

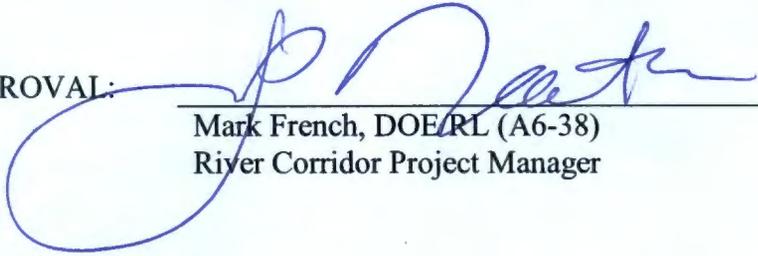
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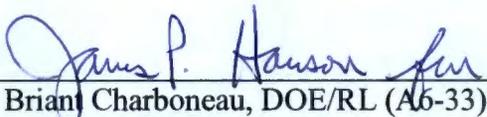
## 100/300 AREA UNIT MANAGER MEETING ATTENDANCE AND DISTRIBUTION

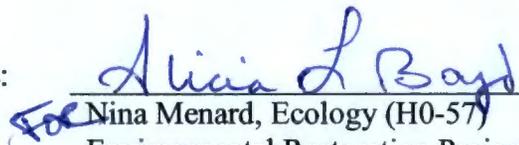
NAME	E-MAIL ADDRESS	MSIN	COMP
Childers, Heather	Original +1 copy	H6-08	ADREC
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Menard, Nina	NMEN461@ECY.WA.GOV	H0-57	ECO
Gadbois, Larry E	Gadbois.larry@epa.gov	B1-46	EPA
Hadley, Karl A	karl.hadley@wch-rcc.com	H4-21	WCH

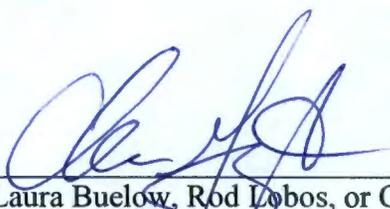
100/300 AREA UNIT MANAGERS MEETING  
APPROVAL OF MEETING MINUTES

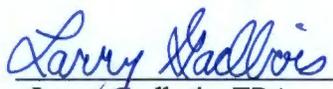
September 19, 2013

APPROVAL:  Date 11/14/13  
Mark French, DOE/RL (A6-38)  
River Corridor Project Manager

APPROVAL:  Date 11-14-2013  
Briant Charboneau, DOE/RL (A6-33)  
Groundwater Project Manager

APPROVAL:  Date 11-14-2013  
~~For~~ Nina Menard, Ecology (H0-57)  
Environmental Restoration Project  
Manager

APPROVAL:  Date 11/14/13  
Laura Buelow, Rod Lobos, or Christopher  
Guzzetti, EPA (B1-46)  
100 Area Project Manager

APPROVAL:  Date Nov 14 - 2013  
Larry Gadbois, EPA  
(B1-46)  
300 Area Project Manager

## 100 & 300 AREA UNIT MANAGER MEETING MINUTES

**Groundwater and Source Operable Units; Facility Deactivation, Decontamination, Decommission, and Demolition (D4); Interim Safe Storage (ISS); Field Remediation (FR); Mission Completion; and 100-K Sludge Treatment Project and 100-K Facility Demolition and Soil Remediation projects**

September 19, 2013

### ADMINISTRATIVE

- Next Unit Manager Meeting (UMM) – The next meeting will be held October 10, 2013, at the Washington Closure Hanford (WCH) Office Building, 2620 Fermi Avenue, Room C209.
- Attendees/Delegations – Attachment A is the list of attendees. Representatives from each agency were present to conduct the business of the UMM.
- Approval of Minutes – The August 8, 2013, meeting minutes were approved by the U.S. Environmental Protection Agency (EPA), Washington State Department of Ecology (Ecology), and U.S. Department of Energy, Richland Operations Office (RL).
- Action Item Status – The status of action items was reviewed and updates were provided (see Attachment B).
- Agenda – Attachment C is the meeting agenda.

### EXECUTIVE SESSION (Tri-Parties Only)

An Executive Session was not held by RL, EPA, and Ecology prior to the September 19, 2013, UMM.

### 100-B/C AREA (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 3 provides status and information for D4/ISS activities at 100-N, 100-D and 100-B. Attachment 4 provides a schedule for Field Remediation at 100-B/C Area. No issues were identified and no action items were documented.

Agreement 1: Attachment 5 provides EPA's concurrence with the approach for grouting the remaining sediment in place in the 105B fuel transfer pit. This information serves as a clarification to Revision 1 of the Air Monitoring Plan for the 105B Reactor Building and Revision 1 of the 105B Total Effective Dose Equivalent Calculation originally approved by DOE and EPA in November 2012.

### 100-K AREA (GROUNDWATER, SOILS, D4/ISS)

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 6 provides a schedule for Field Remediation at the 100-K Area. Attachment 7 provides a status of the 100-K Sludge Treatment Project and the 100-K Facility Demolition and Soil Remediation projects. No issues were identified and no agreements or action items were documented.

### **100-N AREA (GROUNDWATER, SOILS, D4/ISS)**

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 3 provides status and information for D4/ISS activities at 100-N, 100-D and 100-B. Attachment 8 provides the 100-N Area FR Schedule. Attachment 9 provides charts showing biovent well sample results for 199-N-171 and 199-N-169. No issues were identified and no action items were documented.

Agreement 1: Attachment 10 provides DOE's and Ecology's concurrences for the placement of clean inert debris from various 100-N locations into the 182-N subgrade foundation prior to backfill of the area "on a case-by-case" basis only and subject to certain stipulations.

Agreement 2: Attachment 11 provides DOE's and Ecology's concurrences to dig a couple of potholes at some stained areas of the 100-N-84:2 excavation to obtain additional sample data at depth and to place the excavated soil back into the pothole to alleviate associated fall hazards.

Agreement 3: Attachment 12 provides DOE's and Ecology's concurrences that only removing the 100-N-104 spillway to the ordinary high water mark, similar to the agreement for the 100-N-79 spillway, was acceptable.

Agreement 4: Attachment 13 provides DOE's and Ecology's concurrences to backfill a small portion of the 100-N-63:2 pipeline excavation south of the bioventing well 199-N-172 to alleviate the fall hazard associated with accessing this well.

### **100-D & 100-H AREAS (GROUNDWATER, SOILS, D4/ISS)**

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 14 provides the Field Remediation Schedule for 100-D and 100-H. Attachment 3 provides status and information for D4/ISS activities at 100-N, 100-D and 100-B. No issues were identified and no agreements or action items were documented.

### **100-F & 100-IU-2/100-IU-6 AREAS (GROUNDWATER, SOILS, D4/ISS)**

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. Attachment 15 provides the Field Remediation Schedule for IU-2/6. No issues were identified and no agreements or action items were documented.

### **300 AREA - 618-10/11 (GROUNDWATER, SOILS)**

Attachment 1 provides status and information for groundwater. Attachment 2 provides status and information for Field Remediation activities. No issues were identified and no agreements or action items were documented.

### **300 AREA - GENERAL (GROUNDWATER, SOILS, D4/ISS)**

Attachment 1 provides status and information for groundwater. Attachment 16 provides status of the 300 Area Closure Project activities. No issues were identified and no agreements or action items were documented.

### **MISSION COMPLETION PROJECT**

Attachment 17 provides status and information regarding the Long-Term Stewardship, the 100-K Shoreline Characterization Sample Design, and a Document Review Look-Ahead. No issues were identified and no agreements or action items were documented.

### **ANNUAL INSTITUTIONAL CONTROLS EVALUATION**

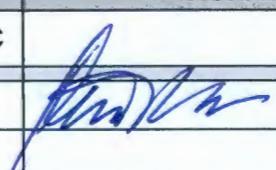
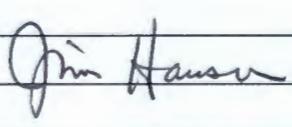
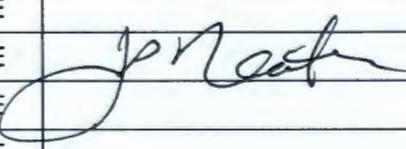
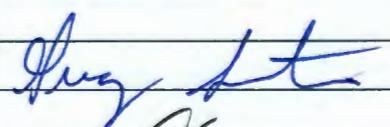
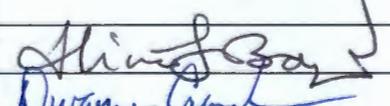
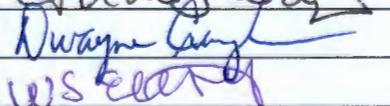
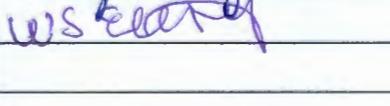
Attachment 18 provides the “2013 Annual Sitewide Institutional Controls (IC) Review - River Corridor Contractor.” The results will be incorporated into the *Sitewide Assessment of Institutional Controls for Calendar Year 2013*. No issues were identified and no agreements or action items were documented.

# Attachment A

100/300 AREA UNIT MANAGER MEETING

ATTENDANCE AND DISTRIBUTION

September 19, 2013

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Cearlock, Christopher S	cscearlo@wch-rcc.com	H4-22	WCH	



# Attachment B

100/300 Area UMM  
Action List  
September 19, 2013

Open (O)/ Closed (X)	Action No.	Co.	Actionee	Project	Action Description	Status
O	100-198	RL	M. Thompson	100-N	DOE will sample the C7935 and C7936 aquifer tubes at 100-N Area in August 2013. If the sample results are high or inclining, or if the sample results are not available, the samples will be repeated in September 2013.	Open: 5/9/13; Action:

# Attachment C

100/300 Area Unit Manager Meeting  
September 19, 2013  
Washington Closure Hanford Building  
2620 Fermi Avenue, Richland, WA 99354  
Room D109; 2:00p.m.

**Administrative:**

- Approval and signing of previous meeting minutes (August 8, 2013)
- Update to Action Items List
- Next UMM (10/10/2013, Room C209)

**Open Session: Project Area Updates - Groundwater, Field Remediation, D4/ISS:**

- 100-B/C Area (Greg Sinton, Tom Post)
- 100-K Area (Jim Hanson, Ellwood Glossbrenner, Roger Quintero)
- 100-N Area (Joanne Chance, Rudy Guercia, Mike Thompson)
- 100-D & 100-H Areas (Jim Hanson, Tom Post, Elwood Glossbrenner)
- 100-F & 100-IU-2/6 Areas (Greg Sinton, Tom Post, Ellwood Glossbrenner)
- 300 Area - 618-10/11 exclusively (Jamie Zeisloft)
- 300 Area (Mike Thompson/Rudy Guercia)
- Mission Completion Project (Jamie Zeisloft)

**Special Topics/Other**

- Annual Institutional Controls Evaluation (Jamie Zeisloft)

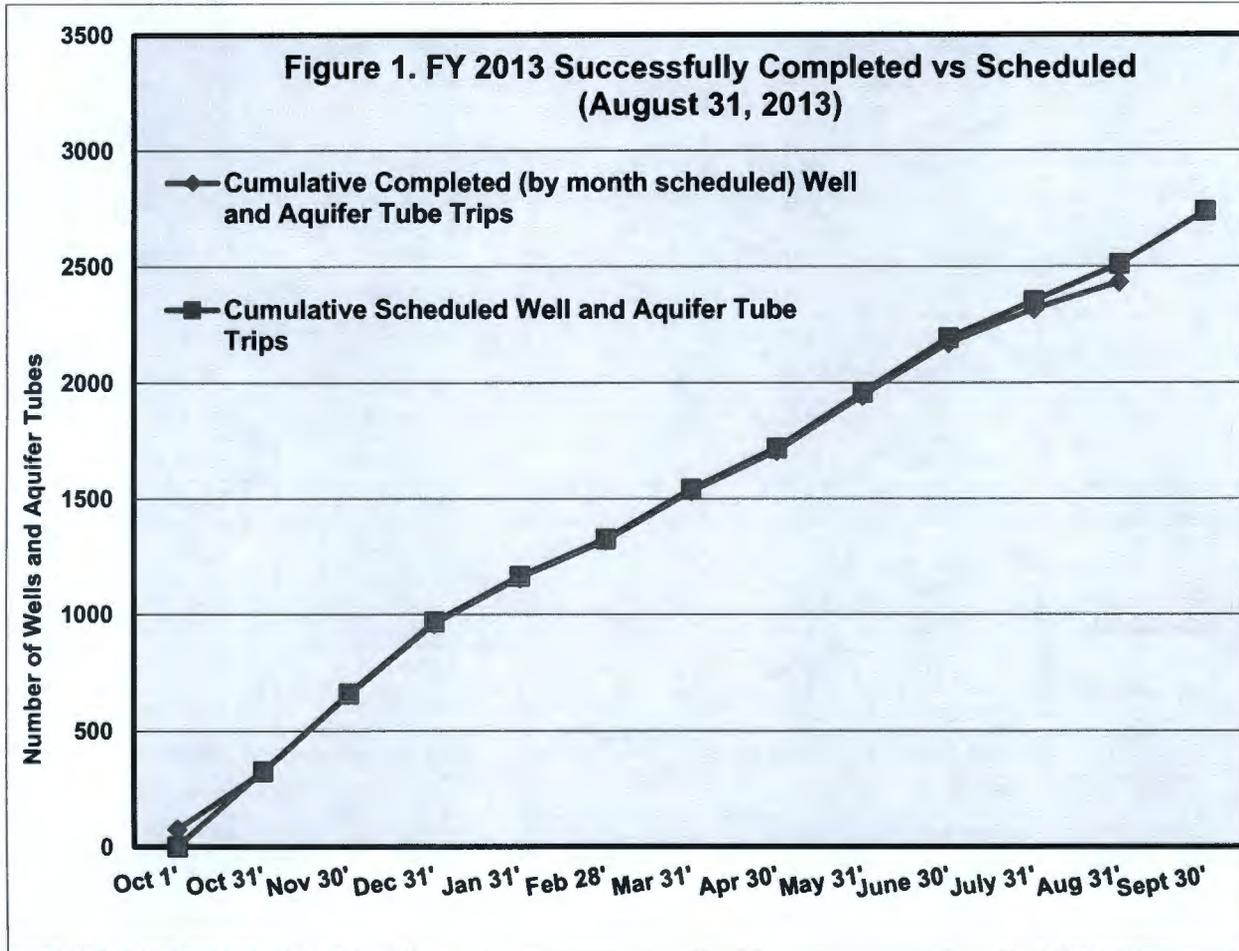
**Adjourn**

# Attachment 1

**100/300 Areas Unit Managers Meeting  
September 19, 2013**

**General information on Groundwater Sampling**

For the year to date (October 2012 through August 2013), 2,433 of 2,511 scheduled groundwater sampling trips have been completed (see Figure 1). For the overall 2013 fiscal year, a total of 2,738 trips are scheduled.



An additional 86 wells scheduled to be collected in September were sampled in August. The specific Wells, Aquifer Tubes, and springs sampled in the River Corridor Areas during August 2013 are listed in Table 1.

Of the 78 trips scheduled that were not successfully completed through August, 20 have access issues, 27 are associated with a stop work, 13 require maintenance, 16 have various other issues, and 2 are carryover to future work periods, as listed in Table 2. Sample trips scheduled for collection in September 2013 are listed in Table 3.

The sampling results are available in HEIS and can be accessed from the Environmental Dashboard Application which can be accessed from the HLAN at <http://environet.rl.gov/eda> or from the internet at <http://environet.hanford.gov/eda>.

**100/300 Areas Unit Managers Meeting  
September 19, 2013**

**Table 1 Wells, Aquifer Tubes and Springs in the River Corridor Areas Successfully Sampled during August 2013**

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	300-FF-5
		199-D4-23	199-H1-1	199-K-157	199-K-150	399-1-10A
		199-D4-38	199-H1-2	199-K-197	199-N-105A	399-1-10B
		199-D4-83	199-H1-25	199-K-198	199-N-119	399-1-16A
		199-D4-84	199-H1-27	199-K-200	199-N-120	399-1-16B
		199-D4-85	199-H1-3	199-K-201	199-N-121	399-1-17A
		199-D4-97	199-H1-34	699-78-62	199-N-14	399-1-17B
		199-D5-101	199-H1-36	C7641	199-N-28	399-1-18A
		199-D5-104	199-H1-39	C7642	199-N-3	399-1-18B
		199-D5-104	199-H1-4	C7643	199-N-32	399-1-21A
		199-D5-125	199-H1-42		199-N-34	399-1-23
		199-D5-15	199-H1-42		199-N-46	399-1-57
		199-D5-16	199-H1-43		199-N-56	399-2-32
		199-D5-34	199-H1-45		199-N-57	399-3-10
		199-D5-39	199-H1-6		199-N-64	399-3-12
		199-D5-39	199-H3-2A		199-N-67	399-3-21
		199-D5-97	199-H3-2C		199-N-69	399-3-22
		199-D5-97	199-H3-3		199-N-70	399-4-11
		199-D8-5	199-H3-5		199-N-71	399-4-14
		199-D8-68	199-H4-10		199-N-72	399-8-1
		199-D8-69	199-H4-11		199-N-73	399-8-5A
		199-D8-70	199-H4-12A		199-N-74	699-12-2C
		199-D8-73	199-H4-13		199-N-76	699-S6-E4K
		199-D8-88	199-H4-16		199-N-77	699-S6-E4L
		199-H4-80	199-H4-4		199-N-80	
		199-H4-81	199-H4-4		199-N-81	
		199-H4-82	199-H4-45		199-N-92A	
			199-H4-46		199-N-99A	
			199-H4-49		C7935	
			199-H4-5		C7936	
			199-H4-6			
			199-H4-63			
			199-H4-64			
			199-H4-65			
			199-H4-69			
			199-H4-70			
			199-H4-75			
			199-H4-76			
			199-H4-76			
			199-H4-77			
			199-H5-1A			

**100/300 Areas Unit Managers Meeting  
September 19, 2013**

**Table 2. Sample Trips Outstanding at the end of August 2013**

<b>GWA</b>	<b>SAMPLE TYPE</b>	<b>SITE NAME</b>	<b>SCHEDULE DATE</b>	<b>SAMPLE STATUS COMMENTS</b>
100-BC-5	WELL	199-B3-47	8/1/2013	Waiting on HACH kit procedure
	WELL	199-B4-14	8/1/2013	Stop Work
	WELL	199-B4-7	7/1/2013	Waiting on HACH kit procedure
	WELL	199-B4-7	8/1/2013	Waiting on HACH kit procedure
	WELL	199-B5-2	8/1/2013	Waiting on HACH kit procedure
	WELL	199-B5-6	7/1/2013	Waiting on HACH kit procedure
	WELL	199-B5-6	8/1/2013	Waiting on HACH kit procedure
100-HR-3-D	WELL	199-D4-93	7/1/2013	Maintenance required
	WELL	199-D5-14	8/1/2013	Waiting on HACH kit procedure
	WELL	199-D5-34	7/1/2013	Access restricted, in WCH demolition zone
	WELL	199-D5-92	8/1/2013	Not known
	WELL	199-D6-3	8/1/2013	Stop Work
	WELL	199-D8-68	3/1/2013	Maintenance required
	WELL	199-D8-72	3/1/2013	Maintenance required
100-HR-3-H	WELL	199-D8-72	6/1/2013	Maintenance required
	WELL	199-H1-7	8/1/2013	Stop Work
	WELL	199-H2-1	8/1/2013	Stop Work
	WELL	199-H3-10	8/1/2013	Stop Work
	WELL	199-H3-6	8/1/2013	Stop Work
	WELL	199-H3-7	8/1/2013	Stop Work
	WELL	199-H3-9	8/1/2013	Stop Work
	WELL	199-H4-84	7/1/2013	Stop Work
100-KR-4	WELL	199-H4-84	8/1/2013	Stop Work
	WELL	699-97-45	8/1/2013	Waiting on HACH kit procedure
	SPRING	100-K SPRING 68-1	10/1/2012	Not known
	SPRING	100-K-SPRING 82-2	10/1/2012	Sampled 10/30/2012; Site Name Typo
	WELL	199-K-140	8/1/2013	No Access Construction
	WELL	199-K-166	7/1/2013	P&T Shutdown
	WELL	199-K-168	8/1/2013	No Access Construction
	WELL	199-K-173	7/1/2013	P&T Shutdown
	WELL	199-K-192	8/1/2013	Stop Work
200-BP-5	WELL	199-K-196	8/1/2013	No Access Construction
	WELL	199-K-199	8/1/2013	Access road needs to be mowed
	WELL	299-E28-23	6/1/2013	Needs regulated purge truck
	WELL	299-E33-20	8/1/2013	Stop Work
	WELL	299-E33-31	8/1/2013	Access restricted in contamination area
	WELL	299-E33-47	8/1/2013	Stop Work
	WELL	299-E33-48	8/1/2013	Stop Work
	WELL	299-E33-49	8/1/2013	Stop Work

**100/300 Areas Unit Managers Meeting  
September 19, 2013**

<b>GWIA</b>	<b>SAMPLE TYPE</b>	<b>SITE NAME</b>	<b>SCHEDULE DATE</b>	<b>SAMPLE STATUS COMMENTS</b>
	WELL	699-65-50	4/1/2013	Access restricted due to road conditions
200-PO-1	WELL	299-E13-11	7/1/2013	Large volume Bailer Well: New equipment required
	WELL	299-E24-23	12/1/2012	Access inside PUREX boundary
	WELL	299-E25-19	8/1/2013	Access obstructed
	WELL	299-E25-236	6/1/2013	Decommissioned
	WELL	299-E25-25	7/1/2013	Access obstructed
	WELL	299-E25-26	4/1/2013	Maintenance Required
	WELL	299-E25-39	7/1/2013	Access obstructed
	WELL	299-E25-42	6/1/2013	Access restricted
	WELL	699-24-34C	10/1/2012	To be canceled
	WELL	699-28-40P	5/1/2013	Large volume Bailer Well: New equipment required
	WELL	699-31-31	8/1/2013	Access obstructed
	WELL	699-35-9	4/1/2013	Access road needs to be mowed
	200-UP-1	WELL	299-W18-21	7/1/2013
WELL		299-W19-101	8/1/2013	Stop Work
WELL		299-W19-105	8/1/2013	Stop Work
WELL		299-W19-107	8/1/2013	Stop Work
WELL		299-W19-36	8/1/2013	Stop Work
WELL		299-W19-39	8/1/2013	Stop Work
WELL		299-W19-4	8/1/2013	Access road needs to be mowed
WELL		299-W19-43	8/1/2013	Stop Work
WELL		299-W19-46	8/1/2013	Stop Work
WELL		299-W19-48	8/1/2013	Stop Work
WELL		299-W19-49	8/1/2013	Stop Work
WELL		299-W22-44	6/1/2013	Maintenance required
WELL		299-W22-45	6/1/2013	Maintenance required
WELL		299-W22-49	6/1/2013	Maintenance required
WELL		699-34-61	8/1/2013	Access road needs to be mowed
200-ZP-1	WELL	299-W11-45	11/1/2012	Maintenance required
	WELL	299-W11-45	5/1/2013	Maintenance required
	WELL	299-W11-47	8/1/2013	Stop Work
	WELL	299-W11-48	8/1/2013	Stop Work
	WELL	299-W14-18	8/1/2013	Stop Work
	WELL	699-44-64	7/1/2013	Maintenance required
	WELL	699-51-63	8/1/2013	Access road needs to be mowed
300-FF-5	WELL	399-1-63	12/1/2012	Maintenance required
	WELL	699-S6-E4B	12/1/2012	Access obstructed
	WELL	699-S6-E4B	6/1/2013	Access obstructed
Other	WELL	699-42-E9B	8/1/2013	Access road needs to be mowed

**100/300 Areas Unit Managers Meeting  
September 19, 2013**

**Table 1. Groundwater Sampling Locations in the River Corridor Areas Scheduled to be Sampled during September 2013**

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	300-FF-5
199-B4-14		199-D3-2	199-H1-1		199-K-150	399-1-10A
		199-D4-14	199-H1-2		199-N-103A	399-1-10B
		199-D4-22	199-H1-25		199-N-104A	399-1-16A
		199-D4-23	199-H1-27		199-N-105A	399-1-16B
		199-D4-38	199-H1-3		199-N-106A	399-1-17A
		199-D4-62	199-H1-34		199-N-119	399-1-17B
		199-D4-83	199-H1-36		199-N-120	399-1-18A
		199-D4-84	199-H1-39		199-N-121	399-1-18B
		199-D4-85	199-H1-4		199-N-122	399-1-21A
		199-D5-104	199-H1-42		199-N-123	399-1-23
		199-D5-123	199-H1-43		199-N-14	399-1-54
		199-D5-125	199-H1-45		199-N-146	399-1-55
		199-D5-126	199-H1-6		199-N-147	399-1-56
		199-D5-15	199-H3-2A		199-N-165	399-1-57
		199-D5-16	199-H3-2C		199-N-173	399-1-58
		199-D5-38	199-H4-10		199-N-182	399-1-59
		199-D5-39	199-H4-13		199-N-183	399-1-61
		199-D5-43	199-H4-4		199-N-184	399-1-62
		199-D5-97	199-H4-45		199-N-185	399-1-63
		199-D8-5	199-H4-5		199-N-186	399-1-64
		199-D8-68	199-H4-63		199-N-187	399-2-1
		199-D8-69	199-H4-64		199-N-188	399-2-32
		199-D8-70	199-H4-69		199-N-189	399-2-5
		199-D8-72	199-H4-70		199-N-19	399-3-10
		199-D8-73	199-H4-75		199-N-2	399-3-12
		199-D8-88	199-H4-76		199-N-21	399-3-18
		199-H1-5	199-H4-77		199-N-27	399-3-19
		199-H4-80			199-N-28	399-3-20
		199-H4-81			199-N-3	399-3-21
		199-H4-82			199-N-32	399-3-22
		SD-098-1			199-N-34	399-3-33
		SD-110-1			199-N-347	399-3-38
					199-N-348	399-3-9
					199-N-349	399-4-11
					199-N-350	399-4-14
					199-N-351	399-4-15
					199-N-352	399-4-9
					199-N-353	399-6-3

**100/300 Areas Unit Managers Meeting  
September 19, 2013**

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	300-FF-5
					199-N-41	399-6-5
					199-N-46	399-8-1
					199-N-50	399-8-5A
					199-N-51	699-12-2C
					199-N-56	699-S6-E4K
					199-N-57	699-S6-E4L
					199-N-64	
					199-N-67	
					199-N-69	
					199-N-70	
					199-N-71	
					199-N-72	
					199-N-73	
					199-N-74	
					199-N-75	
					199-N-76	
					199-N-77	
					199-N-80	
					199-N-81	
					199-N-92A	
					199-N-96A	
					199-N-99A	
					699-84-59	
					APT1	
					APT5	
					C6132	
					C7881	
					N116mArray-0A	
					N116mArray-10A	
					N116mArray-11A	
					N116mArray-13A	
					N116mArray-15A	
					N116mArray-1A	
					N116mArray-2A	
					N116mArray-3A	
					N116mArray-4A	
					N116mArray-6A	
					N116mArray-8.5A	
					N116mArray-8A	
					N116mArray-9A	
					NVP1-1	

**100/300 Areas Unit Managers Meeting  
September 19, 2013**

100-BC-5	100-FR-3	100-HR-3-D	100-HR-3-H	100-KR-4	100-NR-2	300-FF-5
					NVP1-2	
					NVP1-3	
					NVP1-4	
					NVP1-5	
					NVP2-115.1	
					NVP2-115.4	
					NVP2-115.7	
					NVP2-116.0	
					NVP2-116.3	

**General Information on Annual Reports – Bill Faught/Naomi Bland**

The 2012 Annual Groundwater Monitoring Report was completed on August 28, 2013 and the 2012 Annual Pump-and-Treat Report for the 100 Area is on schedule to be completed by September 30, 2013.

**100-BC-5 Groundwater Operable Unit – Phil Burke/Mary Hartman**

- (M-015-79, 12/15/2016), Submit CERCLA RI/FS Report and Proposed Plan for the 100-BC-1, 100-BC-2 and 100-BC-5 Operable Units for groundwater and soil.)

*Schedule Status – On Schedule.*

- CERCLA Process Implementation:

- RL approval of the cultural clearance was received and notice to proceed provided on August 1, 2013. A condition of the approval was to remove one of the Monitoring Wells E-11 (C8775) due to its proximity to an area of cultural significance. The removal of the well was discussed and approved by EPA and a draft Change Notice prepared for RL and EPA approval.
- Because of the cultural clearance delay, a TPA Change Notice was approved to move the Milestone for the Monitoring Well Installation from November 30, 2013 to February 28, 2014.
- Construction of roads and pads to the first three monitoring well locations was completed and drilling is anticipated to begin in late September.
- Subcontractor bids for the installation of the aquifer tubes were received on August 20, 2013 and the notice to proceed is expected in early September.
- It is the team's understanding that Ecology has considered, or is in the process of considering, the monitoring criteria for the point of compliance for groundwater to surface water interaction or discharge to surface water. It would be beneficial for the team to review Ecology's criteria prior to aquifer tube installation, if available.

**100/300 Areas Unit Managers Meeting  
September 19, 2013**

- **Monitoring & Reporting**
  - A pilot study planned under the revised RI SAP (TPA-CN-559) includes sampling five wells in 100-BC-5 and two wells in 100-HR-3 for stable isotopes of chromium. The sampling event will include additional analytes, including field Fe(II) and Cr(VI) using a Hach kit. Samplers were trained on use of the Hach for Fe(II) and Cr(VI) in August. This training, and a stop-work order that affected some of the wells, delayed sampling until September. Sampling of the following seven wells is planned for September: 199-B3-47, 199-B4-14, 199-B4-7, 199-B5-2, 199-B5-6, 199-D5-14, and 699-97-45. The latter two wells were selected to represent groundwater near a Cr(VI) source and far from the source, respectively. Stable isotope studies may be useful to determine whether reduction of Cr(VI) is occurring in the aquifer.
  - The monthly August sample from 199-B4-14 was moved to September to be coordinated with the isotopic study.

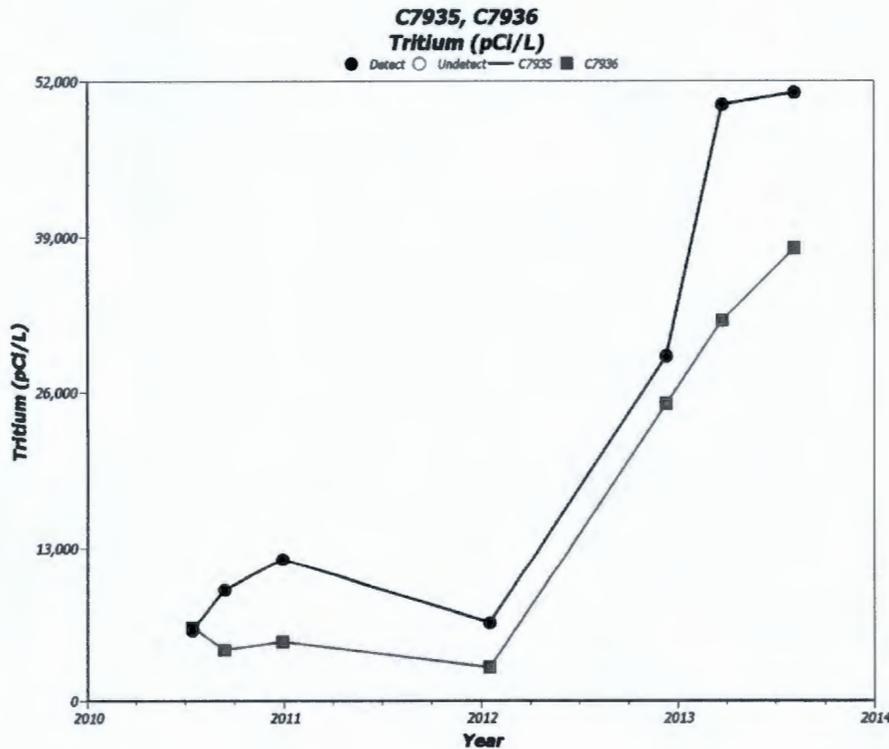
**100-KR-4 Groundwater Operable Unit – Bert Day/Bill Barrett/Chuck Miller**

- **CERCLA Process Implementation**
  - RI/FS and Proposed Plan: Production of both documents is on hold until path forward is agreed to by RL and EPA.
  - Interim Action RD/RAWP: Preparing document for RL review, which is scheduled to begin in late September.
- **Remedial Actions**
  - KR-4 Pump-and-Treat Project Cultural Resource Monitoring: Monitoring scheduled to occur on Friday, September 20, 2013.
  - Operations continue at KX, KR-4, and KW pump-and-treat systems. August 2013 performance:
    - The systems treated 37.6 million gallons.
    - The system removed 2.7 kg of hexavalent chromium.
    - KW was inoperable for the majority of August, while facility modifications and well re-alignments were being made. The system was brought back on-line August 29, 2013.
- **Monitoring and Reporting**
  - Monitoring Plan: Completing well definition, optimization, analytical requirements, and sampling frequency associated with each principal study question.
  - Well Installation SAP: Preparing Addendum 2 addressing the remaining wells identified in the technical memo for KR-4 new wells and well re-alignments, SGW-54543, Rev. 0.
  - 199-K-202: Initiated drilling on August 21, 2013
- **Modifications and Expansions**
  - Re-aligned existing wells: Continuing well re-alignments to extraction for 100-K-198/199 and 199-K-181, consistent with the associated technical memo previously presented to EPA. The re-alignment of extraction wells 199-K-196/140 is complete and wells are undergoing operational testing.

**100/300 Areas Unit Managers Meeting  
September 19, 2013**

**100-NR-2 Groundwater Operable Unit – Bill Faught/Virginia Rohay**

- CERCLA Process Implementation:
  - The Draft A RI/FS report (DOE/RL-2012-15) and Proposed Plan (DOE/RL-2012-68) were transmitted to Ecology on June 24, 2013, completing TPA milestone M-015-75. Ecology comments on these draft documents are expected October 9, 2013 based on Ecology’s request for a 60-day extension of the TPA 45-day review period.
  - Responses are being prepared to Ecology’s comments on Rev. 1 Draft A of the Remedial Design/Remedial Action Work Plan (DOE/RL-2001-27). The RD/RA WP was revised to support the interim ROD amendment.
- Monitoring & Reporting:
  - Samples were collected from aquifer tubes C7935 and C7936 on August 6, 2013, per Action No. 100-98. Concentrations increased slightly (to 51,000 pCi/L in C7935 and to 38,000 pCi/L in C7936) (Figure 100NR2-1).
  - As of August 28, 25 wells scheduled for sampling in September had been sampled.



**Figure 100NR2-1. Tritium Trends (through August 6, 2013) at Aquifer Tubes C7935 and C7936 in the 100-NR-2 OU.**

**100-HR-3 Groundwater Operable Unit – Bert Day/Bill Barrett/Kris Ivarson**

- Project Management
  - Conducted Ecology status meeting on August 29, 2013; reviewed current project status over the previous month.
- CERCLA Process Implementation:
  - RI/FS & PP

**100/300 Areas Unit Managers Meeting  
September 19, 2013**

- RL submitted a letter (13-AMRP-0249) requesting a 90-day extension (due October 9, 2013) for comment response and plan for document updates to Ecology on July 8, 2013. Ecology approved this request on August 13, 2013 (13-NWP-085).
- Continuing comment resolution and document updates; closure or conceptual agreement has been reached with Ecology on 77% of the comment responses. The remaining 23% are in varying stages of review by RL or Ecology or are in preparation by PRC.
- Interim Action RD/RAWP: Preparing document for RL review, which is scheduled to begin in late September.
- Remedial Actions:
  - Operations continue at DX and HX pump-and-treat system. August 2013 performance:
    - The systems treated 59.6 million gallons
    - The system removed 22.21 kg of hexavalent chromium.
- Monitoring & Reporting
  - Monitoring Plan: Completing well definition, optimization, analytical requirements, and sampling frequency associated with each principal study question.
  - Well Installation SAP: Preparing Addendum 2, addressing the remaining wells identified in the technical memo for HR-3 new wells and well re-alignments, SGW-54542, Rev. 0.
  - 199-H4-90: Initiated drilling on August 19, 2013; reached total depth (97 feet below ground surface) on August 30, 2013
  - 199-H4-91: Initiated drilling on August 21, 2013; reached total depth (92.5 feet below ground surface) on August 29, 2013. Completed geophysical logging on August 30, 2013.
  - 199-D5-154: Initiated drilling on August 30, 2013.

**100-FR-3 Groundwater Operable Unit – Phil Burke/Mary Hartman**

- CERCLA Process Implementation:
  - The Working Draft Rev 0 of the RI/FS Report (DOE-RL-2010-98) and Proposed Plan (DOE-RL-2012-41) were transmitted to RL and EPA on July 23, 2013. EPA's comments were due August 23, 2013; however, EPA has expressed delaying the submittal of the Proposed Plan for public comment until January 2014. The schedule is currently being evaluated.
- Monitoring and Reporting:
  - Nothing to report. All FY 2013 groundwater sampling has been completed.

**300-EF-5 Groundwater Operable Unit – Curt Wittreich/Virginia Rohay**

- CERCLA Process Implementation:
  - The public review of the Proposed Plan is scheduled for July 15, 2013 through September 15, 2013. Public meetings were held on July 30, 2013 (Richland), July 31, 2013 (Seattle), and August 8, 2013 (Hood River).
  - The Record of Decision is being prepared by EPA with support from RL and CHPRC.

**100/300 Areas Unit Managers Meeting  
September 19, 2013**

- **Monitoring & Reporting**
  - The 300-FF-5 Groundwater OU includes the groundwater impacted by releases from waste sites associated with three geographic subregions: 300 Area Industrial Complex, 618-11 Burial Ground, and 618-10 Burial Ground/316-4 Cribs.
    - 300 Area Industrial Complex — As of August 28, 2013, all 8 wells that were scheduled to be sampled in August had been sampled. In addition, 10 wells that were scheduled to be sampled in September had been sampled. Baseline samples were collected on August 27, 2013 at the two wells (399-3-12 and 399-3-22) downgradient of the 340 Vault, where a phosphate solution is being applied to contaminated soil during excavation and removal of the vault.
    - 618-11 Burial Ground — Tritium, nitrate, and gross beta results for the sample collected on May 20, 2013 at well 699-13-3A, next to the eastern fence line of the Burial Ground, are consistent with previous concentrations. The technetium-99 concentration in this sample was lower than previous concentrations in 2011 and 2012 (Figure 300FF5-1). Well 699-13-3A was sampled for tritium and gross beta on July 22, 2013. Both results were consistent with previous concentrations. As of August 28, 2013, one well scheduled to be sampled in September had been sampled.
    - 618-10 Burial Ground/316-4 Crib — Groundwater data from May 20, 2013 at well 699-S6-E4L near the 618-10 Burial Ground showed increased concentrations of uranium and of magnesium and calcium (common soil fixatives), consistent with samples from January and February 2013 (Figure 300FF5-2). The increase in the uranium concentration may be associated with the excavation activities that began in March 2011 at some of the trenches in the burial ground. Well 699-S6-E4K also was sampled on May 20, 2013. Results for uranium, magnesium, and calcium were consistent with previous results. As of August 28, 2013, both of these wells, which were scheduled to be sampled in September, had been sampled.
  - RCRA Monitoring – 300 Area Process Trenches (316-5)
    - The August 2013 sampling at the RCRA site 300 Area Process Trenches was conducted on August 7, 2013. The next sampling event is scheduled for September 2013.
  - 300 Area Aquifer Tubes
    - The next sampling event is scheduled for December 2013.

100/300 Areas Unit Managers Meeting  
September 19, 2013

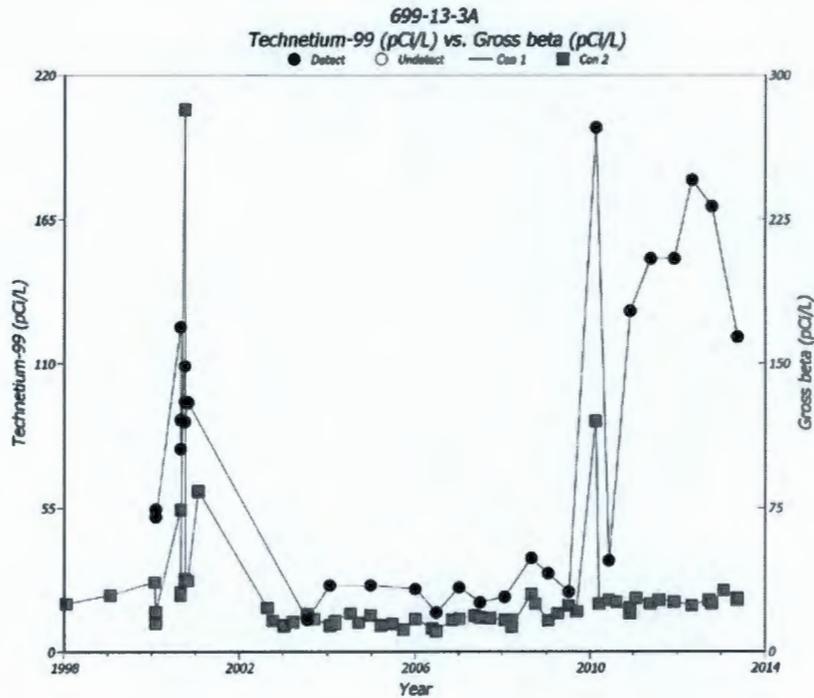


Figure 300FF5-1. Technetium-99 and Gross Beta Trends (through May 20, 2013) at Well 699-13-3A at the 618-11 Burial Ground.

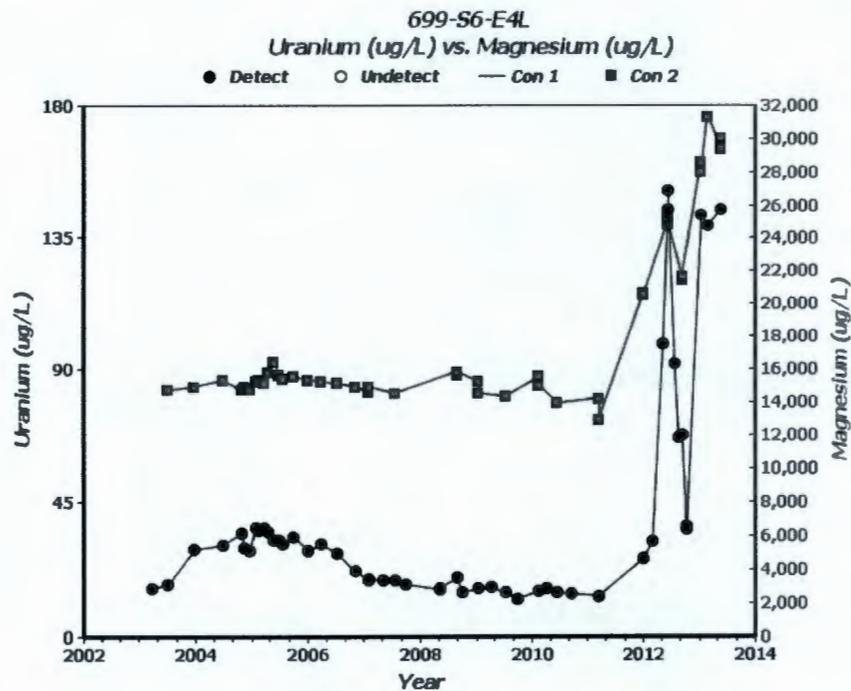


Figure 300FF5-2. Uranium and Magnesium Trends (through May 20, 2013) at Well 699-S6-E4L at the 618-10 Burial Ground.

# Attachment 2

September 19, 2013 Unit Manager's Meeting  
Field Remediation Status

**100-B/C**

- Closure documentation for 100-C-7:1 expected for completion before end of February 2014
- Initiated backfill activities at 100-C-7:1
- Continued removal of exit items from area

**100-D**

- Continued remediation and layback removal at 100-D-100
- Continued remediation and layback removal at 100-D-30/104
- Continued super-dump load-out to ERDF

**100-H**

- Continued excavation and load-out activities at 100-H-28:2 and 100-H-28:3
- Continued stockpile load-out to ERDF

**100-K**

- Continued preparation of close-out documentation for all 10-K TPA milestone sites
- Completed sampling to establish path forward on 100-K-93/100-K-111

**100-N**

- Continued remediation of 100-N-84:2 and 100-N-93
- Completed excavation and load-out activities at 600-340 and 100-N-79
- Completed verification sampling at 124-N-10 and 100-N-79
- Completed 2 characterization boreholes at 100-N-84:2
- Continued system operations for in-situ bioremediation system for UPR-100-N-17, deep vadose zone remediation
- Preparations underway for borehole sampling at UPR-100-N-42 week of 9/23/13
- Continued preparation of closure documents and conducting verification sampling

**618-10 Trench Remediation**

- Exhuming drums from South trench
- Excavation in North Trench
- Waste load-out to ERDF to resume in September
- Resumed processing anomalous waste items

**100-IU-2/6**

- Completed miscellaneous restoration activities at 100-F
- Completed excavation and load-out activities at 600-294, 600-301, 600-372 and 600-373 pending favorable sample results
- Continued Remediation of 600-375 and 600-376
- Collected closeout samples for 600-293, 600-294 and 600-301



# Attachment 3

# 100 Area D4/ISS Status

## September 19, 2013

### 100-N

**100-N Miscellaneous Items** – Removal and disposition of miscellaneous materials and equipment from around the site continue in preparation for D4 demobilization from 100-N.

**181-N River Pump House Anchor Blocks** – Work Package planning for removal of the anchor blocks is in-progress.

### 100-D

**183-D Water Treatment Plant** – Demolition and load-out of north and south Filter Building is in-progress. Load-out of recycled Filter Building pipe is in progress.

**151-D Electrical Switchyard** – Hazardous waste removal is complete. Demolition preps will commence in ~2-wks following 151-B Demo preps.

### 100-B

**105-B Reactor Fuel Transfer Pit Sediment Removal** – Grout capping the remaining Fuel Transfer Pit sedimentation is complete. Re-installation of roll-up door is in progress. Demobilization to be complete by 9/23/13.

**105-B Reactor Washpad Annex** – Washpad Annex roof flashing restoration and demobilization complete.

**151-B Electrical Switchyard** – Hazardous waste removal is in progress. Demolition preps are in progress.

# Attachment 4

UMM B/C SCHEDULE

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	S	O	N	D	J	F	M			
						0	1	2	3	0	1	2	0	1	2
<b>100-C-7 Waste Site Remediation</b>															
<b>Closeout Sampling &amp; Docs</b>															
BC502D131	Prepare Closure Document for 100-C-7:1 West Sidewall / Stockpile Areas	96%	101	06-Mar-13 A	19-Mar-14										
BC524G86	RL/Regulator Sign Rev. 0 Closure Document for 100-C-7:1 West Sidewall	0%	4	04-Mar-14*	10-Mar-14							□			
<b>Backfill</b>															
BC502C41	100-C-7:1 Post C-7 Work Remaining Backfill	10%	66	19-Aug-13 A	15-Jan-14										
<b>Revegetation</b>															
BC502E22	100-C-7:1 Perform Revegetation (30 acres)	0%	6	16-Jan-14*	27-Jan-14							□			
<b>600-253 Waste Site (Pit 24)</b>															
<b>Backfill</b>															
BC508C	600-253 (Pit 24) Recontouring	0%	10	26-Dec-13*	14-Jan-14										
<b>Revegetation</b>															
BC508E2	600-253 (Pit 24) Plant Reveg/Sage (40 acres)	0%	4	28-Jan-14	03-Feb-14							□			

□ Current Bar Labels    ■ % Complete    ◆ ◆

4

# Attachment 5

172284
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**^WCH Document Control**

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**From:** Strand, Christopher P  
**Sent:** Tuesday, August 13, 2013 11:43 AM  
**To:** ^WCH Document Control  
**Subject:** FW: Grout Cap of Remaining Material in the 105B Fuel Transfer Pit

Please chron and enter into project record as "EPA Concurrence to Clarification of the 105B AMP and TEDE".

Thank you,

Chris  
554-2720.

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**From:** Faulk, Dennis [mailto:Faulk.Dennis@epa.gov]  
**Sent:** Tuesday, August 13, 2013 8:58 AM  
**To:** Strand, Christopher P; Gadbois, Larry E; Guzzetti, Christopher; Buelow, Laura; Guercia, Rudolph F  
**Subject:** RE: Grout Cap of Remaining Material in the 105B Fuel Transfer Pit

Chris,

EPA concurs with the approach outlined below for grouting the remaining sediment in place in the 105B fuel transfer pit. Please attached this email to the current air monitoring plan as the record copy.

Dennis

---

**From:** Strand, Christopher P <cpstrand@wch-rcc.com>  
**Sent:** Tuesday, August 13, 2013 8:25 AM  
**To:** Faulk, Dennis; Gadbois, Larry; Guzzetti, Christopher; Buelow, Laura; Guercia, Rudolph F  
**Subject:** Grout Cap of Remaining Material in the 105B Fuel Transfer Pit

Dennis, Larry, Chris,

With Laura out of the office this week, I wish to submit the following information on DOE's behalf to complete work in the 105B fuel transfer pit. This information serves as a clarification to the Revision 1 of the Air Monitoring Plan (AMP) for the 105B Reactor Building and Revision 1 of the 105B Total Effective Dose Equivalent Calculation (TEDE) originally approved by DOE and EPA in November of 2012.

The 105B AMP, Revision 1 and the TEDE, Revision 1 were developed to support a modification to the removal technique for fuel storage basin sediment and materials that were deposited in the fuel transfer pit. Removal of this material and majority of the radiological inventory has been completed to the limits of the retrieval technology used. The remainder of debris will be left in place and long-term stabilized with a grout cap. Because placement of a grout cap is not an activity described in the AMP and TEDE, this information serves as clarification. Best Available Radionuclide Control Technology (BARCT) techniques and air monitoring described in the current AMP will be performed during grout placement. BARCT and Air Monitoring are discussed in Sections 5.0 and 6.0 respectively of the AMP, which is attached for your reference.

EPA's concurrence is requested for this clarification. It is planned to place the grout cap in the fuel transfer pit this Thursday, August 15th. EPA's consideration is greatly appreciated and do not hesitate to call if there are any questions.

Thank you,

Chris

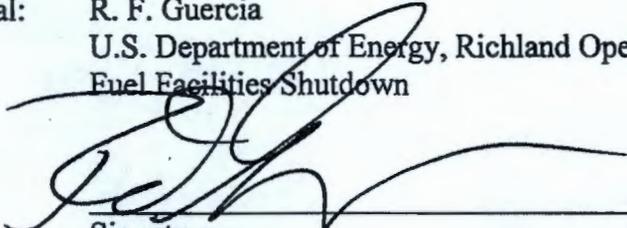
554-2720

<<B Reactor AMP Rev. 1 Final.pdf>>

**DOE-RL AND REGULATOR APPROVAL PAGE**

**Title:** Air Monitoring Plan for the 105-B Reactor Building. Addendum to the Air Monitoring Plan for the 100-B/C Area Burial Grounds and Remaining Sites Remedial Action, Revision 1

**Approval:** R. F. Guercia  
U.S. Department of Energy, Richland Operations Office  
Fuel Facilities Shutdown

  
\_\_\_\_\_  
Signature

10/25/12  
Date

Laura Buelow  
U.S. Environmental Protection Agency  
B Reactor Project Manager

  
\_\_\_\_\_  
Signature

10/25/12  
Date

**AIR MONITORING PLAN FOR THE 105-B REACTOR BUILDING**  
**ADDENDUM TO THE AIR MONITORING PLAN FOR THE 100-B/C AREA BURIAL**  
**GROUND AND REMAINING SITES REMEDIAL ACTION, REVISION 1**

**1.0 BACKGROUND**

In the mid-1980s, interim safe storage activities were performed to remove contaminated water, sediment, materials and equipment from all of the reactor fuel storage basins. The activities are described in a post-cleanout project report (UNI-3958) and in an inventory and source term report (UNI-3714). At the 105-B Basin, the sediment material had higher dose rates than originally projected and the sediment was moved into the lower portion of two fuel transfer pits (each 6 ft 4 in. by 9 ft by approximately 5 ft deep) located adjacent to the basin.

The transfer process was performed using a recirculation water system and fire hoses. As described in the project reports, a total of 600 ft<sup>3</sup> of sediment was flushed to the transfer pits and processed through a dewatering system. Approximately 30 ft<sup>3</sup> of the sediment from the transfer pits was collected on a filter press that was used for recirculation of washdown water during flushing. The liquid waste removed from the sediment in the dewatering process was transferred to a disposal pond (116-B-15) outside the facility. The sediment collected from the filter press was packaged and removed for disposal at the 200 Area burial grounds.

The remaining inventory was stabilized by covering the dewatered sediment in the transfer pits with a plywood cap. Residual contamination on the basin walls and the upper walls of the transfer pits was fixed in place with an asphalt emulsion. The filter press, which had residual contamination and was located on decking near the transfer pit, was removed and disposed of in 2011.

**2.0 INTRODUCTION**

DOE-RL is planning the removal of contaminated sediments from the fuel transfer area within the 105-B Reactor Building. This action is to include the removal and disposal of approximately 600 ft<sup>3</sup> of fuel storage basin sediment that has been stored in the fuel transfer pits since December 1985. The *Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units, Hanford Site, Benton County, Washington* (EPA 1999) authorizes the removal and disposal of this waste.

The removal action described above has the potential to emit (PTE) radioactive particulates. Therefore, an addendum to the existing *Air Monitoring Plan for the 100-B/C Burial Grounds and Remaining Sites Remedial Action* (WCH 2008) to address requirements related to this specific removal action. The substantive requirements (i.e., applicable or relevant and appropriate requirements) described in this addendum fall into three areas:

1. Quantification of potential radioactive emissions
2. Implementation of best available radionuclide control technology (BARCT)
3. Air monitoring requirements.

Implementing BARCT for significant modifications is defined in *Washington Administrative Code* (WAC) 246-247-040(3). Air monitoring requirements are defined in WAC 246-247-075(3) and (8). This air monitoring plan (AMP) describes how the substantive portions of these requirements will be implemented for this removal action.

Updates to this AMP may be accomplished through the unit managers' meeting minutes. When the removal action work plan is updated, changes to this AMP will be incorporated.

### 3.0 PLANNED ACTIVITIES

The activities that have potential to generate radioactive air emissions are, removal, packaging and disposal of the transfer pit sediment.

The transfer pit sediment will be wetted prior to and during the performance of removal activities in order to minimize the potential for dispersion. Possible approaches for sediment removal include water sluicing, dampening/manual scooping, and/or semi-remote digging. The currently preferred method of removal utilizes a gravel/slurry pump system that, upon addition of water to the sediment material, pumps the sediment slurry out of the pits into a sediment removal/de-watering system contained within an ERDF hard top roll-off container. The liquid resulting from the de-watering process will pass through sludge separator tanks into a re-circulating water tank for retention or re-use as necessary to maintain the remaining sediment in slurry form. The sediment material will remain in the ERDF hard top roll-off container for disposal. Grouting may be required to stabilize the material for shipment prior to disposal.

Temporary enclosures and high-efficiency particulate air (HEPA)-filtered exhausters may be used to control the spread of contamination during work activities.

Decontamination as necessary to allow removal of equipment and materials from contamination areas will be accomplished using standard industry practices and best management practices. Gross equipment decontamination methods will be employed to remove loose contamination within the contamination area. Best management practices for gross cleaning and/or decontamination of equipment consist of using wipes and nonhazardous materials to remove loose contamination. If these methods are ineffective, additional methods (e.g., grinding, wet grit blasting, or fixing in place) may be used.

### 4.0 AIRBORNE SOURCE INFORMATION

The potential exists for radioactive airborne emissions to result from this removal activity. This section of the AMP discusses the radiological inventory of the 105-B fuel transfer pit along with

the subsequent PTE radionuclides and the resulting total effective dose equivalent (TEDE) to the maximally exposed individual (MEI).

The radiological inventory of the transfer pit was obtained from Table 1-2 of WCH, 2011. As discussed in Section 1.4.2 of WCH 2011, samples from the transfer pits were collected in 2010 and a more refined inventory was calculated in WCH, 2010 (Duplicated in WCH, 2011). This radiological inventory is shown in Table 1. The equipment and materials associated with the previous sediment dewatering no longer have a substantial source term and only residual contamination remains.

Removal of sediment will use wet remediation methods to mobilize the sediment and also to control radioactive emissions. The bulk of operations (99.95%) were assigned a release fraction of 1E-03 consistent with particulates and liquids per WAC 246-247. The remaining 0.05% of the inventory/activities were assigned a release fraction of 1 for activities which may involve HEPA filtered vacuums, HEPA filtered decontamination tools (e.g., scabblers, scarifiers), and gas/torch cutting activities.

**Table 1. 105-B Building Fuel Transfer Pit Inventory and Potential-to-Emit Assessment Used in Calculation No. 0100B-CA-V0321 Revision 1.**

**Table 1. Inventory and Potential to Emit**

	Isotope	Inventory (Ci)	PTE (Ci/yr)
1	C-14	6.12E-03	9.18E-06
2	Co-60	1.40E-01	2.10E-04
3	Ni-63	6.37E+01	9.55E-02
4	Sr-90	9.33E+00	1.40E-02
5	Y-90 <sup>2</sup>	9.33E+00	1.40E-02
6	Tc-99	9.91E-03	1.49E-05
7	Cs-137	1.59E+01	2.38E-02
8	Ba-137m <sup>1</sup>	1.50E+01	2.26E-02
9	Eu-152	7.47E-01	1.12E-03
10	Eu-154	1.04E-01	1.56E-04
11	Th-232	2.12E-05	3.18E-08
12	U-233	5.11E-03	7.66E-06
13	U-234	1.31E-02	1.96E-05
14	U-235	5.78E-04	8.67E-07
15	U-236	3.25E-04	4.87E-07
16	U-238	1.40E-02	2.10E-05
17	Pu-239/240 <sup>3</sup>	1.08E+00	1.62E-03
18	Am-241	5.56E-01	8.34E-04

<sup>1</sup> Ba-137m is assumed to be in secular equilibrium with Cs-137 and, as such, the activity of Ba-137m is equal to 0.946 of the Cs-137 activity

<sup>2</sup> Y-90 is assumed to be in secular equilibrium with Sr-90 and, as such, the activity is equal to the Sr-90 activity

<sup>3</sup> Pu-239/240 conservatively assumed to be Pu-239 in the CAP88 code

The unabated TEDE (in mrem/yr) to the MEI resulting from potential air emissions during cleanout of the 105-B Reactor fuel transfer pits was calculated using the CAP88-PC model

(EPA 2007). The TEDE to the MEI from the activities is  $1.16\text{E-}02$  mrem/yr and is located 8,715 m northwest of B Reactor.

The air emission estimates described above are documented in Calculation No. 0100B-CA-V0321, *TEDE Calculation for Clean Out of the 105-B Fuel Transfer Pit*, Rev.1.

## 5.0 BEST AVAILABLE RADIONUCLIDE CONTROL TECHNOLOGY

Implementing BARCT for the control of radionuclide air emissions has been identified as an applicable relevant and appropriate requirement. Each stationary source shall be maintained and operated, including associated equipment for air pollution control, in a manner consistent with good air pollution control practice for minimizing emissions pursuant to WAC 246-247-040(3) and 40 CFR 61.12(c).

Portable exhausters and vacuum cleaners will also be utilized to control emissions. For vacuuming and the use of portable ventilation units, HEPA filters are used to collect generated dust. The use of HEPA filters has been generally accepted as BARCT at the Hanford Site. HEPA filters shall have efficiency testing performed upon installation and on an annual basis thereafter and must demonstrate 99.95% removal efficiency. Glovebags may also be used to reduce potential emissions. Because disturbance of transfer pit sediment may be a source of radioactive fugitive emissions, dust suppressants (e.g., water and fixatives) will be used and are considered BARCT. When using water, quantities used will be minimized to prevent water accumulation, puddles, and runoff within the area where the water is being used.

## 6.0 AIR MONITORING

“The Remedial Design Report/Remedial Action Work Plan for the 100 Area (DOE-RL 2005 in Section 3.4.6, “Air Monitoring Plans,” notes the following:

“The substantive requirements applicable to radioactive air emissions resulting from remediation activities are to quantify potential emissions, monitor the emissions, and identify and employ best available radionuclide control technology. Exemptions from these requirements may be requested if the potential-to-emit for the activity or emission unit would result in a total effective dose equivalent of less than 0.1 mrem/year.

Section 4.0 above quantifies the potential emissions that may result from this remediation activity. Because the calculated total unabated annual TEDE to the MEI from the sediment removal is  $1.16\text{E-}02$  mrem/yr, which is less than 0.1 mrem/year, it qualifies as a minor emissions unit which does not require continuous monitoring. Therefore, no near-facility monitors are proposed for this activity. However, exhaust points from HEPA filters will be monitored through routine surveys and boundary air sampling for potential radionuclide releases on a continuous basis during operation. Samples will be changed and analyzed weekly with results recorded. Any positive results will require appropriate maintenance on the facility, exhauster, or vacuum to ensure that continued releases do not occur. In addition, continuous air monitors

(CAMs) may be used at times, depending on the specific work evolution to be conducted. Records of routine monitoring, sampling, and necessary maintenance will be provided to U.S. Environmental Protection Agency staff upon request.

## 7.0 REFERENCES

- 40 CFR 61, "National Emission Standards for Hazardous Air Pollutants," *Code of Federal Regulations*, as amended.
- 0100B-CA-V0321, 2012, *TEDE Calculation for Clean Out of the 105-B Fuel Transfer Pit*, Rev. 1, Washington Closure Hanford, Richland, Washington.
- BHI, 2002, *Air Monitoring Plan for the 100-B/C Burial Grounds and Remaining Sites Remedial Action*, CCN 103979 dated November 25, 2002, Bechtel Hanford, Inc., Richland, Washington.
- DOE/RL, 2005, *Remedial Design Report/Remedial Action Work Plan for the 100 Area*
- EPA, 1999, *Interim Action Record of Decision for the 100-BC-1, 100-BC-2, 100-DR-1, 100-DR-2, 100-FR-1, 100-FR-2, 100-HR-1, 100-HR-2, 100-KR-1, 100-KR-2, 100-IU-2, 100-IU-6, and 200-CW-3 Operable Units, Hanford Site, Benton County, Washington*, U.S. Environmental Protection Agency, Region 10, Seattle, Washington.
- EPA, 2007, *CAP88-PC Version 3.0 User's Guide*, December 09, 2007, Trinity Engineering Associates, Inc. for the U.S. Environmental Protection Agency, Washington, D.C.
- UNI-3714, 1987, *Radionuclide Inventory and Source Terms for the Surplus Production Reactors at Hanford*, Rev. 1, UNC Nuclear Industries, Richland, Washington.
- UNI-3958, 1986, *Fuel Storage Basins Cleanup & Stabilization Project Report*, UNC Nuclear Industries, Richland, Washington.
- WAC 246-247, "Radiation Protection – Air Emissions," *Washington Administrative Code*, as amended.
- WCH, 2008, *Air Monitoring Plan for the 100-B/C Burial Grounds and Remaining Sites Remedial Action* (CCN 0589736).
- WCH-19, 2008, *Final Hazard Categorization for Surveillance and Maintenance of 100 Area Reactor Facilities*, Rev. 0, Washington Closure Hanford Inc., Richland, Washington.

WCH, 2010, *Validation of 105-B Final Hazard Categorization Against New Sample Data from Fuel Storage Basin Transfer Pit Sediment*, WCH Interoffice Memorandum, August 5, 2010, CCN 152421, Washington Closure Hanford, Richland, Washington.

WCH, 2011, *Final Hazard Categorization for Removal of 105-B Reactor Building Fuel Storage Basin Transfer Pits Sediment*, February 2011, WCH-421, Revision 0, Washington Closure Hanford, Richland, Washington.

# Attachment 6

UMM K SCHEDULE

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	S			O			N			D			J			F			M		
						0	1	2	3	0	1	2	2	0	1	2	0	0	1	2	3	0	1	2	2	0
<b>100-K-84 Red Soil Sw. of 118-K-1</b>																										
<b>Final Project Closeout</b>																										
RK084D33	Prepare Closure Document	69%	50	03-Jul-13 A	12-Dec-13	[Progress bar]																				
RK084D19	RL/Reg Review Draft A Closure Document for - 100-K-84	10%	24	10-Sep-13 A	24-Oct-13	[Progress bar]																				
RK084D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-84	0%	4	25-Nov-13	03-Dec-13	[Progress bar]																				
<b>Revegetation</b>																										
RK084E2	Revegetation - -100-K-84 (2.3 Acres)	0%	1	06-Jan-14*	06-Jan-14	[Progress bar]																				
<b>100-K-86 - Stained Areas</b>																										
<b>Final Project Closeout</b>																										
RK084D43	Prepare Closure Document	69%	50	03-Jul-13 A	12-Dec-13	[Progress bar]																				
RK086D19	RL/Reg Review Draft A Closure Document for - 100-K-86	10%	24	10-Sep-13 A	24-Oct-13	[Progress bar]																				
RK086D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-86	0%	4	25-Nov-13	03-Dec-13	[Progress bar]																				
<b>Backfill</b>																										
RK086C	Backfill - 100-K-86 (134 BCMs)	0%	1	12-Dec-13*	12-Dec-13	[Progress bar]																				
<b>Revegetation</b>																										
RK086E2	Revegetation - -100-K-86 (0.74 Acres)	0%	1	07-Jan-14*	07-Jan-14	[Progress bar]																				
<b>100-K-87 Asbestos</b>																										
<b>Final Project Closeout</b>																										
RK084D53	Prepare Closure Document	69%	50	03-Jul-13 A	12-Dec-13	[Progress bar]																				
RK087D19	RL/Reg Review Draft A Closure Document for - 100-K-87	10%	24	10-Sep-13 A	24-Oct-13	[Progress bar]																				
RK087D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-87	0%	4	25-Nov-13	03-Dec-13	[Progress bar]																				
<b>Backfill</b>																										
RK087C	Backfill - 100-K-87 (0.48 BCMs)	0%	1	16-Dec-13*	16-Dec-13	[Progress bar]																				
<b>Revegetation</b>																										
RK087E2	Revegetation - -100-K-87 (0.1 Acres)	0%	1	08-Jan-14*	08-Jan-14	[Progress bar]																				
<b>100-K-91 - Battery</b>																										
<b>Final Project Closeout</b>																										
RK084D63	Prepare Closure Document	69%	50	03-Jul-13 A	12-Dec-13	[Progress bar]																				
RK091D19	RL/Reg Review Draft A Closure Document for - 100-K-91	10%	24	10-Sep-13 A	24-Oct-13	[Progress bar]																				
RK091D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-91	0%	4	25-Nov-13	03-Dec-13	[Progress bar]																				
<b>Revegetation</b>																										
RK091E2	Revegetation - -100-K-91 (0.1 Acres)	0%	1	09-Jan-14*	09-Jan-14	[Progress bar]																				
<b>100-K-92 - Reddish Stained Gravels</b>																										
<b>Final Project Closeout</b>																										

Current Bar Labels % Complete

UMM K SCHEDULE

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	S	O	N	D	J	F	M																					
						0	1	2	3	0	1	2	0	1	1	2	0	0	1	2	3	0	1	2	0	1	1	2	0	1			
RK084D73	Prepare Closure Document	69%	50	03-Jul-13 A	12-Dec-13	[Gantt bar from Jul 3 to Dec 12]																											
RK092D19	RL/Reg Review Draft A Closure Document for - 100-K-92	10%	24	10-Sep-13 A	24-Oct-13	[Gantt bar from Sep 10 to Oct 24]																											
RK092D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-92	0%	4	25-Nov-13	03-Dec-13	[Gantt bar from Nov 25 to Dec 3]																											
<b>Backfill</b>																																	
RK092C	Backfill - 100-K-92 (7 BCMs)	0%	1	17-Dec-13*	17-Dec-13	[Gantt bar from Dec 17 to Dec 17]																											
<b>Revegetation</b>																																	
RK092E2	Revegetation - -100-K-92 (1.57 Acres)	0%	1	13-Jan-14*	13-Jan-14	[Gantt bar from Jan 13 to Jan 13]																											
<b>100-K-93 - Drum Remnant</b>																																	
<b>Final Project Closeout</b>																																	
RK084D83	Prepare Closure Document	20%	71	03-Sep-13 A	23-Jan-14	[Gantt bar from Sep 3 to Jan 23]																											
RK093D19	RL/Reg Review Draft A Closure Document for - 100-K-93	0%	26	23-Oct-13	10-Dec-13	[Gantt bar from Oct 23 to Dec 10]																											
RK093D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-93	0%	4	14-Jan-14	20-Jan-14	[Gantt bar from Jan 14 to Jan 20]																											
<b>Revegetation</b>																																	
RK093E2	Revegetation - -100-K-93 (0.1 Acres)	0%	1	14-Jan-14*	14-Jan-14	[Gantt bar from Jan 14 to Jan 14]																											
<b>100-K-95 - Tar Dump</b>																																	
<b>Final Project Closeout</b>																																	
RK084D93	Prepare Closure Document	69%	50	03-Jul-13 A	12-Dec-13	[Gantt bar from Jul 3 to Dec 12]																											
RK095D19	RL/Reg Review Draft A Closure Document for - 100-K-95	10%	24	10-Sep-13 A	24-Oct-13	[Gantt bar from Sep 10 to Oct 24]																											
RK095D21	RL/Reg Sign Rev. 0 Closure Document for - 100-K-95	0%	4	25-Nov-13	03-Dec-13	[Gantt bar from Nov 25 to Dec 3]																											
<b>Backfill</b>																																	
RK095C	Backfill - 100-K-95 (118.6 BCMs)	0%	2	18-Dec-13*	19-Dec-13	[Gantt bar from Dec 18 to Dec 19]																											
<b>Revegetation</b>																																	
RK095E2	Revegetation - -100-K-95 (0.3 Acres)	0%	1	15-Jan-14*	15-Jan-14	[Gantt bar from Jan 15 to Jan 15]																											
<b>118-K-1 Burial Ground</b>																																	
<b>Final Project Closeout</b>																																	
RK18K12030	Prepare Closure Document 118-K-1	45%	66	04-Dec-12 A	15-Jan-14	[Gantt bar from Dec 4 to Jan 15]																											
RK18K12062	RL/Reg Review Draft A Closure Document for - 118-K-1	0%	27	07-Oct-13*	20-Nov-13	[Gantt bar from Oct 7 to Nov 20]																											
RK18K12052	RL/Reg Sign Rev. 0 Closure Document for - 118-K-1	0%	9	26-Dec-13	13-Jan-14	[Gantt bar from Dec 26 to Jan 13]																											

Current Bar Labels % Complete

# Attachment 7

**100K Area Unit Managers Meeting  
September 19, 2013**

**RL-0012 Sludge Treatment Project**

TPA Milestone M-016-173, *K Basin Sludge Treatment and Packaging Technology Selection* (3/31/15) - At Risk

- The phase 2 treatment and packaging site evaluation report was issued in September 2012. Evaluation of options and consideration of overarching policy issues leading to preparation of a recommendation are not funded in FY13.

TPA Milestone M-016-174, *Complete Final Design of Sludge Retrieval and Transfer System* (9/30/13) - On Schedule

- The *Critical Decision-2/3 Report for the Sludge Treatment Project Engineered Container Retrieval and Transfer System*, which includes the ECRTS final design, was formally transmitted to DOE RL for approval on August 7, 2013. (DOE has prepared a letter to EPA stating that ECRTS final design and M-016-174 are complete.)
- The DOE Independent Project Review of ECRTS begins September 19, 2013.
- RL continues to review the ECRTS Preliminary Documented Safety Analysis.

TPA Milestone M-016-175, *Begin Sludge Removal from 105-KW Fuel Storage Basin* (9/30/14) - At Risk

- Construction of the KW Basin Modified Annex was suspended on March 5, 2013. The site was placed in a safe and stable configuration pending resumption of work.
- Funding for the restart of work was approved on July 1, 2013. Mobilization of construction contractor craft is in-progress to support concrete pours in early October.
- The Integrated Process Optimization Demonstration at MASF was initiated August 13, 2013.

TPA Milestone M-016-176, *Complete Sludge Removal from 105-KW Fuel Storage Basin* (12/31/15) – At Risk

- Initiation of this milestone follows completion of Milestone M-016-175.

TPA Milestone M-016-178, *Initiate Deactivation of 105-KW Fuel Storage Basin* (12/31/15) – At Risk

- 105-K West Basin legacy system deactivation and removal continues. Deactivation and removal to accommodate ECRTS equipment installation will complete in late September.

**RL-0041 K Facility Demolition and Soil Remediation**

TPA Milestone M-016-143, *Complete the Interim Response Actions for 100 K Area Phase 2* (12/31/15) – At Risk

- Response actions for phase 2 buildings are complete. Remediation of phase 2 waste sites is not currently funded in FY13.

TPA Milestone M-093-28, *Submit a change package for proposed interim milestones for 105-KE and 105-KW Reactor Interim Safe Storage (12/31/15) - On Schedule*

- New milestone created by TPA Change Package M-93-12-02, signed 4/25/2013. Replaced the deleted milestones M-093-22 and M-093-26.

TPA Milestone M-093-27, *Complete 105-KE and 105-KW reactor interim safe storage in accordance with the Removal Action Work Plan (12/31/19) - On Schedule*

**Other Information**

- No demolition or soil remediation activities were conducted at 100K during August.

# Attachment 8

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	2013														
						013	September 2013					October 2013				November 2013				
						19	26	02	09	16	23	30	07	14	21	28	04	11	18	
<b>FY13 CPP 100-N AREA CURRENT</b>																				
<b>Excavation</b>																				
NB5B8A	Excavation - 100-N-84:6 (12,721 BCM)	12%	11	10-Apr-13 A	04-Nov-13															
NB5B4A	Excavation - 100-N-84:2 (15,545 BCM)	99%	16	17-Apr-13 A	23-Sep-13															
NB5B7A	Excavation - 100-N-84:5 (10,000 BCM)	27%	13	03-Jul-13 A	15-Oct-13															
NB587A10	Second Phase Excavation - 100-N-79 (500 BCM)	75%	8	15-Aug-13 A	09-Sep-13															
NB535A	Excavation - 124-N-10 (4,550 BCMs)	0%	7	30-Oct-13	11-Nov-13															
NB5C1A	Excavation - 100-N-84:8 (0 BCM)	0%	12	05-Nov-13	25-Nov-13															
NB5B1A	Excavation - 100-N-81 (690 BCM)	0%	2	05-Nov-13	06-Nov-13															
NB596A	Excavation - 120-N-4 (646.86 BCM)	0%	2	07-Nov-13	11-Nov-13															
NB583A	Excavation - 100-N-82	0%	2	12-Nov-13	13-Nov-13															
NB591A	Excavation - 100-N-94 (51.34 BCM)	0%	1	12-Nov-13	12-Nov-13															
NB594A	Excavation - 100-N-99 (40.33 BCM)	0%	1	13-Nov-13	13-Nov-13															
NB5A3A	Excavation - 100-N-101 (132.36 BCM)	0%	1	13-Nov-13	13-Nov-13															
NB595A	Excavation - 100-N-100 (89.58 BCM)	0%	1	14-Nov-13	14-Nov-13															
NB5C3A	Excavation - 100-N-96 (2600 BCM)	0%	8	19-Nov-13	04-Dec-13															
NB590A	Excavation - 100-N-91 (4.05 BCM)	0%	1	19-Nov-13	19-Nov-13															
NB5093A	Excavation - 100-N-97 (10.09 BCM)	0%	1	20-Nov-13	20-Nov-13															
NB5B2A	Excavation - 100-N-83 (20,659 BCM)	0%	28	05-Dec-13	28-Jan-14															
NB5B6A	Excavation - 100-N-84:4 (8,348 BCM)	0%	12	29-Jan-14	19-Feb-14															
NB5C7A	Excavation - 100-N-104 (31BCM)	0%	1	20-Feb-14	20-Feb-14															
<b>Loadout</b>																				
NB5B8B	Loadout - 100-N-84:6 (20,000 UST)	12%	11	10-Apr-13 A	04-Nov-13															
NB5B4B	Loadout - 100-N-84:2 (34,200 UST)	99%	16	17-Apr-13 A	23-Sep-13															
NB5A1B10	Loadout over IPB quantity - 100-N-93 (48,305)	93%	8	13-May-13 A	18-Nov-13															
NB5B7B	Loadout - 100-N-84:5 (30,000 UST)	12%	13	11-Jul-13 A	15-Oct-13															
NB587B10	Second Phase Loadout - 100-N-79 (1,000 UST)	75%	8	15-Aug-13 A	09-Sep-13															
NB5A4B10	Second Phase Loadout - 600-340 (1540 UST)	0%	4	16-Sep-13*	19-Sep-13															
NB535B	Loadout - 124-N-10 (10,011 USTs)	0%	7	30-Oct-13	11-Nov-13															
NB5C1B	Loadout - 100-N-84:8 (0 UST)	0%	12	05-Nov-13	25-Nov-13															
NB5B1B	Loadout - 100-N-81 (1,518.0 UST)	0%	2	05-Nov-13	06-Nov-13															
NB596B	Loadout - 120-N-4 (1,379.16 UST)	0%	2	07-Nov-13*	11-Nov-13															
NB583B	Loadout - 100-N-82	0%	2	12-Nov-13	13-Nov-13															
NB591B	Loadout - 100-N-94 (49.5 UST)	0%	1	12-Nov-13	12-Nov-13															
NB594B	Loadout - 100-N-99 (42.1 UST)	0%	1	13-Nov-13	13-Nov-13															
NB5A3B	Loadout - 100-N-101 (220.0 UST)	0%	1	13-Nov-13	13-Nov-13															
NB595B	Loadout - 100-N-100 (49.5 UST)	0%	1	14-Nov-13	14-Nov-13															
NB584D10	Loadout - 100-N-54 (500 UST)	0%	2	14-Nov-13	18-Nov-13															
NB5C3B	Loadout - 100-N-96 (2,943 UST)	0%	8	19-Nov-13	04-Dec-13															

 Actual Work   
  Milestone   
  Actual Milestone  
 Remaining Work   
  % Complete

Data Date: 26-Aug-13

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	013		September 2013					October 2013				November 2013			
						19	26	02	09	16	23	30	07	14	21	28	04	11	18	
NB590B	Loadout - 100-N-91 (0.71 UST)	0%	1	19-Nov-13	19-Nov-13															
NB5093B	Loadout - 100-N-97 (5.94 UST)	0%	1	20-Nov-13	20-Nov-13															
NB5B2B	Loadout - 100-N-83 (45,451 UST)	0%	28	05-Dec-13	28-Jan-14															
NB5B6B	Loadout - 100-N-84:4 (18,365 UST)	0%	12	29-Jan-14	19-Feb-14															
NB5C7B	Loadout - 100-N-104 (77 UST)	0%	1	20-Feb-14	20-Feb-14															
PROJMS1	100-N Remediation Complete	0%	0		20-Feb-14*															
<b>Backfill</b>																				
NB597C	Backfill - 628-2 (1,880.2 BCM)	0%	1	12-Feb-14	12-Feb-14															
NB541C	Backfill - 130-N-1 (10,000 BCMs)	0%	4	01-Apr-14*	07-Apr-14															
NB587C	Backfill - 100-N-79 (672.58 BCM)	0%	1	03-Apr-14	03-Apr-14															
NB535C	Backfill - 124-N-10 (9,978 BCMs)	0%	2	03-Apr-14	07-Apr-14															
NB5092C	Backfill - 100-N-95 (2,158.57 BCM)	0%	1	07-Apr-14	07-Apr-14															
NB509C	Backfill - 100-N-25 (333 BCMs)	0%	1	14-Apr-14*	14-Apr-14															
NB568C10	Backfill - UPR-100-N-36 AUW	0%	1	15-Apr-14	15-Apr-14															
NB568C	Backfill - UPR-100-N-36 (3,333 BCMs)	0%	1	15-Apr-14*	15-Apr-14															
NB525C11	Backfill - 100-N-61 (incl 100-N-64) AUW	0%	15	16-Apr-14*	12-May-14															
NB525C	Backfill - 100-N-61 (incl 100-N-64) 112,271 BCMs	0%	15	16-Apr-14*	12-May-14															
NB529C	Backfill - 116-N-4 (5,951 BCMs)	0%	1	13-May-14*	13-May-14															
NB532C	Backfill - 120-N-3 (3,915 BCMs)	0%	1	14-May-14*	14-May-14															
NB521C	Backfill - 100-N-57 (4,296 BCMs)	0%	1	15-May-14*	15-May-14															
NB545C	Backfill - UPR-100-N-1 (0 BCMs)	0%	1	15-May-14	15-May-14															
NB562C	Backfill - UPR-100-N-29 (0 BCMs)	0%	1	15-May-14	15-May-14															
NB566C	Backfill - UPR-100-N-32 (0 BCMs)	0%	1	15-May-14	15-May-14															
NB554C	Backfill - UPR-100-N-2 (0 BCMs)	0%	1	15-May-14	15-May-14															
NB564C	Backfill - UPR-100-N-30 (0 BCMs)	0%	1	15-May-14	15-May-14															
NB574C	Backfill - UPR-100-N-6 (166 BCMs)	0%	1	19-May-14*	19-May-14															
NB517C	Backfill - 100-N-36 (5 BCMs)	0%	16	20-May-14*	17-Jun-14															
NB599C	Backfill - 100-N-86 (1030 BCM)	0%	1	09-Jun-14	09-Jun-14															
NB586C	Backfill - 100-N-68 (788.65 BCM)	0%	1	16-Jun-14*	16-Jun-14															
NB537C	Backfill - 124-N-3 (15 BCMs)	0%	1	18-Jun-14*	18-Jun-14															
NB519C	Backfill - 100-N-38 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14															
NB569C	Backfill - UPR-100-N-39 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14															
NB548C	Backfill - UPR-100-N-12 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14															
NB546C	Backfill - UPR-100-N-10 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14															
NB514C	Backfill - 100-N-32 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14															
NB531C	Backfill - 118-N-1 (11,549 BCMs)	0%	16	19-Jun-14*	17-Jul-14															
NB567C	Backfill - UPR-100-N-35 (170 BCMs)	0%	16	19-Jun-14*	17-Jul-14															
NB513C	Backfill - 100-N-31 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14															
NB575C	Backfill - UPR-100-N-7 (2,624 BCMs)	0%	16	19-Jun-14*	17-Jul-14															
NB563C	Backfill - UPR-100-N-3 (0 BCMs)	0%	16	19-Jun-14*	17-Jul-14															

 Actual Work   
 Milestone   
 Actual Milestone  
 Remaining Work   
 % Complete

Data Date: 26-Aug-13

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	013		September 2013					October 2013				November 2013		
						19	26	02	09	16	23	30	07	14	21	28	04	11	18
NB5B4C	Backfill - 100-N-84:2 (15,545 BCM)	0%	5	02-Jul-14	10-Jul-14														
NB593C	Backfill - 100-N-28 (2504 BCM)	0%	2	10-Jul-14*	14-Jul-14														
NB592C	Backfill - 100-N-62 (3563 BCM)	0%	2	10-Jul-14*	14-Jul-14														
NB550C	Backfill - UPR-100-N-14 (182 BCMs)	0%	1	21-Jul-14*	21-Jul-14														
NB536C	Backfill - 124-N-2 (1554 BCMs)	0%	1	21-Jul-14*	21-Jul-14														
NB577C	Backfill - UPR-100-N-9 (97 BCMs)	0%	1	21-Jul-14*	21-Jul-14														
NB507C	Backfill - 100-N-23 (3588 BCMs)	0%	1	22-Jul-14*	22-Jul-14														
NB583C	Backfill - 100-N-82	0%	1	22-Jul-14	22-Jul-14														
NB510C	Backfill - 100-N-26 (276 BCMs)	0%	1	23-Jul-14*	23-Jul-14														
NB512C	Backfill - 100-N-30 (0 BCMs)	0%	1	24-Jul-14*	24-Jul-14														
NB518C	Backfill - 100-N-37 (0 BCMs)	0%	1	24-Jul-14*	24-Jul-14														
NB508C	Backfill - 100-N-24 (0 BCMs)	0%	1	24-Jul-14*	24-Jul-14														
NB511C	Backfill - 100-N-29 (0 BCMs)	0%	1	24-Jul-14*	24-Jul-14														
NB578C20	Backfill - 100-N-63 AUW	0%	5	28-Jul-14*	04-Aug-14														
NB578C10	Backfill - 100-N-63 (14,272 BCMs)	0%	5	28-Jul-14*	04-Aug-14														
NB5B7C	Backfill - 100-N-84:5 (72,786 BCM)	0%	30	28-Jul-14	17-Sep-14														
NB5A4C	Backfill - 600-340 (126.60 BCM)	0%	4	30-Jul-14	05-Aug-14														
NB560C	Backfill - UPR-100-N-25 (0 BCMs)	0%	1	05-Aug-14*	05-Aug-14														
NB573C	Backfill - UPR-100-N-5 (0 BCMs)	0%	1	05-Aug-14*	05-Aug-14														
NB528C	Backfill - 116-N-2 (32,074 BCMs)	0%	5	05-Aug-14*	12-Aug-14														
NB555C	Backfill - UPR-100-N-20 (1,840 BCMs)	0%	8	06-Aug-14	19-Aug-14														
NB559C	Backfill - UPR-100-N-24 (126 BCMs)	0%	8	06-Aug-14	19-Aug-14														
NB552C	Backfill - UPR-100-N-18 (30,000 BCMs)	0%	8	06-Aug-14*	19-Aug-14														
NB5B8C	Backfill - 100-N-84:6 (12,721 BCM)	0%	2	14-Aug-14	18-Aug-14														
NB5B1C	Backfill - 100-N-81 (659.98 BCM)	0%	1	19-Aug-14	19-Aug-14														
NB556C	Backfill - UPR-100-N-21 (0 BCMs)	0%	3	20-Aug-14*	25-Aug-14														
NB558C	Backfill - UPR-100-N-23 (0 BCMs)	0%	1	20-Aug-14*	20-Aug-14														
NB557C	Backfill - UPR-100-N-22 (0 BCMs)	0%	1	20-Aug-14*	20-Aug-14														
NB553C	Backfill - UPR-100-N-19 (5617 BCMs)	0%	2	20-Aug-14*	21-Aug-14														
NB572C	Backfill - UPR-100-N-43 (9 BCMs)	0%	1	20-Aug-14*	20-Aug-14														
NB576C	Backfill - UPR-100-N-8 (28 BCMs)	0%	1	21-Aug-14*	21-Aug-14														
NB570C	Backfill - UPR-100-N-4 (63 BCMs)	0%	1	21-Aug-14*	21-Aug-14														
NB596C	Backfill - 120-N-4 (618.71 BCM)	0%	1	21-Aug-14	21-Aug-14														
NB565C	Backfill - UPR-100-N-31 (5,872 BCMs)	0%	1	21-Aug-14*	21-Aug-14														
NB506C	Backfill - 100-N-22 (866 BCMs)	0%	1	25-Aug-14*	25-Aug-14														
NB591C	Backfill - 100-N-94 (49.11 BCM)	0%	1	25-Aug-14	25-Aug-14														
NB594C	Backfill - 100-N-99 (38.58 BCM)	0%	1	26-Aug-14	26-Aug-14														
NB542C	Backfill - 1908-N (1,732 BCMs)	0%	1	26-Aug-14*	26-Aug-14														
NB5A3C	Backfill - 100-N-101 (126.6 BCM)	0%	1	26-Aug-14	26-Aug-14														
NB539C	Backfill - 124-N-9 (0 BCMs)	0%	1	27-Aug-14*	27-Aug-14														
NB595C	Backfill - 100-N-100 (85.69 BCM)	0%	1	27-Aug-14	27-Aug-14														

 Actual Work   
 Milestone   
 Actual Milestone  
 Remaining Work   
 % Complete

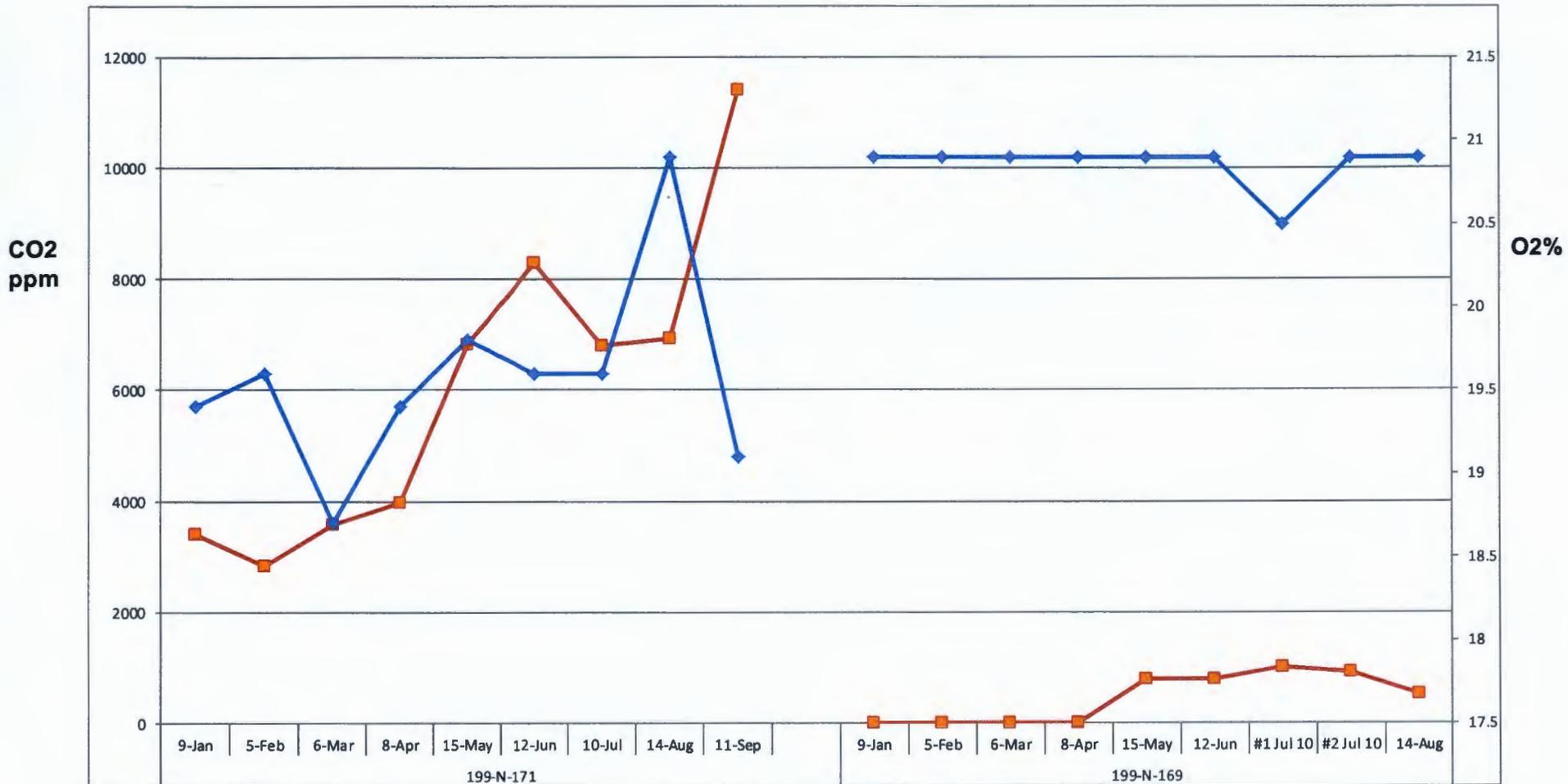
Data Date: 26-Aug-13

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	013				September 2013				October 2013				November 2013			
						19	26	02	09	16	23	30	07	14	21	28	04	11	18		
NB534C	Backfill - 124-N-1 (597BCMs)	0%	1	28-Aug-14*	28-Aug-14																
NB5A1C	Backfill - 100-N-93 (0 BCM)	0%	1	28-Aug-14	28-Aug-14																
NB522C	Backfill - 100-N-59 (95 BCMS)	0%	1	02-Sep-14*	02-Sep-14																
NB590C	Backfill - 100-N-91 (3.87 BCM)	0%	1	02-Sep-14	02-Sep-14																
R120N37	Backfill - 120-N-7 (145 BCMS)	0%	1	03-Sep-14*	03-Sep-14																
NB5093C	Backfill - 100-N-97 (9.65 BCM)	0%	1	03-Sep-14	03-Sep-14																
NB5C1C	Backfill - 100-N-84:8 (0 BCM)	0%	1	08-Sep-14	08-Sep-14																
NB5C3C	Backfill - 100-N-96 (2600 BCM)	0%	1	15-Sep-14	15-Sep-14																
NB5B6C	Backfill - 100-N-84:4 (14,060 BCM)	0%	8	17-Sep-14	30-Sep-14																
NB5C7C	Backfill - 100-N-104 (612 BCM)	0%	1	30-Sep-14	30-Sep-14																
NB5B2C	Backfill - 100-N-83 (20,659 BCM)	0%	1	03-Nov-14	03-Nov-14																
PROJMS3	100-N Backfill Complete	0%	0		03-Nov-14																

 Actual Work   
 Milestone   
 Milestone   
 Actual Milestone  
 Remaining Work   
 % Complete

Data Date: 26-Aug-13

# Attachment 9



### BIOVENT WELL SAMPLE RESULTS

Well #	Date	O2%	CO2 ppm	Well #	Date	O2%	CO2 ppm
199-N-171	9-Jan	19.4	3400	199-N-169	9-Jan	20.9	0
	5-Feb	19.6	2840		5-Feb	20.9	0
	6-Mar	18.7	3570		6-Mar	20.9	0
	8-Apr	19.4	3960		8-Apr	20.9	0
	15-May	19.8	6820		15-May	20.9	800
	12-Jun	19.6	8290		12-Jun	20.9	780
	10-Jul	19.6	6800		#1 Jul 10	20.5	1020
	14-Aug	20.9	6940		#2 Jul 10	20.9	920
	11-Sep	19.1	11400		14-Aug	20.9	530
					11-Sep	20.9	1250

O2%

CO2 ppm

# Attachment 10

172570

**^WCH Document Control**

---

**From:** Saueressig, Daniel G  
**Sent:** Monday, September 16, 2013 1:04 PM  
**To:** ^WCH Document Control  
**Subject:** FW: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N  
Please provide a chron number. This email documents a regulatory approval.

Thanks,

Dan Saueressig  
FR Environmental Project Lead  
Washington Closure Hanford  
521-5326

---

**From:** Guercia, Rudolph F (Rudy) [mailto:rudolph.guercia@rl.doe.gov]  
**Sent:** Monday, September 16, 2013 11:58 AM  
**To:** Chance, Joanne C; Elliott, Wanda; Saueressig, Daniel G  
**Cc:** Boyd, Alicia; Menard, Nina; Douglas, L M (Michael); Allen, Mark E; Winterhalder, John A  
**Subject:** RE: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

I concur also; Mike/Mark, FYI and planning purposes

RF Guercia

---

**From:** Chance, Joanne C  
**Sent:** Monday, September 16, 2013 11:33 AM  
**To:** 'Elliott, Wanda (ECY)'; Saueressig, Daniel G  
**Cc:** Boyd, Alicia (ECY); Menard, Nina (ECY); Guercia, Rudolph F (Rudy)  
**Subject:** RE: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

Hi Wanda and Dan,

I concur with the requested debris disposal plan, with the stipulations noted by Ecology.

(Rudy is in training, so it may take a few days for his response. I know he is supportive of the concept and wants the metal recycled, too). Thanks.

Joanne C. Chance  
U.S. Department of Energy  
Office of Assistant Manager for River and Plateau  
825 Jadwin Ave / MSIN A3-04  
Richland, WA 99352  
(509) 376-0811

---

**From:** Elliott, Wanda (ECY) [mailto:well461@ecy.wa.gov]  
**Sent:** Thursday, September 12, 2013 7:33 AM  
**To:** Saueressig, Daniel G; Chance, Joanne C; Guercia, Rudolph F (Rudy)  
**Cc:** Boyd, Alicia (ECY); Menard, Nina (ECY)  
**Subject:** RE: REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

All,

I approve the placement of clean inert debris (e.g., 100-N anchor blocks, miscellaneous ecology blocks, and parking bumpers) from various 100-N locations into the 182-N subgrade foundation prior to backfill of the area "on a case-by-case" basis only. Note that this agreement does not include the fencing, fence posts, and fence fabrics. Those items should be sent for recycling whenever possible.

Please ensure the following:

The debris does not contain visual indications of staining. Any debris with visual stains will be disposed of at ERDF.

The material to be placed will not have been in an area controlled for radiological purposes and if the material was in a radiologically controlled area, surveys would be performed to ensure no radiological contamination is present prior to placement. Any debris with radiological contamination will be disposed of at ERDF.

The void spaces are filled.

Ecology is notified prior to placement and provided with approximate mass/volumes and type of debris.

This agreement is not a blanket agreement. Each sub-grouping of inert debris that is proposed will be approved by Ecology prior to being placed.

Thanks,

*Wanda Elliott*  
(509) 372-7904  
Environmental Scientist  
Nuclear Waste Program  
Washington State Department of Ecology



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**From:** Saueressig, Daniel G [mailto:dqsauere@wch-rcc.com]  
**Sent:** Thursday, September 12, 2013 6:00 AM  
**To:** Elliott, Wanda (ECY); Chance, Joanne C; Guercia, Rudolph F  
**Subject:** REQUEST TO USE DEBRIS FOR BACKFILL AT 100-N

Wanda/Joanne/Rudy, I'd like to request your approval to place clean inert debris that would otherwise get disposed at ERDF from various 100-N locations into the 182-N subgrade foundation prior to backfill of the area. Section 4.1.1 of the 100-N Area Remedial Design Report/Remedial Action Work Plan (DOE/RL-2005-93, Rev. 0) allows "on a case-by-case basis, and as allowed by the Lead Regulatory Agency, inert waste forms may be used as waste site backfill provided that general size and/or placement requirements are met."

WCH would like to use the subgrade of the 182-N for placement of various inert debris (e.g., 100-N anchor blocks, miscellaneous ecology blocks, parking bumpers, fencing and fence posts, fence fabric in addition to other clean debris encountered that would qualify for placement). Determination of clean concrete and steel debris will be based on visual observation. If the debris does not contain visual indications of staining, the debris will be used as backfill. Concrete and steel with visual indications of staining will be disposed of at ERDF. In addition, the material to be placed will not have been in an area controlled for radiological purposes and if the material was in a radiologically controlled area, surveys would be performed to ensure no radiological contamination is present prior to placement.

Let me know if you concur and I'll document this agreement at the next UMM.

Thanks,

Dan Saueressig  
FR Environmental Project Lead  
Washington Closure Hanford  
521-5326

# Attachment 11

**^WCH Document Control**

172482

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**From:** Saueressig, Daniel G  
**Sent:** Wednesday, September 04, 2013 2:29 PM  
**To:** ^WCH Document Control  
**Subject:** FW: POTHOLES AT 100-N-84:2

Please provide a chron number. This email documents a regulatory approval.

Thanks,

Dan Saueressig  
FR Environmental Project Lead  
Washington Closure Hanford  
521-5326

---

**From:** Chance, Joanne C [mailto:joanne.chance@rl.doe.gov]  
**Sent:** Wednesday, September 04, 2013 1:20 PM  
**To:** Elliott, Wanda; Saueressig, Daniel G  
**Subject:** RE: POTHOLES AT 100-N-84:2

I concur also.

Joanne C. Chance  
U.S. Department of Energy  
Office of Assistant Manager for River and Plateau  
825 Jadwin Ave / MSIN A3-04  
Richland, WA 99352  
(509) 376-0811

---

**From:** Elliott, Wanda (ECY) [mailto:well461@ecy.wa.gov]  
**Sent:** Wednesday, September 04, 2013 1:11 PM  
**To:** Saueressig, Daniel G; Chance, Joanne C  
**Cc:** Biebrich, Ernest J  
**Subject:** RE: POTHOLES AT 100-N-84:2

I concur.

*Wanda Elliott*  
(509) 372-7904  
Environmental Scientist  
Nuclear Waste Program  
Washington State Department of Ecology



172482

---

**From:** Saueressig, Daniel G [<mailto:dgsauere@wch-rcc.com>]  
**Sent:** Wednesday, September 04, 2013 1:12 PM  
**To:** Elliott, Wanda (ECY); Chance, Joanne C  
**Cc:** Biebrich, Ernest J  
**Subject:** POTHoles AT 100-N-84:2

Wanda/Joanne, per our discussion yesterday, the project plans to dig a couple potholes at some stained areas of the 100-N-84:2 excavation to obtain additional sample data at depth. As discussed yesterday, we plan to place the excavated soil back into the pothole to alleviate fall hazards associated with the potholes (if left open, they would need to be constructed wider and at a greater cost to ensure safe slopes).

Let me know if you are in agreement with this path forward, as you know we plan to dig the potholes tomorrow.

Thanks,

Dan Saueressig  
FR Environmental Project Lead  
Washington Closure Hanford  
521-5326

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 CONTENT ID # \_\_\_\_\_

# Attachment 12

171999

**^WCH Document Control**

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**From:** Saueressig, Daniel G  
**Sent:** Monday, August 19, 2013 9:04 AM  
**To:** ^WCH Document Control  
**Subject:** FW: 100-N-104 spillway removal proposal

Please provide a chron number. This email documents a regulatory agreement.

Thanks,

Dan Saueressig  
FR Environmental Project Lead  
Washington Closure Hanford  
521-5326

---

**From:** Chance, Joanne C [mailto:joanne.chance@rl.doe.gov]  
**Sent:** Monday, August 19, 2013 9:01 AM  
**To:** Saueressig, Daniel G  
**Cc:** Elliott, Wanda  
**Subject:** RE: 100-N-104 spillway removal proposal

I concur. Thanks.

Joanne C. Chance  
U.S. Department of Energy  
Office of Assistant Manager for River and Plateau  
825 Jadwin Ave / MSIN A3-04  
Richland, WA 99352  
(509) 376-0811

---

**From:** Chance, Joanne C  
**Sent:** Monday, August 19, 2013 8:58 AM  
**To:** 'Elliott, Wanda (ECY)'  
**Subject:** RE: 100-N-104 spillway removal proposal

Thanks, Wanda.

Joanne C. Chance  
U.S. Department of Energy  
Office of Assistant Manager for River and Plateau  
825 Jadwin Ave / MSIN A3-04  
Richland, WA 99352  
(509) 376-0811

---

**From:** Elliott, Wanda (ECY) [mailto:well461@ecy.wa.gov]

**Sent:** Monday, August 19, 2013 8:48 AM  
**To:** Saueressig, Daniel G; Chance, Joanne C  
**Subject:** RE: 100-N-104 spillway removal proposal

I concur.

*Wanda Elliott*  
(509) 372-7904  
Environmental Scientist  
Nuclear Waste Program  
Washington State Department of Ecology



---

**From:** Saueressig, Daniel G [<mailto:dgsauere@wch-rcc.com>]  
**Sent:** Monday, August 19, 2013 8:49 AM  
**To:** Elliott, Wanda (ECY); Chance, Joanne C  
**Subject:** 100-N-104 spillway removal proposal

Wanda, per our discussion at the 7/10/13 interface meeting, you indicated that only removing the 100-N-104 to the ordinary high water mark was acceptable. Can you provide you concurrence that remediation of the 100-N-104 only needs to be performed to the ordinary high water mark similar to the agreement for 100-N-79 below? I'll then document the agreement at the next UMM.

Also, Joanne, I'd like you concurrence also.

Thanks,

Dan Saueressig  
FR Environmental Project Lead  
Washington Closure Hanford  
521-5326

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**From:** Elliott, Wanda (ECY) [<mailto:well461@ECY.WA.GOV>]  
**Sent:** Wednesday, January 23, 2013 3:39 PM  
**To:** Chance, Joanne C  
**Cc:** Buckmaster, Mark A; Boyd, Alicia; Saueressig, Daniel G  
**Subject:** Response to 100-N-79 spillway removal proposal

Joanne,

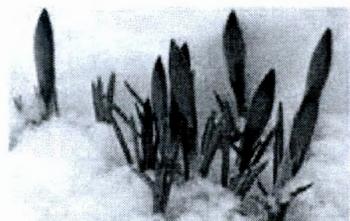
I agree with remediating the 100-N-79 spillway only to ordinary high water mark (OHWM). I believe this is the best option to minimize potential negative impacts on the Columbia River. The remaining portions can be colonized if needed and addressed in the Remedial Investigation/Feasibility Study (RI/FS) and Final ROD for 100-N.

We need to keep in mind that the Army Corps of Engineers stated in a letter to Mr. James Bernhard of Washington Closure Hanford, LLC on November 6, 2012 that if any spillway portions remain in place below the low water mark so that they protrude above the elevation of the adjacent river bed they are considered navigational hazards and such structures "should be addressed and rectified." Further clarification with the Army Corps might be in order to discuss what they may consider effective solutions for rectifying the navigational hazard. From my perspective, this may be as simple as signage or a buoy warning vessels of a navigation hazard.

If you have any questions please let me know,

Thanks,

*Wanda Elliott*  
(509) 372-7904  
Environmental Scientist  
Nuclear Waste Program  
Washington State Department of Ecology



# Attachment 13

172303
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**^WCH Document Control**

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**From:** Saueressig, Daniel G  
**Sent:** Thursday, August 15, 2013 5:54 AM  
**To:** ^WCH Document Control  
**Subject:** FW: REQUEST FOR PARTIAL BACKFILL OF 100-N-63:2

Please provide a chron number. This email documents a regulatory approval.

Thanks,

Dan Saueressig  
FR Environmental Project Lead  
Washington Closure Hanford  
521-5326

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**From:** Chance, Joanne C [mailto:joanne.chance@rl.doe.gov]  
**Sent:** Wednesday, August 14, 2013 11:16 AM  
**To:** Saueressig, Daniel G  
**Cc:** Elliott, Wanda  
**Subject:** RE: REQUEST FOR PARTIAL BACKFILL OF 100-N-63:2

I concur also. Thanks.

Joanne C. Chance  
U.S. Department of Energy  
Office of Assistant Manager for River and Plateau  
825 Jadwin Ave / MSIN A3-04  
Richland, WA 99352  
(509) 376-0811

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**From:** Elliott, Wanda (ECY) [mailto:well461@ecy.wa.gov]  
**Sent:** Monday, August 12, 2013 1:42 PM  
**To:** Saueressig, Daniel G; Chance, Joanne C  
**Subject:** RE: REQUEST FOR PARTIAL BACKFILL OF 100-N-63:2

I concur.

*Wanda Elliott*  
(509) 372-7904  
Environmental Scientist  
Nuclear Waste Program  
Washington State Department of Ecology



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**From:** Saueressig, Daniel G [mailto:dqsauere@wch-rcc.com]  
**Sent:** Monday, August 12, 2013 1:21 PM  
**To:** Elliott, Wanda (ECY); Chance, Joanne C  
**Subject:** REQUEST FOR PARTIAL BACKFILL OF 100-N-63:2

Wanda/Joanne, per our discussion at the last interface meeting, I'd like to request DOE and Ecology approval to backfill a small portion of the 100-N-63:2 pipeline excavation south of bioventing well 199-N-172 to alleviate the fall hazard associated with accessing this well. The CVP for 100-N-63:2 is currently with Ecology for review. There is a small amount of radiological contamination near the base of this excavation that is discussed in the CVP and included in the proposed 100-N-107 waste site. The discovery site checklist for this waste site (which also includes the contamination on the north side of the bioventing well island) is currently under DOE review. These small areas of contamination could not be removed without potentially impacting the integrity of the bioventing wells. Like I stated above, we would like to alleviate a fall hazard associated with the well so that personnel can access the area for monitoring and maintenance.

Let me know if you concur and I'll document the agreement at the next UMM.

Thanks,

Dan Saueressig  
FR Environmental Project Lead  
Washington Closure Hanford  
521-5326

# Attachment 14

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	Gantt Chart																											
						S	O	N	D	J	F	D14	0	0	16	2	3	0	1	21	2	0	1	1	2	02	0	1	2	3	06	1	2
<b>100 D</b>																																	
<b>Special Projects</b>																																	
100D100A411	Drill Replacement Well for 199-D-5-93 (100-D-100 Tier 3 Interf...	0%	10	04-Nov-13*	19-Nov-13	[Gantt bar from Nov 4 to Nov 19, 2013]																											
<b>Excavation</b>																																	
RD10D301AUW2	Excavate 100-D-30 Plume (227,900 BCM)	84%	23	14-Feb-13 A	16-Oct-13	[Gantt bar from Feb 14 to Oct 16, 2013]																											
100D104A311	Excavate 100-D-104 Tier 3 Phase 2 (57,935 BCM)	84%	5	19-Feb-13 A	16-Oct-13	[Gantt bar from Feb 19 to Oct 16, 2013]																											
100D100A311P	Excavate 100-D-100: Tier 3 Plume Chase (131,395 BCM)	41%	43	17-Jun-13 A	20-Nov-13	[Gantt bar from Jun 17 to Nov 20, 2013]																											
CBB0541A	Excavate 100-D-83:3 (182 BCM)	0%	1	30-Oct-13	30-Oct-13	[Gantt bar at Oct 30, 2013]																											
CBB0543A	Excavate 100-D-84:2 (634 BCM)	0%	1	30-Oct-13	30-Oct-13	[Gantt bar at Oct 30, 2013]																											
CBB0548A	Excavate 100-D-97 (128 BCM)	0%	1	31-Oct-13	31-Oct-13	[Gantt bar at Oct 31, 2013]																											
CBB0537A	Excavate 100-D-72 (5,306 BCM)	0%	6	31-Oct-13	12-Nov-13	[Gantt bar from Oct 31 to Nov 12, 2013]																											
CBB0516FCDD	Excavate 100-D-31:11&12 Phase 1 (32,800 BCM BCL)	0%	13	21-Nov-13	17-Dec-13	[Gantt bar from Nov 21 to Dec 17, 2013]																											
CBB0516FAUW	Excavate 100-D-31:11&12 Phase 2 (7,700 BCM ACL)	0%	3	18-Dec-13	23-Dec-13	[Gantt bar from Dec 18 to Dec 23, 2013]																											
CBB0545A	Excavate 100-D-86:1 (5,200 BCM) **RAD**	0%	6	16-Jan-14	27-Jan-14	[Gantt bar from Jan 16 to Jan 27, 2014]																											
CBB0545AA10	Demo 100-D-86:1 (5,200 BCM) **RAD**	0%	4	27-Jan-14	03-Feb-14	[Gantt bar from Jan 27 to Feb 3, 2014]																											
CBB0544A	Excavate 100-D-85:2 (7,400 BCM) **RAD**	0%	8	27-Jan-14	10-Feb-14	[Gantt bar from Jan 27 to Feb 10, 2014]																											
CBB0516F1B	Demo 100-D-31:11&12 Phase 3 (370 LM Pipeline demo)	0%	10	03-Feb-14	19-Feb-14	[Gantt bar from Feb 3 to Feb 19, 2014]																											
CBB0546A	Excavate 100-D-86:3 (1,817 BCM) **RAD**	0%	3	10-Feb-14	13-Feb-14	[Gantt bar from Feb 10 to Feb 13, 2014]																											
CBB0513A1	Excavate 1607-D2:5 (357 BCM)	0%	4	13-Feb-14	24-Feb-14	[Gantt bar from Feb 13 to Feb 24, 2014]																											
CBC0518A	Excavate 100-D-106 - (5,412 BCM)	0%	6	24-Feb-14	05-Mar-14	[Gantt bar from Feb 24 to Mar 5, 2014]																											
CBB0547A	Excavate 100-D-96:2 - (145 BCM)	0%	0	05-Mar-14	05-Mar-14	[Gantt bar at Mar 5, 2014]																											
CBB0550A	Excavate 100-D-99 - (567 BCM)	0%	1	05-Mar-14	06-Mar-14	[Gantt bar from Mar 5 to Mar 6, 2014]																											
CBB0535A	Excavate 100-D-69 - (1,754 BCM)	0%	2	06-Mar-14	10-Mar-14	[Gantt bar from Mar 6 to Mar 10, 2014]																											
CBB0556A	Excavate 147-D ISRM Pond (11,317 BCM)	0%	10	11-Mar-14	26-Mar-14	[Gantt bar from Mar 11 to Mar 26, 2014]																											
CBB0554A	Excavate 100-D-107 - (50,000 BCM)	0%	20	24-Apr-14	02-Jun-14	[Gantt bar from Apr 24 to Jun 2, 2014]																											
CBB0553A	Excavate 100-D-105 - (7,890 BCM)	0%	9	02-Jun-14	16-Jun-14	[Gantt bar from Jun 2 to Jun 16, 2014]																											
DMS070	Excavation Campaign Complete	0%	0		16-Jun-14	[Gantt bar at Jun 16, 2014]																											
<b>Loadout</b>																																	
100D100A312	Loadout 100-D-100 Tier 3 - Phase 2 - (MHVs - 103,000 Tons)	70%	8	23-Jul-13 A	23-Sep-13	[Gantt bar from Jul 23 to Sep 23, 2013]																											
100D100A409	Loadout 100-D-100 Plume (MHVs - 62,000 Tons)	0%	24	23-Sep-13	04-Nov-13	[Gantt bar from Sep 23 to Nov 4, 2013]																											
100D100A412	Loadout 100-D-100 ACL #4 Stockpile Area (MHVs - 68,000 Tons)	0%	32	04-Nov-13	07-Jan-14	[Gantt bar from Nov 4 to Jan 7, 2014]																											
CBB0542B	Loadout 100-D-83:5 (Blue Dot Cans - 7,089 Tons)	0%	4	26-Nov-13	05-Dec-13	[Gantt bar from Nov 26 to Dec 5, 2013]																											
CBB0534B	Loadout 100-D-81 (Blue Dot Cans - 5,318 Tons)	0%	3	05-Dec-13	11-Dec-13	[Gantt bar from Dec 5 to Dec 11, 2013]																											
100D100A406	Loadout 100-D-100 Tier 1&2 SPA #5 (LDR - 0 Tons)	0%	1	11-Dec-13	12-Dec-13	[Gantt bar at Dec 11, 2013]																											
100D100A372	Loadout 100-D-100 Tier 3 (LDR - 20,000 Tons)	0%	28	11-Dec-13	04-Feb-14	[Gantt bar from Dec 11 to Feb 4, 2014]																											
100D100A313	Loadout 100-D-100 Tier 3 (Blue Dot Cans - 35,280 Tons)	0%	28	11-Dec-13	04-Feb-14	[Gantt bar from Dec 11 to Feb 4, 2014]																											
100D104A312	Loadout 100-D-104 Tier 3 (MHVs -27,375 Tons)	0%	9	07-Jan-14	21-Jan-14	[Gantt bar from Jan 7 to Jan 21, 2014]																											
RD100D30A42	Loadout 100-D-30 Plume Loadout (MHVs - 97,600 Tons)	0%	48	21-Jan-14	16-Apr-14	[Gantt bar from Jan 21 to Apr 16, 2014]																											
100D104A345	Loadout 100-D-104 Tier 3 (LDR - 0 Tons)	0%	0	04-Feb-14	04-Feb-14	[Gantt bar at Feb 4, 2014]																											

SPIF Bar   
 Remaining Work   
 Critical Remaining Work  
 Actual Work   
 Actual Critical Work   
 Remaining Level of Effort

Data Date: 09-Sep-13

CPP 100-D - Current - After FR525 Rev. 2...

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	Gantt Chart																																
						S	O	N	D	J	F	14	0	0	16	2	3	0	1	21	2	0	1	1	2	02	0	1	2	3	06	1	2	2	0	10	1	2
100D104A313	Loadout 100-D-104 Tier 3 (Blue Dot Cans - 10,950 Tons)	0%	0	04-Feb-14	04-Feb-14																																	
100D100A375	Loadout Power Poles & Debris from Power Line Relocation	0%	0	04-Feb-14	04-Feb-14																																	
CBB0545B	Loadout 100-D-86:1 (Orange Cans - 1,384 Tons)	0%	1	18-Feb-14	19-Feb-14																																	
CBB0544B	Loadout 100-D-85:2 (RAD)	0%	0	19-Feb-14	19-Feb-14																																	
CBB0546B	Loadout 100-D-86:3 (Orange Cans - 506 Tons)	0%	1	19-Feb-14	20-Feb-14																																	
RD100D30A43	Loadout 100-D-30 (Blue Dot Cans - 15,000 Tons)	0%	8	20-Feb-14	06-Mar-14																																	
CBB0541B	Loadout 100-D-83:3 (Blue Dot Containers - 174 Tons)	0%	0	06-Mar-14	06-Mar-14																																	
CBB0543B	Loadout 100-D-84:2 (Blue Dot Cans - 280 Tons)	0%	0	06-Mar-14	06-Mar-14																																	
CBB0548B	Loadout 100-D-97 (Blue Dot Containers - 45 Tons)	0%	0	06-Mar-14	06-Mar-14																																	
CBB0537B	Loadout 100-D-72 (Blue Dot Cans - 3,232 Tons)	0%	2	06-Mar-14	11-Mar-14																																	
CBB0516G	Loadout 100-D-31:11&12 (Blue Dot - 17,360 Tons)	0%	9	12-Mar-14	27-Mar-14																																	
CBB0538B10	Loadout 100-D-75:2 - (Direct Load Blue Dot Cans - 916 Tons)	0%	1	16-Apr-14	17-Apr-14																																	
CBB0547B	Loadout 100-D-96:2 - (3 Tons)	0%	0	17-Apr-14	17-Apr-14																																	
CBB0550B	Loadout 100-D-99 - (281 Tons)	0%	0	17-Apr-14	17-Apr-14																																	
CBC0518B	Loadout 100-D-106 - (11,906 Tons)	0%	5	17-Apr-14	28-Apr-14																																	
CBB0554B	Loadout 100-D-107 - (22,400 Tons)	0%	11	24-Apr-14	14-May-14																																	
CBB0535B	Loadout 100-D-69 - (1,538 Tons)	0%	1	28-Apr-14	28-Apr-14																																	
CBB0556B	Loadout 147-D ISRM Pond - (24,898 Tons)	0%	8	28-Apr-14	12-May-14																																	
DMS080	Loadout Campaign Complete (Super Dumps)	0%	0		13-May-14																																	
CBB0553B	Loadout 100-D-105 - (630 Tons)	0%	0	02-Jun-14	02-Jun-14																																	
DMS090	Loadout Campaign Complete (ERDF Containers)	0%	0		02-Jun-14																																	
<b>Backfill</b>																																						
100D77A030	Backfill - 100-D-77	0%	5	02-Jan-14*	09-Jan-14																																	
RD67D51400	Backfill - 1607-D5 (710 BCM)	0%	0	02-Jan-14*	02-Jan-14																																	
100D501A030	Backfill - 100-D-50:1	0%	13	02-Jan-14*	21-Jan-14																																	
100D62A260	Backfill - 100-D-62	0%	1	09-Jan-14*	10-Jan-14																																	
100D78A030	Backfill - 100-D-78	0%	3	13-Jan-14*	16-Jan-14																																	
RD05507120	Backfill - 100-D-50:7 (14,500 BCM)	0%	11	17-Apr-14*	07-May-14																																	
CBB0513C1	Backfill - 1607-D2:5 - (321 BCM)	0%	0	12-May-14*	12-May-14																																	
CBB0514C	Backfill - 100-D-30	0%	46	16-Jun-14*	04-Sep-14																																	
<b>Revegetation</b>																																						
CBC0507E	Revegetation - Rem Wst Site - 100-D-28:1	0%	1	18-Nov-13*	18-Nov-13																																	
CBC0501E	Reveg - 100-D-58	0%	2	18-Nov-13*	19-Nov-13																																	
CBC0602E	Revegetation - Rem BG - 100-D-43	0%	1	18-Nov-13*	18-Nov-13																																	
DMSR13	2013 100-D Reveg Campaign	0%	0	18-Nov-13*																																		
CBB0501E	Reveg - Rem Wst Site - 100-D-2, 2 acres	0%	1	18-Nov-13*	18-Nov-13*																																	
CBC0603E	Revegetation - Rem BG - 100-D-47	0%	1	19-Nov-13	19-Nov-13																																	
RD05509140	Reveg- Rem Wst Site - 100-D-50:9 -2.41 acres	0%	1	19-Nov-13*	19-Nov-13																																	
CBC0604E	Revegetation - Rem BG - 118-D-1	0%	5	20-Nov-13	02-Dec-13																																	
RD132D500	Reveg- Rem Wst Site - 132-D-1	0%	1	20-Nov-13*	20-Nov-13																																	

 SPIF Bar   
 Remaining Work   
 Critical Remaining Work  
 Actual Work   
 Actual Critical Work   
 Remaining Level of Effort





# Attachment 15



Activity ID	Activity Name	% Cmpl	RD	Start	Finish	2014																	
						S	O	N	D	J	F	0	1	2	3								
<b>600-293</b>																							
<b>Excavation</b>																							
IU222920	Excavation 600-293	98%	1	25-Mar-13 A	16-Sep-13																		
<b>Loadout</b>																							
IU222820	Loadout 600-293	98%	1	25-Mar-13 A	16-Sep-13																		
<b>Closeout Sampling &amp; Docs</b>																							
IU222840	Closure Sampling 600-293	0%	26	01-Oct-13	13-Nov-13																		
<b>Final Project Closeout</b>																							
IU222850	Prepare Closure Document 600-293	0%	93	14-Nov-13	06-May-14																		
IU222860	RL/Reg Review of Draft A Closure Document 600-293	0%	26	28-Jan-14	13-Mar-14																		
IU222870	RL/Reg Signature Rev.0 Closure Document 600-293	0%	4	14-Apr-14	17-Apr-14																		
<b>Backfill</b>																							
IU222900	Backfill 600-293	0%	1	07-May-14*	07-May-14																		
<b>Revegetation</b>																							
IU222910	Revegetation 600-293	0%	12	10-Nov-14*	02-Dec-14																		
<b>600-294</b>																							
<b>Excavation</b>																							
IU223030	Excavation 600-294	98%	1	28-Mar-13 A	16-Sep-13																		
<b>Loadout</b>																							
IU222930	Loadout 600-294	98%	1	28-Mar-13 A	16-Sep-13																		
<b>Closeout Sampling &amp; Docs</b>																							
IU222950	Closure Sampling 600-294	0%	26	01-Oct-13	13-Nov-13																		
<b>Final Project Closeout</b>																							
IU222960	Prepare Closure Document 600-294	0%	93	14-Nov-13	06-May-14																		
IU222970	RL/Reg Review of Draft A Closure Document 600-294	0%	26	28-Jan-14	13-Mar-14																		
IU222980	RL/Reg Signature Rev.0 Closure Document 600-294	0%	4	14-Apr-14	17-Apr-14																		
<b>Backfill</b>																							
IU223010	Backfill 600-294	0%	1	07-May-14*	07-May-14																		
<b>Revegetation</b>																							
IU223020	Revegetation 600-294	0%	12	10-Nov-14*	02-Dec-14																		
<b>600-383</b>																							
<b>Excavation</b>																							
IU225450	Excavation 600-383 (D/H Boundary Site)	0%	2	18-Sep-13	19-Sep-13																		
<b>Loadout</b>																							

Current Bar Labels % Complete

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	2014																	
						S	O	N	D	J	F	0	1	2	3	0	1	2	3	0	1	2	3
IU225350	Loadout 600-383	0%	2	23-Sep-13	24-Sep-13	0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3		
<b>Closeout Sampling &amp; Docs</b>																							
IU225410	Prepare Work Instruction 600-383	0%	75	23-Oct-13	12-Mar-14																		
IU225420	RL/Reg Review of Draft A Work Instruction 600-383	0%	26	16-Dec-13	03-Feb-14																		
IU225360	RL/Reg Signature Rev.0 WI 600-383	0%	4	04-Feb-14	10-Feb-14																		
IU225370	Closure Sampling 600-383	0%	26	13-Mar-14	28-Apr-14																		
<b>Final Project Closeout</b>																							
IU225380	Prepare Closure Document 600-383	0%	93	29-Apr-14	13-Oct-14																		
IU225390	RL/Reg Review of Draft A Closure Document 600-383	0%	26	07-Jul-14	19-Aug-14																		
IU225400	RL/Reg Signature Rev.0 Closure Document 600-383	0%	4	18-Sep-14	24-Sep-14																		
<b>Backfill</b>																							
IU225430	Backfill 600-383	0%	1	14-Oct-14	14-Oct-14																		
<b>Revegetation</b>																							
IU225440	Revegetation 600-383	0%	8	10-Nov-14*	20-Nov-14																		
<b>600-384</b>																							
<b>Excavation</b>																							
IU225560	Excavation 600-384 (D/H Boundary Site)	0%	1	25-Sep-13	25-Sep-13																		
<b>Loadout</b>																							
IU225460	Loadout 600-384	0%	2	26-Sep-13	30-Sep-13																		
<b>Closeout Sampling &amp; Docs</b>																							
IU225520	Prepare Work Instruction 600-384	0%	75	28-Oct-13	18-Mar-14																		
IU225530	RL/Reg Review of Draft A Work Instruction 600-384	0%	26	18-Dec-13	06-Feb-14																		
IU225470	RL/Reg Signature Rev.0 WI 600-384	0%	4	06-Feb-14	13-Feb-14																		
IU225480	Closure Sampling 600-384	0%	26	18-Mar-14	01-May-14																		
<b>Final Project Closeout</b>																							
IU225490	Prepare Closure Document 600-384	0%	93	01-May-14	16-Oct-14																		
IU225500	RL/Reg Review of Draft A Closure Document 600-384	0%	26	09-Jul-14	25-Aug-14																		
IU225510	RL/Reg Signature Rev.0 Closure Document 600-384	0%	4	23-Sep-14	30-Sep-14																		
<b>Backfill</b>																							
IU225540	Backfill 600-384	0%	1	16-Oct-14	20-Oct-14																		
<b>Revegetation</b>																							
IU225550	Revegetation 600-384	0%	8	10-Nov-14*	20-Nov-14																		
<b>600-382</b>																							
<b>Excavation</b>																							
IU225340	Excavation 600-382 (D/H Boundary Site)	0%	1	30-Sep-13	01-Oct-13																		
<b>Loadout</b>																							

Current Bar Labels % Complete



Activity ID	Activity Name	% Cmpl	RD	Start	Finish	S			O			N			D			J			F			2014
						0	1	2	3	0	1	2	3	0	1	2	3	0	1	2	3	0	1	
IU223780	Backfill 600-368	0%	1	22-Jan-14	22-Jan-14																			
<b>Revegetation</b>																								
IU223790	Revegetation 600-368	0%	12	10-Nov-14*	02-Dec-14																			
<b>600-370</b>																								
<b>Excavation</b>																								
IU224020	Excavation 600-370	98%	1	08-May-13 A	16-Sep-13																			
<b>Loadout</b>																								
IU223920	Loadout 600-370	98%	1	08-May-13 A	16-Sep-13																			
IU225120	Anomaly Characterization / Removal 600-370	100%	0	09-Sep-13 A	10-Sep-13 A																			
<b>Closeout Sampling &amp; Docs</b>																								
IU223940	Closure Sampling 600-370	0%	26	24-Sep-13*	06-Nov-13																			
<b>Final Project Closeout</b>																								
IU223950	Prepare Closure Document 600-370	0%	93	07-Nov-13	29-Apr-14																			
IU223960	RL/Reg Review of Draft A Closure Document 600-370	0%	26	21-Jan-14	06-Mar-14																			
IU223970	RL/Reg Signature Rev.0 Closure Document 600-370	0%	4	07-Apr-14	10-Apr-14																			
<b>Backfill</b>																								
IU224000	Backfill 600-370	0%	1	30-Apr-14	30-Apr-14																			
<b>Revegetation</b>																								
IU224010	Revegetation 600-370	0%	12	10-Nov-14*	02-Dec-14																			
<b>600-356</b>																								
<b>Excavation</b>																								
IU226010	Excavation 600-356 ( Segment 1 )	98%	4	08-Jul-13 A	19-Sep-13																			
<b>Loadout</b>																								
IU226020	Loadout 600-356	98%	4	08-Jul-13 A	19-Sep-13																			
<b>Closeout Sampling &amp; Docs</b>																								
IU226070	Work Instructions 600-356	0%	75	21-Oct-13	10-Mar-14																			
IU226450	RL/Reg Review of Draft A Work Instruction 600-356	0%	26	11-Dec-13	29-Jan-14																			
IU226460	RL/Reg Signature Rev.0 WI 600-356	0%	4	30-Jan-14	05-Feb-14																			
IU226040	Closeout Sampling 600-356	0%	26	11-Mar-14	23-Apr-14																			
<b>Final Project Closeout</b>																								
IU226050	Prepare Closure Document 600-356	0%	93	24-Apr-14	08-Oct-14																			
IU226470	RL/Reg Review of Draft A Closure Document 600-356	0%	26	01-Jul-14	14-Aug-14																			
IU226480	RL/Reg Signature Rev.0 Closure Document 600-356	0%	4	16-Sep-14	22-Sep-14																			
<b>Backfill</b>																								
IU226030	Backfill 600-356	0%	1	09-Oct-14	09-Oct-14																			

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	2014																			
						S	O	N	D	J	F	0	1	2	3	0	1	2	0	1	2	0	1	1	2
<b>Revegetation</b>																									
IU226060	Revegetation 600-356	0%	1	10-Nov-14*	10-Nov-14																				
<b>600-371</b>																									
<b>Excavation</b>																									
IU224130	Excavation 600-371	98%	1	17-Jul-13 A	16-Sep-13																				
<b>Loadout</b>																									
IU224030	Loadout 600-371	98%	1	17-Jul-13 A	16-Sep-13																				
<b>Closeout Sampling &amp; Docs</b>																									
IU224050	Closure Sampling 600-371	50%	14	30-Jul-13 A	08-Oct-13																				
<b>Final Project Closeout</b>																									
IU224060	Prepare Closure Document 600-371	0%	93	09-Oct-13	31-Mar-14																				
IU224070	RL/Reg Review of Draft A Closure Document 600-371	0%	26	17-Dec-13	04-Feb-14																				
IU224080	RL/Reg Signature Rev.0 Closure Document 600-371	0%	4	06-Mar-14	12-Mar-14																				
<b>Backfill</b>																									
IU224110	Backfill 600-371	0%	1	01-Apr-14	01-Apr-14																				
<b>Revegetation</b>																									
IU224120	Revegetation 600-371	0%	12	10-Nov-14*	02-Dec-14																				
<b>MR fencing removal 600-275</b>																									
<b>Loadout</b>																									
IU226080	MR Remove Fence around 600-275 (Segment 1)	20%	24	01-Aug-13 A	24-Oct-13																				
<b>600-372</b>																									
<b>Excavation</b>																									
IU224240	Excavation 600-372	98%	1	18-Jul-13 A	16-Sep-13																				
<b>Loadout</b>																									
IU224140	Loadout 600-372	98%	1	18-Jul-13 A	16-Sep-13																				
<b>Closeout Sampling &amp; Docs</b>																									
IU224160	Closure Sampling 600-372	10%	26	02-Aug-13 A	29-Oct-13																				
<b>Final Project Closeout</b>																									
IU224170	Prepare Closure Document 600-372	0%	93	30-Oct-13	21-Apr-14																				
IU224180	RL/Reg Review of Draft A Closure Document 600-372	0%	26	13-Jan-14	26-Feb-14																				
IU224190	RL/Reg Signature Rev.0 Closure Document 600-372	0%	4	27-Mar-14	02-Apr-14																				
<b>Backfill</b>																									
IU224220	Backfill 600-372	0%	1	22-Apr-14	22-Apr-14																				
<b>Revegetation</b>																									

Current Bar Labels % Complete



Activity ID	Activity Name	% Cmpl	RD	Start	Finish	2014																		
						S	O	N	D	J	F	0	1	2	3	0	1	2	3	0	1	2	3	
<b>Loadout</b>																								
IU224580	Loadout 600-376	0%	2	24-Sep-13	25-Sep-13																			
<b>Closeout Sampling &amp; Docs</b>																								
IU224600	Closure Sampling 600-376	0%	26	09-Oct-13	25-Nov-13																			
<b>Final Project Closeout</b>																								
IU224610	Prepare Closure Document 600-376	0%	93	25-Nov-13	15-May-14																			
IU224620	RL/Reg Review of Draft A Closure Document 600-376	0%	26	05-Feb-14	25-Mar-14																			
IU224630	RL/Reg Signature Rev.0 Closure Document 600-376	0%	4	22-Apr-14	29-Apr-14																			
<b>Backfill</b>																								
IU224660	Backfill 600-376	0%	1	15-May-14	19-May-14																			
<b>Revegetation</b>																								
IU224670	Revegetation 600-376	0%	12	10-Nov-14*	02-Dec-14																			
<b>600-374</b>																								
<b>Excavation</b>																								
IU224460	Excavation 600-374	0%	1	25-Sep-13	26-Sep-13																			
<b>Loadout</b>																								
IU224360	Loadout 600-374	0%	2	26-Sep-13	30-Sep-13																			
<b>Closeout Sampling &amp; Docs</b>																								
IU224380	Closure Sampling 600-374	0%	26	15-Oct-13	02-Dec-13																			
<b>Final Project Closeout</b>																								
IU224390	Prepare Closure Document 600-374	0%	93	03-Dec-13	20-May-14																			
IU224400	RL/Reg Review of Draft A Closure Document 600-374	0%	26	11-Feb-14	27-Mar-14																			
IU224410	RL/Reg Signature Rev.0 Closure Document 600-374	0%	4	28-Apr-14	01-May-14																			
<b>Backfill</b>																								
IU224440	Backfill 600-374	0%	1	21-May-14	21-May-14																			
<b>Revegetation</b>																								
IU224450	Revegetation 600-374	0%	12	10-Nov-14*	02-Dec-14																			
<b>600-377</b>																								
<b>Excavation</b>																								
IU224790	Excavation 600-377	0%	1	01-Oct-13	01-Oct-13																			
<b>Loadout</b>																								
IU224690	Loadout 600-377	0%	2	02-Oct-13	03-Oct-13																			
<b>Closeout Sampling &amp; Docs</b>																								
IU224710	Closure Sampling 600-377	0%	26	17-Oct-13	05-Dec-13																			





Activity ID	Activity Name	% Cmpl	RD	Start	Finish	2014																											
						S	O	N	D	J	F	0	1	2	3																		
<b>Loadout</b>						0	1	2	3	0	1	2	2	0	1	1	2	0	0	1	2	3	0	1	2	0	1	1	2	0	1		
IU226400	100-K Exit Items Removal	0%	8	20-Feb-14*	05-Mar-14																												
<b>IU Exit Items</b>																																	
<b>Loadout</b>																																	
IU226420	IU-2 Exit Items Removal	0%	8	26-Mar-14*	08-Apr-14																												
IU226430	IU-6 Exit Items Removal	0%	8	07-Apr-14*	17-Apr-14																												
IU226440	Segment 4 Exit Items Removal	0%	8	28-Apr-14*	08-May-14																												
<b>Milestones</b>																																	
<b>Milestone</b>																																	
IU226350	Completion of EX/LO at IU-2 & Segment 4 Sites	0%	0		16-Oct-13																												
<b>600-298</b>																																	
<b>Final Project Closeout</b>																																	
IU2290	Prepare Closure Document 600-298	76%	44	25-Mar-13 A	03-Dec-13																												
IU2300	RL/Reg Review of Draft A Closure Document 600-298	50%	18	12-Aug-13 A	15-Oct-13																												
IU2310	RL/Reg Signature Rev.0 Closure Document 600-298	0%	4	13-Nov-13*	19-Nov-13																												
<b>Backfill</b>																																	
IU2230	Backfill 600-298	0%	1	30-Dec-13*	30-Dec-13																												
<b>Revegetation</b>																																	
IU2250	Revegetation 600-298	0%	1	11-Nov-14*	11-Nov-14																												
<b>600-299</b>																																	
<b>Final Project Closeout</b>																																	
IU22180	Prepare Closure Document 600-299	76%	44	25-Mar-13 A	03-Dec-13																												
IU22190	RL/Reg Review of Draft A Closure Document 600-299	50%	18	12-Aug-13 A	15-Oct-13																												
IU22200	RL/Reg Signature Rev.0 Closure Document 600-299	0%	4	13-Nov-13	19-Nov-13																												
<b>Backfill</b>																																	
IU22120	Backfill 600-299	0%	1	02-Jan-14*	02-Jan-14																												
<b>Revegetation</b>																																	
IU22140	Revegetation 600-299	0%	1	12-Nov-14*	12-Nov-14																												
<b>600-300</b>																																	
<b>Final Project Closeout</b>																																	
IU22290	Prepare Closure Document 600-300	76%	44	25-Mar-13 A	03-Dec-13																												
IU22300	RL/Reg Review of Draft A Closure Document 600-300	50%	18	12-Aug-13 A	15-Oct-13																												
IU22310	RL/Reg Signature Rev.0 Closure Document 600-300	0%	4	13-Nov-13	19-Nov-13																												
<b>Backfill</b>																																	

Current Bar Labels % Complete



Activity ID	Activity Name	% Cmpl	RD	Start	Finish	2014																		
						S	O	N	D	J	F		S	O	N	D	J	F						
<b>Backfill</b>																								
IU221660	Backfill 600-318	0%	1	14-Jan-14*	14-Jan-14																			
<b>Revegetation</b>																								
IU221680	Revegetation 600-318	0%	1	15-Jan-14	15-Jan-14																			
<b>600-319</b>																								
<b>Backfill</b>																								
IU221770	Backfill 600-319	0%	1	09-Jan-14*	09-Jan-14																			
<b>Revegetation</b>																								
IU221790	Revegetation 600-319	0%	1	16-Jan-14	16-Jan-14																			
<b>600-320</b>																								
<b>Backfill</b>																								
IU221880	Backfill 600-320	0%	1	06-Jan-14*	06-Jan-14																			
<b>Revegetation</b>																								
IU221900	Revegetation 600-320	0%	1	20-Jan-14	20-Jan-14																			
<b>600-321</b>																								
<b>Backfill</b>																								
IU221990	Backfill 600-321	0%	1	07-Jan-14*	07-Jan-14																			
<b>Revegetation</b>																								
IU222010	Revegetation 600-321	0%	1	21-Jan-14	21-Jan-14																			
<b>600-328</b>																								
<b>Revegetation</b>																								
IU222340	Revegetation 600-328	0%	1	22-Jan-14	22-Jan-14																			
<b>600-108</b>																								
<b>Revegetation</b>																								
UC501E30	Reveg for 600-108 bpa disturbance	0%	22	18-Nov-13*	31-Dec-13																			
<b>600-380</b>																								
<b>Loadout</b>																								
IU225020	Loadout 600-380 (D/H Boundary Site)	0%	1	06-Jan-14*	06-Jan-14																			
<b>Closeout Sampling &amp; Docs</b>																								
IU225080	Prepare Work Instruction 600-380	0%	75	04-Feb-14*	17-Jun-14																			
IU225090	RL/Reg Review of Draft A Work Instruction 600-380	0%	26	26-Mar-14	08-May-14																			
IU225030	RL/Reg Signature Rev.0 WI 600-380	0%	4	12-May-14*	15-May-14																			
IU225040	Closure Sampling 600-380	0%	26	18-Jun-14	04-Aug-14																			

Activity ID	Activity Name	% Cmpl	RD	Start	Finish	2014											
						S	O	N	D	J	F	0	1	2	3	0	1

**Final Project Closeout**

IU225050	Prepare Closure Document 600-380	0%	93	05-Aug-14	22-Jan-15
IU225060	RL/Reg Review of Draft A Closure Document 600-380	0%	26	09-Oct-14	24-Nov-14
IU225070	RL/Reg Signature Rev.0 Closure Document 600-380	0%	4	30-Dec-14	06-Jan-15

# Attachment 16

300 Area Closure Project Status  
September 19, 2013  
100/300 Area Combined Unit Manager Meeting

**Ongoing Activities**

- 309 Reactor – Core drilling, beam pocket cutting, lower reactor space interference removal, and shoring installation ongoing,
- 340 Complex: Completed installation of casings #4 and #5 with enhanced radiological controls in place (e.g., enhanced wetting methods, confinement ventilation, and sodium diphosphate binder solution).
- 324 – Continue min-safe operations and held pre-bid meeting with potential offerors for 300-296 retrieval.
- Remaining 300 Area Waste Sites – Continue to advance remedial designs and decision units.

**Demolition & Remediation Preparation Activities**

- 3730 – Initiated below-grade demolition, preparing to retrieve Co-60 gamma well.
- 3760 – Demolition nearly complete.
- 326 – Demolition initiated, ~ 25% complete.
- 3790 – Received transfer of Central Badging building for demolition.
- 340 – Completed load test of vault lift assembly.

**60-Day Project Look Ahead**

- Continue preparations for 340 Vault lift and transport to ERDF.
- Continue 309 PRTR reactor removal preparations.
- Complete demolition of the 326 Building.
- Complete demolition of the 3760 Building.
- Initiate deactivation of 3790.
- Begin mobilizing for south Apple waste sites remediation.
- Initiate revision to the 300-FF-2 portion of the RDR/RAWP.

# Attachment 17

**ESH&QA Mission Completion Project**  
September 19, 2013

**Long-Term Stewardship**

- The Segment 5/400 Area Interim Remedial Action Report is currently under review by RL and EPA. Comments are requested due back by 9/30/13.

**100-K Shoreline Characterization**

- The field characterization activities were completed on 9/12/13. A total of 56 locations were sampled and submitted for laboratory analysis.

**Document Review Look-Ahead**

- None

# Attachment 18

# **2013 Annual Sitewide Institutional Controls (IC) Review**

**River Corridor Contractor (RCC)**

# 2013 RCC Annual IC Review

- **Basis**
  - ***Sitewide Institutional Controls Plan for Hanford CERCLA Response Actions (DOE/RL-2001-41, Rev. 6)***
    - Requires annual IC effectiveness review
    - Results to be reported in September UMM

# 2013 RCC Annual IC Review

## Scope of Review

- This portion of review addressed only river corridor source waste sites, and included evaluation of:
  - **Trespass events at RCC waste sites**
  - **Access control/entry restrictions**
  - **Excavation control**
  - **Field inspection of ICs**
    - Required roadway signage on entrances to 300 Area Main Complex, 618-10, 100-D, 100-H, 100-N Areas, and active IU-2 waste sites
    - Required shoreline signage at 300 Area, 100-B/C, 100-D, 100-F, 100-H, 100-K, 100-N Areas

# 2013 RCC Annual IC Review

- Results

- ✓ **No public trespass events on WCH managed projects**
- ✓ **Badging system (access controls) in place and active**
- ✓ **Approved Excavation Permits in place and up to date for waste sites evaluated**
- ✓ **Warning signs in place at roadway entrances**
- ✓ **Shoreline signage in place at 100-F and 100-H; remaining shoreline signs will be checked during September 2013 annual Columbia River RCRA inspection**

# 2013 RCC Annual IC Review



100-F



100-H

**Shoreline Signage**

# 2013 RCC Annual IC Review



100-IU-2



300 Area



100-IU-2/F Area

**Typical Roadway Signage**