 5 m (16 ft) associated with the French Drain include: Am-241: 200 pCi/g Cs-137: 420 pCi/g	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminants associated with the 216-U-4A French Drain are primarily distributed from 1.4 m (4.5 ft) to 5 m (16 ft). Concentrations of less mobile constituents (e.g. Cs-137) decrease to near background levels within 6m (20 ft) of the bottom of the French drain. More mobile contaminants (e.g. nitrate) are found at low concentrations to the water table. Deep vadose zone contamination in this vicinity is likely associated with the 216-U-4 Reverse Well located directly adjacent.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling	X			
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected based on modeling reported in DOE/RL-2003-23. No contaminants associated with the 216-U-4A French Drain exceed groundwater within 1,000 years.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey	X	Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling	X			
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Deep vadose zone soil impacts are present based on characterization data as noted above.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log		Same Site Type	X	

Data Needs Summary		
Data Need?	**N**	Previous remedy evaluation documented in DOE/RL-2003-23 and DOE/RL-2003.-24. Site is sufficiently characterized to support remedy decision.

216-U-4B, 216-U-4B Dry Well, 216-U-4B French Drain

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-4B French Drain was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy identified in DOE/RL-2003-24 is removal, treatment, and disposal.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The 216-U-4B French Drain is located 9.1 m (30 ft) south of the 222-U Laboratory. The French Drain is located beneath a cement pad, surrounded with chains, and posted as Underground Radioactive Material. A surface geophysical survey of the location was performed in 2003.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Based on the contaminant inventory and reported discharge volume, and discharge depth, both shallow and deep vadose zone soil contamination is expected, though no direct characterization data has been identified.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The 216-U-4B French Drain is a Washington-registered injection well that operated from January 1960 to July 1970 and received low salt, neutral/basic 222-U Laboratory hot cell and hood wastes. From January 1960 to July 1970 the site received waste from a hot cell and hood in the 222-U Building. From January 1965 to July 1970, the site received waste from hoods and hot cells in 222-U from Pacific Northwest Laboratory work.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	None. The contamination range for the 216-U-4B French drain is anticipated to be less than that observed at the 216-U-4A French Drain. The 216-U-4B French Drain received an order of magnitude less Pu, Sr-90, and Nitrate compared to the 216-U-4A French Drain. The contaminant inventory for the relatively immobile Cs-137 was comparable for both French Drains. The effluent volume at the 216-U-4B French Drain was also an order of magnitude less than that discharged to 216-U-4A.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminants associated with the 216-U-4B French Drain are expected primarily distributed from the discharge depth of 3 m (10 ft) to 9.1 m (30 ft) based on the contaminant distribution noted at 216-U-4A French Drain. Low levels of more mobile contaminants (e.g. nitrate) are expected deeper within the vadose zone. Based on the discharge volume, contaminant inventory, and groundwater modeling performed for DOE/RL-2003-23 for the 216-U-4A French Drain, it is unlikely that contaminants from 216-U-4B have reached groundwater at significant concentrations.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - No HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected based on modeling reported in DOE/RL-2003-23 for the 216-U-4A French Drain which had an order of magnitude lower effluent discharge volume and contaminant inventory. Contaminants associated with the 216-U-4A French Drain are not expected to cause an exceedance of groundwater standards within 1,000 years.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling	X			
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Minimal deep vadose zone soil impacts anticipated based on contaminant inventory and effluent discharge volume.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need?	**N**	Previous remedy evaluation documented in DOE/RL-2003-23 and DOE/RL-2003.-24. Sufficient data and information extists to support remedy decision.								

216-U-5, 216-U-4, 221-U Cold U Trench #2

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-5 Trench is evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for this site is removal, treatment, and disposal.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The site is located northwest of the 221-U building. GPS and surface geophysical surveys have been performed to identify and document the Site location.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews		Surface Geophysics	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Based on the discharge inventory and volume, shallow and deep vadose zone contamination is expected at the 216-U-5 Trench. An annual radiation survey in 1998 identified specs of surface radiological contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	216-U-5 Trench was used as a liquid disposal site for unirradiated uranium waste from the cold start-up run at 221-U Facility in March 1952. This waste included 200 kg of nitrate. The site was deactivated when the start up waste disposal operation was completed. The above ground piping was removed and the trench was backfilled.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Annual radiation surveys are conducted at the 216-U-5 Trench. No analytical sampling of geophysical borehole logging has been identified for this site. DOE RL/2003-23 grouped the 216-U-5 Trench in an analogous site group with the 216-U-12 Crib, however, the 216-U-5 Trench is expected to have far lower contaminant concentrations based on contaminant inventory and effluent discharge volume.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The 216-U-5 trench was constructed to a depth of approximately 3 m (10 ft) below the original ground surface. Based on this discharge depth, the highest levels of contamination are expected to occur directly beneath the discharge depth. Based on the effluent discharge volume being slightly greater than the calculated soil pore volume, deep vadose zone contamination is expected, however, DOE/RL 2003-23 concluded that groundwater impacts from the 216-U-5 Trench are not likely. Based on characterization data from other crib sites (e.g. 216-U-8 and 216-U-12) minimal lateral spreading is anticipated within the vadose zone. Although the discharge depth of the 216-U-5 Trench was 3 m (10 ft) below ground surface, a 1998 annual radiation survey found specs of contamination, believed to have come from vegetation root uptake from contaminated subsurface soils.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - No Note: The site was interim stabilized in 1994 with 0.6 meters (2 feet) of clean fill.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Based on the discharge depth, volume, and contaminant inventory, deep vadose zone impacts are anticipated at the 216-U-5 Trench. The analysis conducted in DOE/RL-2003-23 concluded that the 216-U-5 Trench has not impacted groundwater.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need?	**N**	Previous remedy evaluation documented in DOE/RL-2003-23 and DOE/RL-2003.-24. Sufficient data and information extists to support remedy decision.								

216-U-6, U Facility Unirradiated Uranium Waste Trench, 221-U Cold U Trench, 216-U Cold U Trench #1, 216-U-5, 221-U Cold U Grave #1

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-6 Trench is evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for this site is removal, treatment, and disposal.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The 216-U-6 Trench is located west of Beloit Avenue and north of 221-U Building, adjacent to the 241-WR vault. GPS and surface geophysical surveys have been performed to identify and document the Site location.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews		Surface Geophysics	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Based on the discharge inventory and volume, shallow and deep vadose zone contamination is expected at the 216-U-6 Trench.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	216-U-6 Trench was used as a liquid disposal site for unirradiated uranium waste from the cold start-up run at 221-U Facility in March 1952. This waste included 200 kg of nitrate. The site was deactivated when the start up waste disposal operation was completed. The above ground piping was removed and the trench was backfilled.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Annual radiation surveys are conducted at the 216-U-6 Trench. No analytical sampling of geophysical borehole logging has been identified for this site. DOE RL/2003-23 grouped the 216-U-6 Trench in an analogous site group with the 216-U-12 Crib, however, the 216-U-6 Trench is expected to have far lower contaminant concentrations based on contaminant inventory and effluent discharge volume.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The 216-U-6 trench was constructed to a depth of approximately 3 m (10 ft) below the original ground surface. Based on this discharge depth, the highest levels of contamination are expected to occur directly beneath the discharge depth. Based on the effluent discharge volume being slightly greater than the calculated soil pore volume, deep vadose zone contamination is expected, however, DOE/RL 2003-23 concluded that groundwater impacts from the 216-U-6 Trench are not likely. Based on characterization data from other crib sites (e.g. 216-U-8 and 216-U-12) minimal lateral spreading is anticipated within the vadose zone.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - No (based on discharge depth) HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - No Note: The site was interim stabilized in 1994 with 0.5 to 0.6 m (18 to 24 inches) of clean fill.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Based on the discharge depth, volume, and contaminant inventory, deep vadose zone impacts are anticipated at the 216-U-6 Trench. The analysis conducted in DOE/RL-2003-23 concluded that the 216-U-6 Trench has not impacted groundwater.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need?	**N**	Previous remedy evaluation documented in DOE/RL-2003-23 and DOE/RL-2003.-24. Sufficient data and information extists to support remedy decision.								

216-U-7, 221-U Counting Box French Drain, 221-U Vessel Vent Blower Pit French Drain

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	This waste site was initially considered as part of the former 200-MG-2 OU, but was excluded from the MG-2 EE/CA based on its apparent depth of release (i.e., greater than 4.7 m [15 ft]). Preliminary considerations identified this site as a candidate for confirmatory sampling/no further action. Similar nearby sites were evaluated under the 200-UW-1 Focused Feasibility Study (DOE/RL-2003-23); this study suggests that a surfaced barrier would be appropriate for this site.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		Yes
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The planned final engineered barrier for 221-U Building will cover this waste site beneath the effective portion of the barrier.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	x	Record of Decision (interim or final)	x			Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	x	
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The site location is confirmed adjacent to the east side of 221-U Building.	Process Description	x	Known Coordinates	x	Relative to defined landmark	x			No
		Site description	x	Air Photo						
		Engineering Drawings	x	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Process description suggests that this site may have received acidic process condensate waste from 221-U and 224-U Buildings, containing nitric acid, uranium, mixed fission products including Cs-137 and Sr-90, and tributyl phosphate. The drain would have received some volume of waste during maintenance of the counting box equipment. A previous report of release of UNH solution (UPR-200-W-138) at this location appears to be in error	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	x	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is acidic process condensate from 221-U and 224-U Buildings. No volume estimate is available, but is believed to be small with intermittent releases during maintenance.	Waste Stream Analysis						Same Plant		No
		Process Description	x					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Secondary source would consist of contaminated vadose zone soil beneath the French drain.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?	x	Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No information regarding the range of concentration is available.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No information regarding the distribution of contamination is available.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	The release occurred at a depth greater than 4.7 m (15 ft) bgs, so surface exposures are not of concern. Remaining scenarios are applicable if substantial inventory of mobile contaminants is present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	x	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	The waste stream was strongly acidic.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	The release occurred at a depth greater than 4.7 m (15 ft) bgs. The nature and extent of residual contamination are not defined.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	x	Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Insufficient data are available to confirm contamination and describe residual contamination conditions at this waste site, however, the expected volume of release is small, but undefined. The waste site is located adjacent to 221-U Building, which will be placed beneath an engineered surface barrier. 216-U-7 French drain will be beneath the effective portion of that barrier. Extrapolation of the feasibility study analysis for nearby French drains (i.e., 216-U-4, 216-U-4A, and 216-U-4B) suggests that a surface barrier would be appropriate for this site.									

216-U-8, 216-WR-1,2,3 Cribs, 216-U-9

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-U-8 Crib was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy selected for this site an engineered barrier.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan (DOE-	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The 216-U-8 Crib is located in close proximity to the 200-W-42 Pipeline and unplanned release UPR-200-W-163. Remedies at these sites will need to be coordinated.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	216-U-8 is a Crib located S of the 221-U Building.	Process Description	X	Known Coordinates	X	Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Contamination at the 216-U-8 Crib has been identified in surface soil, deep vadose zone soil, and groundwater. The discharge depth of the crib was within the deep vadose zone ranging between 4.9 m (16 ft) and 9.8 m (32 ft) below ground surface. The 216-U-8 Crib surface and adjacent UPR-200-W-163 were interim stabilized in 1994, during which, contaminated soil from the UPR was consolidated onto the surface of the Crib, covered with 0.6 m (2 ft) of clean soil.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The Crib received stack drainage from the 291-U-1 Stack and acidic process condensate from the 221-U and 224-U Buildings. The 216-U-8 Crib reportedly received the largest inventory of waste uranium of any 200 West Area crib.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Contaminated soil from the adjacent unplanned release UPR-200-W-163 was consolidated onto the 216-U-8 Crib surface in 1994.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Maximum detected concentrations of radionuclides include: Cs-137: 1,700 pCi/g Sr-90: 520 pCi/g U-233/234: 140 pCi/g U-238: 150 pCi/g	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log	X	Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Affected media include surface soil, deep vadose zone soil and groundwater. The 216-U-8 Crib is well characterized. Characterization includes installation of borehole 299-W-19-94 through the center of the crib with collection of sediment samples as well as spectral gamma logging of that borehole and three existing boreholes within the vicinity of the 216-U-8 Crib. The maximum depth of these characterization activities was 61 m (199 ft) at 299-W-19-94. In 2004, an additional 13 direct push boreholes were installed to depths ranging from 15.2 m (50 ft) to 18.3 m (60 ft) bgs, and spectral gamma logging was performed at these locations as well as at two additional existing well locations. Characterization data indicate no significant lateral movement spread of contaminants in the vadose zone. The highest contaminant concentrations are located at the base of the crib at 9 m and 13 m (31 ft and 42 ft) bgs with concentrations of less mobile contaminants (e.g. Cs-137) decreasing rapidly with depth to approximately 30 m (100 ft) bgs. Elevated levels of moderately mobile contaminants (Sr-90 and uranium isotopes) were also detected at a caliche layer at 57 m (188 ft) bgs.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		Yes
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log	X	Same Site Type		
						Modeling	X			
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - Yes	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts	X	Scintillation Log	X	Same Site Type		
						Modeling	X			
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	The waste is acidic process condensate which may have mobilized Sr-90 and uranium.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes. The contaminant inventory, discharge volume, and discharge depth, along with characterization data indicate that deep vadose zone soil has been affected.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		Yes
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Previous remedy evaluation documented in DOE/RL-2003-23. Characterization data for this site exists, but additional data in the deep vadose zone in the groundwater needed.									

216-Z-16 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No previous remedy evaluation of this waste site. This site was scheduled for characterization under the Supplemental Remedial Investigation Work Plan and SAP (DOE/RL-2007-02). The characterization has not yet been implemented. This site was previously assigned to 200-LW-2 OU.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No nearby remedies are planned.	CERCLA EE/CA		Action Memorandum				Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The site location is known, north of 231-Z Building.	Process Description	x	Known Coordinates	x	Relative to defined landmark	x			No
		Site description	x	Air Photo	x					
		Engineering Drawings	x	LIDAR	x					
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Process history indicates the potential for residual vadose zone contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	x	Groundwater Impacts	x	Scintillation Log	x	Same Site Type		
		Deep (>15 ft bgs)?	x	Spectral Gamma Log	x	Shallow (<15 ft bgs)?	x			
				Shallow (<15 ft bgs)?	x	Deep (>15 ft bgs)?	x			
				Deep (>15 ft bgs)?	x					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The primary source discharged to this site was radiologically-contaminated waste water generated in 231-Z Building during plutonium metallurgy and associated R&D operations from 1967 to 1977.	Waste Stream Analysis						Same Plant		No
		Process Description	x					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	The vadose zone soil beneath the crib is expected to be contaminated; historical observations of groundwater contamination in adjacent wells suggests that the vadose zone is contaminated across the full thickness. The potential for continuing contribution to groundwater contamination is not quantified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	x	Groundwater Impacts	x	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	x	Scintillation Log	x	Same Site Type		
				Shallow (<15 ft bgs)?	x	Shallow (<15 ft bgs)?	x			
				Deep (>15 ft bgs)?	x	Deep (>15 ft bgs)?	x			
Concentration Range Defined? (i.e., apparent maximum and minimum)	The range of contaminant concentration in the vadose zone is not defined; no data exist.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	x	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	There are no data to support evaluation of contaminant distribution in the vadose zone.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes
		Process Description	x	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	The standard hypothetical receptors and exposure scenarios are applicable to this site. There is a potential for continuing groundwater contribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Spectral Gamma Logs	x	Radiation Survey	x	Same Process		
		Incident Report		Groundwater Impacts	x	Scintillation Log	x	Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	There are no reported unusual geochemical characteristics of the waste stream discharged to this site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Observed groundwater conditions indicated the potential for deep vadose zone impacts at this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	No characterization of this site has been performed. No contaminant release is identified. This site received 102,000,000 L of process waste from the 231-Z Building between 1967 and 1977. The estimated vadose zone pore volume for this site is 55 m x 3 m x 70m x 0.3 = m3 x 1000 L/m3 = 3,465,000L. Waste volume discharged to this crib was 102,000,000 L / 3,465,000 L = 29 vadose zone pore volumes. Full thickness vadose zone characterization is needed for this crib to assess the residual contamination and potential for groundwater impacts.									

216-Z-17, 216-Z-17 Ditch

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No previous evaluation of this waste site. This site was previously assigned to OU 200-LW-2. This waste site is analogous to 216-Z-16 Crib.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby facilities and waste sites in vicinity of PFP could affect this site. No other remedial actions are currently planned in the vicinity.	CERCLA EE/CA		Action Memorandum				Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The site location is confirmed, east of 231-Z Building.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo	X					
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Contamination is confirmed by process knowledge.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The primary source discharged to this site was radiologically-contaminated waste water generated in 231-Z Building during plutonium metallurgy and associated R&D operations from 1967 to 1968.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	The vadose zone soil beneath the crib is expected to be contaminated; historical observations of groundwater contamination in adjacent wells suggests that the vadose zone is contaminated across the full thickness. The potential for continuing contribution to groundwater contamination is not quantified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	The range of contaminant concentration in the vadose zone is not defined; no data exist.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	There are no data to support evaluation of contaminant distribution in the vadose zone.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	The standard hypothetical receptors and exposure scenarios are applicable to this site. There is a potential for continuing groundwater contribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	There are no reported unusual geochemical characteristics of the waste stream discharged to this site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Observed groundwater conditions at 216-Z-16 indicated the potential for deep vadose zone impacts at this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	No characterization of this site has been performed. Additional characterization of similar site 216-Z-16 will provide sufficient data and information to support remedy decision.									

216-Z-4, 231-W-3 Pit, 231-W-3 Sump, 231-W-3 Crib, 216-Z-3, 216-Z-4 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	This waste site was previously assigned to the 200-LW-2 OU. No previous remedy evaluation was done for this waste site.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No nearby remedies are planned in the vicinity of this waste site . Remedies applied to other waste sites in the near vicinity would affect this waste site.	CERCLA EE/CA		Action Memorandum				Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Location is documented east of 231-Z Building.	Process Description	x	Known Coordinates	x	Relative to defined landmark	x			No
		Site description	x	Air Photo	x					
		Engineering Drawings	x	LIDAR	x					
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Process description information indicates that this waste site is contaminated with plutonium-bearing solutions generated by plutonium isolation processes conducted in 231-Z Building.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	x	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	x	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The primary source of contamination was 11,000 liters of high-solids, acidic liquid waste generated by plutonium isolation processes in 231-Z Bldg. The acidic waste was neutralized in the 231-W-151 sump tank prior to discharge to the crib. The waste contained plutonium	Waste Stream Analysis						Same Plant		No
		Process Description	x					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Contaminated vadose zone soil provides a secondary source at this site. The subsurface contamination has not been measured and the small discharge volume indicates that the residual contamination would be relatively shallow.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No characterization has been performed at this site to describe vadose contamination. The site was previously assumed to be analogous to 216-Z-7 Crib.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	x	No
		Process Description	x	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	x	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No characterization has been performed at this site to describe vadose contamination. The site was previously assumed to be analogous to 216-Z-7 Crib.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	x	No
		Process Description	x	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	x	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is not a likely concern at this site due to the relatively small, short-term discharge.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	No unusual geochemical issues are associated with this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site does exhibit deep vadose impacts (e.g., >4.6 m [>15 ft] bgs).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	x	No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	x	Spectral Gamma Log		Scintillation Log		Same Site Type	x	
Data Needs Summary										
Data Need? **N**	No characterization of this site has been performed. Additional characterization of similar site 216-Z-7 will provide sufficient data and information to support remedy decision.									

216-Z-6, 231-W-4 Crib, 231-Z-6, 216-W-4, 231-W Crib, 216-Z-4, 216-Z-6 & 6A Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	This waste site was previously assigned to the 200-LW-2 OU. No previous remedy evaluation was done for this waste site. The waste site was identified as analogous to 216-Z-7 Crib.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No nearby remedies are planned in the vicinity of this waste site . Remedies applied to other waste sites in the near vicinity would affect this waste site.	CERCLA EE/CA		Action Memorandum				Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Location is documented east of 231-Z Building.	Process Description	x	Known Coordinates	x	Relative to defined landmark	x			No
		Site description	x	Air Photo	x					
		Engineering Drawings	x	LIDAR	x					
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Process description information indicates that this waste site is contaminated with plutonium-bearing solutions generated by plutonium isolation processes conducted in 231-Z Building.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	x	No
		Process Description	x	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	x	Groundwater Impacts		Scintillation Log		Same Site Type	x	
		Deep (>15 ft bgs)?	x	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The primary source of contamination was 98,000 liters of high-solids, acidic liquid waste generated by plutonium isolation processes in 231-Z Bldg. The acidic waste was neutralized in the 231-W-151 sump tank prior to discharge to the crib. The waste contained plutonium	Waste Stream Analysis						Same Plant	x	No
		Process Description	x					Same Process		
		Incident Report						Same Site Type	x	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Contaminated vadose zone soil provides a secondary source at this site. The subsurface contamination has not been measured and the small discharge volume indicates that the residual contamination would be relatively shallow.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	x	Yes
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	x	
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No characterization has been performed at this site to describe vadose contamination. The site was previously assumed to be analogous to 216-Z-7 Crib.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	x	Yes
		Process Description	x	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	x	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No characterization has been performed at this site to describe vadose contamination. The site was previously assumed to be analogous to 216-Z-7 Crib.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	x	Yes
		Process Description	x	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	x	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is not a likely concern at this site due to the relatively small, short-term discharge.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	x	No
		Process Description	x	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	x	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	No unusual geochemical issues are associated with this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	x	No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	x	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site is expected to exhibit deep vadose impacts (e.g., >4.6 m [>15 ft] bgs).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	x	No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	x	
Data Needs Summary										
Data Need? Y/N	No characterization of this site has been performed. Additional characterization of similar site 216-Z-7 will provide sufficient data and information to support remedy decision.									

216-Z-7, 231-W Crib, 231-W Trench, 216-Z-6

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	This waste site was previously assigned to the 200-LW-2 OU. No previous remedy evaluation was done for this waste site, however this site was selected as the representative waste site for characterization of the waste sites in the former 200-LW-2 OU.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No nearby remedies are planned in the vicinity of this waste site . Remedies applied to other waste sites in the near vicinity would affect this waste site.	CERCLA EE/CA		Action Memorandum				Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Location is documented east of 231-Z Building.	Process Description		Known Coordinates		Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The waste site received a large volume of radiologically contaminated liquid waste, including plutonium-bearing solutions generated by plutonium isolation processes in 231-Z Bldg, plutonium metallurgy waste solutions generated in 231-Z Bldg, and radioactive waste generated in the 300 Area and shipped by tanker truck to this crib. Vadose soil samples confirm contamination is present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	x	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	x	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The primary source of contamination was a total of 79,900,000 liters of radiologically contaminated liquid wastes from three separate sources -- 231-Z Bldg, plutonium isolation, 231-Z Bldg. plutonium metallurgy, and 300 Area laboratory operations. The crib was active	Waste Stream Analysis						Same Plant		No
		Process Description	x					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose characterization conducted via 6 direct push holes and one deep boring indicate that the vadose zone is contaminated variably over the entire thickness.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	x	Scintillation Log	x	Same Site Type		
				Shallow (<15 ft bgs)?	x	Shallow (<15 ft bgs)?	x			
				Deep (>15 ft bgs)?	x	Deep (>15 ft bgs)?	x			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Vadose characterization conducted via 6 direct push holes and one deep boring indicate that the vadose zone is contaminated variably over the entire thickness, with the highest concentration in the upper portion of the	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements		Same Plant		No
		Process Description	x	Spectral Gamma Log	x	Radiation Survey		Same Process		
		Incident Report				Scintillation Log	x	Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Vadose characterization conducted via 6 direct push holes and one deep boring indicate that the vadose zone is contaminated variably over the entire thickness, with the highest concentration in the upper portion of the vadose zone.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements		Same Plant		No
		Process Description	x	Spectral Gamma Log	x	Radiation Survey		Same Process		
		Incident Report				Scintillation Log	x	Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is a likely concern at this site due to the relatively large and long-term discharge.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements		Same Plant		No
		Process Description	x	Spectral Gamma Logs	x	Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts	x	Scintillation Log	x	Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	No unusual geochemical issues are associated with this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts (e.g., >4.6 m [>15 ft] bgs). Groundwater impacts indicate full-thickness vadose zone impacts by fission products and plutonium.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts	x	Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? Y	Vadose zone characterization and groundwater monitoring confirm full-thickness contamination. Additional information on extent of contamination needed. Known release of plutonium-bearing liquids. This site received 79,900,000 L of process waste from the 231-Z Building and 300 Area from 1947 to 1967. The estimated vadose zone pore volume for this site is 64 m x 13 m x 70m x 0.3 = m3 x 1000 L/m3 = 17,472,000 L. Waste volume discharged to this crib was 79,900,000 L / 17,472,000 L = 4.6 vadose zone pore volumes. Application of vadose zone characterization data generated from 216-Z-7 Crib to the low volume cribs near 231-Z Bldg would be very conservative due to the large volume of waste discharged to 216-Z-7.									

218-W-8, 222-T Vault

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44). The preferred remedy identified was RTD. - In 1975, 11.5 cubic meters (15 cubic yards) of soil was added to the surface of the radiation zone to fill in sink holes that had settled around the vault openings. A site investigation was done in 1996. Excavations were made to a depth of 3 meters (10 feet). Based on these excavations, it was determined the two wooded structures had been previously filled in with dirt. The concrete structure was not investigated. The site was regraded and surface stabilized. The "Cave-In Potential" posting was removed.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- The unit is located southeast of the 222-T Building. Location shown on maps presented in BHI-0081, and maps contained in SIMBA project folder.. - Coordinates shown in RHO-CD-673	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Site received 68,000 L containing 14 Curies of Sr-90, 16.6 Curies of Ru-106, and 16 Curies of Cs-137 (April 1986).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- This site contains laboratory process sample waste from the 222-T Building. - Three underground vaults are contained in this site. The two original vaults are 3 by 3 by 3.7 meters (10 by 10 by 12 feet) deep, made of 5.1 by 30.5-centimeter (2 by 12-inch) wooden planking, with the tops 1.5 meters (5 feet) below grade. The third replacement vault is a concrete culvert pipe encasement 2.4 meters (8 feet) in diameter and 7.6 meters (25 feet) long and 1 meter (3.2 feet) below grade. The top of the encasement is a 23-centimeter (9-inch) precast concrete cover and the bottom is a 30.5-centimeter (12-inch) thick concrete floor.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Soil contamination likely present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis. Based on site knowledge contamination expected to directly beneath bottom of site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Based on site knowledge contamination expected to directly beneath bottom of site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no (based on vault depth of 12 ft). HH - 0 to 15 ft = yes (based on vault depth of 12 ft). Eco - 0 to 10 ft = no (based on vault depth of 12 ft). Groundwater impacts = No (effluent volume corresponds to 1.2 pore volumes). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Non expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes, based on depth of discharge, two vaults at 12 ft bgs, and one culvert to 25 ft bgs.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		

Data Needs Summary		
Data Need?	**N**	Small volume and localized area of release. Sufficient data and information extists to support remedy decision.

218-W-9, Dry Waste Burial Ground No. 9, Non-TRU Dry Waste No. 009

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The site was previously evaluated in 200-MG-1 OU EE/CA. The site was identified for an RTD removal action. No action memorandum for the site has been prepared.	CERCLA EE/CA	x	Action Memorandum		Remedy not implemented	x	Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	This site would be affected by remedies at adjacent and/or collocated sites. No nearby remedies are currently planned.	CERCLA EE/CA		Action Memorandum				Complete and Verified		-NA-
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The location of this waste site is confirmed to the northwest of 202-S Building and north of 216-S-7 Crib.	Process Description	x	Known Coordinates	x	Relative to defined landmark	x			No
		Site description	x	Air Photo	x					
		Engineering Drawings	x	LIDAR	x					
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The site is known to be contaminated by radioactive surface debris and by liquid waste released from a leaking pipeline that underlies the waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	x	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	x	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Surface debris at this waste site includes contaminated scrap metal including a process tank removed from 202-S Bldg. Subsequently, a leak developed in pipeline 200-W-139-PL, causing a release of liquid waste at the ground surface.	Waste Stream Analysis						Same Plant		No
		Process Description	x					Same Process		
		Incident Report	x					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	The nature and extent of vadose contamination resulting from the pipeline leak is not described. The surface debris is not expected to present a substantial secondary source of contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	x	Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No measurements are available to define the range of contaminant concentrations associated with this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No measurements are available to define the distribution of contaminants associated with this waste site. The surface debris is expected to be confined to the surface; the contamination from the pipeline leak may extend into the subsurface.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report	x			Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical exposure scenarios include surface exposure, subsurface exposure, and an unquantified potential for groundwater protection issues.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report	x	Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	No unusual geochemical characteristics are identified at this time.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	x	Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	There is an unquantified potential for deep vadose impacts at this site due to the release of liquid waste from the pipeline leak.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	This site exhibits contaminated surface debris and an possible shallow vadose zone contamination caused by a previous pipeline leak that resulted in liquid waste pooling at the waste site ground surface (UPR-200-W-109). Sufficient data and information extists to support remedy decision.									

231-W-151, 231-W-151 Vault, 231-W-151-001 (Tank), 231-W-151-002 (Tank), 231-W-151 Sump, 231-Z-151 Sump, IMUST, Inactive Miscellaneous Underground Storage Tank (See Subsites)										
Data Need Category	**Comments**	**Type of Evaluation?**		**Decision Document?**		**Remedy Implemented?**		**Remedy Complete?**		**Data Need**
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The 216-S-8 Trench was evaluated as part of the 200-MG-1 OU EE/CA and identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Data Need Category	**Comments**	**Process Knowledge?**		**Direct Data?**		**Indirect Data?**		**Extrapolation from Similar Site?**		**Data Need**
Site Location Confirmed?	Location of the site is known.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Based on the construction of the waste site (concrete vault), radionuclide contamination in the soil directly beneath the site not expected, but shallow soil contamination possible due to releases during liquid transfers (UPR-200-W-130).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Available information indicates the 231-W-151 vault tanks were installed to receive drainage from about 75 floor drains in Building 231-Z. Waste was diverted to the 216-Z-5, 216-Z-6, 216-Z-7 cribs and the 216-Z-10 Reverse Well Through this vault. The bottom of the vault is approximately 4.1 m (13.5 ft) below grade. The tanks were used for neutralizing 231-Z Building wastes prior to disposal to a crib. In 1974, a sample was taken that indicated tank 231-W-151-001 contained only 0.001 grams of plutonium. The tank contents were reported to be 5,413 liters (1430 gallons) of supernate and no sludge. Tank 231-W-151-002 is a 3,596 liter (950 gallon) stainless steel vessel. In 1974, a sample indicated 231-W-151-002, contained 228 grams of plutonium in the sludge and less than 0.001 grams of plutonium in the supernate. The tank contents were reported to be 3,615 liters (955 gallons) of supernate and 45 iters (12 gallons) of sludge. Alpha contamination at maximum levels of 210,000 disintegrations per minute (direct) was discovered on the concrete surface in 2002.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Based on the construction of the waste site (concrete vault), radionuclide contamination in the soil directly beneath the site not expected, but shallow soil contamination possible due to releases during liquid transfers (UPR-200-W-130).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Based on the construction of the waste site (concrete vault), radionuclide contamination in the soil directly beneath the site not expected, but shallow soil	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
	contamination possible due to releases during liquid transfers (UPR-200-W-130).	Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No samples collected at site. Shallow soil contamination possible.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	No samples collected at site. Shallow soil contamination possible.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information extists to support remedy decision.									

241-T-361, 241-T-361 Settling Tank, 361-T-TANK, IMUST, Inactive Miscellaneous Underground Storage Tank

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- Isolated in 1985. - Surface stabilized in 1993.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	- Located adjacent to 216-T-6 Cribs. - Located adjacent to 221-T and 224-T Buildings. - High radiological hazard.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Enclosed with light post and chain and concrete AC-540 markers. - Posted with inactive Misc UST and URM signs. - Located southwest of 221-T Building and north of 23rd Street. Adjacent to 216-T-6 Cribs. - Shown on drawing H-2-716-76.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews		site photographs	X					
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	-Contains 45,600 L of sludge and 41,800 L of liquid. - Analysis of 2.7 g sludge sample showed it contained 23 ug of Pu, 12 ug/g Sr-90, 67/6 ug/g of Cs-137. - Analysis of liquid showed 3.71 curies/gallon of Cs-137 and 14.5 mg/gallon of Pu. - Total tank size is 136,275 L. 20 ft in diameter and 19 ft tall. See WCH-SD-DD-TI-057 pg 9 and 12-14. - Buried at depth of 6 ft. Total depth of 25 ft.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Received radioactive contaminated liquid from 221-T and 224-T (cells 4 and 5) Buildings. - Deactivated in 1951. Constructed of reinforced concrete. - Located underground for shielding purposes. In service between Aug 1946 and Oct 1947.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Tank constructed of 6-inch reinforced concrete. Potential for soil contamination arising from leaks.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- Analysis of 2.7 g sludge sample showed it contained 23 ug of Pu, 12 ug/g Sr-90, 67/6 ug/g of Cs-137. - Analysis of liquid showed 3.71 curies/gallon of Cs-137 and 14.5 mg/gallon of Pu. C38 - No analysis of soil.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume	No sampling and analysis. If soil contamination is present, expected to be immediately beneath bottom of tank.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
contaminant distribution, estimated volume of affected media)		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = no (based on depth of 6 ft). HH - 0 to 15 ft = yes (based on depth of 6 ft). Eco - 0 to 10 ft = yes (based on depth of 6 ft). Groundwater impacts = No (based on small volume of effluent in storage). Depth to groundwater is 79 m (based on 8/16/07 water level in well 299-W-11-45).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Sufficient data and information exists to support remedy decision.									

241-U-361, 241-U-361 Settling Tank, 361-U-TANK, IMUST, Inactive Miscellaneous Underground Storage Tank

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	241-U-361 was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy selected for this site is ex situ treatment of the waste in the tank and installation of an engineered barrier (along with the 216-U-1 and 216-U-2 Cribs, and UPR-200-W-19).	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The site is located adjacent to the 216 U-1 and 216-U-2 Cribs, and a remedy for those sites will likely impact 200-UPR-W-19. The preferred alternative for the 2-16-U-1 and 216-U-2 Cribs was installation of an engineered surface barrier.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The 241-U-361 Settling Tank is located southwest of 221-U, north of 16th Street. The Site is part of a marked URMA that includes the 2-16 U-1 and U-2 Cribs, UPR-200-W-19, and a portion of the 2607-W-5 Septic Tank and Tile Field. The tank is posted with Inactive Miscellaneous Underground Storage Tank (IMUST) signs	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The tank contains an estimated 104,100 Liters (27,500 gallons) of sludge and supernatant. In 1953, organic waste and cell drainage from the 221-U building overflowed to the ground via the settling tank and crib vents. Ground decontamination efforts were attempted in 1953, and the area was backfilled. In 1991, the area was surface stabilized by scraping the contaminated surface soil and consolidating it south and east of the 241-U-361 Settling Tank. The contaminated soil was covered with 46 to 61 cm (18 to 24 in) of clean backfill. The surface surrounding the Settling Tank was covered with shotcrete to a depth of 10 cm (4 in). Numerous characterization activates have been performed in the area associated 241-U-361 Settling Tank, the 216-U-1 and 216-U-2 Cribs, and unplanned release UPR-200-W-19.	Waste Stream Analysis	X	Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The tank received cell drainage from the 5-6 tank in 221-U and waste from the 224-U building until the Uranium Recovery operations shut down in 1957. From July 1957 through May 1967, the 216-U-1 and U-2 Crib system received waste from the 224-U facility and equipment decontamination waste and reclamation waste from the 221-U canyon via the 241-U-361 tank.	Waste Stream Analysis	X					Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Concentrations in surface and subsurface soil are discussed in the summaries for UPR-200-W-19 and 216-U-1 and U-2 Cribs. In 2004, 14 direct push boreholes were installed and spectral gamma logging was performed at these locations along with 2 additional existing borehole locations to determine design limits of the proposed engineered barrier.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution in surface and subsurface soil are discussed in the summaries for UPR-200-W-19 and 216-U-1 and U-2 Cribs.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected from surface contamination associated with overflow from 241-U-361 Settling Tank and 216-U-1 and U-2 Cribs.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs	X	Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	The site has been sufficiently characterized to support remedy decision.									

2607-W8

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	This septic tank and drain field was previously assigned to 200-MG-1 OU and was evaluated for a removal action in the 200-MG-1 OU EE/CA. The EE/CA identified confirmation sampling and no further action as preferred remedial alternative. The site was not included in a subsequent action memorandum.	CERCLA EE/CA	x	Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No remedial actions are planned in the vicinity of this waste site, however, actions conducted at the cribs in the vicinity of 231-Z Bldg would likely affect this waste site.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	This waste site location is confirmed northeast of 231-Z Building and north of 216-Z-5 Crib.	Process Description	x	Known Coordinates	x	Relative to defined landmark	x			No
		Site description	x	Air Photo	x					
		Engineering Drawings	x	LIDAR	x					
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	There are no data indicating that this waste site is contaminated. The site received only sanitary waste from 231-Z Building from 1944 to 1978.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	This waste site received sanitary waste from 231-Z Building.	Waste Stream Analysis						Same Plant		No
		Process Description	x					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	No secondary source of contamination is identified for this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No contamination has been identified related to this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	This waste site received only sanitary waste from 231-Z Building.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	No contamination has been identified related to this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	No contamination has been identified related to this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	No contamination has been identified related to this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Sufficient data and information exists to support RTD remedy decision.									

270-W, 270-W Tank, 270-W Neutralization Tank, IMUST, Inactive Miscellaneous Underground Storage Tank

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No previous remedy evaluations have been identified for the 270-W Neutralization Tank.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	None.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The unit is located under the northeast end of 2715-UA building, inside the 224-U facility fence.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The tank contains an unknown amount of spent limestone sludge. No analyses were found of this sludge, but it could contain uranium, uranium oxides, and other wastes. A 1974 memo states that "based on the last liquid to flow through the tank, contents may include 2.64 E-9 curies per gallon of beta emitters, 9.69 E-5 grams per gallon of uranium and 1 E-9 grams per gallon of plutonium". This memo also states that "Since the integrity of the 270-W tank could not be assured, a bypass line should be installed around the tank before the plant begins to discharge waste." A 1976 letter (cited in WHC-SD-EN-ES-040, Rev. 0) notes that the tank contained "limestone slurry with minimal supernate heel" and that it did not need to be sampled. Supernate heel is assumed to be the amount of supernate remaining in the tank after lowering to the greatest extent possible by use of the existing transfer equipment. WIDS notes that additional analyses of both the supernate and sludge for radionuclides and toxic chemicals are necessary before making a waste designation.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The tank was filled with limestone and used to neutralize acidic process condensate generated from the 224-U building.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling data has been identified for this site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling data has been identified for this site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Unknown HH: 0-15 ft - Unknown Eco: 0-10 ft - Unknown Groundwater Impacts - Unknown, not likely.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Unknown. Not likely based on historical documentation that suggest little liquid remains within the tank.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		

Data Needs Summary		
Data Need?	**N**	Sufficient data and information exists to support remedy decision.

600-70, Solid Waste Management Unit (SWMU) #2 - Miscellaneous Solid Waste

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	This site was previously assigned to 200-MG-1 OU and was evaluated in the 200-MG-1 OU EE/CA. RTD identified as preferred remedial alternative in MG-1 EE/CA.	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The site is located 360 meters (1,180 feet) east of REDOX, outside the 200-W Area perimeter fence. The approximate boundary of the site was mapped during a GPS survey conducted in 1999. The exact location of a reported French drain associated with the dumping area is unknown.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo	X					
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	A site walk down conducted in 1999 reported that the site contains large areas of metal and concrete debris, large numbers of barrels and cans, and several areas with evidence of burning. No characterization data has been identified, however, based on the process description and field observations, the potential for contamination exists.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The 600-70 Dumping Area was a construction storage, heavy equipment vehicle parking and maintenance, concrete truck wash down area, and a waste disposal area associated with the REDOX plant construction. Likely waste disposal during the 2-year construction period included trash burning, acid "pickling" (metal preparation) wastes, cooling water from heliarc welding operations (into a French drain), and sandblasting wastes. Other possible contaminants disposed of in this area include gasoline, oil, other lubricants, anti-freeze, and other vehicle-related fluids. The exact locations of the French drain and other disposal units are unknown.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No characterization data has been identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	WIDS reports that 600-70 is an irregular shaped area with approximate dimensions of 425 m (1,395 ft) long by 280 m (918 ft) wide. The presence and distribution of contaminants within this area is unknown.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Possible HH: 0-15 ft - Possible Eco: 0-10 ft - Possible Groundwater Impacts - Not expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected. There are no reports of deep excavations or large liquid discharge volumes. This characteristics of this type of site do not suggest that there are deep vadose zone impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	

Data Needs Summary		
Data Need?	**N**	Sufficient data and information exists to support remedy decision.

UPR-200-W-101, UN-216-W-9, 221-U Acid Spill R-1 Through R-9, UN-200-W-101

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	MG-1 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	UPR-200-W-101 is located within the limits of UPR-200-W-162. Both of these unplanned releases are located within the proposed limits of the U Plant Canyon Barrier.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	UPR-200-W-101 occurred at the northeast end of the 221-U Building (sections R-1 through R-9).	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Historical documents report surface contamination due to the original unplanned release and subsequent surface contamination from weeds bringing contamination back to the surface of a stabilized area.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description		Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	UPR-200-W-101 occurred in March 1957, when reclaimed acid was spilled onto the ground (presumably from a leaking overhead pipeline) at the northeast end of the 221-U Building. Approximately 1 curie of fission products (Sr-90) was reportedly released.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No characterization sampling and analysis data has been identified. During a radiological survey in September 1976, surface contamination to 300 counts per minute was detected. A 1981 radiation survey (T-81-0955) reports contamination specks at up to 8,000 counts per minute.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No characterization sampling and analysis data has been identified. The original spill area was 19.8 meters (65 feet) by 27.5 meters (90 feet) and was covered with 3 inches of sand and gravel after the occurrence. In 1967, a Radiation Monitoring Management Report stated that approximately 1900 square meters (20,000 square feet) of ground surface at the rear of the 221-U Building was resealed. The original tar surface over an old radioactive spill area had decomposed and allowed weeds to grow and bring contamination to the surface. The resealed area extended from section R-1 through section R-9 and out to the road east of the building. All weeds were removed, soil sterilizing agent was then sprayed over the ground, a hot tar base was applied, and this was capped with fine mesh chipped gravel. Based on these descriptions, the affected media appears to be limited to surface soil.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - No In 1998, the contaminated areas on the rear side of 221-U were covered with clean backfill material. The area was reposted as "Underground Radioactive Material."	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected, based on the nature and volume of the release	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision. The site is located within the proposed footprint of the U Plant Canyon barrier. Additional characterizaiton has been proposed under the Sampling and Analysis Plan for the U Plant Canyon Proximal Waste Sites.									

UPR-200-W-103, 216-Z-18 Line Break, UN-216-W-13, UN-200-W-103, Pipe Line Leak

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	MG-2EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?		Process Description		Known Coordinates		Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The release occurred in April 1971. An area measuring 7.6 meters (25 feet) long, 1.8 meters wide (6 feet) and 2.1 meters (7 feet) was excavated around the line leak. Approximately one hundred 55-gallon barrels of Contaminated soil were removed and buried in the 200 West Area Plutonium "Storage for Recovery" Burial Ground. Gross alpha contamination in excess of 6 million distinegrations per minute was identified. A considerable amount of contaminated soil still remained in the excavation after it was backfilled.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The 216-Z-18 Crib line broke near the southwest corner of the 236-Z Building. An excavation of the area uncovered gross alpha contamination in the soil. The release contained approximately 10 grams of plutonium with gross alpha contamination greater than 6,000,000 disintegrations per minute.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	The 216-Z-18 Crib line broke near the southwest corner of the 236-Z Building. An excavation of the area uncovered gross alpha contamination in the soil.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Gross alpha contamination in excess of 6 million distinegrations per minute was identified. A considerable amount of contaminated soil still remained in the excavation after it was backfilled.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Gross alpha contamination in excess of 6 million distinegrations per minute was identified. A considerable amount of contaminated soil still remained in the excavation after it was backfilled.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report	X			Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential	HH: 0-3 ft - Not expected HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - Not expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
receptors identified)						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision.									

UPR-200-W-111, Sludge Trench at 207-U, UN-216-W-21

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Unplanned Release UPR-200-W-111 was evaluated as part of the 200-MG-2 OU EE/CA (DOE-RL-2008-45). The preferred remedy identified is removal, treatment, and disposal (RTD). The Action Memorandum for Non-Time Critical Removal Action for 200-MG-2 Operable Unit (DOE/RL-2009-37) recommends that RTD be implemented under a removal action.	CERCLA EE/CA	X	Action Memorandum	X	Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	UPR-200-W-111 is located approximately 3 m (10 ft) from the concrete wall on the south side of the 207-U South Retention Basin.	CERCLA EE/CA	X	Action Memorandum	X	Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The site is located inside 200 West Area, west of 221-U Building, north of 16th Street, and east of the 241-U Tank Farm.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	In the 1960's, sludge was scraped from the 207-U South basin and buried in a trench within 3 meters (10 feet) of the edge of the south concrete wall of the basin. Between April 15 and May 20, 1997, an interim stabilization project was conducted to consolidate and stabilize the soil contamination around the basin perimeter. WIDS notes that the Hanford Operational Environmental Monitoring Program will continue to monitor the air and soil in the vicinity of the 207-U basins to meet requirements stated in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for monitoring of diffuse and fugitive sources. No other characterization data has been identified for this site.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of [illegible])		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Approximately 21 cubic meters (27 cubic yards) of sludge from the 207-U South Retention Basin was buried adjacent to the Retention Basin. Until 1972, the retention basins received steam condensate and cooling water from the 224-U Building and chemical sewer waste from the 221-U Building. The exact date of this basin scraping is not known. It is assumed to have been a one time use trench dug in the 1960's.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	In 1997, contaminated soil in the vicinity of the 207-U Retention Basin was scraped and consolidated around the basin perimeter. The contaminated soil was covered with clean backfill. The radiological posting was changed to "Underground Radioactive Material."	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	No vadose zone characterization sample and analysis data has been located. In 1981, tumble weed & specks were detected at 10,000 cpm during a radiation survey. In 1997, radiological surveys and soil sampling were conducted to support radiological postings after the completion of interim stabilization work conducted at the 207-U Retention Basin and its perimeter, including the Unplanned Release site. The site posting was changed from “Surface Contamination” to "Underground Radioactive Material" as a result of the radiological surveys and soil sampling conducted during the interim stabilization.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No vadose zone characterization sample and analysis data has been located. The original trench dimensions are reported as 12.2 m (40 ft) long, by 4.6 m (15 ft) wide, and 3.1 m (10 ft) deep.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - No The sludge was covered with 1.2 meters (4 feet) of clean soil. Additional stabilization fill was added to the area during the 1997 Interim Stabilization.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Based on the nature of the material disposed (sludge) and the depth of burial (10 ft), minimal deep vadose zone contamination is expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	

Data Needs Summary		
Data Need?	**N**	Sufficient data and information exists to support remedy decision.

UPR-200-W-112, Sludge Trench at 207-U, UN-216-W-22

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Unplanned Release UPR-200-W-112 was evaluated as part of the 200-MG-2 OU EE/CA (DOE-RL-2008-45). The preferred remedy identified is removal, treatment, and disposal (RTD). The Action Memorandum for Non-Time Critical Removal Action for 200-MG-2 Operable Unit (DOE/RL-2009-37) recommends that RTD be implemented under a removal action.	CERCLA EE/CA	X	Action Memorandum	X	Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Unplanned release UPR-200-W-112 is located approximately 3 m (10 ft) from the concrete wall on the north side of the 207-U North.	CERCLA EE/CA	X	Action Memorandum	X	Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The site is located inside 200 West Area, west of 221-U Building, north of 16th Street, and east of the 241-U Tank Farm.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	In the 1960's, sludge was scraped from the 207-U North Retention Basin and buried in a trench within 3 meters (10 feet) of the edge of the North concrete wall of the basin. Between April 15 and May 20, 1997, an interim stabilization project was conducted to consolidate and stabilize the soil contamination around the basin perimeter. WIDS notes that the Hanford Operational Environmental Monitoring Program will continue to monitor the air and soil in the vicinity of the 207-U basins to meet requirements stated in the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for monitoring of diffuse and fugitive sources. No other characterization data has been identified for this site.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Approximately 21 cubic meters (27 cubic yards) of sludge from the 207-U North Retention Basin was buried adjacent to the Retention Basin. Until 1972, the retention basins received steam condensate and cooling water from the 224-U Building and chemical sewer waste from the 221-U Building. The exact date of this basin scraping is not known. It is assumed to have been a one time use trench dug in the 1960's.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	In 1997, contaminated soil in the vicinity of the 207-U Retention Basin was scraped and consolidated around the basin perimeter. The contaminated soil was covered with clean backfill. The radiological posting was changed to "Underground Radioactive Material."	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No vadose zone characterization sample and analysis data has been located. A radiation survey was conducted on September 4, 1981 as part of an Environmental Audit. This radiation survey conducted in 1981 found readings of less than 1 mR/hr and a maximum of 5000 c/m. In 1997, radiological surveys and soil sampling were conducted to support radiological postings after the completion of interim stabilization work conducted at the 207-U Retention Basin and its perimeter, including the Unplanned Release site. The site posting was changed from “Surface Contamination” to "Underground Radioactive Material" as a result of the radiological surveys and soil sampling conducted during the interim stabilization.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No vadose zone characterization sample and analysis data has been located. The original trench dimensions are reported as 12.2 m (40 ft) long, by 4.6 m (15 ft) wide, and 3.1 m (10 ft) deep.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - No The sludge was covered with 1.2 meters (4 feet) of clean soil. Additional stabilization fill was added to the area during the 1997 Interim Stabilization.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Based on the nature of the material disposed (sludge) and the depth of burial (10 ft), minimal deep vadose zone contamination is expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	

Data Needs Summary

Data Need?	**N**	Sufficient data and information exists to support remedy decision.

UPR-200-W-116, UN-216-W-26, Ground Contamination North of 202-S, UN-200-W-116

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The UPR-200-W-116 unplanned release was evaluated as part of the 200-MG-1 OU EE/CA (DOE-RL-2008-44). The preferred remedy identified is removal, treatment, and disposal (RTD).	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	A portion of UPR-200-W-96 lies within the boundaries of this Site.	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The release affected an area east of the 204-S Unloading Station, north of the 202-S Building and west of the REDOX railroad cut.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No.
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Yes. Radiation surveys performed in 1974and 1981 identified surface radiological contamination,	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The area designated as UPR-200-W-I 116 was contaminated with particulates spreading by wind from the 204-S Waste Storage Tank exhaust and the related Railroad Tanker Waste Unloading Station. Radioactive particulates traveled eastward and affected an area approximately 0.8 hectares (2 acres) in size.	Waste Stream Analysis						Same Plant		No.
		Process Description	X					Same Process		
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	It is possible that UPR-200-W-69 (a 1973 contamination spread from a contaminated drain pit) also contributed to the contamination at this location.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No characterization data has been identified. A radiation survey performed in 1974 identified ground contamination, with radioactive levels up to 20,000 cpm. Another radiation survey performed in 1981, in beta/gamma ranging from 200 to 3000 cpm.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No.
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No characterization data has been identified. The site originally measured 111 m (364 ft) long by 70 m (230 ft). The area was windrowed in 1974, and consolidated/interim stabilized in 1993. The site area measured 66 m (217 ft) long by 36 m (118 ft) wide after the interim stabilization. The distribution of contaminants within this area has not been characterized.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes. The area was interim stabilized in 1993 with 46 to 61 centimeters (18 to 24 inches) of uncontaminated soil. HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts -No	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	No. Based on the contamination source being wind blown contamination, no deep vadose zone impacts are expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information exists to support remedy decision.								

UPR-200-W-117, Railroad Track Contamination, 221-U Railroad Cut Contamination, UN-216-W-27, UN-200-W-117

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	UPR 200-W-117 was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for selected for this site was removal, treatment, and disposal.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X	0.3 m (12 inches) of interim stabilization cover (gravel) was installed in 2001 (BHI-01612 Rev. 0)				
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	A portion of this Site is located within the proposed footprint of the U Plant Canyon barrier. This Site is co-located with the UPR-200-W-60 Unplanned release site.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The Site extends from the 221-U railroad tunnel door approximately 60 by 9 meters (200 by 30 feet),	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The original unplanned release had been posted with "Surface Contamination" signs in 1980. This was released from radiological posting in 1983. Later, the area extending from the tunnel door to a point approximately 55 meters (180 feet) down the railroad track was posted as a contamination Area.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	It is believed that the unplanned release to the Site occurred over time through numerous minor drips and spills from railroad cars transferring equipment and materials to and from the 221-U building.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling data identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	An area extending from the tunnel door to a point approximately 55 meters (180 feet) down the railroad track was posted as a contamination Area. WIDS reports the site dimensions as 60.96 m by 9.14 m (200 ft by 30 ft).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report	X			Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None. The site has no history of vadose zone contamination or groundwater contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Sufficient data and information exists to support remedy decision. The site is partially located within the proposed footprint of the U Plant Canyon barrier. Additional characterization has been proposed under the Sampling and Analysis Plan for the U Plant Canyon Proximal Waste Sites.									

UPR-200-W-118, Contamination at 211-U, UN-216-W-28, UN-200-W-118

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	UPR 200-W-118 was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy selected for this site is to maintain the existing soil cover, with institutional controls, and monitored natural attenuation.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X	The area was stabilized with gravel and posted as URM in May 1998. The railcar unloading platform has been removed.				
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	This Site is located within the proposed footprint of the U Plant Canyon barrier.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	UPR-200-W-118 was located on the railroad spur northwest of the 221-U Building, adjacent to the 211-U Chemical Tank Farm. The unplanned release site is no longer marked or posted. The area around the 211-U tanks and railroad spur has been stabilized with gravel and is posted as an Underground Radioactive Material Area.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The contaminated railroad spur was given an Unplanned Release number in September 1980, but a radiation surveys done in 1982 did not find any significant contamination. The contamination was believed to have decayed to background levels and the area was released from radiological controls in 1983. The 211-U area was Decontaminated and Decommissioned in May 1998 and 2002. In 1998, the pump pit and lines were flushed and cleaned. The chemical rail car unloading station was removed and the section of railroad track near 221-U was covered with gravel. The gravel area was posted with Underground Radioactive Material signs in 1998. At this time, the 211-UA Tank Farm was posted with Contamination Area signs and the 211-U tanks were posted with Radioactive Material Area signs. More surface stabilization work was done in 2002. The Contamination Areas at 211-U and 211-UA were graveled and changed to Underground Radioactive Material areas.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	This contaminated area was the result of drips and spills from the reclaimed nitric acid unloading station at the 211-U Chemical Tank Farm. Acid and waste water was removed from the tanks in 1994, however, the acid pump pit and underground lines had not been flushed. Leaking valves and seals and residual contamination in the pump pit caused low level radioactive contamination to spread around the tanks and railcar unloading platform. The area was posted as a Contamination Area again in the early 1990's. The lines and pump pit were flushed in 1998 and the surface contamination was covered with gravel. The area was changed to an Underground Radioactive Material Area.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Wind-borne particulate matter spread to the ground surface outside the concrete unloading station, contaminating approximately 0.4 hectares (1 acre) of ground.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling data identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Shallow surface soil is the only affected media. The original site area is reported as 0.4 hectares (1 acre) and is assumed to have resulted from spread of contamination with wind born particulate matter.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report	X			Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None. The site has no history of vadose zone contamination or groundwater contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Sufficient data and information exists to support remedy decision. The site is located within the proposed footprint of the U Plant Canyon barrier. Additional characterization has been proposed under the Sampling and Analysis Plan for the U Plant Canyon Proximal Waste Sites.									

UPR-200-W-138, 221-U Vessel Vent Blower Pit French Drain, UN-216-W-11, UN-200-W-138, UN-200-W-22, UPR-200-W-22

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No previous remedy evaluation has been performed for Unplanned Release UPR-200-W-138.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	UPR-200-W-101 , UPR-200-138, 216-U-7 French Drain and the 241-UX-154 diversion Box are located within the limits of UPR-200-W-162 and are posted as a common Underground Radioactive Material Area. UPR-200-W-162 is located within the proposed limits of the U Plant Canyon Barrier.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	UPR-200-W-138 occurred at the northwest corner of the 221-U Building, near the R-3 entrance, and is located inside the larger, surface stabilized area now designated as UPR-200-W-162. A Ground Penetrating Radar survey using a GM/P-11 Probe and a site walk-down occurred in 1998 to identify potential below-ground voids along the east side of the 221-U Building prior to stabilization.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The site consists of surface radiological contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description		Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	An estimated 140 kilograms (300 pounds) of uranium nitrate hexahydrate (UNH) solution, containing 14 kilograms (30 pounds) of uranium, was released to the ground. The release is reported to have occurred from a Building Vessel Vent Blower Pit, then onto the ground through the 216-U-7 French Drain. [Note: WIDS identifies some uncertainty as to the exact location of the release and whether the release actually occurred through the 216-U-7 French Drain.]	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No characterization sampling and analysis data has been identified. A radiation survey done in September 1976	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
	detected surface contamination up to 300 counts per minute in this area.	Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No characterization sampling and analysis data has been identified. Based on the site description for this unplanned release, contaminant distribution is assumed to be surface and shallow vadose zone soil.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - No Interim stabilization of UPR-200-W-138 included placing a base layer of pit run material over the area, followed by a cover of gravel. In 1998, the larger UPR-200_W-162 area were covered with clean backfill material. The area was reposted as "Underground Radioactive Material."	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected, based on the nature and volume of the release	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	

Data Needs Summary

Data Need?	**N**	Sufficient data and information exists to support remedy decision. The site is located within the proposed footprint of the U Plant Canyon barrier. Additional characterization has been proposed under the Sampling and Analysis Plan for the U Plant Canyon Proximal Waste Sites.

UPR-200-W-14, Waste Line Leak at 242-T Evaporator, UN-200-W-14

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No evaluation identified.	CERCLA EE/CA	X	Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Not evaluated	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Coordinates provided on WIDS and Site Information Data Sheets. - Narrative descriptions and sketches also available in SIMBA project folder.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Area of release covered with clean/stabilization cover material. - Wastewater that spilled at this site had low potential for contamination. - Identified as mixed waste source in BHI-00177.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Leak in a cast iron cooling water condensate discharge line connecting 242-T Waste Evaporator and 207-T Retention Basin.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	- Yes, soil contamination potentially present. Fluids (wastewater) from leaking discharge line were observed at ground surface.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling and analysis. If contamination present, expected to be less than 15 ft deep.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. If contamination present, expected to be less than 15 ft deep.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (small volume release)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision.									

UPR-200-W-162, Contaminated Area on East Side of 221-U, UN-216-W-37

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	No previous remedy evaluation has been performed for Unplanned Release UPR-200-W-162.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	UPR-200-W-101 , UPR-200-138, 216-U-7 French Drain and the 241-UX-154 diversion Box are located within the limits of UPR-200-W-162 and are posted as a common Underground Radioactive Material Area. UPR-200-W-162 is located within the proposed limits of the U Plant Canyon Barrier.	CERCLA EE/CA		Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The release site is the area adjacent to and east of the 221-U Canyon Building from Section R-1 to R-19 in the 200 West Area. A Ground Penetrating Radar survey using a GM/P-11 Probe and a site walk-down occurred in 1998.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The site consists of surface radiological speck contamination. Some contamination was removed (using buckets and shovels) by tank farm operations in March and October 1991, but the size of the posted area was not changed. The site requires quarterly surveillance, annual radiological surveys, annual herbicide applications, removal of deep-rooted vegetation, and occasional corrective action for small areas of surface contamination that may appear.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description		Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste	Unplanned releases UPR-200-W-101 and UPR-200-W-138.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	No characterization sampling and analysis data has been identified. A Radiological survey on March 21, 1991 found alpha levels below detection level for surveyed areas within the radio logically posted area. However, beta readings were found between 2500 to 350,000 dpm between Sections R-1 through R-19. Sections R-1 through R-5 are also within the UPR-200-W-101 (UN-216-W-9) boundary, with the remaining sections falling within the larger Surface Contamination Area now designated as UPR-200-W-162. Radiological readings on February 5, 2001 along the southern boundaries of the posted Surface Contamination Area showed beta mrad/hr readings ranged from 2000 disintegrations per minute (dpm) to 9000 dpm above background. Readings of 4000 dpm above background were discovered at the 221-U Building along the Canyon Entrance #1, which is within the UPR-200-W-101 (UN-216-W-9) boundary.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No characterization sampling and analysis data has been identified. Based on the site description for this unplanned release, contaminant distribution is assumed to be surface and shallow vadose zone soil.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - No In 1998, the contaminated areas on the rear side of 221-U were covered with clean backfill material. The area was reposted as "Underground Radioactive Material."	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected, based on the nature and volume of the release	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision. The site is located within the proposed footprint of the U Plant Canyon barrier. Additional characterization has been proposed under the Sampling and Analysis Plan for the U Plant Canyon Proximal Waste Sites.									

UPR-200-W-166, Contamination Migration from 241-T Tank Farm, UN-216-W-31

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- During interim stabilization activities in 1991, 276,606 ft2 of material was scrapped up and consolidated on west slope of 216-T-14 to 216-T-17 Trenches and 207-T Retention Basin. - Additional 195,433 ft2 of material scrapped up in 1996. WHC Internal memo (81490-92-WMH-014) describes a field rad survey and surface soil sampling and analysis plan with random sampling.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site location is no longer separately marked or posted. - Good map is provided in SIMBA project folder (no document ref no shown)	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Grouping of sites that lay in the vicinity of the 216-T-14 to 216-T-17 Trenches, 241-T Tank Farm and 207-T Retention Basin. - Field rad surveys detected 25,000 to 250,000 dpm.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Contamination associated with wind-blow dispersion from activities at adjacent sources.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual soil contamination but this potential deemed low based on extent of previous removal and nature (dispersed wind-blown source) of source.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- Field rad surveys detected 25,000 to 250,000 dpm.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	WHC Internal memo (81490-92-WMH-014) describes a field rad survey and surface soil sampling and analysis plan with random sampling.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (wind-blown release)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision.									

UPR-200-W-19, 241-U-361 Overflow, UN-200-W-19

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	UPR 200-W-19 was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for selected for this site was to maintain the existing soil cover until the remedy is implemented at the 216-U-1 and U-2 Cribs.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The Site overlies the 216 U-1 and 216-U-2 Cribs, 241-U-361 Settling Tank, and portions of the 2607-W5 Septic Tank and Tile Field. Site stabilization activities were performed to consolidate contaminated areas and cover impacted soils with clean gravel fill and a layer of shotcrete. A remedy for those sites will likely impact 200-UPR-W-19. The preferred alternative for the 2-16-U-1 and 216-U-2 Cribs and 241-U-361 Settling Tank was installation of an engineered surface barrier.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The Site is part of a marked URMA that includes the 2-16 U-1 and U-2 Cribs, 241-U-361 Settling Tank, and a portion of the 2607-W-5 Septic Tank and Tile Field.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	The original contamination area was approximately 4.6 m2 (50 ft2). In 1991, the area was surface stabilized by scraping the contaminated surface soil and consolidating it near the 241-U-361 Settling Tank. The contaminated soil was covered with 46 to 61 cm (18 to 24 in) of clean backfill. The surface surrounding the Settling Tank was covered with shotcrete to a depth of 10 cm (4 in).	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Ongoing Investigation (as of		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Overflow from the 216-U-1 and 2-16 U-2 vent risers. This release is reported as organic waste and cell drainage from the tributyl phosphate (TBP) and uranium oxide (UO3) plants which overflowed to the ground by way of the Tank and Crib vents in the spring of 1953.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	Surface soil sampling conducted during the LFI detected Cesium-137 at 13.5 pCi/g, plutonium-239/240 at 0.021 to 0.907 pCi/g, strontium-90 at 3.78 to 10.3 pCi/g, and total uranium at 1.8 to 4.01 pCi/g. Geophysical logging was conducted at two direct push borings in 2004-2005. C4202, Cs-137 was detected at 0.3 to 3.6 m (1 to 12 ft) from 0.4 to 341 pCi/g with max at 2.1 m (7 ft). At C4206, Cs-137 was detected at 0.3 to 1.2 m (1 to 4 ft) from 0.2 to 15.7 pCi/g with max at 0.6 m (2 ft). At C4212, radionuclide was not detected.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Surface soil samples and geophysical logging indicate contamination to a depth of 3.6 m (12 ft). Additional sampling is needed to determine full lateral extent to support remedial design.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected The site was surface stabilized with gravel in 1999 and posted Underground Radioactive Material (URMA).	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs	X	Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log	X	Scintillation Log		Same Site Type		

Data Needs Summary

Data Need?	**N**	Sufficient data and information exists to support remedy decision. Decision to maintain soil cover until 216-U-1 and 216-U-2 Crib barrier is constructed is documented in DOE/RL-2003-23 and DOE/RL-2003-24. Significant post-decisional data has been collected to establish barrier footprint. No further data needs identified.

UPR-200-W-20, UN-200-W-20, Spread of Contamination from a Diversion Box

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	An area around the 240-S-151 diversion box of approximately 1000 ft^2 was covered with six inches clean gravel and the site removed from radiation zone status in 1971 based on sampling results.	CERCLA EE/CA		Action Memorandum		Yes	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified	X	
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other	X	Other	X			??		
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	If the historical release is at the 241-S-151 diversion box, planned remedy for site UPR-200-W-82 will address the risk associated with this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is documented. However, it is not possible to be certain where this release occurred due to discrepancies in reference documentation.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	According to ARH-2015 prepared in March 1971, the site was removed from radiation zone status based on sampling results.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of [illegible])		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste	Process liquid waste from processing and decontamination operation.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	According to HW-60807 prepared in 1959, the affected soil area was covered by 6 inches of clean gravel. The site was removed from radiation zone status in 1971 based on sampling results.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	The results of the sampling and analysis conducted in 1971 are not avaliable.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	An area around the box of approximately 1000 ft^2.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Potential exposure is not anticipated as the site was removed from radiation zone status in 1971	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected based on the release mechanisms.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information exists to support remedy decision.								

UPR-200-W-3, Railroad Contamination, UN-200-W-3

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44)	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Not evaluated, but this Site is reportedly in proximity to 291-S Stack.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Posted contamination area. - Sketch HW-60807 shows approximate location. - Location shown on drawing in BHI-00177. - Site dimensions reported at 5.9 ft (L) by 5.9 ft (W) (DOE/RL-2008-44 pg. A-270)	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Field rad survey performed in 1990 (N-12-90 Radiological protection Records) but survey results could not be found per DOE/RL-2008-44 Draft A.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Yes, contamination from cask cars and equipment being hauled to burial ground was spread to ground along R/R track several times in 1944.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	- Residual soil contamination potentially present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling data available, but depth not expected to exceed 15 ft bgs.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Horizontal distribution potentially defined by N-12-90 Radiological Protection Records survey.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = no (material removed). Groundwater impacts = no (small effluent volume)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
conditions, mobility enhancing/retarding conditions)		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information exists to support remedy decision.								

UPR-200-W-33, Ground Contamination at 224-U, UN-200-W-33

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	UPR 200-W-33 was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for selected for this site was to removal, treatment, and disposal.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Yes. The site is located just outside the proposed footprint of the U Plant Canyon barrier.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	UPR-200-W-33 is located approximately 28m (90ft) east of the 224-U Building within the fenced-in 224-U facility boundary. GPS survey did not locate the site due to error in posting of another site.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Unknown. Remediation occurred in 1955 when the top 4in of contaminated soil was removed and replaced with clean soil. The radiation zone was posted and roped off following remediation. The area was removed from radiation zone status in December 1970.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Yes. The spill is associated with the Uranium Recovery Process at the 224-U Facility. The spill occurred in March 1955 when a leaking flange contaminated a section of ground.	Waste Stream Analysis						Same Plant	X	No
		Process Description	X					Same Process	X	
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling data identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contamination is likely localized in the surface and subsurface layers.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None. The site has no history of vadose zone contamination or groundwater contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision. The site is located within the proposed footprint of the U Plant Canyon barrier. Additional characterization has been proposed under the Sampling and Analysis Plan for the U Plant Canyon Proximal Waste Sites.									

UPR-200-W-36, Groundwater Contamination at 216-S-1 and 216-S-2

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	A remedy evaluation of UPR-200-W-36 has not performed.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	UPR-200-W-36 is associated with the 216-S-1 and 216-S-2 Cribs.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The release occurred at a well located near the east end of 216-S-1 & 2 cribs, east of the 241-SX Tank Farm.	Process Description	X	Known Coordinates	X	Relative to defined landmark	X			No.
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Yes. Contamination has been confirmed through historical documentation and geophysical logging of numerous boreholes in the vicinity if this site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Ongoing Investigation (as of		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log	X	Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	UPR-200-W-36 is an Unplanned Release (UPR) associated with the 216-S-1 and 216-S-2 Cribs. It occurred at well 299-W22-3, located near the E end of the Cribs and E of the 241-SX Tank Farm. The well is also identified as 207-S-11 and 241-S-11. The Cribs received waste from the D-1 and D-2 Receiver Tanks in the 202-S Building. The UPR occurred when the well casing failed, allowing wastes from the Cribs to migrate downward to the water table more rapidly than if the wastes would have traveled through the sediment column. It was discovered in August 1955, after process vapors were smelled near the Cribs. The well was promptly backfilled with local sand and gravel. The inorganics found at the site include: aluminum, nitrate, nitric acid, and sodium. The radionuclides found at this site are: cobalt-60, americium-241, cesium-137, uranium, and plutonium. An unknown volume of this waste entered the groundwater beneath the crib through a rupture in the well casing.	Waste Stream Analysis						Same Plant		No.
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Yes. Contamination has been confirmed through historical documentation and geophysical logging of numerous boreholes in the vicinity if this site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Concentration Range Defined? (i.e., apparent maximum and minimum)	The well was sampled in June 1955. Radiation Monitoring personnel investigated the UPR in August 1955. Additional wells were drilled around the UPR in 1955 to evaluate and monitor groundwater conditions. Scintillation probe or total gamma profiles are available at various times from 1958 to 1976. Site walkdowns occurred in March 1998 and October 1999. Borehole C6554 was drilled at 216-S-1 in June 2008 to a depth of 19 m (63 ft). Spectral gamma logging in 2008 detected Cesium-137 throughout the borehole. Cesium-137 was dominant between 9 and 19 m (30 – 62 ft), with a maximum concentration of approximately 20,000,000 pCi/g occurring at 11 m (37 ft). The highest gamma activity was reported between 11 and 13 m (37 – 44 ft).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The failed well allowed an unknown volume of highly contaminated waste to flow directly into the groundwater. The existence of analytical sediment samples from adjacent boreholes has not been confirmed. Based on historical documentation, waste from the 216-S-1 and 2 Cribs migrated directly to groundwater after entering the failed well casing.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report	X			Scintillation Log	X	Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - No HH: 0-15 ft - No Eco: 0-10 ft - No Groundwater Impacts -Yes	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log	X	Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description		Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	The test well originally consisted of a 20.3 centimeter (8 inch) steel casing driven to a depth of 45.7 meters (150 feet). In January of 1955, the well was extended an additional 50 meters (163 feet), beneath the groundwater table which was at a depth of about 65.5 meters (215 feet) in 1955. In August of 1955 liquid effluent from the S-2 and S-2 cribs was discovered have entered into the well through a failed well casing and was directly discharging to groundwater.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		

Data Needs Summary	
Data Need? **N**	No characterization of this site has been performed. Additional characterization of similar site 216-S-1&2 will provide sufficient data and information to support remedy decision.

UPR-200-W-39, UN-200-W-39, 224-U Buried Contamination Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	The UPR-200-W-39 Unplanned Release was evaluated as part of the 200-MG-1 OU EE/CA (DOE-RL-2008-44, Draft A). The preferred remedy identified is removal, treatment, and disposal (RTD).	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The 224-UA Building addition was constructed over this site.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	According to available references, the release occurred on the southeast side of the 224-U building. The disposal trench is located under the 224-UA (Calciner Building) addition.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Yes. The presence of contamination is confirmed by historical documentation.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No.
		Process Description	X	Ongoing Investigation (as of		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	A leak from 224-U, during March 1954, spread to an area southeast of the 224-U Building. The contamination was placed in a trench that measured 3.1 meters (10 feet) wide by 15.2 meters (50 feet) long. The contamination was covered with 0.9 meters (3 feet) of clean soil.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Yes. The presence of contamination is confirmed by historical documentation.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No characterization sampling and analysis data has been identified. Historical documents indicate that the original contamination was less than 10 nanocuries/gram of Uranium. The area was removed from radiation zone status in June 1972.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report	X			Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No characterization sampling and analysis data has been identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - No Exposure pathways are likely incomplete due to the location of this site under the 224-UA building.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected, based on the nature of the material disposed of in the trench (contaminated soil), and the location beneath the 224-UA building.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision.									

UPR-200-W-4, Railroad Contamination, UN-200-W-4

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44)	CERCLA EE/CA	X	Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	- If railroad tracks are to be decommissioned, then this effort would likely result in removal of residual soil contamination.	CERCLA EE/CA		Action Memorandum		yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		no		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- The release is not physically marked or posted. - Site is associated with windblown contaminated resulting from railroad transport of contaminated equipment from 221-T Building to the 218-W-1A Heavy Equipment Burial Ground.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Contamination specks were found along RR tracks with beta/gamma readings averaging 7 mrem/hr. - Dust readings up to 10,000 cpm in 1949.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- In 1949, contamination spread from a burial box that had been transported from the 221-T Canyon Building to the 218-W-1A Heavy Equipment Burial Ground.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- Beta/gamma readings averaging 7 mrem/hr. - Dust readings up to 10,000 cpm in 1949.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Based on site history only shallow soil contamination expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (due to wind-blown nature of release).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected due to wind-blown nature of release.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Sufficient data and information exists to support remedy decision.									

UPR-200-W-41, Railroad Contamination, UN-200-W-41, REDOX Railroad Cut Contamination

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44). - Decontamination of asphalt surface at 16th Avenue rail crossing to less than 1,000 cpm was performed. - Interim stabilization material (0.6 - 2.1 m) added in 1997 and 2000 and Site downgraded to URM.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No. Site associated with 202-S and UPR-200-W-42.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site extends alongside railroad tracks from 202-S Building railroad cut to the burial ground. - Posted as URM.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Initial surveys indicated 100 to 500 mrad/hr along the east side of the railroad tracks diminishing from 19th Avenue to burial ground.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov. 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- On July 7, 1956 during transit of a box containing the J-5 Filter and misc equipment from the 202-S Building, radiological contamination was released from a burial box. - Other potential source includes material associated with transfer of irradiated fuel rods to REDOX Facility.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination potentially present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Spotty contamination up to 1,000 mrad/hr at the surface was spread along the railroad right-of-way from the 202-S Building railroad cut to the burial grounds.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report	X			Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis, but expect contamination to occur in near-surface soil just below stabilization material.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (small nature of release)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information exists to support remedy decision.								

UPR-200-W-46, Contaminated Railroad Track, H-2 Centrifuge Burial, UN-200-W-46

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44). - Stabilization material added from 202-D Tunnel to REDIX facility in mid 1980s. Approximately (0.6 m) added from 202-S Building to first gravel road crossing in 1997. '- Consolidated with three other sites for RTD cost evaluation for MG-1.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Contamination extends along railroad tracks from REDOX facility, 234-5Z, and 224-U Plant facilities.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	No site-specific radiological surveys appear to have been performed but the H-2 Centrifuge was contaminated to 185 mrads/hr at 580 ft, and 2 mrads/hr at a distance of 0.5 miles.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Airborne contamination released by fumes during transport of H-2 centrifuge in burial box to the burial ground on December 30, 1957.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual near-surface soil contamination potentially present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No field radiological survey or sampling and analysis. Based on site history, soil contamination expected to be less than 15 ft bgs.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No field radiological survey or sampling and analysis. Based on site history, soil contamination expected to be less than 15 ft bgs.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (small nature of release)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information exists to support remedy decision.								

UPR-200-W-51, Release from 241-S Diversion Box, UN-200-W-51, UPR-200-W-52

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	MG-1 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Remedy not implemented	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other: Proposed Plan						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	This release extended into a portion of UPR-200-W-165 which was interim stabilized and removed from radiological posting. Unplanned release UPR-200-W-52 occurred 3 days after the release of UPR-200-W-51 at the same location.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The release site is not currently marked or posted. The area where this release had been located (in 1958) is near an area that was surface stabilized in 1992 (UPR-200-W-165).The contamination spread southward from the 241-S-151 Diversion Box (inside the 241-S tank farm) to approximately 30 meters (100 feet) beyond the 200 West Area fence. The plume was approximately 100 meters (300 feet) wide.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No.
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Yes. The presence of contamination is confirmed in historical documentation.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c.	On September 12, 1958, high pressure steam was applied to the D-8 line of the 241-S Diversion box in an	Waste Stream Analysis						Same Plant		No.
		Process Description	X					Same Process		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Process waste water, d. Sanitary waste water)	attempt to unplug it. The pressure bled back into the diversion box and caused a release of contamination. A follow up survey revealed contamination readings up to 1 rad/hour immediately around the box. Contamination levels 30 meters (100 feet) south of the diversion box were 50 milirad per hour. A narrow strip of contamination extended southward, across Tenth Street, with contamination levels of 4,000 counts per minute. The contamination continued southward approximately 91 meters (300 ft) beyond the 200 West Area fence. The particles outside of the 200 West Area fence read on the order of 5,000 counts per minute. The contaminated areas were posted and the gross contamination was flushed with water.	Incident Report	X					Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Beta/gamma particulates with readings up to 50 millirads/hour within 100 feet (30.48 meters) of the diversion box and readings on Tenth Street to about 4,000 counts/minute and 5,000 counts per minute outside the fence were documented. Beta/gamma readings of up to 1 rad/hour were identified immediately around the 241-S-151 Diversion Box. Specific contaminants were not identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report	X			Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	The site dimensions are 525 m (1,722 ft) long by 91 m (300 ft) wide. WIDS reports that the original release in 1958 was 300 m (984 ft) wide and extended 91 m (300 ft) south of the fence. HW-60807 reports the original width as 91 m (300 ft). The distribution of affected media within this area has not been characterized. Based on site history, soil contamination expected to be less than 15 ft bgs.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report	X			Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts -No	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No.
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	No. Based on the contamination being surface contamination no deep vadose zone impacts are expected. Historical documentation notes that water was used to flush gross contamination. The volume of water discharged or location is not noted. Use of water during decontamination efforts could have mobilized contamination deeper into the vadose zone.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		Yes. Because water was used in decontamination efforts, shallow characterization data collection activities should be used to determine if there is a need to collect samples deeper in the vadose zone.
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision.									

UPR-200-W-60, Railroad Contamination, UN-200-W-60

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	UPR 200-W-60 was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for selected for this site was removal, treatment, and disposal (RTD).	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-RL-2003-24)	X	0.3 m (12 inches) of interim stabilization cover (gravel) was installed in 2001 (BHI-01612 Rev. 0)				
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	A portion of this Site is located within the proposed footprint of the U Plant Canyon barrier. This Site is co-located with the UPR-200-W-117 Unplanned release site.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The site extends from the 221-U tunnel door along the railroad tracks for a distance of about 68.6 meters (225 feet)	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Radioactivity along the railroad track ranged from a few thousand counts per minute to a maximum of 1 rad/hour. The release effected approximately 68 meters (225 feet) of rail road track. In 1966, the contamination was isolated and cleaned.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	On February 25, 1966, contaminated water dripped from a hole in the bottom of a PUREX equipment transfer box as the box was being pulled from the 221-U Building tunnel.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report	X					Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling data identified.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	An area extending from the tunnel door to a point approximately 68 meters (225 feet) down the railroad track was posted as a contamination Area. WIDS reports the site width as 6 m (20 ft).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report	X			Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None. The site has no history of vadose zone contamination or groundwater contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Sufficient data and information exists to support remedy decision. RTD decision is documented in DOE/RL-2003-23 and DOE/RL-2003-24. The site is partially located within the proposed footprint of the U Plant Canyon barrier. Additional characterization has been proposed under the Sampling and Analysis Plan for the U Plant Canyon Proximal Waste Sites.									

UPR-200-W-63, Road Contamination Along the South Shoulder of 23rd Street, UN-200-W-63

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- Contamination on road surface removed in 1966 while contamination on shoulder was covered with 6-inches of clean fill. - MG-1 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site is not posted or marked. - Site extends from 500 west of R/R crossing on 23rd Street and extends east to intrx of 23rd Street with Bridgeport for a total length of 3475 ft. - Contamination occurs along south road shoulder. - Hanford coordinates are N43175 W74025 to N43175 to W77500.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Area removed from radiation zone status in 1972. '- Sr-90 activity estimated at 1 Curie. - Spots of contamination up to 500 mrad/hr removed from the road surface.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- On Sept 21, 1966 Sr-90 in the form of particulate matter spread from a used diversion box jumper as it was being transported from the 200 West Dry Burial Ground to the 221-T Canyon Building. The jumper had been previously removed from the 241-TX-153 Diversion Box.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- Sr-90 activity estimated at 1 Curie. - Spots of contamination up to 500 mrad/hr removed from the road surface.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis. Based on site history, soil contamination expected to be less than 15 ft bgs.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (due to wind-blown nature of release).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected due to wind-blown nature of release.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information exists to support remedy decision.								

UPR-200-W-65, Contamination in the T-Plant Railroad Cut, UN-200-W-65

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44).	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is in close proximity to 221-T Building	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site location extends from from tunnel door to 375 ft from tunnel door. - Majority of contamintion occurs at one location 150 ft from tunnel door in 3 ft x 10 ft area. - Posted contamination area.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Field rad survey detected 5,000 c/m to 150 mrads/hr within defined area.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Suspected to be associated with release from railcar not effectively contained.	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination likely present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Field rad survey detected 5,000 c/m to 150 mrads/hr within defined area.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis, but no soil contamination greater than 15 ft bgs expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (due to wind-blown nature of release).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected due to wind-blown nature of release.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision.									

UPR-200-W-67, Contamination Near 2706-T, UN-200-W-67

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- MG-1 EE/CA identified confirmation sampling and no further action as preferred remedial alternative. - Covered with clean gravel (per CSM in project library folder).	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site lies adjacent on north side of 2706-T Building.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site is marked with a single post with a WIDS site number sign. Sign adjacent to MO433 trailer. - Located on north side of 2706-T Building. - Measures 3 ft x 24 ft.	Process Description		Known Coordinates		Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Beta/gamma readings up to 20,000 cpm on ground surface.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste	Contamination resulted from contaminated equipment temporarily placed in this area.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Potential for residual soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- Beta/gamma readings up to 20,000 cpm on ground surface.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis, but no soil contamination greater than 15 ft bgs expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (due to nature of release drippage from equipment).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected due to wind-blown nature of release.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision.									

UPR-200-W-71, UN-200-W-71, Contamination Spread from 16th Street to Dayton Ave.

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- Roadway was cleaned and released (WIDS) per Radiation Occurrence Report #74-01-04. - MG-1 EE/CA identified confirmation sampling and no further action as preferred remedial alternative.	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other	X	Other				??	X	
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other				??		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site location described along roadway. - Coordinates provided in WIDS for beginning and end of estimated release location. - Included 16th St and Dayton Avenue	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Contamination initially present following release up to 100,000 cpm but cleanup performed.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
		Incident Report	X	Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	- Heel-jet from 102-U Tank in transit from 241-U Tank Farm to 200 West Burial Ground (1/24/74). -Activity up to 100,000 cpm	Waste Stream Analysis				Radiation Survey	X	Same Plant		No
		Process Description	X					Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	- Residual soil contamination along edge of roadway may be present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- Up to 100,000 cpm.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis, but no soil contamination greater than 15 ft bgs expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (small/dispersed nature of release)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
receptors identified)						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	Sufficient data and information exists to support remedy decision.									

UPR-200-W-73, Contaminated Railroad Track at 221-T, UN-200-W-73

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	RTD identified as preferred remedial alternative in MG-1 EE/CA (DOE/RL-2008-44)	CERCLA EE/CA	X	Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Site is in close proximity to 221-T and 27-6-T Buildings.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site is located along R/R tracks extending from 221-T Building to the 2706-T Building. - Apprx 1200 ft long section of R/R track.	Process Description		Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- A field rad survey revealed contamination up to 40 mrad/hr on the ground.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste	On Oct 16, 1974, contamination spread from a leaking multi-purpose transfer box was discovered.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- A field rad survey revealed contamination up to 40 mrad/hr on the ground.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis, but no soil contamination greater than 15 ft bgs expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (due to nature of release).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected due to wind-blown nature of release	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information exists to support remedy decision.								

UPR-200-W-76, UN-200-W-76, Contamination Found at 241-TX-155

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	An area approximately 300 ft by 150 ft around the diversion box was cleaned of contaminated rabbit dropping and soil and then backfilled with clean soil.	CERCLA EE/CA		Action Memorandum		Yes	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified	X	
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The site is associated with the 241-TX-155 and 241-TX-152 Diversion Box	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site surrounds the 241-TX-155 Diversion Box and is shown on site map. - Marked and posted with Bio-Barrier and URM signs.	Process Description		Known Coordinates		Relative to defined landmark				No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Radioactive	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste	Process waste water leaks from 241-TX-155 Diversion Box,	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Radioactive contaminated soil and rabbit feces. The rabbit feces were removed and the contaminated soils on the east side of the 241-TX-152 Diversion Box were excavated to the extent possible and backfilled with clean soil.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- Contaminated rabbit feces with readings as high as 100 millirads/hour - Small spots within a 500 ft radius around the 241-TX-152 Diversion Box with readings between 500 to 100,000 millirads/hour	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	-Primarily within an area of about 300 ft by 150 ft. - Additional spotty contamination extending in a 500 ft radius around the 241-TX-152 Diversion Box.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no (wastewater release volume should be low)	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected (wastewater release volume should be low).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need?	**N**	Sufficient data and information exists to support remedy decision.								

UPR-200-W-78, UO3 Powder Spill at 224-U, UN-200-W-78

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	UPR 200-W-78 was evaluated as part of the Focused Feasibility Study for the 200-UW-1 OU (DOE-RL-2003-23). The preferred remedy for selected for this site was to maintain the existing soil cover, institutional controls and monitored natural attenuation.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other: Proposed Plan (DOE-	X					
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	UPR-200-W-78 is located within the proposed footprint of the U Plant Canyon barrier.	CERCLA EE/CA		Action Memorandum				Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete	X	
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	The Site is located approximately 36 m (118 ft) south of the Uranium Tri-Oxide barrel storage area. The site is no longer marked or posted.	Process Description	X	Known Coordinates		Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	On August 21, 1970 a radiation survey done with a truck mounted road monitor. The equipment detected an area measuring approximately 3.72 square meters (40 square feet) contaminated with levels up to 20,000 counts/minute. A radiation occurrence report dated August 21, 1970 reports that all of the contaminated soil was removed.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste	It is assumed that some uranium tri-oxide powder spilled prior to March 1969, when the last pallets were moved from 224-U.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No sampling data identified, but no soil contamination greater than 15 ft bgs expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	An area measuring approximately 4 m^2 (40 ft^2) was identified by radiation survey. The contaminated soil was reportedly removed.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report	X			Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH: 0-3 ft - Yes HH: 0-15 ft - Yes Eco: 0-10 ft - Yes Groundwater Impacts - None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey	X	Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None. The site has no history of vadose zone contamination or groundwater contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision. Previous remedy decision is documented in DOE/RL-2003-23 and DOE/RL-2003-24. The site is located within the proposed footprint of the U Plant Canyon barrier. Additional characterization has been proposed under the Sampling and Analysis Plan for the U Plant Canyon Proximal Waste Sites.									

UPR-200-W-82, UN-200-W-82, Contamination Spread at 240-S-151

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	In 1980, the area around the 240-S-151 Diversion Box was covered with Fabro Film and some specks beyond the radiation zone were removed and taken to a burial ground.	CERCLA EE/CA		Action Memorandum		Yes	X	Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Radiation Occurrence Facts	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the nearby 240-S-151 Diversion Box and the 240-S-302 Catch Tank would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		NA
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Location shown on site map - Located on the north and east side of the 240-S-151 Diversion Box and the 240-S-302 Catch Tank, on the north side of the REDOX facility (202-S) - Marked and posted with radiation warning signs.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description		Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Radioactive contamination	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	The release consisted of beta/gamma particulates that spread from a contaminated piece of equipment, with readings up to 80, 000 counts per minutes found outside the radiation zone.	Waste Stream Analysis						Same Plant		No
		Process Description						Same Process		
		Incident Report	X					Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Contaminants in soil.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- Up to 60,000 disintegrations per minute inside the radiation zone - Up to 80,000 counts per minute out side the radiation zone	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	- The contamination area is about 60ft by 35 ft on the north and east side of 240-S-151 Diversion Box. - Specks beyond the radiation zone were removed and taken to a burial ground in 1980 and the contamination within the radiation zone was covered by Fabri Film	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report	X			Scintillation Log		Same Site Type		

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
of affected media)	within the radiation zone was covered by Fabri Film.					Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes HH - 0 to 15 ft = yes Eco - 0 to 10 ft = yes Groundwater impacts = no	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report	X	Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected based on the release mechanisms.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision.									

UPR-200-W-99, UN-216-W-7, 241-153-TX Diversion Box Contamination Spread, UN-200-W-99

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	- Site covered with 1 ft of clean soil. - Road surface was covered with new tar mat. - Field to east of Camden was turned over and later surface stabilized. In 1976 road grader used to turn material over into windrows. Test plots revealed Sr-90 particles.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No		Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	- Site is located along Camden Avenue. - Coordinates listed at N40750/W754000, N41500/W752000. - Contamination extends 250 yds north and south along Camden Ave and extending from 750-100 yds east of Camden Avenue. - Marked with URM signs.	Process Description		Known Coordinates	X	Relative to defined landmark	X			No
		Site description	X	Air Photo						
		Engineering Drawings		LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	- Maximum readings up to 700 mrad/hr were detected along road.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Ongoing Investigation (as of		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Two plumes or airborne contamination that floated NE and SE from 153-TX Diversion Box.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Residual soil contamination likely present.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey	X	Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	- Maximum readings up to 700 mrad/hr were detected along road.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey	X	Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No sampling and analysis, but no soil contamination greater than 15 ft bgs expected.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	HH - 0 to 3 ft = yes. HH - 0 to 15 ft = yes. Eco - 0 to 10 ft = yes. Groundwater impacts = no (due to nature of release).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	None expected	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	None expected due to wind-blown nature of release.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings		Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Sufficient data and information exists to support remedy decision.									

200-E-14, 216-BC-201 Siphon Tank, 216-B-201, IMUST, Inactive Miscellaneous Underground Storage Tank

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	200-BC-1 OU previously evaluated in CERCLA RI/FS/PP. Documents not published. Evaluated in previous Proposed Plan, RTD was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS	X	Permit Modification				Incomplete		
		Other: Treatability Test	X	Other				??		
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	A cover remedy for the 216-B-14 through -19 Cribs could affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo	X					
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Tank design indicates likelihood for substantial residual heel of tank waste supernatant.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?		Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?		Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B tank farms	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	No information regarding leaks from the tank is available. The tank contents flowed to the BC Cribs and was released to the vadose zone.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	No information regarding leaks from the tank is available. The tank contents flowed to the BC Cribs and was released to the vadose zone.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	No information regarding leaks from the tank is available. The tank contents flowed to the BC Cribs and was released to the vadose zone.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	No information regarding leaks from the tank is available. The tank contents flowed to the BC Cribs and was released to the vadose zone. Hypothetical near-surface receptors are identified relative to tank contents.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	Yes; bottom of tank and siphon drain are greater than 15 ft below ground surface.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? N	No information regarding presence or absence of release to the vadose zone from the tank, however due to proximity to cribs and identical waste streams, vadose contamination from this tank would be indistinguishable from the cribs. The entire waste volume discharged to the 6 BC Cribs passed through this tank. The bottom of the tank is greater than 4.6 m (15 ft) below ground surface.									

216-B-14, 216-BC-1 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other				??		
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No nearby separate remedies are planned.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on groundwater monitoring from one well, 19 direct push holes with gamma logging. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125. Gross beta, nitrate, and sodium in groundwater.	Waste Stream Analysis	X	Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Crib received 8.7 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to depth greater than 33 m (100 ft) bgs. Historical groundwater monitoring indicates crib-related groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by direct measurements of vadose conditions.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by existing measurement and observation data.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to this crib (eco and HH). Groundwater protection is a concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type		
Data Needs Summary										
Data Need? **N**	Characterization at this site is sufficient to support remedy decisoin and this site supports evaluation of the other 5 BC Crib waste sites.									

216-B-15, 216-BC-2 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No nearby separate remedies are planned.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on groundwater monitoring from one well and characterization of nearby 216-B-14 Crib. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125. Gross beta and sodium impacts to groundwater.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Crib received 6.3 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to depth greater than 33 m (100 ft) bgs. Historical groundwater monitoring indicates crib-related groundwater impacts. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of nearby 216-B-14 Crib. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of nearby 216-B-14 Crib. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and historical groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-14 Crib.									

216-B-16, 216-BC-3 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Remedy not implemented		Complete and Verified		
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	The same remedy is preferred for the other five BC Cribs.	CERCLA EE/CA		Action Memorandum				Complete and Verified		
		CERCLA RI/FS		Record of Decision (interim or final)				Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented within 200-BC-1 OU, south of 200 East Area.	Process Description	x	Known Coordinates	x	Relative to defined landmark	x			No
		Site description	x	Air Photo	x					
		Engineering Drawings	x	LIDAR	x					
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on groundwater monitoring from one well and characterization of one vadose well at the crib and characterization at nearby 216-B-14 Crib. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125. Gross beta and sodium impacts to groundwater.	Waste Stream Analysis	x	Sampling & Analysis		Non-specific Measurements	x	Same Plant	x	No
		Process Description	x	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	x	
		Shallow (<15 ft bgs)?	x	Groundwater Impacts	x	Scintillation Log	x	Same Site Type	x	
		Deep (>15 ft bgs)?	x	Spectral Gamma Log	x	Shallow (<15 ft bgs)?	x			
				Shallow (<15 ft bgs)?	x	Deep (>15 ft bgs)?	x			
				Deep (>15 ft bgs)?	x					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Crib received 5.6 million liters of waste.	Waste Stream Analysis						Same Plant		
		Process Description						Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to depth greater than 33 m (100 ft) bgs. Historical groundwater monitoring indicates crib-related groundwater impacts. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of nearby 216-B-14 Crib. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements	x	Same Plant	x	No
		Process Description		Spectral Gamma Log	x	Radiation Survey		Same Process	x	
		Incident Report				Scintillation Log		Same Site Type	x	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of one vadose well and nearby 216-B-14 Crib. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	x	Same Plant	x	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	x	
		Incident Report				Scintillation Log		Same Site Type	x	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	x	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	x	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	x	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	x	Sampling & Analysis		Non-specific Measurements		Same Plant	x	No
		Process Description	x	Groundwater Impacts		Radiation Survey		Same Process	x	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	x	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and historical groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	x	Non-specific Measurements	x	Same Plant	x	No
		Process Description	x	Groundwater Impacts	x	Radiation Survey		Same Process	x	
		Engineering Drawings	x	Spectral Gamma Log		Scintillation Log		Same Site Type	x	

Data Needs Summary		
Data Need?	**N**	Characterization at this site is based on historical groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-14 Crib. No additional data needs are identified to support a remedial action decision.

216-B-17, 216-BC-4 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No nearby separate remedies are planned.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on groundwater monitoring from one well and characterization of one vadose well at the crib and characterization at nearby 216-B-14 Crib. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125. Gross beta and sodium impacts to groundwater.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Crib received 3.4 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to depth greater than 33 m (100 ft) bgs. Historical groundwater monitoring indicates crib-related groundwater impacts. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of nearby 216-B-14 Crib. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of one vadose well and nearby 216-B-14 Crib. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and historical groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-14 Crib.									

216-B-18, 216-BC-5 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	No nearby separate remedies are planned.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on groundwater monitoring from one well and characterization of one vadose well at the crib and characterization at nearby 216-B-14 Crib. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125. Gross beta and sodium impacts to groundwater.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Crib received 8.5 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to depth greater than 33 m (100 ft) bgs. Historical groundwater monitoring indicates crib-related groundwater impacts. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of nearby 216-B-14 Crib. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of one vadose well and nearby 216-B-14 Crib. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and historical groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-14 Crib.									

216-B-19, 216-BC-6 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on groundwater monitoring from one well and characterization of one vadose well at the crib and characterization at nearby 216-B-14 Crib. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125. Gross beta and sodium impacts to groundwater.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms (Process liquid waste), Crib received 6.4 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to depth greater than 33 m (100 ft) bgs. Historical groundwater monitoring indicates crib-related groundwater impacts. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of nearby 216-B-14 Crib. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of one vadose well and nearby 216-B-14 Crib. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and historical groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	Characterization at this site is based on historical groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-14 Crib.									

216-B-20, 216-BC-7 Trench, 216-B-20 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on historical vadose monitoring , gamma logging of vadose wells, one groundwater monitoring well, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125. Gross beta, nitrate, and sodium impacts to groundwater.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 4.7 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to depth of about 33 m (100 ft) bgs. Historical groundwater monitoring suggests potential groundwater impacts. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of nearby 216-B-26 Trench. Historical vadose gamma monitoring and soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by gamma profile in two vadose wells and characterization at 216-B-26 Trench. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	

Data Needs Summary

Data Need?	**N**	Characterization at this site is based on historical vadose monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench. Estimated vadose zone pore volume for this site = 152 m x 3 m x 102 m x 0.30 = 13,964 m3 x 1000 l/m3 = 13,953,000 L Waste discharged to crib = 4,700,000 L of waste = 0.34 vadose zone pore volumes.

216-B-21, 216-BC-8 Trench, 216-B-21 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on historical vadose monitoring , gamma logging of vadose wells, one groundwater monitoring well, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125. Gross beta, nitrate, and sodium impacts to groundwater.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 4.8 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to depth of about 33 m (100 ft) bgs. Historical groundwater monitoring suggests potential groundwater impacts. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of nearby 216-B-26 Trench. Historical vadose gamma monitoring and soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by gamma profile in two vadose wells and characterization at 216-B-26 Trench. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench. E									

216-B-22, 216-BC-9 Trench, 216-B-22 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on historical vadose monitoring , gamma logging of vadose wells, one groundwater monitoring well, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125. Gross beta, nitrate, and sodium impacts to groundwater.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 4.8 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to depth of about 33 m (100 ft) bgs. Historical groundwater monitoring suggests potential groundwater impacts. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of nearby 216-B-26 Trench. Historical vadose gamma monitoring and soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by gamma profile in two vadose wells and characterization at 216-B-26 Trench. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-23, 216-BC-10 Trench, 216-B-23 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on historical vadose monitoring , gamma logging of vadose wells, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 4.5 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to expected to depth of about 33 m (100 ft) bgs. Soil resistivity survey confirm\s soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of nearby 216-B-26 Trench. Historical vadose gamma monitoring and soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by gamma profile in one vadose well and characterization at 216-B-26 Trench. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-24, 216-BC-11 Trench, 216-B-24 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on historical vadose monitoring , gamma logging of vadose wells, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 4.7 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to expected to depth of about 33 m (100 ft) bgs. Soil resistivity survey confirm\s soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of nearby 216-B-26 Trench. Historical vadose gamma monitoring and soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by gamma profile in one vadose well and characterization at 216-B-26 Trench. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-25, 216-BC-12 Trench, 216-B-25 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on historical vadose monitoring , gamma logging of vadose wells, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 3.76 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination to expected to depth of about 33 m (100 ft) bgs. Soil resistivity survey confirm\s soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of nearby 216-B-26 Trench. Historical vadose gamma monitoring and soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by gamma profile in one vadose well and characterization at 216-B-26 Trench. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	

Data Needs Summary

Data Need? N	Characterization at this site is based on historical vadose monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.

216-B-26, 216-BC-13 Trench, 216-B-26 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on historical vadose monitoring , gamma logging of vadose wells, detailed vadose characterization utilizing 31 borings and wells, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log	X	Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 5.9 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination observed to depth of about 45 m (148 ft) bgs. Soil resistivity survey confirm\s soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts	X	Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 1 deep and 30 shallow boreholes at this trench. Historical vadose gamma monitoring and soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 1 deep and 30 shallow boreholes at this trench. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-27, 216-BC-14 Trench, 216-B-27 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on historical vadose monitoring of two wells, gamma logging, detailed vadose characterization of neighboring 216-B-26 Trench, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey	X	Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log	X	Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?	X			
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 4.4 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination observed to depth of about 33 m (100 ft) bgs. Soil resistivity survey confirm\s soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description		Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log	X	Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 1 deep and 30 shallow boreholes at this trench. Historical vadose gamma monitoring and soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant		No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 1 deep and 30 shallow boreholes at this trench. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-28, 216-BC-15 Trench, 216-B-28 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on detailed vadose characterization of nearby 216-B-26 Trench, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 5.1 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination expected to depth of about 33 m (100 ft) bgs. Soil resistivity survey confirm\s soil contamination. Two nearby groundwater monitoring wells (299-E13-13 & E13-19) suggest groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 Trench. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 trench. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-29, 216-BC-16 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on detailed vadose characterization of nearby 216-B-26 Trench, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 4.8 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination expected to depth of about 33 m (100 ft) bgs. Soil resistivity survey confirm\s soil contamination. One upgradient nearby groundwater monitoring wells(299-E13-14) appears inconclusive regarding groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 Trench. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 trench. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-30, 216-BC-17 Trench, 216-B-30 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on detailed vadose characterization of nearby 216-B-26 Trench, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 4.8 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination expected to depth of about 33 m (100 ft) bgs. Soil resistivity survey confirm\s soil contamination. One vadose monitoring well (299-E13-52) confirms radioactive contamination to the maximum depth investigated (28.6 m, 94 ft bgs).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 Trench and gamma measurements in one vadose well in the trench. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 trench and one vadose well. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-31, 216-BC-18 Trench, 216-B-31 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Previously assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on detailed vadose characterization of nearby 216-B-26 Trench, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 4.8 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination expected to depth of about 33 m (100 ft) bgs. Soil resistivity survey confirm\s soil contamination. One vadose monitoring well (299-E13-58) confirms radioactive contamination to the maximum depth investigated (15 m, 50 ft bgs).	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 Trench and gamma measurements in one vadose well near the trench. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 trench and one vadose well. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern. Groundwater monitoring wells 299-E13-15 & E-13-16 suggest historical groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description		Spectral Gamma Logs	X	Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-32, 216-BC-19 Trench, 216-B-32 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Previously assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on detailed vadose characterization of nearby 216-B-26 Trench, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 4.8 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination expected to depth of about 33 m (100 ft) bgs. Soil resistivity survey confirm\s soil contamination. One vadose monitoring well (299-E13-59) confirms radioactive contamination starting at a depth of about 6 m, 20 ft bgs.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 Trench and gamma measurements in one vadose well near the trench. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 trench and one vadose well. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern. Groundwater monitoring wells 299-E13-15 & E-13-16 suggest historical groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description		Spectral Gamma Logs		Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-33, 216-BC-20 Trench, 216-B-33 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Previously assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on detailed vadose characterization of nearby 216-B-26 Trench, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 4.7 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination expected to depth of about 33 m (100 ft) bgs. Soil resistivity survey confirm\s soil contamination. One vadose monitoring well (299-E13-60) confirms radioactive contamination starting at a depth of about 6 m, 20 ft bgs.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 Trench and gamma measurements in one vadose well near the trench. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 trench and one vadose well. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern. No groundwater monitoring wells directly associated with this trench.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts		Scintillation Log	X	Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log	X	Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-34, 216-BC-21 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Previously assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on detailed vadose characterization of nearby 216-B-26 Trench, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 4.9 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination expected to depth of about 33 m (100 ft) bgs. Soil resistivity survey confirm\s soil contamination. One nearby monitoring well exhibited radioactive contamination at the water table during drilling.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 Trench and gamma measurements and groundwater monitoring in four wells near the trench. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 trench and one vadose well. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern. Monitoring wells from four nearby groundwater wells suggests groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log	X	Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on historical vadose monitoring, groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-52, 216-B-52 Trench, 216-BC-22

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Previously assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Capping was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on detailed vadose characterization of nearby 216-B-26 Trench, and a general area soil resistivity survey. Contaminants of interest include nitrate, sodium, uranium, Tc-99, Cs-137, Co-60, and Sb-125.	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process	X	
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is scavenged tank waste supernatant originating from B and C tank farms, Trench received 8.5 million liters of waste.	Waste Stream Analysis	X					Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination expected to depth of about 33 m (100 ft) bgs. Soil resistivity survey confirm\s soil contamination. One vadose monitoring well (299-E13-60) confirms radioactive contamination starting at a depth of about 6 m, 20 ft bgs.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?	X			
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?	X			
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 Trench and gamma measurements and groundwater monitoring in two groundwater wells and one vadose well near the trench. Soil resistivity survey confirms soil contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 1 deep and 30 shallow boreholes at nearby 216-B-26 trench and one vadose well. Soil resistivity survey confirms contaminant distribution.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process	X	
		Incident Report				Scintillation Log	X	Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is of concern. Monitoring from two nearby groundwater wells suggests groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey		Same Process	X	
		Incident Report		Groundwater Impacts	X	Scintillation Log	X	Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Scavenged tank waste supernatant exhibited high pH (e.g., pH >10)	Waste Stream Analysis	X	Sampling & Analysis		Non-specific Measurements		Same Plant	X	No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process	X	
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site exhibits deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements	X	Same Plant	X	No
		Process Description	X	Groundwater Impacts	X	Radiation Survey		Same Process	X	
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log	X	Same Site Type	X	
Data Needs Summary										
Data Need? **N**	Characterization at this site is based on historical vadose monitoring, groundwater monitoring, soil resistivity survey, and detailed characterization of 216-B-26 Trench.									

216-B-53A, 216-B-53A Trench, PRTR Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Previously assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Remove/treat/dispose (RTD) was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test	X	Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on detailed vadose characterization of this trench by examination of 16 shallow boreholes to a depth of 7.6 m (25 ft) bgs and one shallow borehole to a depth of 15 m (50 ft) bgs. Cs-137 and Co-60 were present throughout the examined depth with observed maxima generally between 4.6 m (15 ft) bgs and 6 m (20 ft) bgs. No other nuclides were detected. Contaminants of interest include plutonium, Cs-137, and Co-60.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is decontamination waste water from cleanup of Plutonium Recycle Test Reactor (PRTR) in 300 Area following a fuel failure event. Trench received 549,000 liters of waste.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination expected to relatively shallow depth of less than 15 m (50 ft) bgs. Detailed examination of characterization results from this trench indicate the presence of shallow vadose radioactive contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 17 shallow boreholes at this trench by spectral gamma logging.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 17 shallow boreholes at this trench. Contamination generally less than 15 m (50 ft) bgs as inferred from spectral gamma logging.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is not a concern at this site due to the apparent shallow placement of contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	No unique geochemical aspects identified for this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site does not exhibit apparent deep vadose impacts or potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log	X	Scintillation Log		Same Site Type		

Data Needs Summary	
Data Need? N	Characterization at this site is sufficient to support remedy decision.

216-B-53B, 216-B-53 Trench, 216-B-53B Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Previously assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Remove/treat/dispose (RTD) was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on detailed vadose characterization of nearby 216-B-53A Trench. Cs-137 and Co-60 were present throughout the examined depth with observed maxima generally between 4.6 m (15 ft) bgs and 6 m (20 ft) bgs. No other nuclides were detected. Contaminants of interest include plutonium, Cs-137, and Co-60. 216-B-53A is expected to be a conservative representation of this trench.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is contaminated process waste water generated in the 300 Area between 1962 and 1963. Waste water was most likely transferred to the trench in tanker trucks. The trench received 15,100 liters of waste.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination expected to relatively shallow depth of less than 15 m (50 ft) bgs. Detailed examination of characterization results from nearby 216-B-53A Trench indicate the presence of shallow vadose radioactive contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 17 shallow boreholes at nearby 216-53A trench by spectral gamma logging.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 17 shallow boreholes at nearby 216-B-53A Trench. Contamination generally less than 15 m (50 ft) bgs as inferred from spectral gamma logging.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is not a concern at this site due to the apparent shallow placement of contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	No unique geochemical aspects identified for this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site does not exhibit apparent deep vadose impacts or potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? **N**	Characterization at this site is based on detailed characterization of the nearby 216-B-53A Trench.									

216-B-54, 216-B-54 Trench

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Previously assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. R emove/treat/dispose (RTD) was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on detailed vadose characterization of nearby 216-B-53A Trench. Cs-137 and Co-60 were present throughout the examined depth with observed maxima generally between 4.6 m (15 ft) bgs and 6 m (20 ft) bgs. No other nuclides were detected. Contaminants of interest include plutonium, Cs-137, and Co-60. 216-B-53A is expected to be a conservative representation of this trench.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type	X	
		Deep (>15 ft bgs)?	X	Spectral Gamma Log		Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?		Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?						
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is contaminated process waste water generated in the 300 Area during 1963. Waste water was most likely transferred to the trench in tanker trucks. The trench received 999,000 liters of waste.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type	X	
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination expected to relatively shallow depth of less than 15 m (50 ft) bgs. Detailed examination of characterization results from nearby 216-B-53A Trench indicate the presence of shallow vadose radioactive contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type	X	
				Shallow (<15 ft bgs)?		Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?		Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 17 shallow boreholes at nearby 216-B-53A Trench by spectral gamma logging.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 17 shallow boreholes at nearby 216-B-53A Trench. Contamination generally less than 15 m (50 ft) bgs as inferred from spectral gamma logging.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log		Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type	X	
						Modeling				
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is not a concern at this site due to the apparent shallow placement of contamination.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs		Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type	X	
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	No unique geochemical aspects identified for this waste site.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site does not exhibit apparent deep vadose impacts or potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis		Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is based on detailed characterization of the nearby 216-B-58 Trench.									

216-B-58, 216-B-58 Trench, 216-B-59 Crib

Data Need Category	Comments	Type of Evaluation?		Decision Document?		Remedy Implemented?		Remedy Complete?		Data Need
Previous Remedy Evaluation Performed for this site? (CERCLA EE/CA, CERCLA RI/FS, RCRA RFI/CMS, strategic/policy decision to address specific site or site types)	Previously assigned to 200-BC-1 OU. Draft FS and Proposed Plan prepared, not finalized. Remove/treat/dispose (RTD) was preferred remedy.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS	X	Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other: Treatability Test		Other						
Does a Planned remedy for a Nearby Site Affect This Site? (e.g., engineered barriers, large excavations, in situ treatment)	Remedial action for the other nearby BC Cribs and Trenches would affect this site.	CERCLA EE/CA		Action Memorandum		Yes		Complete and Verified		No
		CERCLA RI/FS		Record of Decision (interim or final)		No	X	Complete and not Verified		
		RCRA RFI/CMS		Permit Modification				Incomplete		
		Other		Other						

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Site Location Confirmed?	Site location is known and documented.	Process Description		Known Coordinates	X	Relative to defined landmark				No
		Site description		Air Photo						
		Engineering Drawings	X	LIDAR						
		Site Worker Interviews								
Contamination Present? (Process-related constituents >background concentration. Radioactive/non-radioactive/organic/inorganic)	Known vadose contamination present based on detailed vadose characterization of this site by 1 groundwater monitoring well, 2 shallow boreholes and 8 shallow direct push holes. Cs-137 and Co-60 were present to maximum depths of 30 m (98 ft) bgs and 11 m (36 ft) bgs, respectively. Other contaminants of interest include plutonium, Cr, Am-241, Np-237, Sr-90, H-3, As, Be. Characterization includes sampling and analysis and spectral gamma logging.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Ongoing Investigation (as of Nov 2010)		Radiation Survey		Same Process		
		Shallow (<15 ft bgs)?	X	Groundwater Impacts		Scintillation Log		Same Site Type		
		Deep (>15 ft bgs)?	X	Spectral Gamma Log	X	Shallow (<15 ft bgs)?				
				Shallow (<15 ft bgs)?	X	Deep (>15 ft bgs)?				
				Deep (>15 ft bgs)?	X					
Primary Source Identified? (a. Solid waste, b. Process liquid waste, c. Process waste water, d. Sanitary waste water)	Primary source is contaminated process waste water generated in the 300 Area. Waste water was transferred to the trench in tanker trucks from 1965 to 1967. The trench received 413,000 liters of waste.	Waste Stream Analysis						Same Plant		No
		Process Description	X					Same Process		
		Incident Report						Same Site Type		
Secondary Source(s) Identified? (a. NAPL, b. VOCs, c. Contaminants in soil, d. Surface contamination)	Vadose zone contamination expected to maximum observed depth of about 30 m (98 ft) bgs, with maximum concentrations generally observed between 4 and 8 m (13 and 26 ft) bgs.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log	X	Scintillation Log		Same Site Type		
				Shallow (<15 ft bgs)?	X	Shallow (<15 ft bgs)?				
				Deep (>15 ft bgs)?	X	Deep (>15 ft bgs)?				
Concentration Range Defined? (i.e., apparent maximum and minimum)	Contamination concentration is defined by characterization of 2 shallow boreholes and 8 shallow direct push holes by spectral gamma logging and sampling and analysis.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
Distribution in Affected Media Described? (i.e., extent of lateral and vertical contaminant distribution, estimated volume of affected media)	Contaminant distribution is defined by characterization of 2 shallow boreholes and 8 shallow direct push holes by spectral gamma logging and sampling and analysis. Contamination generally less than 30 m (98 ft) bgs, with highest concentrations between 4 and 8 m (12 to 26 ft) bgs.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Log	X	Radiation Survey		Same Process		
		Incident Report				Scintillation Log		Same Site Type		
						Modeling				

Data Need Category	Comments	Process Knowledge?		Direct Data?		Indirect Data?		Extrapolation from Similar Site?		Data Need
Exposure Scenario(s) Identified? (i.e., a. Migration Mechanisms Defined, b. Potential exposure points identified, c. Exposure routes identified, d. Potential receptors identified)	Hypothetical near-surface receptors are identified relative to soil contamination (eco and HH). Groundwater protection is a concern at this site due to the apparent downward movement of mobile contaminants.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Spectral Gamma Logs	X	Radiation Survey		Same Process		
		Incident Report		Groundwater Impacts		Scintillation Log		Same Site Type		
						Modeling				
Unique Geochemical Characteristics Identified? (e.g., presence of NAPLs, extreme pH conditions, mobility enhancing/retarding conditions)	Elevated pH was observed in part of this trench (e.g., pH <10)	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Incident Report		Spectral Gamma Log		Scintillation Log		Same Site Type		
Deep Vadose Impacts Present? >4.6 m [>15 ft] bgs)	This waste site does exhibit apparent deep vadose impacts and potential groundwater impacts.	Waste Stream Analysis		Sampling & Analysis	X	Non-specific Measurements		Same Plant		No
		Process Description	X	Groundwater Impacts		Radiation Survey		Same Process		
		Engineering Drawings	X	Spectral Gamma Log		Scintillation Log		Same Site Type	X	
Data Needs Summary										
Data Need? N	Characterization at this site is sufficient to support remedy decision.									