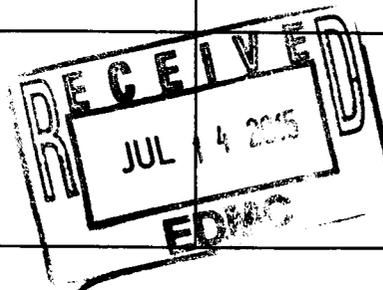


River Corridor/Central Plateau Milestone Review
June 18, 2015
AGENDA

Chairperson: D. Faulk

Time	Milestones	Subject	DOE Presenter
8:30 a. m.		RL Key Documents List	Ray Corey
8:35 a.m.	M-16, 89, 93 and 94	River Corridor Closure	Mark French
8:50 a.m.	M-16 and 93	100 K Remediation	Roger Quintero
9:05 a.m.	M-36	Life Cycle Report	Stephen Korenkiewicz
9:10 a.m.	M-83	PPF Transition	Tom Teynor
9:30 a.m.	M-26	Land Disposal Restrictions Report	Mike Collins
9:35 a.m.	M-91	Acquisition of Facilities to TSD TRU/TRUM and LLMW	Mike Collins
9:40 a.m.	M-16 and 85	Central Plateau Remediation	Al Farabee
9:45 a.m.	M-15, 16, 24, 37 and 85	Soil and Groundwater Remediation	Mike Cline
10:05 a.m.	Adjourn Milestone Review		



Tri-Party Agreement Quarterly Milestone Review

6-18-15

<u>Name</u>	<u>Organization</u>
<u>ROB PIRRO</u>	<u>NSA-TPA</u>
<u>Kathy Knox</u>	<u>Knox Court Reporting</u>
<u>Don Boecker</u>	<u>WCH</u>
<u>Peter Bengtson</u>	<u>WCH</u>
<u>Brian Johnson</u>	<u>Ecology</u>
<u>Tim Mullin</u>	<u>Ecology</u>
<u>Gordon Dorer</u>	<u>WCH</u>
<u>Theresa Howell</u>	<u>WCH</u>
<u>SCOTT SAX</u>	<u>WCH</u>
<u>Shirley Ciman</u>	<u>ODOE</u>
<u>Jane V. Borghes</u>	<u>CHPRC</u>
<u>DENNIS FAULK</u>	<u>EPA</u>
<u>JANE HEDGES</u>	<u>Ecology</u>
<u>McLinda J Brown</u>	<u>Egy NWP</u>
<u>John Price</u>	<u>Ecology</u>
<u>For Skinnard</u>	<u>Ecology</u>
<u>Roger Quintero</u>	<u>DOE-RL</u>
<u>M. COLLEYS</u>	<u>DOE</u>
<u>M. CLIFE</u>	<u>DOE</u>
<u> </u>	<u> </u>

TPA Decision Document List

	Geographical Areas	ROD Area Location	Document	Milestone	Milestone Due Date	Regulatory Review	DOE Lead	Contractor Lead	Regulatory Lead	Agency	Comments/Issues
1	Central Plateau Source Inner Area	200-IS-1 200 East Inner Area/Pipelines	RFI/CMS & RI/FS Work Plan - Draft B	M-015-112: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for 200-IS-1 OU to Ecology Dispute Resolution	2/28/2014	TBD	D. Hildebrand	B. Day	Nina Menard	Ecology	DOE and Ecology agreed, on May 14, 2015, to extend dispute resolution at the project manager level to September 30, 2015. Issues preventing the dispute from being resolved are associated with the waste site identification and TSD designations. RI and Ecology have not agreed upon the 200-IS-1 OU waste site list and TSD status (anticipate an additional 230 waste sites for 200-IS-1 via TPA C-13-01 and C-14-02). Met with Ecology on June 4, 2015. Agreed on method for TSD designations. RI and Ecology are continuing the Work Plan preparation workshops as part of the RI/FS WP development. Milestone in Negotiation.
2	Central Plateau Source Inner Area	200-EA-1 200 East Inner Area/Pipelines	RFI/CMS & RI/FS Work Plan	M-015-92A: Submit a RCRA Facility Investigation/Corrective Measures Study & Remedial Investigation/Feasibility Study work plan for the 200-EA-1 operable unit to Ecology To Be Missed	6/30/2015	TBD	D. Hildebrand	B. Day	Nina Menard	Ecology	Project not funded in FY14 or FY15; milestone will be missed. Milestone in Negotiation.
3	Central Plateau Source Inner Area	200-EA-1 200 East Inner Area/Pipelines	TSD - Closure Plans for 207-A South Retention Basin (DOE/RL-2005-89 R0), 216-A-29 Ditch (DOE/RL-2008-53 R1), 216-A-36B Crib (DOE/RL-2005-90 R0), 216-A-37-1 Crib (DOE/RL-2005-88 R0), and 216-B-63 Trench (DOE/RL-2006-11 R1)	M-037-02: Submit Revised Closure Plan to support TSD closure for five (5) TSD Units Complete	MS Completed 6/23/14	6/24/2014 12/9/2014	J. Axtel	P. Baynes	Nina Menard	Ecology	Formal Ecology comments not received. Ecology provided informal comments on 207-A Closure Plan. Updated 207-A Closure Plan Rev. 1 is scheduled for submittal to Ecology in June.
4	Central Plateau Source Inner Area	200-EA-1 and 200-IS-1 200 East Inner Area/Pipelines	CMS & FS Report(s) & PCAD(s)/PP(s)	M-015-92B: Submit Corrective Measures Study & Feasibility Study Report(s) and Proposed Corrective Action Decision(s)/Proposed Plan(s) for the 200-EA-1 and 200-IS-1 OUs to Ecology At Risk	12/31/2016	TBD	D. Hildebrand	B. Day	Nina Menard	Ecology	Milestone will be missed: 200-IS-1 Work Plan is in progress with the delivery date still under negotiation and the 200-EA-1 Work Plan is not funded in FY14. Milestone in Negotiation.
5	Central Plateau Source Inner Area	200-IS-1	TSD - Closure Plan for the Hexone Storage and Treatment Facility TSD Unit	M-037-01: Submit Revised Closure Plan to support TSD closure of the Hexone Storage and Treatment Facility (276-5-141/142) TSD Unit. Complete	MS Completed 7/16/2010		D. Hildebrand	P. Baynes	Nina Menard	Ecology	Comments received. Project not funded to address comments.
6	Central Plateau Source Inner Area	200-WA-1 and 200-BC-1 200 West Inner Area	RI/FS Work Plan	M-015-91A: Submit a Remedial Investigation/Feasibility Study Work Plan for the 200-WA-1 operable unit to EPA Complete	MS Completed 12/27/2011		J. Sands	M. Byrnes	Craig Cameron	EPA	Draft B WA-1 RI/FS Work Plan is planned to be submitted to EPA in July.
7	Central Plateau Source Inner Area	200-WA-1 and 200-BC-1 200 West Inner Area	FS/PP	M-015-91B: Submit Feasibility Study report and Proposed Plan for the 200-WA-1 operable unit to EPA To Be Missed	12/31/2015	TBD	J. Sands	M. Byrnes	Craig Cameron	EPA	Milestone will be missed due to funding and delays in the completion of the 200-WA-1 RI/FS Work Plan. Milestone in Negotiation.
8	Central Plateau Source Inner Area	200-SW-2 200 West Inner Area & 200 East Inner Area	RFI/CMS & RI/FS Work Plan - Draft B	M-015-113: Submit Draft B RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for the 200-SW-2 OU to Ecology On Schedule	MS Completed 3/25/2015	4/1/2015 5/26/2015	D. Hildebrand	B. Day	Deborah Singleton	Ecology	Milestone description stated deliverable will include a schedule of completion dates for major tasks and deliverables. This is included in the Work Plan Chapter 6 - Project Schedule. Received Ecology comments May 26, 2015. The transmittal states "In general, Ecology's review team thinks the work plan is a good document and the planned work is well outlined." There are 75 comments in the package currently being evaluated.
9	Central Plateau Source Inner Area	200-SW-2 200 West Inner Area & 200 East Inner Area	RFI/CMS & RI/FS & PCAD/PP	M-015-93B: Submit RCRA Facility Investigation/Corrective Measures Study & Remedial Investigation/Feasibility Study Report and Proposed Corrective Action Decision/Proposed Plan for the 200-SW-2 OU to Ecology At Risk	12/31/2016	TBD	D. Hildebrand	B. Day	Deborah Singleton		Milestone will be missed due to delays in completion of the 200-SW-2 RI/FS Work Plan. Milestone in Negotiation.

ote: Yellow highlighted items reflect completed milestone/target. Left on long list for follow up status. ue text reflects changes from previous month.

(Information current as of 6/9/2015)

TPA Decision Document List

	Geographical Areas	ROD Area Location	Document	Milestone	Milestone Due Date	Regulatory Review	DOE Lead	Contractor Lead	Regulatory Lead	Agency	Comments/Issues
10	Central Plateau Source Inner Area	200-PW-1/3/6, CW-5 200 West and 200 East	RD/RAWP	M-016-12S: Submit a Remedial Design/Remedial Action Work Plan for 200-CW-5 and 200-PW-1/3/6 to EPA as described in section 12.4 of the associated ROD. On Schedule	9/30/2015	10/1/2015 11/16/2015	B. Long	P. Baynes	Emy Lajja	EPA	Document is on schedule to send to EPA by September 30, 2015.
11	Central Plateau Source Deep Vadose Zone	200-DV-1 Deep Vadose Zone	RI/FS Work Plan	M-015-110A: Submit RCRA Facility Investigation/Corrective Measures Study (RFI/CMS) & Remedial Investigation/Feasibility Study (RI/FS) work plan for the 200-DV-1 OU to Ecology. The work plan shall include technology screening that identifies technologies applicable for characterization, treatment, and monitoring of deep vadose zone contaminants. On Schedule	MS Completed 3/18/2015	4/1/2015 6/24/2015	J. Morse	M. Bymes	Dib Goswami	Ecology	Ecology requested their review be extended to June 24, 2015.
12	Central Plateau Source Deep Vadose Zone	200-DV-1 Deep Vadose Zone	CMS/FS and PP/PCAD	M-015-110B: Submit Corrective Measures Study & Feasibility Study Report and Proposed Plan/Proposed Corrective Action Decision for the 200-DV-1 OU to Ecology To Be Missed	9/30/2015	TBD	J. Morse	M. Bymes	Dib Goswami	Ecology	Milestone will be missed. This milestone cannot be completed until the RI/FS & RFI/CMS work plan is approved and the field characterization completed. Milestone in Negotiation.
13	Central Plateau Source Outer Area	200-CW-1, 200-CW-3, and 200-OA-1 Outer Area	Central Plateau Outer Area RI/FS work plan/SAP	None		TBD	B. Vannah	B. Day	L. Buelow	EPA	Outer Area RI/FS work plan/SAP is not funded in FY15. This work precedes the RI/FS report (M-015-38B).
14	Central Plateau Source Outer Area	Outer Area	FS/PP	M-015-38B: Submit a revised Feasibility Study Report and revised Proposed Plan(s) for the 200-CW-1, 200-CW-3, and 200-OA-1 Operable Units for Waste Sites in the Outer Area of the Central Plateau to EPA	TBD	11/1/2015 12/15/2015	B. Vannah	B. Day	L. Buelow	EPA	Approved Change Form M-15-14-01 Identified that a schedule will be provided by 10/30/2015 for completion of this milestone. Milestone in Negotiation.
15	Central Plateau Source Outer Area	200-CW-1, 200-CW-3, and 200-OA-1 Outer Area	TSDs - Closure Plan for 216-B-3 Main Pond and 216-S-10 Pond and Ditch	M-037-03: Submit Revised Closure Plans Complete	Milestone Completed 4/18/2013	4/19/2013 7/17/2013	J. Sands	P. Baynes	Nina Menard	Ecology	NOD was issued and response submitted. Major issues have been identified related to non-TSD past-practice contamination and these issues remain unresolved.
16	Central Plateau Groundwater	200-BP-5, 200-PO-1 200 East Area Groundwater	200-BP-5 RI Report	None		7/25/2015 9/4/2015	J. Morse	Curt Wittreich	Nina Menard	Ecology	Preparation of the BP-5 RI Report in progress and on schedule for Draft A delivery late July.
17	Central Plateau Groundwater	200-BP-5, 200-PO-1 200 East Area Groundwater	200-PO-1 RI Report Addendum	None		7/25/2015 9/4/2015	J. Morse	Curt Wittreich	Nina Menard	Ecology	On schedule for Draft A delivery late July.
18	Central Plateau Groundwater	200-BP-5, 200-PO-1 200 East Area Groundwater	FS/PP	M-015-21A: Submit a 200-BP-5 and 200-PO-1 OU Feasibility Study Report and Proposed Plan(s) to Ecology To Be Missed	6/30/2015	TBD	J. Morse	Curt Wittreich	Nina Menard	Ecology	FS/PP was not funded in FY14. Work initiated in FY15 with an expected Draft A delivery to Ecology by 9/30/16. Milestone in Negotiation.
19	Central Plateau Groundwater	200-LP-1 200 West Area Groundwater	200-LP-1 Remedy Performance Monitoring Plan	None		7/1/2015 8/15/2015	N. Jaschke	Curt Wittreich	E. Lajja	EPA	On schedule for Draft A delivery by 6/30/2105. EPA briefings held March 18, 2015 on DQOs.
20	Central Plateau Groundwater	200-LP-1 200 West Area Groundwater	Technology Evaluation Plan	M-016-192: Submit I-129 Technology Evaluation Plan Draft A to EPA as defined in the 200-LP-1 RD/RAWP On Schedule	6/17/2016	6/18/2016 8/1/2016	N. Jaschke	PNNL	E. Lajja	EPA	On schedule.
21	River Corridor	100-BC-1, 100-BC-2, 100-BC-5 100-B/C	RI/FS Reports and Proposed Plan	M-015-79: Submit RI/FS Report and PP for 100-BC On Schedule	12/15/2016	12/16/2016 01/30/2017	G. Sinton	R. Evans	L. Buelow	EPA	Milestone in Negotiation.
22	River Corridor	100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, 100-HR-3 100-D/H	RI/FS Reports and Proposed Plan	M-015-70-T01: Submit FS & PP for HR 1/2/3 and DR 1/2 Complete	Target Completed 12/14/2012		J. Hanson	Mike Drewett	Nina Menard	Ecology	The Rev 0 RI/FS is complete. The PP is in Ecology review.
23	River Corridor	100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, 100-IU-6 100-F/IU	Remedial Design / Remedial Action Work Plans	None		3/30/2015 4/15/2015	G. Sinton	R. Evans	C. Guzzetti	EPA	Received EPA comments on May 5, 2015. Responses sent to EPA on June 8, 2015. Document being revised to address comments; Plan to submit Rev 0 to EPA by August 31, 2015.
24	River Corridor	100-KR-1, 100-KR-2, 100-KR-4 100-K	RI/FS Reports and Proposed Plan	M-015-66-T01: Submit RI/FS Report and PP for 100-K. Complete	Target Completed 9/21/2011		J. Hanson	Mike Drewett	C. Guzzetti	EPA	RI/FS and PP, Rev 0, are on hold pending characterization. The characterization boreholes at 100-KE Reactor waste sites began in March 2015.
25	River Corridor	100-NR-1, 100-NR-2 100-N	RI/FS Reports and Proposed Plan	M-015-75: Submit FS/PP for NR 1/2 Complete	Milestone Completed 6/24/2013	6/25/2013 10/2/2013	G. Sinton	Bill Fought	A. Boyd	Ecology	Ecology is not reviewing the PP until RI/FS comment resolution is complete. Disposition meetings with ECY are ongoing. Comment resolution extended to September 30, 2015.
26	River Corridor	300-FF-2, 300-FF-5 300	Remedial Design / Remedial Action Work Plans	Submit RD/RAWP Draft A to Regulators		5/26/2014 8/8/2014	J. Sands	B. Day	Benjamin Simes	EPA	EPA approved document on May 29, 2015.

Note: Yellow highlighted items reflect completed milestone/target. Left on long list for follow up status. Blue text reflects changes from previous month.

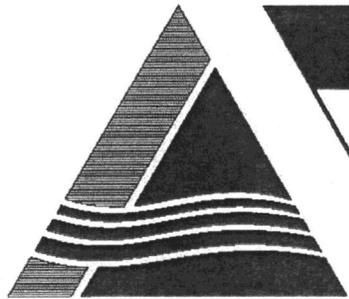
(Information current as of 6/9/2015)

RIVER CORRIDOR CLOSURE PROJECT

DOE's Largest Environmental Cleanup Closure Project

TPA Quarterly Review

For Period: January - March 2015



Tri-Party Agreement

River Corridor Milestones:

M-16

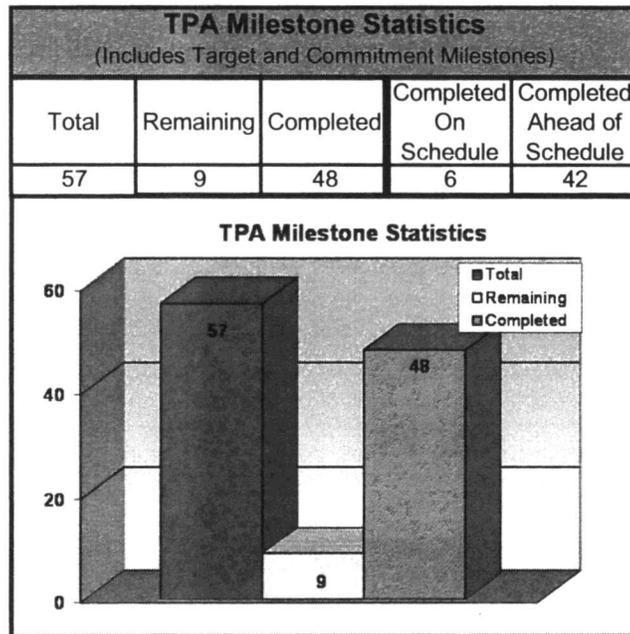
M-89

M-94

U.S. Department of Energy
U.S. Environmental Protection Agency
Washington State Department of Ecology

June 18, 2015

Protecting the Columbia River



Quarterly Summary (January – March 2015)

- **Completed TPA Milestones:**
 - M-16-159 - Complete Interim Response Actions for 20 100-D and 5 100-H Area Sites (due 3/31/15) - 3/16/15
 - M-94-10 - Complete Disposition of 300 Area Surplus Facilities Identified in the Removal Action Work Plan(s) for the 300 Area Facilities Exclusive of the 324 Building and its Ancillary Buildings and Structure (due 9/30/15) - 3/18/15
- **Approved Change Requests:**
 - TPA CN M-16-15-02, approved 2/2/15, extended milestone M-16-149 completion date from 3/31/15 to 3/31/16.

TPA MS No.	Compliance Date	Title	Status	Comments
M-16 Milestones - Remedial Action (milestones through 12/31/2016)				
M-16-159	03/31/15	Complete Interim Response Actions for Following 100-D and 100-H Area Sites: 100-D-14, 100-D-56, 100-D-62, 100-D-63, 100-D-65, 100-D-66, 100-D-71, 100-D-73, 100-D-75:2, 100-D-76, 100-D-78, 100-D-80, 100-D-81, 100-D-96, 100-D-101, 100-D-102, 116-DR-3, 118-D-6:4, 1607-D1, 1607-D2, 100-H-37, 100-H-43, 100-H-48, 100-H-52, 100-H-57	Complete	Milestone completed 3/16/15.
M-16-69	09/30/15	Complete All Interim 300 Area Remedial Actions to Include Confirmatory Sampling of All Candidate Sites Listed in 300-FF-2 ROD (except for 618-10 and 618-11 Burial Grounds)	To be missed	Milestone change package is being prepared for negotiation with EPA.
M-16-149	03/31/16	Complete 100-IU-2/6 Interim Response Actions for Following Sites: 600-293, 600-294, 600-298, 600-299, 600-300, 600-301, 600-303, 600-305, 600-309, 600-310, 600-313, 600-316, 600-318, 600-319, 600-320, 600-321, 600-328, 600-329, 600-331, 600-332, 600-334, 600-326, 600-349, 600-358, 600-368, 600-369, 600-370, 600-371, 600-372, 600-373, 600-374, 600-375, 600-376, 600-377, 600-378, 600-379	On schedule	The changed scope of 600-349 may cause delays to milestone completion.
M-16-161	03/31/16	Complete Area Interim Response Actions for 18 100-D Area Sites, 10 100-H Area Sites, and 600-385, including revegetation of 100-D and 100-H Waste Sites.	On schedule	Cultural review for the 600-385 waste site may affect ability to complete the milestone by 3/31/16.

M-89 Milestone - 324 Bldg. Non-Permitted MW Units Closure (milestones through 12/31/2016)

M-89-06	06/30/16	Submit to Ecology in Accordance with Procedures in WAC 173-303-830(4)(b), a Request for a Class 2 Modification to Hanford Dangerous Waste Permit, to Include in Permit the "324 Bldg. Radiochemical Engineering Cells, High-Level Vault, Low-Level Vault, and Associated Area Closure Plan" (Closure Plan), DOE/RL-96-73 revised as necessary to address releases to soil and to ensure compliance with requirements of WAC-173-303-610. DOE's revised closure plan will include a schedule for completing closure activities.	On schedule	
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TPA MS No.	Compliance Date	Title	Status	Comments
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M-94 Milestones - 300 Area Surplus Facilities Disposition (milestones through 12/31/2016)

M-94-10	09/30/15	Complete Disposition of 300 Area Surplus Facilities Identified in the Removal Action Work Plan(s) for the 300 Area Facilities Exclusive of the 324 Bldg. and its Ancillary Buildings and Structure	Complete	Milestone completed 3/16/15.
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Significant Accomplishments – For Last 3 Months:

M-16 – Remedial Action / Risk Assessment

- Completed revegetation of 100-D and 100-H Area sites to satisfy completion of TPA milestone M-16-159.
- Completed 100-N Area waste sites backfill and revegetation (excluding 100-N-83 and 100-N-96) for completion of performance milestone #38.
- Completed Tier 4 excavation/loadout of 100-D-100 and began backfill.
- Received approval of 10 waste site closure documents.
- Completed remediation of 600-358 unexploded ordnance (UXO) waste site and demobilized subcontractor.



Backfill of 100-D-100



Excavation/Loadout of 100-D-100 Tier 4

M-89 – 324 Bldg. Non-Permitted MW Units Closure

- Completed construction of offsite mockup facility for remediation of 300-296 waste site under 324 B-Cell.
- Completed review of subcontractor rebaseline to support Phase III and IV remediation activities of 300-296 waste site.

M-94 – 300 Area Surplus Facilities Disposition

- Obtained RL/EPA concurrence of 309 Building Facility Status Change Form, satisfying completion of TPA milestone M-94-10.

Significant Accomplishments – For Last 3 Months (cont'd):

ERDF

- For period January-March, disposed ~ 319,200 tons of waste; bringing total to ~ 17.3 million tons disposed in ERDF.
- Provided the Closure Operations Project with transportation, treatment, and disposal support.
- Received shipments of roll-on/roll-off containers, drums, and special-handled waste from other Hanford Contractors (OHCs).



Crew Adding Clean Soil to 45' Level to Extend Clean Working Surface Over Waste

Significant Actions Planned – For Next 3 Months:

M-16 – Remedial Action / Risk Assessment

- Complete excavation of all available waste sites.
- Continue backfill.

M-89 – 324 Bldg. Non-Permitted Mixed Waste Units Closure

- Complete design for remediation of 300-296 waste site under B-Cell.
- Continue procurement of equipment for mockup activities and long-lead items for remediation of 300-296 waste site.

M-94 – 300 Area Surplus Facilities Disposition

- Continue disposition of all 300 Area surplus facilities identified in Removal Action Work Plan(s) for 300 Area facilities including 324 Building and its ancillary buildings and structure.

ERDF

- Operate 2 ramps (100-160 cans/day).
- Receive and offload long-length items from Tank Farms as weather permits.

PERFORMANCE SUMMARY
Contract Inception (8/27/05) through March 2015
 (\$K)

	IPB		CUMULATIVE			Previous Quarter Comparison			
	BAC	EAC	BCWS	BCWP	ACWP	SCHEDULE VAR (\$)		COST VAR (\$)	
						Dec	Mar	Dec	Mar
D4	652,130	636,102	643,106	631,084	564,953	-16,240	-12,022	58,790	66,131
Reactor ISS	75,902	81,777	75,902	75,902	81,777	0	0	-5,875	-5,875
Field Remediation	986,466	913,901	919,924	833,586	776,544	-80,950	-86,338	53,708	57,043
Waste Operations	622,166	503,730	586,085	603,494	477,951	11,776	17,410	123,892	125,543
ESFC	80,791	61,243	78,483	76,001	58,338	-2,552	-2,482	16,552	17,663
Mission/General Support	429,347	407,779	395,127	395,127	360,988	0	0	37,393	34,138
Transition	3,979	3,747	3,979	3,979	3,747	0	0	232	232
Contingency						0	0	0	0
TARGET COST TOTAL	2,850,781	2,608,280	2,702,606	2,619,174	2,324,299	-87,966	-83,432	284,693	294,875

Schedule Variance (PMB): (\$83,432K)

- Variance associated with 618-10, 100-D, and 100-H remediation delays. 618-11 negative schedule variance is due to funding constraints.
- Delay in D4 due to waste site discovered beneath 324 Building. Min-safe activities will continue until in-cell waste site remediation is complete.
- 618-10 and 324 Building project management and support delays due to apportioned effort calculations.

Cost Variance (PMB): \$294,875K

- Significant underruns experienced in 300 Area building characterization, deactivation, and demolition activities; and in utility charges and surveillance and maintenance activities. Positive cost variance decreasing due to impacts from beryllium program changes and differing site conditions at 309 and 340 Buildings, as well as project support costs.
- 100-B/C, 100-D, 100-F, and 100 IU-2/6 remediation underruns due to favorable subcontract rates largely offset by overruns at 300 Area due to delayed release of facilities, and 618-10 due to quantity growth and change to hazard category 3.
- Costs have been less than planned due to Waste Operations efficiencies achieved in waste treatment, transportation, disposal, and construction; and Mission/General Support efficiencies in Project Services, Project Integration, and Office of General Manager.

RCC Issues

600-385 Waste Site Cultural Resource Review

- **Issue:** Although discussions with tribal representatives have begun, the progress is uncertain and any delays of the Washington State Historic Preservation Office (SHPO) approval would place completion of M-016-161, due March 31, 2016, at risk.

Status: Discussions are in progress with the tribes regarding 600-385 cultural mitigation actions with a goal to have an approved memorandum of agreement in August 2015, enabling start of remediation activities targeted to complete prior to the November eagle nesting season.

100K Sludge Treatment Project, Soil Remediation, D4, & ISS

TPA Milestone Series: M-016 and M-093



U.S. Department of Energy
U.S. Environmental Protection Agency
State of Washington, Department of Ecology

Second Quarter FY 2015
June 18, 2015



ch2mSM



Accomplishments

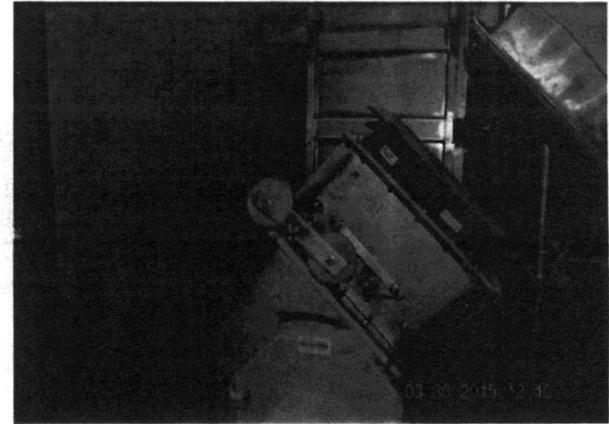
2nd Quarter 2015

Sludge Treatment Project

- Complete 105-KW Sludge Transfer Equipment Installation (*M-016-177, due 9/30/2017 On Schedule*)
- Begin Sludge Removal from 105-KW Fuel Storage Basin (*M-016-175, due 9/30/18 On Schedule*)

Construction

- Annex Construction completed installation of HVAC components in the HEPA room, beam detector and reflector in the Intermediate Bay, compressed air installation in the Mechanical Equipment room and installation of Emergency Lights in intermediate bay.



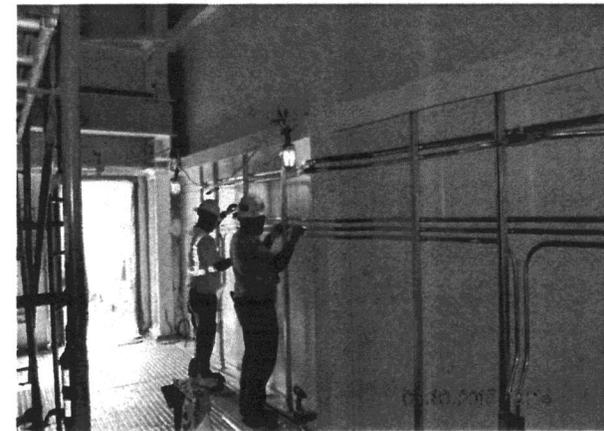
KW ANNEX: HEPA filter system fit-up to exhaust stack

Accomplishments

2nd Quarter 2015

Sludge Treatment Project (*continued*)

- In-Basin Construction completed electrical modifications and passed National Electrical Code (NEC) inspection and door 148 temporary enclosure. Continued debris dose rating and relocation activities. Completed fabrication of sample tube crimping/cutting and long pole support tools for use with 105KW Basin engineered container sample tube removal.
- Completed T Plant Canyon entry for reconnaissance to take measurements, photographs, and informational notes to support pending T Plant modification work scope.



KW ANNEX: Conduit installation

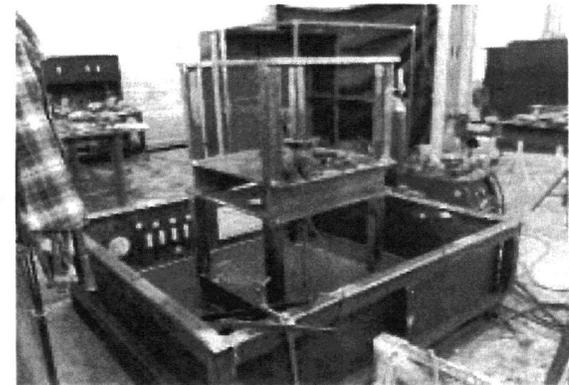
Accomplishments

2nd Quarter 2015

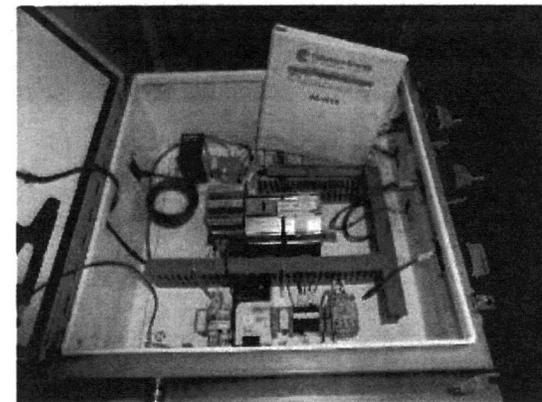
Sludge Treatment Project (*continued*)

Equipment Procurement/Fabrication

- Awarded nine of twenty fabrication contracts for Engineered Container Retrieval and Transport System (ECRTS) process components
- Received one procurement set (hose-in-hose assemblies)
- Restoring previously approved H₂ control strategy for the Preliminary Design Safety Analysis Conditions



ECRTS: Decant Pump Box



ECRTS: Control Panel

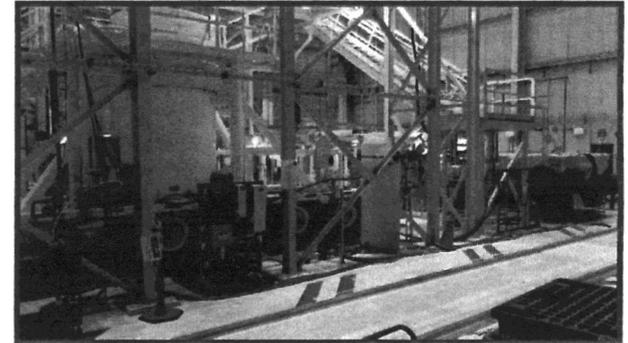
Accomplishments

2nd Quarter 2015

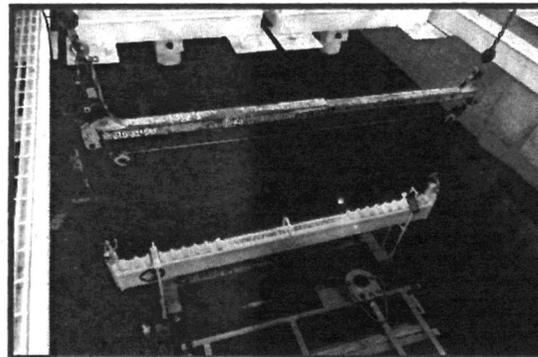
Sludge Treatment Project (*continued*)

Cold Commissioning

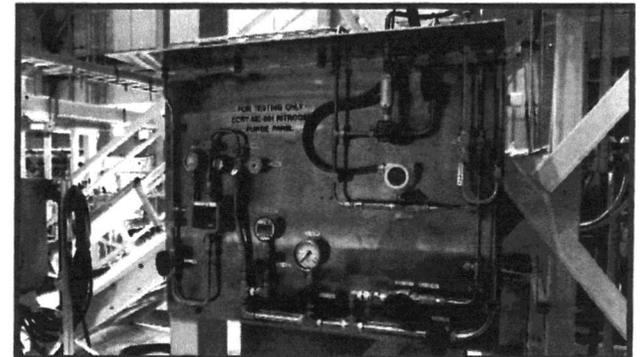
- Continued preparations for cold commissioning at the Maintenance and Storage Facility (MASF) and operator training and familiarization with ECRTS components.
- Completed fabrication and assembly of the mixing valve stand to emulate the “layering” aspect of the ECRTS process.



MASF: ECRTS Nitrogen Purge Line Mock-up



MASF: ECRTS Lifting Hardware Development



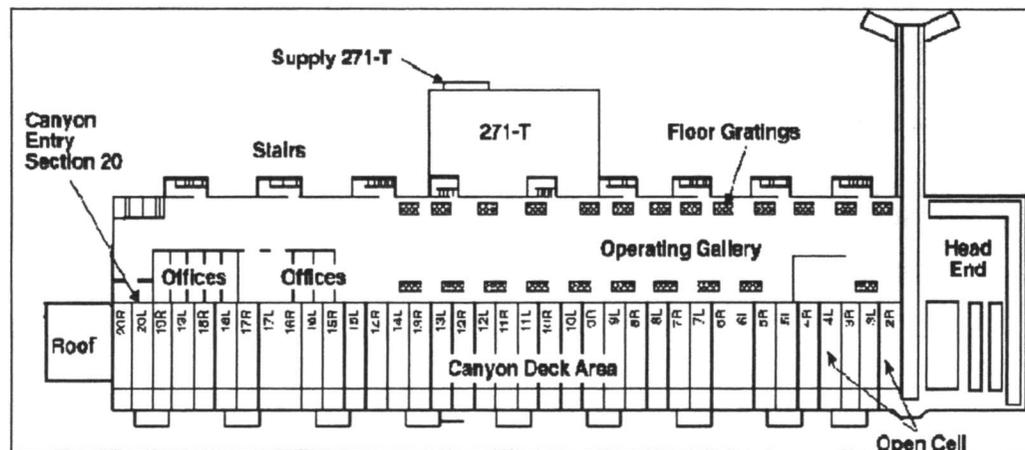
MASF: ECRTS Nitrogen Purge Test Panel Mock-up

Accomplishments

2nd Quarter 2015

Sludge Treatment Project *(continued)*

- Tentative Agreement reached by DOE, EPA and Washington State Department of Ecology on a regulatory path forward with for sludge storage at T Plant



T Plant Canyon Sludge Storage Cell Configuration

Accomplishments

2nd Quarter 2015

- 100KE Characterization Wells
 - Initiated drilling on the 116-KE-3 site through the first 15 feet of clean backfill
 - Continued drilling enclosure construction and ventilation system installation on the second borehole location (UPR-100-K-1)
 - Conducted Hazard Review Board for 116-KE-3

- 100K Minimum Safe Activities
 - Maintained 100K Area Minimum Safe Configuration
 - Performed radiological and waste surveillances
 - Repaired A9 Substation Fence

Milestone Summary

TPA Number	Due Date	Description	Status
M-016-177	9/30/2017	Complete 105-KW sludge transfer equipment installation	On Schedule
M-016-175	09/30/18	Begin Sludge Removal from 105-KW Fuel Storage Basin	On Schedule
M-016-176	12/31/19	Complete sludge removal from 105-KW Fuel Storage Basin	On Schedule
M-016-178	12/31/19	Initiate Deactivation of 105-KW Fuel Storage Basin	On Schedule
M-093-28	12/31/19	Submit Change Package for Proposed Interim Milestones for 105-KE/KW Reactor Interim Safe Storage	On Schedule
M-016-173	09/30/22	Select K Basin Sludge Treat. & Pkging Technology propose new MS's	On Schedule
M-016-181	09/30/23	Complete Deactivation, Demolition & Removal of 105-KW FSB	On Schedule
M-016-186	12/31/23	Initiate Soil Remediation Under 105-KW Fuel Storage Basin	On Schedule
M-016-00C	09/30/24	Complete All Response Actions In The 100K Area	On Schedule
M-016-143	09/30/24	Complete The Inerim Response Actions For The 100K Area Phase 2	On Schedule
M-093-27	09/30/24	Complete 105-KE &105-KW Reactor ISS in Accordance with Removal Action Work Plan	On Schedule

Project Baseline Performance

(Contract to date through March 2015)

RL-0012 Spent Nuclear Fuel Stabilization and Disposal	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Cost Variance (\$)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)	SPI	CPI
Base Total	472.0	475.4	484.8	3.4	-9.4	696.1	715.4	-19.2	1.01	0.98

RL-0041 Nuclear Facility D&D – River Corridor	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Cost Variance (\$)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)	SPI	CPI
Total	132.6	132.6	103.0	(0.1)	29.5	218.1	187.0	31.1	1.0	1.29

Numbers are rounded to the nearest \$0.1M

Planned Activities

April 2015 – September 2015

Sludge Treatment Project

Construction

- Continue to work Annex Mechanical and Electrical Installations
- Complete Annex HVAC, HEPA Filter and Exhaust Stack Installation
- Complete electrical equipment installation and begin mechanical equipment installation in KW Basin supporting retrieval operations

Equipment Procurement/Fabrication

Continue ECRTS process equipment fabrication

- Re-establish previously approved ECRTS H₂ control strategy design
- Continue ECRTS process equipment fabrication
- Complete below water debris relocation campaign to support installation of ECRTS in-basin equipment

T-Plant

- Formalize agreement that planned T Plant actions are not permit modifications
- Record of Decision (ROD) change for the K Basins Interim ROD
- Modify the Remedial Action Work Plan (RAWP) for sludge packaging and treatment

Planned Activities

April 2015 – September 2015

100K Min Safe

- Perform radioactive material area (RMA) maintenance (postings, barriers, etc.)
- Perform Waste Information Data Systems (WIDS) surveillances at 100K

100K D4

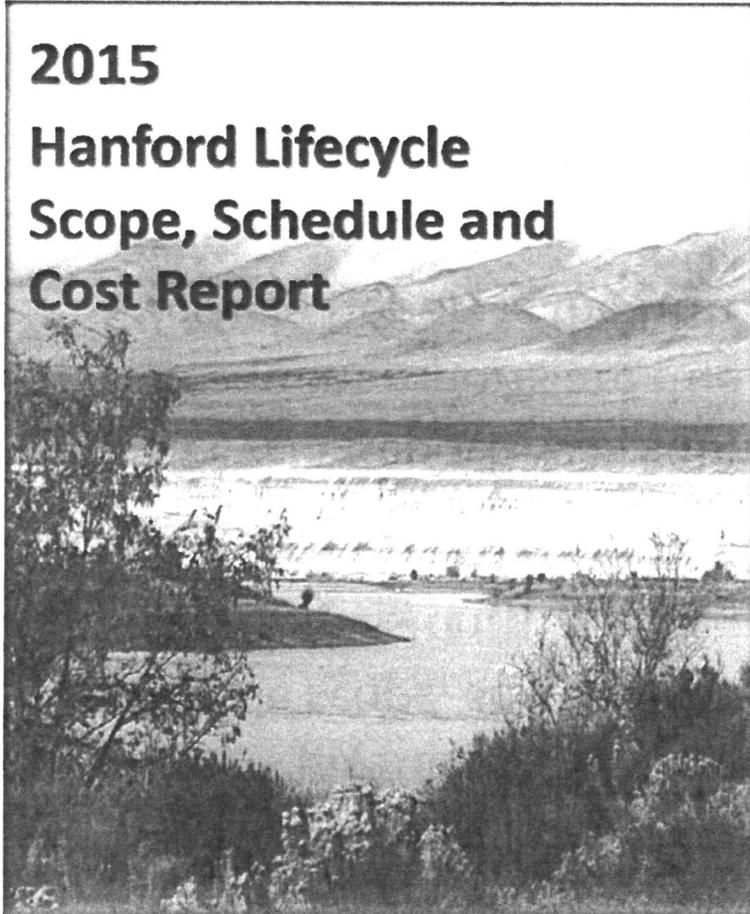
- 100K Characterization Wells
 - Complete construction of the drilling enclosure and ventilation system at UPR-100-K-1
 - Complete drilling and soil sampling at 116-KE-3
 - Conduct Hazard Review Board for UPR-100-K-1 drilling and sampling
 - Initiate well construction at 116-KE-3
 - Complete characterization of UPR-100-K-1 and 116-KE-3 Waste Sites (9/17/15)

100K Waste Sites

- Initiate Area AB waste site remediation

2015

**Hanford Lifecycle
Scope, Schedule and
Cost Report**



**Hanford Lifecycle Scope, Schedule
and Cost Report**



**TPA Milestone: M-036-01
Quarterly Performance Report**

June 18, 2015

Stephen Korenkiewicz, DOE-RL
Lifecycle Report Project Manager



In-Party Agreement



MILESTONE DESCRIPTION AND DELIVERABLE

1. The U.S. Department of Energy (DOE) shall prepare and submit to the U.S. Environmental Protection Agency (EPA) and Washington State Department of Ecology (Ecology) a report setting out the lifecycle scope, schedule and cost for completion of the Hanford Site cleanup mission.
2. The initial Hanford Lifecycle Scope, Schedule and Cost Report (Lifecycle Report) was submitted to DOE on July 25, 2011, and subsequent reports are due January 31 of each year. The 2015 Lifecycle Report is the fifth Lifecycle Report to be prepared.



RL PROGRAM MANAGERS' ASSESSMENT OF CONTRACTOR PERFORMANCE

1. The contractor responsible for the Lifecycle Report is Mission Support Alliance, Portfolio Management.
2. There were no performance issues related to development and preparation of the 2015 Lifecycle Report.



SIGNIFICANT ACCOMPLISHMENTS FOR THE LAST THREE MONTHS

1. DOE submitted the 2015 Lifecycle Scope, Schedule and Cost Report to EPA and Ecology on January 30, 2015 to satisfy Tri-Party Agreement Milestone M-036-01E. The 2015 Lifecycle Report and Fact Sheet were posted on the hanford.gov website on February 23, 2015.
2. Project Manager's Meetings were held on January 13, 2015, March 19, 2015 and June 16, 2015.
3. Ecology submitted comments on the 2015 Lifecycle Report on April 29, 2015 and stated that the report met the milestone.
4. Ecology requested an alternatives analysis of Cs/Sr capsule storage in the 2016 Lifecycle Report. DOE disagrees with Ecology and opposes such an analysis.



SIGNIFICANT PLANNED ACTIONS FOR THE NEXT SIX MONTHS

1. Prepare Draft 2016 Lifecycle Report for DOE review by August 31, 2015, incorporating feedback/changes as agreed.
2. Resolve disagreement about performing an alternatives analysis for Cs/Sr capsule storage options.
3. DOE review of Draft 2016 Lifecycle Report from September 1 to October 31, 2015.
4. Prepare Final 2016 Lifecycle Report for submittal to DOE by December 31, 2015.



STATUS AND ISSUES

BUDGET/COST STATUS

No major issues identified.

ISSUES

DOE and Ecology disagreement about performing an alternatives analysis for Cs/Sr capsule storage options in the 2016 Lifecycle Report.

NON-TPA REGULATORY ISSUES/POTENTIAL IMPACTS TO TPA

No major issues identified.



PFP Closure Project

TPA Milestone Series: M-083



U.S. Department of Energy
U.S. Environmental Protection Agency
State of Washington, Department of Ecology

Second Quarter FY 2015
June 18, 2015



ch2m.
SM



Milestone Summary

Milestone	Due Date	Status	Description
M-083-00A	9/30/2016	At Risk	Complete PFP Facility Transition & Selected Disposition Activities. Completion Of This Major Milestone Includes The Following Key Elements: 1) Completion Of All Activities Necessary To Achieve End Point Criteria Established Through Milestone M-83-20 For Placing The PFP Facility In A Safe And Stable S&M Mode, 2) Completion Of All Activities Described In The Approved M-83 Series Interim Milestones And Target Date; And 3) Completion of The Balance of PFP Selected Disposition Activities Pursuant To The Final Action Memoranda And Work Plans. Note: Also See "Description/Justification" Contained In Change Form M-83-01-03.
M-083-24-T01	6/30/2016	On Schedule	Submit Revision 0 of the PFP Complex Surveillance and Maintenance (S&M) Plan to Ecology.
M-083-44	9/30/2015	On Schedule	Complete significant progress on deactivation and removal of 208 glove boxes and disposal of all 236-Z pencil tanks in preparation for demolition.

Accomplishments 2nd Quarter 2015

- Significant 242-Z (McCluskey Room) glove box progress
 - WT-3 removal was completed
 - WT-2 removal was completed
 - WT-1 removal underway
- NDA all 15 Tanks in 242-Z Tank Room with new NDA equipment
- Preparations for in-situ size reduction of most difficult glove boxes in 234-5Z
- Approval of Documented Safety Analysis, Rev. 12 is expected in May



Employees removing WT-2 glove box



Employees removing vacuum pump from glove box 18-M.

Project Baseline Performance

Contract to Date (Through March 2015)

RL-0011 Nuclear Material Stabilization and Disposal	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)	Budget at Completion (BAC)	Estimate at Completion (EAC)	Variance at Completion (VAC)
Total	\$782,198	\$751,034	\$788,422	(\$31,164)	-4.0%	(\$37,387)	-5.0%	\$938,694	\$946,455	(\$7,761)

Fiscal Year to Date (Through March 2015)

RL-0011 Nuclear Material Stabilization and Disposal	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance (\$)	Schedule Variance (%)	Cost Variance (\$)	Cost Variance (%)
Total	\$50,342	\$51,845	\$51,547	\$1,503	3.0%	\$298	0.6%

Issues/Challenges

Regulatory *(heads up)*

- *Permit mod approval for 291-Z Effluent Stream reroute to support deactivation/demolition of the 243-Z building*

Non-Regulatory

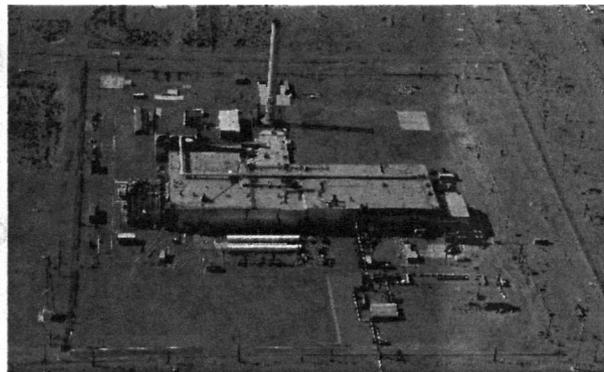
- *Ensure that documentation for what constitutes completion and transition for M-083-00A is mutually understood among RL, Ecology and EPA*
- *Modification of existing Documented Safety Analysis (DSA) to address demolition of PFP facilities is expected to be approved in May with a 60-90 day implementation planned*
- *Initiated update to air dispersion model to evaluate demolition sequence and effectiveness of controls*
- *Preparing for in situ size reduction of high-holdup gloveboxes*

Demolition Planning

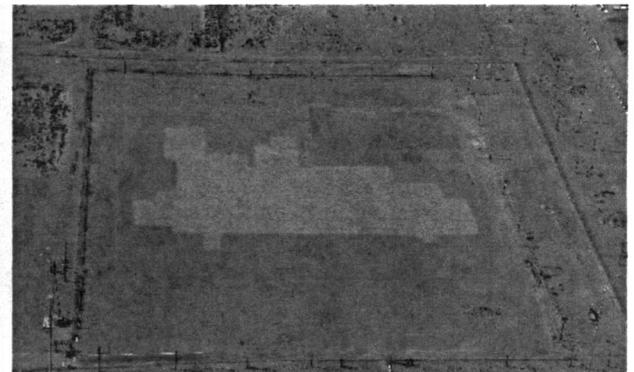
Demolition – a demolition plan is being developed to describe sequencing of activities, air emissions controls, waste management, verification of end points and other D4 aspects.



Pre 2012



2014



2016

Planned Activities Through September 2015

234-5Z (RMA/RMC and Backside Rooms)

- Complete In situ Size Reduction starting on HC-9B and HC-9A glove box
- Remove ventilation, process piping and ducting from first floor
- Characterize trenches and tunnels

234-5Z (Duct Level)

- Continue E4 duct removal in 234-5Z duct level
- Remove E4 and Process Vacuum Filter and Filter Boxes
- Continue duct level asbestos abatement
- Initiate removal of 26" process vacuum lines in 234-5Z duct level
- Continue draining of chemical lines throughout 234-5Z

243-Z

- Re-route 243-Z effluent, electrically and mechanically isolate facility, grout drain lines, and demolish

291-Z

- Initiate sump characterization
- Complete 26" process vacuum line removal to enable facility classification as criticality incredible

242-Z (Americium Facility)

- Remove WT-1 Glove box from E4 Ventilation, Size Reduce and package into waste containers

Planned Activities Through September 2015

236-Z (PRF)

- Complete Pencil Tank removal and ship to CWC
- Complete Floor Grouting
- South Canyon Airlock (SCA) Reactivation;
- Complete canyon floor cleanout
- Complete canyon floor characterization
- Separate column glove boxes
- Complete draining chemical lines
- Remove ventilation, process piping and ducting from first floor

TPA Milestone

- Submit milestone completion package for M-083-44