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**100K PROJECT MANAGERS MEETING MINUTES**  
**October 13, 2011**

DOE/RL

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EPA

Rod Lobos

B1-46

CHPRC

Dottie Norman (original)

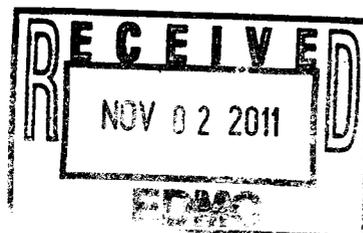
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Administrative Record (2)

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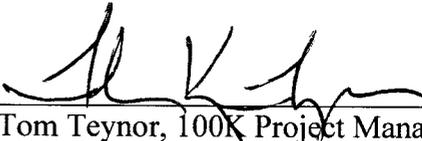
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A3-01



Meeting Minutes Transmittal/Approval  
100K Project Managers Meeting  
October 13, 2011

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APPROVAL:   
Tom Teynor, 100K Project Manager, DOE RL

Date: October 13, 2011

APPROVAL:   
Red Lobos, 100K Project Manager, EPA

Date: 10/13/2011

HFFACO Action Plan Section 4.1 states that agreements and commitments resulting from the Project Managers meetings will be prepared and signed by all parties. Approval of these minutes documents approval of agreements and commitments documented in Attachments 2 and 3 to these minutes. Approvals do not apply to any other attachments. Any other attachments are provided for information purposes.

Minutes of the 100K Project Managers meeting of October 13, 2011 are attached. Minutes are comprised of the following.

- |              |  |
|--------------|--|
| Attachment 1 | Attendance Record  |
| Attachment 2 | Milestone Status Report with Agreements, Commitments and Actions Identified  |
| Attachment 3 | 100K Area PMM Response Action Agreements   |
| Attachment 4 | Use of Spoils Piles from 183.2-KE and 183.2-KW, 183.4-KE Clearwell and 189-K Water Treatment Plant as Backfill at 100K |
| Attachment 5 | EPA Concurrence to Use 183-KE Chlorine Vault Debris for Backfill at 100K   |
| Attachment 6 | 100K Waste Site Agreements of September 7, 2011  |
| Attachment 7 | Updated 100K Waste Site Agreements – October 12, 2011  |



## ATTACHMENT 2 100K AREA PROJECT MANAGERS MEETING MILESTONE STATUS

October 13, 2011

**M-016-170** Complete KOP material pre-treatment.  
**Due 9/30/2011, DOE Lead Roger Quintero**

- Pre-treatment of KOP material is complete.
- Milestone completion letter was transmitted from RL to EPA on September 16, 2011

**Schedule Status:** Complete.

**Agreements, Commitments and Actions:**

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**M-016-171** Complete K Basin sludge treatment and packaging technology evaluation report and submit a schedule including proposed new interim milestones for bench scale or identified testing in order to meet M-016-173  
**Due 03/31/2012, DOE Lead Roger Quintero**

- The Technology Evaluation and Alternatives Analysis Report was prepared and a Technology Approach recommendation was transmitted to DOE-RL for review. Review is in progress.
- A technical evaluation of the results from immersion milling at the Hochmeyer test facility was completed. The results from bench top testing using KW sludge simulant were used to establish a size reduction rate model. The bench top rate model was used to predict processing conditions and treatment durations for typical KE, KW, and Settler Tank sludge. The conclusions of the evaluation continue to show that immersion milling should be effective in reducing the processing time for oxidation of uranium metal contained in the sludge. The initial process configuration proposed by the vendor will require optimization due to projected slurry densities exceeding 35 volume percent in the milling vessel during the retrieval from the STSC

**Schedule Status:** On schedule.

**Agreements, Commitments and Actions:**

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**M-016-173** Select K Basin sludge treatment and packaging technology and propose new interim sludge treatment and packaging milestones.

**Due 03/31/2015 DOE Lead Roger Quintero**

**Schedule Status:** Pending completion of M-016-171.

**Agreements, Commitments and Actions:**

--

**M-016-172** Complete KOP material removal from 105-KW Fuel Storage Basin.

**Due 9/30/2012, DOE Lead Roger Quintero**

- Procurement of the “production hardware” associated with the KPS is in progress and on schedule.
- Offsite fabrication of additional MCOs for load out of the KOP product material is in progress as well as the copper inserts that will hold the KOP product material which will be placed in MCO baskets.
- Disposition of comments generated during the formal design review of final design was completed and final design report is being completed.
- The 90% Remedial Design Report Draft A was forwarded to EPA for review and comment.
- Received draft radioactive air emissions license amendments for Cold Vacuum Drying Facility and Canister Storage Building that are outside the bounds of the K Basin interim remedial action but support the processing and interim storage of the KOP product material following removal from the 105-K West Basin.
- Completed preparing a QAPjP/SAP for the field measurements associated with the removal of KOP product material from the 105-K West Basin

**Schedule Status:** On schedule.

**Agreements, Commitments and Actions:**

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**M-016-174** Complete final design of sludge retrieval and transfer system.  
**Due 9/30/2013, DOE Lead Roger Quintero**

- Field work on dismantling portions of the current 105-K West Basin annex to create an air gap between that portion of the structure that will remain and that portion that will be taken down has been completed to facilitate the removal of the rest of the annex.
- PNNL submitted a characterization data package associated with the analysis of the sludge samples taken from Engineered Container 210 that holds KW Basin floor and pit sludge. Data review has started. Analysis of Settler Tanks sludge from Engineered Container 230 has been received and is undergoing data validation.
- Preparation of the Preliminary Design Report has commenced.
- Completion of preliminary design is on track for completion in November 2011.
- Formal review of the preliminary design is planned for October 2011.
- Retrieval and transfer system optimization testing continues at MASF.

**Schedule Status:** On schedule.

**Agreements, Commitments and Actions:**

Data validation report for EC-230 will be provided to EPA at a future PMM.

**M-016-175** Begin sludge removal from 105-KW Fuel Storage Basin  
**Due 09/30/2014, DOE Lead Roger Quintero**

**Schedule Status:** Pending completion of M-016-174.

**Agreements, Commitments and Actions:**

**M-016-176** Complete sludge removal from 105-KW Fuel Storage Basin  
**Due 12/31/2015, DOE Lead Roger Quintero**

**Schedule Status:** Pending completion of M-016-175.

**Agreements, Commitments and Actions:**

**M-016-53** Complete the interim response actions for the 100 K Area within the perimeter boundary and to the river for Phase 1 actions.

**Due 12/31/2012, DOE Lead Ellen Dagan**

**Removal Actions:**

- Demolition of 183.1 KE below grade structure 100% Complete
- Asbestos removal at 165-KE has resumed.
- Demolition of 183.2 KE has begun, 25% complete.

**Remedial Actions:**

- Completed the drilling and logging of 10 additional DPTs under the 105-KE Reactor.
- Completed the cultural mapping and spraying of fiber mulch inside the excavation at the 100-K-63 waste site.
- Excavation and load out were completed at the following waste sites/structures in September:
  - 100-K-6
  - 1706-KER
  - 100-K-36
- Continued excavation and load out on the following waste sites in September:
  - 100-K-47
  - 116-KE-3
- The table below displays the number of tons and containers sent to ERDF during September.

Waste Site	Tons Shipped to ERDF	Number of Containers Shipped
1706-KER	43	4
116-KE-3	126	6
100-K-47	39	5
100-K-6	23	2

- Demolition of 190 KE is 100% complete.
- The VSI for the 100-K-77 waste site was approved by RL & EPA. The verification samples were collected, analyzed, and third-party validated. An RSVP was drafted and comments from EPA are being incorporated.
- The VSI for the 100-K-63 waste site is being reviewed by RL & EPA. The verification samples were collected and analysis of 62 samples from the unexcavated portion of the waste site is still incomplete. Samples were shipped offsite on September 27, 2011 due to the WSCF stop work. A backfill concurrence checklist was approved by RL & EPA on September 26, 2011. Backfill is scheduled to begin October 4, 2011.
- Incorporating comments from RL & EPA into the VSIs for the Area AA. Eighteen additional verification samples were collected and will be shipped offsite for analysis due to stop work at the WSCF.
- Continued drafting a VSI for waste sites 100-K-3, 100-K-47, 100-K-56, 100-K-68, 100-K-69, 100-K-70, and 100-K-71. The samples were collected, analyzed, and third-party validated. Drafting of an RSVP for the sites will begin after the VSI is approved.

- DOE and EPA met and discussed strategies for closing 100-K-64 and associated waste sites; and met to discuss the backfill of 100-K-63. An MOA is being prepared to conduct interim work to remove structure on the 100 K eastern floodplain.

**Schedule Status:** On schedule.

**Agreements, Commitments and Actions:**

DOE and EPA will continue to meet to discuss facility demolition and waste site remediation scheduling per the integrated schedule revisions.

DOE agreed to compare verification data to draft PRGs and document the comparison in the 100-K-110 waste site RSVP.

**M-016-143** Complete the interim response actions for the 100 K Area within the perimeter boundary and to the river for Phase 2 actions.

**Due 12/31/2015, DOE Lead Ellen Dagan/Steve Balone**

- Demolition of 1720K is complete.

**Schedule Status:** On schedule.

**Agreements, Commitments and Actions:**

**M-016-178** Initiate deactivation of 105-KW Fuel Storage Basin

**Due 12/31/2015, DOE Lead Steve Balone**

**Schedule Status:** Below water debris that will remain in the basin for removal as part of the basin substructure during demolition of the basin is being prepared for grouting by transloading the debris underwater into bins which includes an inspection for found fuel and removal of sludge from the internals of pumps once used for transferring sludge within the basin.

**Schedule Status:** On schedule.

**Agreements, Commitments and Actions:**

<b>MILESTONE</b>	<b>DESCRIPTION</b>	<b>DUE DATE</b>	<b>DOE LEAD</b>	<b>SCHEDULE STATUS</b>
M-093-22	Complete 105-KE Reactor Interim Safe Storage in Accordance with Remedial Design/Remedial Action Work Plan	7/31/2014	Ellen Dagan	On Schedule
M-093-26	Initiate 105-KW Reactor Interim Safe Storage	12/31/2015	Steve Balone	On Schedule
M-016-181	Complete Deactivation, Demolition, and Removal of 105-KW Fuel Storage Basin	9/30/2019	Steve Balone	On Schedule
M-093-27	Complete 105-KW Reactor Interim Safe Storage	12/31/2019	Steve Balone	On Schedule
M-016-186	Initiate Soil Remediation Under 105KW Fuel Storage Basin	12/31/2019	Steve Balone	On Schedule
M-016-00C	Complete All Response Actions in The 100 K Area	12/31/2020	Tom Teynor	On Schedule

## ATTACHMENT 3

# 100K AREA PROJECT MANAGERS MEETING RESPONSE ACTION AGREEMENTS

- Use of Spoil Piles from 183.2-KE & 183.2-KW Sedimentation Basins, 183.4-KE Clearwell and construction of the 189-K Water Treatment Facility as backfill material at 100-K:
  - It was agreed that the soil staged during construction of the 189-K Water Treatment Facility can be used as backfill material in the 183.4-KE and 183.4-KW Clearwells without further characterization. The 189-K facility was constructed in a location that did not have adjacent waste sites, the soil was not staged on a waste site footprint, and the soil was not commingled with soil excavated from waste sites at 100-K.
  - Spoil piles generated to create access to 183.2-KE & 183.2-KW Sedimentation Basins and the 183.4-KE Clearwell must be sampled as required by the *100 Area Remedial Action Sampling and Analysis Plan*, DOE/RL-96-22, Rev. 5, for overburden/layback sampling, to confirm it is suitable for use.
  - EPA concurrence with the above approach is documented in the attached email dated September 19, 2011 (Attachment 4).
- 183-KE Chlorine Vault – Concurrence for use of concrete rubble as backfill material
  - EPA concurrence was received on June 22, 2011 to use concrete rubble from the 183-KE Chlorine Vault demolition as backfill in the 100K Area clearwells, or in other excavation/demolition footprint areas where the bottom of the fill is greater than 3 meters above groundwater (Attachment 5).
- RL & EPA met on September 7, 2011 to discuss FY12 funding priorities, waste site layback safety requirements, and ongoing cultural review issues. Attachment 6 is a summary of the agreements and path forward for 100K Area waste sites.
- RL & EPA met on October 12, 2011 to review waste sites agreements from September 7, 2011. Attachment 7 provides an update to the September agreements.

## Attachment 4

Norman, Dottie L

**Subject:** FW: SPOIL PILES OF DIRT THAT CAN BE USED AS BACKFILL AT THE 100-K

-----Original Message-----

From: [Lobos.Rod@epamail.epa.gov](mailto:Lobos.Rod@epamail.epa.gov) [<mailto:Lobos.Rod@epamail.epa.gov>]  
 Sent: Monday, September 19, 2011 10:19 AM  
 To: Dittmer, Lorna M  
 Cc: Balone, Steven; Dagan, Ellen; Norman, Dottie L; Barnes, Brett M  
 Subject: Re: SPOIL PILES OF DIRT THAT CAN BE USED AS BACKFILL AT THE 100-K

Yes that is correct

Rod Lobos  
 Remedial Project Manager  
 Environmental Protection Agency, Region 10 Hanford Project Office  
 (509) 376-3749

From: "Dittmer, Lorna M" <[Lorna.M.Dittmer@RL.gov](mailto:Lorna.M.Dittmer@RL.gov)>  
 To: Rod Lobos/R10/USEPA/US@EPA  
 Cc: "Balone, Steven" <[steven.balone@rl.doe.gov](mailto:steven.balone@rl.doe.gov)>, "Dagan, Ellen" <[ellen.dagan@rl.doe.gov](mailto:ellen.dagan@rl.doe.gov)>, "Norman, Dottie L" <[Dottie.L.Norman@rl.gov](mailto:Dottie.L.Norman@rl.gov)>, "Barnes, Brett M" <[Brett.M.Barnes@rl.gov](mailto:Brett.M.Barnes@rl.gov)>  
 Date: 09/15/2011 03:13 PM  
 Subject: SPOIL PILES OF DIRT THAT CAN BE USED AS BACKFILL AT THE 100-K

Rod -

Per our conversation earlier, you agreed that the soil removed during construction of the water treatment plant can be used as backfill material in the clearwells without sampling.

For the soil piles from removal of dirt to access the following facilities:

- 183.2-KE Sedimentation Basins
- 183.4-KE Clearwells as well as soil pulled back to access
- 183.2-KW Sedimentation Basins

You have indicated that sampling must be conducted in accordance with the approach for overburden/layback sampling to confirm it is suitable for backfill.

Please reply back to this message for the project's documentation.

Thanks -

Lorna

# Attachment 5

**From:** Lobos.Rod@epamail.epa.gov [mailto:Lobos.Rod@epamail.epa.gov]  
**Sent:** Wednesday, June 22, 2011 1:50 PM  
**To:** Dagan, Ellen  
**Cc:** Dittmer, Lorna M  
**Subject:** Re: FW: Backfill concurrence for use of 183-KE CI vault debris

I concur.

Rod Lobos  
Remedial Project Manager  
Environmental Protection Agency, Region 10  
Hanford Project Office  
(509) 376-3749

From: "Dagan, Ellen" <Ellen.Dagan@rl.doe.gov>  
To: Rod Lobos/R10/USEPA/US@EPA  
Cc: "Dittmer, Lorna M" <lorna\_m\_dittmer@rl.gov>  
Date: 06/22/2011 07:19 AM  
Subject: FW: Backfill concurrence for use of 183-KE CI vault debris

---

Rod,

Here is the CI vault data. I've looked over the tables and have no issue with using the rubble from 183-KE CI vault as backfill.

Please let me know if you agree and I'll let Lorna know.

Thanks,

Ellen B. Dagan  
DOE-RL KBC D4

# Attachment 5

CHPRL-0900289 R2

**From:** Dittmer, Lorna M  
**Sent:** Tuesday, June 21, 2011 3:18 PM  
**To:** Dagan, Ellen  
**Cc:** Gilmore, Thomas F; Norman, Dottie L  
**Subject:** Backfill concurrence for use of 183-KE Cl vault debris  
**Importance:** High

Ellen –

As we spoke on the phone earlier, attached is a table that compares the highest values from the analysis of the concrete/rebar rubble from the 183-KE Chlorine Vault debris.

Three composite samples from locations selected at random were collected from debris piles for analysis.

**Methodology:** The highest value obtained for each constituent was compared to remedial action goals as defined in the 100 Area RDR (DOE/RL-96-17, Rev 6). If a constituent is present at levels that exceed the lowest RAG, then the  $K_d$  value in concrete was considered in determining mobility of the contaminant. The  $K_d$  values for concrete were obtained from the RDR/RAWP for the 100-N Area (DOE/RL-2005-93, Rev 0). Comparison of  $K_d$  values to the depth to groundwater using Table C-2 from the 100-N RDR, "Minimum Contaminant  $K_d$  Values Protective of Groundwater for Various Unsaturated/Uncontaminated Zone Thicknesses", a  $K_d$  value of 20 or higher is protective when 3 meters above groundwater or greater. For those constituents that had a result above the RAGs, all  $K_d$  values were greater than 30. Therefore, the contaminants in this material will not leach to groundwater within 1000 years as long as they are not placed within 3 meters of groundwater.

**PROTECTIVENESS STATEMENT:** This material is suitable for use as backfill in the clearwells, or in other excavations/demolition footprint areas where the bottom of the fill is greater than 3 meters above groundwater.

Please review this information and let me know if you have any questions. When you have concurred with this evaluation, please forward to Rod Lobos at EPA for EPA approval. Your email concurrence will satisfy the requirements for concurrence for this activity.

Lorna

[attachment "Cl vault data.docx" deleted by Rod Lobos/R10/USEPA/US]

# Attachment 5

## 183-KE Chlorine Vault Soil Cleanup Level Summary: Contaminant-Specific Concentrations and Comparison to RAGs and Concrete K<sub>d</sub> Values

Contaminant	Soil K <sub>d</sub> Value (mL/g)	Concrete K <sub>d</sub> Value (mL/g)	Back-ground (pCi/g)	RDL (pCi/g)	Soil Cleanup Levels (pCi/g) <sup>a</sup>			Exceeds RAGs?	Concrete K <sub>d</sub> <30 mL/g?
					Direct Exposure	Ground-water Protection	River Protection		
Contaminant	Soil K <sub>d</sub> Value (mL/g)	Concrete K <sub>d</sub> Value (mL/g)	Back-ground (mg/kg)	RDL (mg/kg)	Soil Cleanup Levels (mg/kg)			Exceeds RAGs?	Concrete K <sub>d</sub> <30 mL/g?
					Direct Exposure	Ground-water Protection	River Protection		
<b>Radionuclides</b>									
Cesium-137	50	2	1.1	0.1	6.2	1,465	2,930	<0.022 U	No
Cobalt-60	50	100	0.008	0.05	1.4	13,900	27,800	<0.0049 U	No
Europium-152	200	1000	--	0.1	3.3	--	--	<-0.0094	No
Europium-154	200	1000	0.033	0.1	3.0	--	--	<0.048 U	No
Europium-155	200	1000	0.054	0.1	125	--	--	<0.11 U	No
<b>Metals</b>									
Antimony	3.76	45	5	0.6	32	5 <sup>c</sup>	5 <sup>c</sup>	34.3	Yes
Arsenic	3	100	6.5	10	20 <sup>c</sup>	20 <sup>c</sup>	20 <sup>c</sup>	49.7	Yes
Barium	25	25	132	2	5,600	200	400	99.2	No
Beryllium	790	--	1.51	0.5	10.4 <sup>e</sup>	1.51 <sup>c</sup>	1.51 <sup>c</sup>	0.355 B	No
Boron	3	--	-- <sup>f</sup>	2	7,200	320	--	<0.51	No
Cadmium	30	30	0.81 <sup>b</sup>	0.5	13.9 <sup>e</sup>	0.81 <sup>c</sup>	0.81 <sup>c</sup>	0.166 BX	No
Chromium, Total	200	200	18.5	1	80,000	18.5 <sup>c</sup>	18.5 <sup>c</sup>	12.2	No
Chromium VI	0	870	-- <sup>f</sup>	0.5	2.1 <sup>c</sup>	4.8	2	2.81 N	Yes
Cobalt	50	--	15.7	2	24	15.7 <sup>c</sup>	--	7.43	No
Copper	22	100	22.0	1	2,960	59.2	22.0 <sup>c</sup>	35.6	Yes
Lead	30	500	10.2	5	353	10.2 <sup>c</sup>	10.2 <sup>c</sup>	9.69	No
Lithium	50	--	33.5	2.5	160	33.5 <sup>c</sup>	--	7.48	No
Manganese	50	100	512	5	3,760	512 <sup>c</sup>	512 <sup>c</sup>	292 N	No
Mercury	30	30	0.33	0.2	24	0.33 <sup>c</sup>	0.33 <sup>c</sup>	0.271	No
Molybdenum	20	--	-- <sup>f</sup>	2	400	8	--	1.59	No
Nickel	65	100	19.1	4	1,600	19.1 <sup>c</sup>	27.4	8.77	No
Selenium	5	0.1	0.78 <sup>b</sup>	1	400	5	1	<0.954	No
Silver	90	1	0.73	0.2	400	8	0.73 <sup>c</sup>	<0.10	No
Strontium	25	--	-- <sup>f</sup>	1	48,000	960	--	105	No
Tin	130	--	-- <sup>f</sup>	10	48,000	960	--	7.58	No
Uranium (soluble salts)	2	--	3.21	1	240	3.21 <sup>c</sup>	3.21 <sup>c</sup>	0.961	No
Vanadium	1,000	100	85.1	2.5	560	85.1 <sup>c</sup>	--	51.3	No
Zinc	30	30	67.8	1	24,000	480	67.8 <sup>c</sup>	164	Yes
<b>Inorganic Anions</b>									
Chloride	0	--	100	2	--	25,000	--	97.8	No
Sulfate	0	0	237	5	--	25,000	--	290	No

- a Soil cleanup levels in this table are obtained from Table B-4 and B-7 of Appendix B of this document. Radionuclide soil activities protective of groundwater and the river were calculated using RESRAD Version 6.4 (ANL 2007) assuming that no uncontaminated vadose zone exists between the contaminated zone and groundwater. Nonradionuclide soil concentrations protective of groundwater and the river are based upon application of the "100 times" rule (Ecology 1996).
- b Where cleanup levels are less than RDLs, cleanup levels default to RDLs per WAC 173-340-707(2) (Ecology 1996). The cited RDLs are based on EPA-approved analytical methods that may not be available for rapid turnaround analyses. Prior notification and concurrence with the laboratory may be necessary to analyze to meet this RDL. Actual detection limits may differ from any RDL.
- c Where cleanup levels are less than background, cleanup levels default to background per WAC 173-340-700[4][d] (1996). The arsenic cleanup level of 20 mg/kg has been agreed to by the Tri-Party Agreement Project Managers as discussed in Section 2.1.2.1 of this document.
- d Tritium samples will be taken 15.2 cm (6 in.) below the excavation surface. If tritium is detected, a path forward will be developed with the lead regulatory agency for appropriate cleanup verification sampling (per TPA-CN-177).
- e Carcinogenic cleanup level calculated based on the inhalation exposure pathway (WAC 173-340-750[3], 1996) using an airborne particulate mass-loading rate of 0.0001 g/m<sup>3</sup> (WDOH 1997).
- f No Hanford Site-specific or Washington State background value is available.
- g Hanford Site-specific background not available. Value is Washington State background from Ecology (1994).

-- = not available

EPA = U.S. Environmental Protection Agency

K<sub>d</sub> = Distribution coefficient discussed in Appendix E. K<sub>d</sub> values also found in the Ecology CLARC Database at < <http://www.ecy.wa.gov> > or from the Risk Assessment Information System database maintained by the Oak Ridge National Laboratory at < <http://risk.lsd.ornl.gov> >.

PCB = polychlorinated biphenyl

RDL = required detection limit

RESRAD = RESidual RADioactivity

TPH = total petroleum hydrocarbon

WAC = *Washington Administrative Code*

B = analyte was detected in both the blank and the sample

N = spike recovery is outside the control limits

X = The laboratory control sample did not meet laboratory acceptance limits

## ATTACHMENT 6

**Summary of agreements made between RL & EPA on September 7, 2011.**

RL & EPA agreed to shift the following waste sites based on FY12 funding priorities, layback safety requirements, and ongoing cultural review issues:

1. The following waste sites planned for remediation in FY12 will be moved to Phase 2, if not already there.
  - 100-K-80, 100K River Effluent Pipeline, 100K River Line, 1908K Outfall
  - 100-K-81, Contamination Area West of 116-K-3
  - 100-K-83, 1904K Spillway, 116-K3, 1904K Outfall Structure
  - 100-K-96, 100KE River Effluent Pipeline, River Line (East) from 116-K-3 Outfall
  - 116-K-3, 1904K Outfall Structure, 1908K Outfall Structure
2. The following waste site will be moved to Phase 3. The waste site will need to be accounted for in the pending RI/FS.
  - 100-K-55, 100-KW Reactor Cooling Water Effluent Underground Pipelines
  - 100-K-79, Sodium Dichromate and Sulfuric Acid Product Pipelines at 100K
3. The following waste sites will move to Phase 2:
  - 100-K-57, 107-KE Drainage Ditch
  - 100-K-64, 100KE Floodplain Contamination Area
  - 100-K-56, 100-KE Reactor Cooling Water Effluent Underground Pipelines
4. The following waste site will stay in Phase 1 as a placeholder to ensure all information needed for the Final ROD is accounted for in the pending RI/FS.
  - 116-KE-1, 115-KE Condensate Crib

\* Rod Lobos commented that if the RI/FS is inadequate, there will be no relief on the waste sites milestones. The RI/FS needs to account for all 100K needs.

**Backfill agreements:**

- 100-K-63 – backfill can be initiated (pending final sampling results). The area should be contoured to match the surrounding terrain
- Interim closure may be pursued for Phase 1 waste sites in areas with many contiguous waste sites (e.g., Area AA in the vicinity of the former KW Headhouse), and associate resolution of the residual concern (underlying hexavalent chromium source term) with the appropriate Phase 2 or Phase 3 waste sites that are located in the broad excavation footprint.
- RL will provide a backfill/re-vegetation proposal to EPA to define the strategy for backfill and re-vegetation, especially in large/deep excavations that encompass multiple facility and/or waste site footprints. EPA expects that areas will have undulations and not graded flat so the amount of fill will vary. Soil stabilizing agents with minimal vegetation cover in the interim may be considered in the proposal.

RL discussed that some waste sites will have to be shifted to coordinate STP activities with 105-KW Basin deactivation activities. RL and EPA agreed to table those decisions but recognize options will be considered for baseline planning. RL will start preparing the proposed path forward but EPA will not entertain a final decision for a year or more.

## ATTACHMENT 7

**October 12, 2011 Updated Summary of 100K Area Waste Site Agreements between RL & EPA**

On September 7, 2011, RL & EPA discussed the following shifts in 100K Area waste sites based on FY12 funding priorities, layback safety requirements, and ongoing cultural review issues. Status in bold reflects decisions as of October 12, 2011.

1. The following waste sites planned for remediation in FY12 will be moved to Phase 2, if not already there, as a result of ongoing cultural review issues.
  - 100-K-80, 100K River Effluent Pipeline, 100K River Line, 1908K Outfall
  - 100-K-81, Contamination Area West of 116-K-3
  - 100-K-83, 1904K Spillway, 116-K3, 1904K Outfall Structure
  - 100-K-96, 100KE River Effluent Pipeline, River Line (East) from 116-K-3 Outfall
  - 116-K-3, 1904K Outfall Structure, 1908K Outfall Structure

**Status: EPA concurrence is pending a review of the 100K Area RI/FS.**

2. The following waste site will be moved to Phase 3 as a result of layback safety requirements and removing sludge from the 105-KW Basin. The waste site will need to be accounted for in the pending RI/FS.
  - 100-K-55, 100-KW Reactor Cooling Water Effluent Underground Pipelines
  - 100-K-79, Sodium Dichromate and Sulfuric Acid Product Pipelines at 100K.

**Status: EPA concurs. RL will prepare a TPA-CN for EPA approval.**

3. The following waste sites will move to Phase 2 as a result of ongoing cultural review issues:
  - 100-K-57, 107-KE Drainage Ditch
  - 100-K-64, 100KE Floodplain Contamination Area
  - 100-K-56, 100-KE Reactor Cooling Water Effluent Underground Pipelines

**Status: EPA concurrence is pending a review of the 100K Area RI/FS.**

4. The following waste site will stay in Phase 1 as a placeholder to ensure all information needed for the Final ROD is accounted for in the pending RI/FS.
  - 116-KE-1, 115-KE Condensate Crib

**Status: EPA concurrence is pending a review of the 100K Area RI/FS.**

\* Rod Lobos commented that if the RI/FS is inadequate, there will be no relief on the waste sites milestones. The RI/FS needs to account for all 100K needs.

Backfill agreements concurred by EPA on September 7, 2011:

- 100-K-63 – backfill can be initiated (pending final sampling results). The area should be contoured to match the surrounding terrain
- Interim closure may be pursued for Phase 1 waste sites in areas with many contiguous waste sites (e.g., Area AA in the vicinity of the former KW Headhouse), and associate resolution of the residual concern (underlying hexavalent chromium source term) with the appropriate Phase 2 or Phase 3 waste sites that are located in the broad excavation footprint.

## ATTACHMENT 7

- RL will provide a backfill/re-vegetation proposal to EPA to define the strategy for backfill and re-vegetation, especially in large/deep excavations that encompass multiple facility and/or waste site footprints. EPA expects that areas will have undulations and not graded flat so the amount of fill will vary. Soil stabilizing agents with minimal vegetation cover in the interim may be considered in the proposal.

RL discussed that some waste sites will have to be shifted to coordinate STP activities with 105-KW Basin deactivation activities. RL and EPA agreed to table those decisions but recognize options will be considered for baseline planning. RL will start preparing the proposed path forward but EPA will not entertain a final decision for a year or more.

100K Area Removal Action Status (October 13, 2011)

Phase 1 M-016-053: December 31, 2012	Phase 2 M-016-143: December 31, 2015	Phase 3 (M-016-00C: December 31, 2020)
<p>110KW Gas Storage Facility 110KE Gas Storage Facility 115KE Gas Recirculation Building 116KE Reactor Exhaust Stack 117KE Exhaust Air Filter Building 118KE Horizontal Control Rod Storage Cave 119KE Exhaust Air Sampling 1706KE Radiation Control Counting Lab 1706KEL Developmental Lab 1706KER Water Studies Recirculation Bldg 1713KE Warehouse 1714KE Oil and Paint Storage Shed 183.4KW Clearwell 183.1KW Head House 181KE River Pump House 183.2KW Sedimentation Basin 183.3KW Filter Basin MO048 Construction Lunch Trailer MO060 Conference Trailer MO872 Leased trailer MO873 Leased trailer MO969 HPT Change Trailer 1605KE Guard Tower East</p>	<p>115KW Gas Recirculation Building 116KW Reactor Exhaust Stack 117KW Exhaust Air Filter Building 118KW Horizontal Control Rod Storage Cave 119KW Exhaust Air Sampling Building 166AKE Oil Storage Facility 166KE Oil Storage Vault 166KW Oil Storage Vault 1705KE Effluent Water Treatment Pilot Plant 1713KER Shop Building 1713KW Warehouse 1714KW Oil and Paint Storage Shed 1720K Administration Office Building 1724KB Gas Bottle Storage Facility 182K Emergency Water Reservoir Pump House 183.5KW Lime Feeder Building 183.6KW Lime Feeder Building MO101 Administration MO102 Administration MO214 Administration MO382 Office MO401 Administration MO402 Administration MO442 Classroom/Office MO506 CVDF Lunch Room MO507 CVDF Conference Room MO907 Administration MO917 CVDF Administration MO928 Administration</p>	<p>105KW Water Tunnel 142K CVDF 1506K1 Fiber Optics Hut 165KE Power Control Bldg 142KA CVDF Generator Bldg 165KW Power Control Bldg 167K Cross-tie Tunnel Bldg 1717K Maintenance Shop 1724K Maintenance Shop 1724KA Storage Shed 181KW River Pump House 183KE Chlorine Vault 183.2KE Sedimentation Basin 183.3KE Filter Basin 183.4KE Clearwell 183.1KE Headhouse 183.5KE Lime Feeder 183.6KE Lime Feeder 185K Potable Water Treatment Plant 1908K Outfall Structure 1908KE Outfall Structure 190KE Main Pump House 190KW Main Pump House MO054 Construction Lunch Room MO500 Administration MO236 KW Ops/HPT Change MO237 KW Construction Forces MO323 CVD Change Trailer MO955 Conference Room 1605KW Guard Tower West</p>

Field Work In Progress

Demolition Complete

Closure Actions and  
Documentation Complete

Site Code	Site Names	TPA-CN-320	PMB Remedy	CSNA Documentation	Waste Site Status	VSI	VSI Status	Priority	RSVP	Area	Area	Backfill Date (estimated)	Revegetation Date (estimated)
100-K-18	183-KW Caustic Neutralization Pit	Phase 1	RTD	N/A	On hold pending review of pipeline	RA-00368	On hold			AA	KW Headhouse	6/30/2012	11/30/2012
100-K-19	183-KW Caustic Soda Storage Tank Site	Phase 1	CSNA	RA-00134	On hold pending review of pipeline	RA-00368	On hold			AA	KW Headhouse	6/30/2012	11/30/2012
100-K-3	1706-KE Fish Pond Heat Exchanger Pit and Pump Pit, Water Studies Semi-Works	Phase 1	RTD	N/A	Drafting V.S.I. Samples collected		Drafting			AG	North of 105-KE	6/30/2012	11/30/2012
100-K-34	183-KW Acid Neutralization Pit	Phase 1	RTD	N/A	On hold pending review of pipeline	RA-00371	On hold			AA	KW Headhouse	6/30/2012	11/30/2012
100-K-36	1706-KE Chemical Storage Facility Dry Well	Phase 1	CSNA	RA-00122	Field work complete, sample design complete		Drafting			AH	East of 1706-KE	6/30/2012	11/30/2012
100-K-37	1706-KE Sulfuric Acid Tank	Phase 1	CSNA	RA-00122	Closed				DOE/RL-2010-44	AH	N/A	N/A	11/30/2012
100-K-38	100-K-38, 1706-KE Caustic Soda Tank	Phase 1	CSNA	RA-00122	Closed				DOE/RL-2010-44	AH	N/A	N/A	11/30/2012
100-K-46	100-K-46, 119-KE French Drain, Drywell	Phase 1	CSNA	RA-00145	Field work complete, ARES sample design complete		Drafting			AH	East of 105-KE	6/30/2012	11/30/2012
100-K-53	100-K-53, 100-KE Glycol Heat Recovery Underground Pipelines	Phase 1	RTD	N/A	All verification samples should be collected by 10/13/11		Drafting			AH	East of 105-KE	6/30/2012	11/30/2012
100-K-55	100-K-55, 100-KW Reactor Cooling Water Effluent Underground Pipelines	Phase 1	RTD	N/A	Not Started					AF	N/A	TBD	TBD
100-K-56	100-K-56, 100-KE Reactor Cooling Water Effluent Underground Pipelines	Phase 1	RTD	N/A	Drafting V.S.I. Samples collected		Drafting			AG	North of 105-KE	6/30/2012	11/30/2012
100-K-57	100-K-57, 107-KE Drainage Ditch	Phase 1	RTD	N/A	Not Started, included in TPA-CN-412					AM	KE Floodplain	TBD	TBD
100-K-6	Vacuum Pit, Cyclone Separator, 105-KE Vacuum Pit	Phase 1	CSNA	RA-00142	Field work complete, ARES sample design complete		Drafting			AH	East of 105-KE	6/30/2012	11/30/2012
100-K-62	100-K-62, 117-KE Filter Building	Phase 1	CSNA	RA-00136	Field work complete, ARES sample design complete		Drafting			AH	East of 105-KE	6/30/2012	11/30/2012
100-K-63	100-K-63, 100-KW Floodplain, 100-K Flood Plain Contamination Area	Phase 1	CSNA	RA-00086	Backfilling, sample results from the unexcavated area are due 10/14	RA-00401	Approved 9/28/2011			AJ	KW Floodplain	6/30/2012	11/30/2012
100-K-64	100-KE Floodplain, 100-KE Flood Plain Contamination Area	Phase 1	CSNA	RA-00086	Not Started					AM	KE Floodplain	TBD	TBD
100-K-68	100-K-68, 105-KE Pump Gallery and Catch Tank, D Sump	Phase 1	RTD	N/A	Drafting V.S.I. Samples collected		Drafting			AG	North of 105-KE	6/30/2012	11/30/2012
100-K-69	100-K-69, 105-KE Sump C	Phase 1	RTD	N/A	Drafting V.S.I. Samples collected		Drafting			AG	North of 105-KE	6/30/2012	11/30/2012
100-K-70	100-K-70, 105-KE Waste Storage Tank, Holding Tank	Phase 1	RTD	N/A	Drafting V.S.I. Samples collected		Drafting			AG	North of 105-KE	6/30/2012	11/30/2012
100-K-71	100-K-71, 105-KE Collection Box	Phase 1	RTD	N/A	Drafting V.S.I. Samples collected		Drafting			AG	North of 105-KE	6/30/2012	11/30/2012
100-K-77	100-K-77, Underground Railroad Ties Southeast of 1706KE	Phase 1	RTD	N/A	Closed	RA-00379	Approved 9/8/2011		DOE/RL-2011-105	AH	East of 1706-KE	6/30/2012	11/30/2012
100-K-79	Sodium Dichromate and Sulfuric Acid Product Pipelines at 100-K	Phase 1	CSNA	RA-00134	Not Started / Failed Confirmatory Sampling / On hold pending review of pipeline	RA-00368	Part 1, On hold			AA/AB/AF	KW Headhouse, KE Headhouse and runs between 105-KE and 105-KW	TBD	TBD
116-KE-1	116-KE-1, 115-KE Condensate Crib	Phase 1	RTD	N/A	Not complete					AH	N/A	TBD	TBD
116-KE-3	116-KE-3, 105-KE Storage Basin French Drain, 105-KE Fuel Storage Basin Sub-Basin Drainage Disposal System Crib	Phase 1	RTD	N/A	Exceeds RAGs needs additional remediation					AG	North of 105-KE	6/30/2012	11/30/2012
116-KE-6A	116-KE-6A, 1706-KE Condensate Collection Tank, 1706-KE Waste Treatment System	Phase 1	CSNA	RA-00121	Closed				DOE/RL-2010-42	AH	N/A	N/A	11/30/2012
116-KE-6B	116-KE-6B, 1706-KE Evaporation Tank, 1706-KE Waste Treatment System	Phase 1	CSNA	RA-00121	Closed				DOE/RL-2010-42	AH	N/A	N/A	11/30/2012
116-KE-6C	116-KE-6C, 1706-KE Waste Accumulation Tank, 1706-KE Waste Treatment System	Phase 1	CSNA	RA-00121	Closed				DOE/RL-2010-42	AH	N/A	N/A	11/30/2012
116-KE-6D	116-KE-6D, 1706-KE Ion Exchange Column, 1706-KE Waste Treatment System	Phase 1	CSNA	RA-00121	Closed				DOE/RL-2010-42	AH	N/A	N/A	11/30/2012
118-KE-2	118-KE-2, 105-KE Horizontal Control Rod Storage Cave	Phase 1	CSNA	RA-00119	Closed				DOE/RL-2010-50	AH	N/A	N/A	11/30/2012
120-KW-1	120-KW-1, 183-KW Filter Water Facility Dry Well, 100-KW-1, 183-KW Acid Neutralization Pit, 100-K-17	Phase 1	RTD	N/A	Draft V.S.I. is with DOE/EPA for review	RA-00358	Draft is being reviewed by DOE/EPA	High priority in-order to gain approval to backfill		AA	KW Headhouse	6/30/2012	11/30/2012
120-KW-2	120-KW-2, 183-KW Filter Water Facility French Drain, 100-KW-2	Phase 1	RTD	N/A	Draft V.S.I. is with DOE/EPA for review	RA-00358	Draft is being reviewed by DOE/EPA	High priority in-order to gain approval to backfill		AA	KW Headhouse	6/30/2012	11/30/2012
120-KW-3	120-KW-3, 183-KW1 Sulfuric Acid Storage Tank	Phase 1	CSNA	RA-00134	Draft V.S.I. is with DOE/EPA for review	RA-00358	Draft is being reviewed by DOE/EPA	High priority in-order to gain approval to backfill		AA	KW Headhouse	6/30/2012	11/30/2012
120-KW-4	120-KW-4, 183-KW2 Sulfuric Acid Storage Tank	Phase 1	CSNA	RA-00134	Draft V.S.I. is with DOE/EPA for review	RA-00358	Draft is being reviewed by DOE/EPA	High priority in-order to gain approval to backfill		AA	KW Headhouse	6/30/2012	11/30/2012
120-KW-5	120-KW-5, 183-KW Sodium Dichromate Storage Tank	Phase 1	CSNA	RA-00134	On hold pending review of pipeline	RA-00368	On hold			AA	KW Headhouse	6/30/2012	11/30/2012
120-KW-7	120-KW-7, 183-KW Brine Pit, 183-KW Salt Dissolving Pits and Brine Pump Pit	Phase 1	CSNA	RA-00134	On hold pending review of pipeline	RA-00368	On hold			AA	KW Headhouse	6/30/2012	11/30/2012
130-KE-1	130-KE-1, 105-KE Emergency Diesel Oil Storage Tank, 105-KE Emergency Diesel Fuel Tank	Phase 1	CSNA	RA-00133	Closed				DOE/RL-2010-45	AH	N/A	N/A	11/30/2012
132-KE-1	132-KE-1, 116-KE Reactor Exhaust Stack	Phase 1	CSNA	RA-00136	Field work complete, ARES sample design complete		Drafting			AH	East of 105-KE	6/30/2012	11/30/2012
1607-K3	1607-K3 Septic Tank and Associated Drain Field	Phase 1	RTD	N/A	On hold pending review of pipeline	RA-00371	On hold			AA	KW Headhouse	6/30/2012	11/30/2012

Site Code	Site Names	TPA-CN-320	PMB Remedy	CSNA Documentation	Waste Site Status	VSI	VSI Status	Priority	RSVP	Area	Area	Backfill Date (estimated)	Revegetation Date (estimated)
100-K-96	100-K-96, 100KE River Effluent Pipeline, 100KE River Line, River Line (East) from 116-K-3 Outfall	Phase 2	RTD	N/A	Drafting MOA for RTD								
100-K-1	100-K-1, 119-KW French Drain, 119-KW Exhaust Air Sample Building French Drain, 100-K-45	Phase 2	RTD	N/A	Not Started								
100-K-100	100-K-100, Radioactive Material Area Remaining After 107-KW Basin Removal, 116-KW-3 Remaining Contaminated Soil and Items	Phase 2	RTD	N/A	Not Started								
100-K-101	100-K-101, French Drains and Mercury Stained Soils near the 183KE Sedimentation Basin	Phase 2	RTD	N/A	Not Started								
100-K-102	100-K-102, French Drains and Mercury Stained Soils near the 183KW Sedimentation Basin	Phase 2	RTD	N/A	On hold pending review of pipeline	RA-00371	On hold						
100-K-103	100-K-103, 1704-K and 1717-K Septic Systems, 1607-K4	Phase 2	RTD	N/A	Not Started								
100-K-104	100-K-104, 166-KE French Drain	Phase 2	RTD	N/A	Not Started								
100-K-105	100-K-105, Pit at Southeast Corner of 100K	Phase 2	RTD	N/A	Not Started								
100-K-106	100-K-106, 182-K Fuel Oil Crib	Phase 2	RTD	N/A	Not Started								
100-K-107	100-K-107, 1706-KER Abandoned Drain Field	Phase 2	RTD	N/A	Not Started								
100-K-108	100-K-108, 1706-KER Septic System	Phase 2	RTD	N/A	Not Started								
100-K-109	100-K-109, Unplanned Chemical Release near 183.1KW Head House, Yellow Stained Soil adjacent to 183.1KW Head House	Phase 2	RTD	N/A	Draft V.S.I is with DOE/EPA for review	RA-00361	Draft is being reviewed by DOE/EPA	High priority in-order to gain approval to backfill					
100-K-110	Soil beneath 183.2-KW Flocculation and Sedimentation Basins; the 183.3-KW Sand Filter Basins	Phase 2	N/A	N/A	On hold pending review of pipeline								
100-K-13	100-K-13, French Drain West of the 166-KW Oil Storage Tank Facility	Phase 2	CSNA	RA-00144	Not Started								
100-K-14	100-K-14, 183-KE Acid Neutralization Pit and Overflow French Drain	Phase 2	RTD	N/A	Not Started								
100-K-25	100-K-25, 183-KE Caustic Neutralization Pit	Phase 2	CSNA	RA-00139	Not Started								
100-K-27	100-K-27, 183-KE Caustic Soda Storage Tank Site	Phase 2	RTD	N/A	Not Started								
100-K-4	100-K-4, 1706-KE Wet Fish Studies Ponds and Valve Pit	Phase 2	RTD	N/A	Closed				DOE-RL-2010-43				
100-K-48	100-K-48, 100-KE Oil Contamination Areas	Phase 2	CSNA	RA-00147	Not Started								
100-K-49	100-K-49, 100-KW Oil Contamination Area	Phase 2	CSNA	RA-00147	Not Started								
100-K-5	100-K-5, 1705-KE French Drain	Phase 2	CSNA	RA-00146	Not Started								
100-K-54	100-K-54, 100-KW Glycol Heat Recovery Underground Pipelines	Phase 2	RTD	N/A	Not Started								
100-K-56	100-K-56, 100-KE Reactor Cooling Water Effluent Underground Pipelines (See Subsites)	Phase 2	RTD	N/A	Not Started								
100-K-60	100-K-60, 1904-K Process Sewer (165-KW)	Phase 2	CSNA	RA-00148	Not Started								
100-K-61	100-K-61, 117-KW Filter Building	Phase 2	CSNA	RA-00136	Not Started								
100-K-66	100-K-66, 165-KW Power Control Building	Phase 2	CSNA	RA-00136	Not Started								
100-K-67	100-K-67, 165-KE Power Control Building	Phase 2	CSNA	RA-00136	Not Started								
100-K-83	100-K-83, 1904- K Spillway, 116-K-3, 1904-K Outfall Structure	Phase 2	CSNA	RA000149	Drafting MOA for RTD								
100-K-94	100-K-94, 1702-KE and 1702-KW Guard House Dry Wells	Phase 2	RTD	N/A	Not Started								
100-K-97	100-K-97, 183-KW French Drain and Rail Spur Unplanned Release	Phase 2	RTD	N/A	EPA comments are being incorporated into V.S.I, Samples collected	RA-00368	Incorporating comments from EPA						
100-K-98	100-K-98, 183-KE French Drain and Rail Spur Unplanned Release	Phase 2	RTD	N/A	Not Started								
100-K-99	100-K-99, Radioactive Material Area Remaining After 107-KE Basin Removal, 116-KE-4 Contaminated Soil and Items	Phase 2	RTD	N/A	Not Started								
116-KW-1	116-KW-1, 115-KW Condensate Crib	Phase 2	RTD	N/A	Not Started								
118-KW-2	118-KW-2, 105-KW Horizontal Control Rod Storage Cave	Phase 2	RTD	N/A	Closed				DOE/RL-2011-35				
120-KE-1	120-KE-1, 183-KE Filter Waste Facility Dry Well, 100-KE-1, 183-KE Filter Water Facility, 183-KE Acid Neutralization Pit, 100-K-26	Phase 2	RTD	N/A	Not Started								
120-KE-2	120-KE-2, 183-KE Filter Waste Facility French Drain, 100-KE-2, 183 KE Filter Water Facility	Phase 2	RTD	N/A	Not Started								
120-KE-3	120-KE-3, 100-KE-3, 183-KE Filter Water Facility Trench	Phase 2	CSNA	RA-00134	Not Started								
120-KE-4	120-KE-4, 183-KE1 Sulfuric Acid Storage Tank	Phase 2	RTD	RA-00134	Not Started								
120-KE-5	120-KE-5, 183-KE2 Sulfuric Acid Storage Tank	Phase 2	RTD	RA-00134	Not Started								
120-KE-6	120-KE-6, 183-KE Sodium Dichromate Tank	Phase 2	CSNA	RA-00134	Not Started								
120-KE-8	120-KE-8, 165-KE Brine Pit, 165-KE Brine Mixing Tank	Phase 2	CSNA	RA-00141	Not Started								
120-KE-9	120-KE-9, 183-KE Brine Pit, 183-KE Salt Dissolving Pits and Brine Pump Pit	Phase 2	RTD	N/A	Not Started								
120-KW-6	120-KW-6, 165-KW Brine Pit, 165-KW Brine Mixing Tank	Phase 2	CSNA	RA-00141	Not Started								
126-KE-2	126-KE-2, 183-KE Liquid Alum Storage Tank #2	Phase 2	RTD	N/A	Not Started								
130-K-2	130-K-2, 1717-K Waste Oil Storage Tank	Phase 2	CSNA	RA-00150	Not Started								
130-KE-2	130-KE-2, 166-KE Oil Storage Tank	Phase 2	CSNA	RA-00136	Not Started								
130-KW-1	130-KW-1, 105-KW Emergency Diesel Oil Storage Tank, 130-KW-1A/130-KW-1B Tanks, 105-KW Emergency Diesel Fuel Tank	Phase 2	CSNA	RA-00137	Not Started								
130-KW-2	130-KW-2, 166-KW Oil Storage Tank	Phase 2	CSNA	RA-00136	Not Started								
132-KW-1	132-KW-1, 116-KW Reactor Exhaust Stack	Phase 2	CSNA	RA-00136	Not Started								
1607-K1	1607-K1, 1607-K1 Septic Tank and Associated Drain Field, 124-K-1, 1607-K1 Sanitary Sewer System, 1607-K1 Septic Tank	Phase 2	RTD	RA-00135	Not Started								

Site Code	Site Names	TPA-CN-320	PMB Remedy	CSNA Documentation	Waste Site Status	VSI	VSI Status	Priority	RSVP	Area	Area	Backfill Date (estimated)	Revegetation Date (estimated)
1607-K2	1607-K2, 1607-K2 Septic Tank and Associated Drain Field, 124-KE-1, 1607-K2 Sanitary Sewer System, 1607-K2 Septic Tank	Phase 2	RTD	RA-00135	Not Started								
1607-K4	1607-K4, 1607-K4 Septic Tank and Associated Drain Field, 124-K-2, 1607-K4 Sanitary Sewer System, 1607-K4 Septic Tank	Phase 2	RTD	N/A	Closed								
1607-K5	1607-K5, 1607-K5 Septic Tank and Associated Drain Field, 124-KE-2, 1607-K5 Sanitary Sewer System, 1607-K5 Septic Tank	Phase 2	RTD	RA-00135	Not Started								
1607-K6	1607-K6, 1607-K6 Septic Tank and Associated Drain Field, 124-KW-1, 1607-K6 Sanitary Sewer System, 1607-K6 Septic Tank	Phase 2	RTD	RA-00135	Not Started								

Site Code	Site Names	TPA-CN-320	PMB Remedy	CSNA Documentation	Waste Site Status	VSI	VSI Status	Priority	RSVP	Area	Area	Backfill Date (estimated)	Revegetation Date (estimated)
100-K-35	100-K-35, 183-KE Acid Neutralization Pit	Phase 3	CSNA	RA-00139	Not Started								
100-K-43	100-K-43, KW Basin, 105-KW Fuel Storage Basin, K West Basin, Irradiated Fissile Material Storage	Phase 3	RTD	N/A	Not Started								
100-K-47	100-K-47, 1904-K Process Sewer	Phase 3	RTD	N/A	Not Started								
100-K-56	100-K-56, 100-KE Reactor Cooling Water Effluent Underground Pipelines (See Subsites)	Phase 3	RTD	N/A	Not Started								
100-K-55	100-K-55, 100-KW Reactor Cooling Water Effluent Underground Pipelines (See Subsites)	Phase 3	RTD	N/A	Not Started								
100-K-72	100-K-72, 105-KW Pump Gallery and Catch Tank, D Sump	Phase 3	RTD	N/A	Not Started								
100-K-73	100-K-73, 105-KW Collection Box	Phase 3	RTD	N/A	Not Started								
100-K-74	100-K-74, 105-KW Waste Storage Tank, Holding Tank	Phase 3	RTD	N/A	Not Started								
100-K-75	100-K-75, 105-KW Sump C	Phase 3	RTD	N/A	Not Started								
100-K-80	100-K-80, 100K River Effluent Pipeline, 100K River Line, 116-K-3 Outfall Structure, 1908 K Outfall	Phase 3	RTD	N/A	Drafting MOA for RTD								
100-K-81	100-K-81, Contamination Area West of 116-K-3	Phase 3	RTD	N/A	Drafting MOA for RTD								
100-K-82	100-K-82, 105 -KW Fuel Storage Basin Leak	Phase 3	CSNA	RA-00143	Not Started								
116-K-3	116-K-3, 1904-K Outfall Structure, 1908-K Outfall Structure	Phase 3	RTD	N/A	Drafting MOA for RTD								
116-KE-2	116-KE-2, 1706-KER Waste Crib	Phase 3	RTD	N/A	Not Started								
116-KW-2	116-KW-2, 105-KW Storage Basin French Drain, 105-KW Basin Reverse Well, 105-KW Fuel Storage Basin Sub-Basin Drainage Disposal System Crib	Phase 3	RTD	N/A	Not Started								
118-KW-1	118-KW-1, 105-KW Reactor Building	Phase 3	CSNA	RA-00136	Not Started								