



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99354 • (509) 372-7950

October 28, 2008

RECEIVED  
OCT 29 2008  
EDMC

Mr. David A. Brockman, Manager  
Richland Operations Office  
United States Department of Energy  
P.O. Box 550, MSIN: A7-50  
Richland, Washington 99352

Re: Hanford Federal Facility Agreement and Consent Order (HFFACO) Change Control  
Number M-15-08-04

Dear Mr. Brockman:

Enclosed is a copy of the signed HFFACO Change Control Number M-15-08-04. This change creates two new interim milestones in the M-015 series to support the decision process to select a final remedy for the deep vadose zone in the Central Plateau area.

Terry Noland, of Fluor Hanford, Inc., picked up the original, signed document at our office today.

If you have any questions, you may call me at 509-372-7924 or John Price at 509-372-7921.

Sincerely,

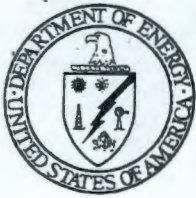
Ron Skinnarland  
Waste Management Section Manager  
and Acting TPA Administrator  
Nuclear Waste Program

pll  
Enclosure

cc: Matt McCormick, USDOE  
Steve Weil, USDOE  
Rob Piippo, FH  
Stuart Harris, CTUIR  
Gabriel Bohnee, NPT

Russell Jim, YN  
Susan Leckband, HAB  
Ken Niles, ODOE  
Administrative Record: M-15  
Environmental Portal





Department of Energy  
Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352

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OCT 27 2008

Department of Ecology  
NWP - Richland

OCT 16 2008

08-AMCP-0289

Ms. J. A. Hedges, Program Manager  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
3100 Port of Benton  
Richland, Washington 99354

Central Files \_\_\_\_\_  
File Name: \_\_\_\_\_  
Cross Reference: \_\_\_\_\_

Mr. N. Ceto, Program Manager  
Office of Environmental Cleanup  
Hanford Project Office  
U.S. Environmental Protection Agency  
309 Bradley Boulevard, Suite 115  
Richland, Washington 99352

Addressees:

HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER (TRI-PARTY AGREEMENT) MILESTONE CHANGE PACKAGE M-15-08-04, "ADDITION OF INTERIM MILESTONES M-015-53 AND M-015-54 TO HANFORD FEDERAL FACILITY AGREEMENT AND CONSENT ORDER TO SUPPORT THE DECISION PROCESS TO SELECT A FINAL REMEDY"

The purpose of this letter is to transmit the Tri-Party Agreement Milestone Change Package M-15-08-04, "Addition of Interim Milestones M-015-53 and M-015-54 to Hanford Federal Facility Agreement and Consent Order to Support the Decision Process to Select a Final Remedy," for your approval. Tri-Party Agreement Interim Milestones M-015-53 and M-015-54 support the execution of the Deep Vadose Zone Treatability Test Plan for the Hanford Central Plateau, DOE/RL-2007-56, Revision 0. The current schedule of activities supporting the test plan is also attached.

**HANFORD PROJECT OFFICE**

OCT 17 2008

**U.S. EPA**

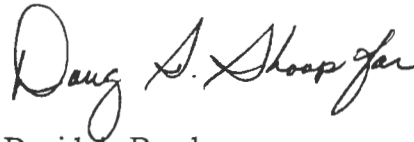
Addressees  
08-AMCP-0289

-2-

OCT 16 2008

If you have any questions, please contact me, or your staff may contact Matt McCormick, Assistant Manager for the Central Plateau, on (509) 373-9971.

Sincerely,



David A. Brockman  
Manager

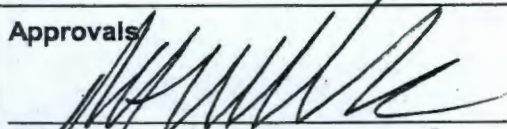
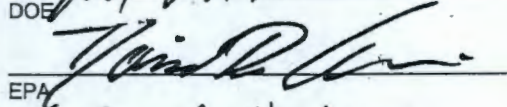
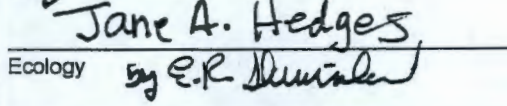
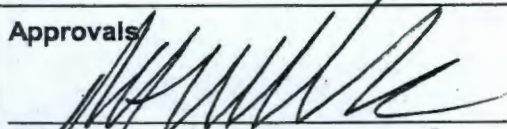
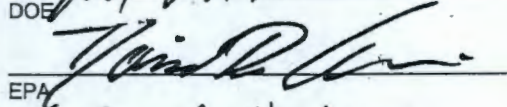
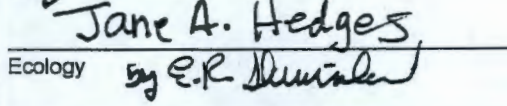
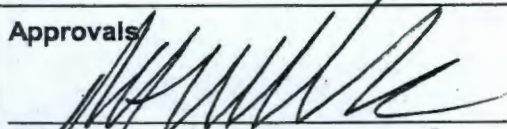
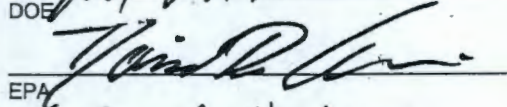
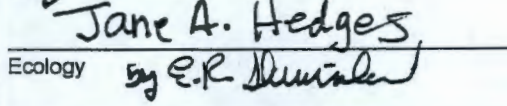
AMCP:JGM

Attachments

cc w/attachs:

G. Bohnee, NPT  
L. Buck, Wanapum  
S. T. Dahlgren, CHPRC  
G. P. Davis, Ecology  
R. H. Engelmann, EFSH  
D. A. Faulk, EPA  
D. Goswami, Ecology  
S. Harris, CTUIR  
M. N. Jaraysi, CHPRC  
R. Jim, YN  
S. L. Leckband, HAB  
R. A. Lobos, EPA  
K. Niles, ODOE  
R. E. Piippo, FHI  
J. B. Price, Ecology  
Administrative Record  
Environmental Portal



<b>Change Number</b> M-15-08-04	<b>Federal Facility Agreement and Consent Order Change Control Form</b> <small>Do not use blue ink. Type or print using black ink.</small>	<b>Date</b> September 29, 2008																																										
<b>Originator</b> Briant Charboneau		<b>Phone</b> (509) 373-6137																																										
<b>Class of Change</b> <input type="checkbox"/> I - Signatories <input checked="" type="checkbox"/> II - Executive Manager <input type="checkbox"/> III - Project Manager																																												
<b>Change Title</b> Addition of Interim Milestones M-015-53 and --54 to Hanford Federal Facility Agreement and Consent Order to support the decision process to select a final remedy.																																												
<b>Description/Justification of Change</b> This change package creates two new interim milestones in the M-015 series: <ul style="list-style-type: none"> <li>• M-015-53 Begin field test activities for Desiccation Field Testing at 200-BC-1 (BC Cribs) for Tc-99 remediation. 6/30/2009</li> <li>• M-015-54 Submit Report on Reactive Gas Testing for Sequestration of Uranium that will support remedial action decision making. 01/31/2010</li> </ul> These milestones are for testing (laboratory, bench scale and/or field scale) in support of determining appropriate remediation technologies for the deep vadose zone in the Central Plateau area.																																												
<b>Impact of Change</b> Approval of this change package adds new interim milestones for determining appropriate remediation technologies for the deep vadose zone in the Central Plateau area.																																												
<b>Affected Documents</b> The <u>Hanford Federal Facility Agreement and Consent Order</u> , as amended, and Hanford Site internal planning, management and budget documents (e.g., baseline control documents, related work authorization and directives).																																												
<b>Approvals</b> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;"></td> <td style="width: 20%;">10/15/08</td> <td style="width: 10%;"><input checked="" type="checkbox"/></td> <td style="width: 15%;">Approved</td> <td style="width: 10%;"><input type="checkbox"/></td> <td style="width: 15%;">Disapproved</td> </tr> <tr> <td>DOE</td> <td>Date</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>10/27/08</td> <td><input checked="" type="checkbox"/></td> <td>Approved</td> <td><input type="checkbox"/></td> <td>Disapproved</td> </tr> <tr> <td>EPA</td> <td>Date</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Jane A. Hedges</td> <td>10/28/08</td> <td><input checked="" type="checkbox"/></td> <td>Approved</td> <td><input type="checkbox"/></td> <td>Disapproved</td> </tr> <tr> <td>Ecology</td> <td>Date</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				10/15/08	<input checked="" type="checkbox"/>	Approved	<input type="checkbox"/>	Disapproved	DOE	Date						10/27/08	<input checked="" type="checkbox"/>	Approved	<input type="checkbox"/>	Disapproved	EPA	Date					Jane A. Hedges	10/28/08	<input checked="" type="checkbox"/>	Approved	<input type="checkbox"/>	Disapproved	Ecology	Date										
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Jane A. Hedges	10/28/08	<input checked="" type="checkbox"/>	Approved	<input type="checkbox"/>	Disapproved																																							
Ecology	Date																																											
																																												

Changes to Appendix D are displayed by ~~Highlighting~~ to indicate addition of text and by ~~Strikeout~~ to indicate deletion of text.

<del>M-015-53</del>	<del>BEGIN FIELD TEST ACTIVITIES FOR DESICCATION FIELD TESTING AT 200-BC-1 (BC CRIBS) FOR TC-99 REMEDICATION.</del>	<del>6/30/2009</del>
<del>M-015-54</del>	<del>M-015-54 SUBMIT REPORT ON REACTIVE GAS TESTING FOR SEQUESTRATION OF URANIUM THAT WILL SUPPORT REMEDIAL ACTION DECISION MAKING.</del>	<del>01/31/2010</del>

DVZTT

10:48 AM Tue 9/23/08

ID	Task Name	Duration	Start	Finish	Predecessors	1st Half		2nd Half		1st Half		2nd Half		1st Half		2nd Half	
						Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
1	<b>SOIL DESICCATION - Tc-99</b>	1 day?	Mon 8/18/08	Mon 8/18/08													
2																	
3	<b>SAP: Boreholes, air perm tests, air qual test</b>	206 days?	Thu 5/1/08	Thu 2/12/09													
4	Initial design analysis (FY08)	108 days	Thu 5/1/08	Mon 9/29/08													
5	- lab: initial solute, energy bal, w het media	108 days	Thu 5/1/08	Mon 9/29/08	4FF												
6	- simula to supprt concept design	108 days	Thu 5/1/08	Mon 9/29/08	4FF												
7	DQO/SAP kickoff	1 day?	Wed 9/10/08	Wed 9/10/08													
8	Prep SAP: all bholes + tests	20 days	Thu 9/11/08	Wed 10/8/08	4FF,7												
9	Complete internal review	7 days	Thu 10/9/08	Fri 10/17/08	8												
10	incorp comments	4 days	Mon 10/20/08	Thu 10/23/08	9												
11	informal review w Agencies	1 day?	Fri 10/24/08	Fri 10/24/08	10												
12	Prepare Decis Draft	5 days	Fri 10/24/08	Thu 10/30/08	10												
13	tech edit	5 days	Fri 10/31/08	Thu 11/6/08	12												
14	FH transmit informality to RL/Agencies	3 days	Fri 11/7/08	Tue 11/11/08	13												
15	Agency review (45 cal days)	30 days	Wed 11/12/08	Tue 12/23/08	14												
16	incorp Agency comments	15 days	Wed 12/24/08	Tue 1/13/09	15												
17	resubmit to RL/Agency	2 days	Wed 1/14/09	Thu 1/15/09	16												
18	RL approve	10 days	Fri 1/16/09	Thu 1/29/09	17												
19	Agency approve	10 days	Fri 1/30/09	Thu 2/12/09	18												
20																	
21	decide procurement strategy	10 days	Mon 8/18/08	Fri 8/29/08													
22	Prepare RFI for design/build/operate	9 days	Wed 9/10/08	Mon 9/22/08	21												
23	Issue RFI & await reponses	20 days	Tue 9/23/08	Mon 10/20/08	22												
24	evaluate responses	4 days	Tue 10/21/08	Fri 10/24/08	23												
25	procure design/build/operate vendor	30 days	Mon 10/27/08	Fri 12/5/08	24												
26																	
27																	
28																	
29	<b>Add'l Field Planning</b>	35 days	Wed 10/15/08	Tue 12/2/08													
30	Eco/cultural review	25 days	Wed 10/15/08	Tue 11/18/08													
31	Excavation Permit	30 days	Wed 10/15/08	Tue 11/25/08	30FF												
32	Revise WCP	30 days	Wed 10/15/08	Tue 11/25/08													
33	WAC 173-160 variance	20 days	Wed 10/15/08	Tue 11/11/08													
34	Prepare/approve Descrip of Work doc	15 days	Wed 10/15/08	Tue 11/4/08													
35	Prepare/approve HASP	15 days	Wed 10/15/08	Tue 11/4/08													
36	Prepare/approve Work Pkg	12 days	Wed 11/5/08	Thu 11/20/08	34												
37	Procure/award drilling contr	35 days	Wed 10/15/08	Tue 12/2/08													
38	Prepare/approve SAF	15 days	Wed 11/12/08	Tue 12/2/08	14												
39	Procure/prepare sampling mats	15 days	Wed 11/12/08	Tue 12/2/08	14												
40																	
41	<b>Drill/sample 2 holes</b>	128 days	Fri 11/21/08	Tue 5/19/09													
42	site prep	5 days	Fri 11/21/08	Thu 11/27/08	36												
43	mobilize driller	8 days	Fri 2/13/09	Tue 2/24/09	19,31,32,37												
44	drill/sample 1st hole	10 days	Wed 2/25/09	Tue 3/10/09	43,36												



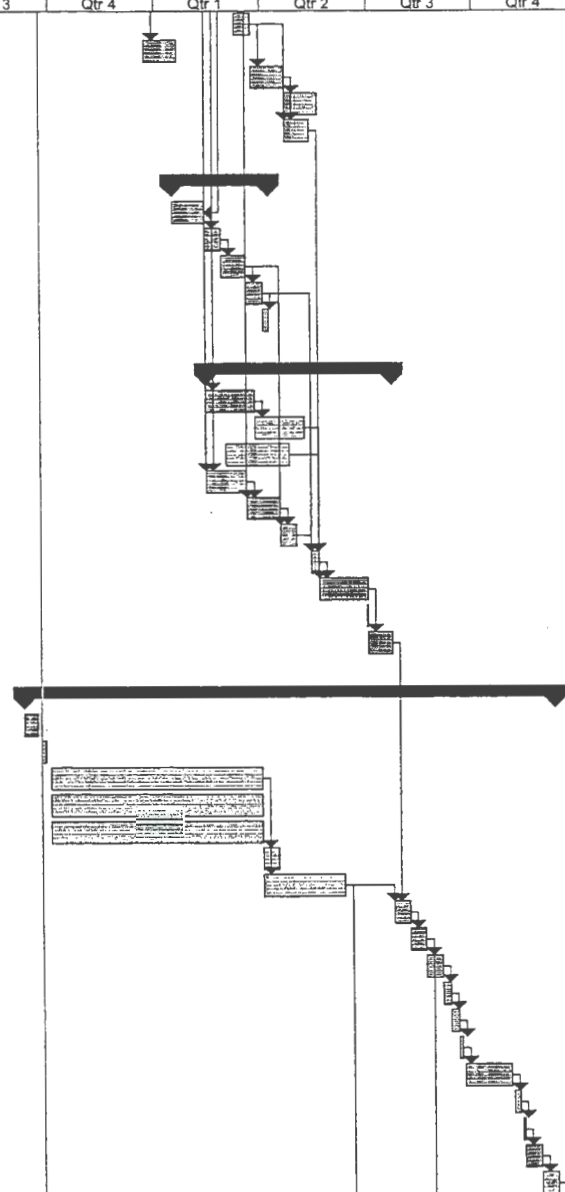
Project: Soil Desiccation\_090908  
Date: Tue 9/23/08

Task Progress Summary External Tasks Deadline

Split Milestone Project Summary External Milestone



ID	Task Name	Duration	Start	Finish	Predecessors	1st Half		2nd Half		1st Half		2nd Half		1st Half		2nd Half	
						Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
45	drill/sample 2nd hole	10 days	Wed 3/11/09	Tue 3/24/09	44												
46	procure instrumentation	20 days	Wed 12/24/08	Tue 1/20/09	15												
47	complete preliminary analyses	20 days	Wed 3/25/09	Tue 4/21/09	45												
48	complete remainder of analyses	20 days	Wed 4/22/09	Tue 5/19/09	47												
49	Eval data & compl wells w instrmtion	15 days	Wed 4/22/09	Tue 5/12/09	45,47												
50																	
51	Local Air permeability testing (dpt wells)	58 days	Fri 1/16/09	Tue 4/7/09													
52	bid/award contract	20 days	Fri 1/16/09	Thu 2/12/09	19FF												
53	mobilize	10 days	Fri 2/13/09	Thu 2/26/09	52												
54	install 5 dpt holes & test	15 days	Fri 2/27/09	Thu 3/19/09	53												
55	evaluate data	10 days	Fri 3/20/09	Thu 4/2/09	54												
56	decommission holes	3 days	Fri 4/3/09	Tue 4/7/09	55												
57																	
58	Large Scale Air perm. & Extr. Air Qual test	113 days?	Fri 2/13/09	Tue 7/21/09													
59	prepare/approve safety basis (CH apprvl)	30 days	Fri 2/13/09	Thu 3/26/09	19												
60	RL approve/issue SER	30 days	Fri 3/27/09	Thu 5/7/09	59												
61	Prepare/approve Environ Air Monitoring doc	40 days	Mon 3/2/09	Fri 4/24/09													
62	complete design	25 days	Fri 2/13/09	Thu 3/19/09	25,19												
63	procure equipment	20 days	Fri 3/20/09	Thu 4/16/09	62,14												
64	install instrumented monitoring holes (HHR)	10 days	Fri 4/17/09	Thu 4/30/09	63,54												
65	install above-ground equip	5 days	Wed 5/13/09	Tue 5/19/09	49,55,64												
66	perform test(s)	30 days	Wed 5/20/09	Tue 6/30/09	65,61,60												
67	TPA Milestone: Begin Field Test Activities	1 day?	Tue 6/30/09	Tue 6/30/09													
68	evaluate data	15 days	Wed 7/1/09	Tue 7/21/09	66												
69																	
70	Prepare Field Test Plan (FTP)	327 days	Mon 9/8/08	Tue 12/8/09													
71	Update modeling test plan (PNNL)	10 days	Mon 9/8/08	Fri 9/19/08													
72	Review modeling & lab test plans w Agen & USGS	3 days	Wed 9/24/08	Fri 9/26/08													
73	design analysis (lab & modeling)	130 days	Wed 10/1/08	Tue 3/31/09													
74	- flow cell test: het media, solutes, rewetting	130 days	Wed 10/1/08	Tue 3/31/09													
75	- simulations of lab data & to support design	130 days	Wed 10/1/08	Tue 3/31/09													
76	define air injection/extraction parameters	10 days	Wed 4/1/09	Tue 4/14/09	73												
77	design system, incl design reviews	50 days	Wed 4/1/09	Tue 6/9/09	73												
78	finalize design	10 days	Wed 7/22/09	Tue 8/4/09	77,68												
79	Complete overall FTP internal review	10 days	Wed 8/5/09	Tue 8/18/09	78												
80	incorp comments	10 days	Wed 8/19/09	Tue 9/1/09	79												
81	Prepare Decis Draft/Draft A	5 days	Wed 9/2/09	Tue 9/8/09	80												
82	tech edit	5 days	Wed 9/9/09	Tue 9/15/09	81												
83	FH transmit informally to RL & Agencies	3 days	Wed 9/16/09	Fri 9/18/09	82												
84	Agency review (45 cal days)	30 days	Mon 9/21/09	Fri 10/30/09	83												
85	incorp Agency comments	5 days	Mon 11/2/09	Fri 11/6/09	84												
86	resubmit to RL/Agency	2 days	Mon 11/9/09	Tue 11/10/09	85												
87	RL approve	10 days	Wed 11/11/09	Tue 11/24/09	86												
88	Agency approve	10 days	Wed 11/25/09	Tue 12/8/09	87												

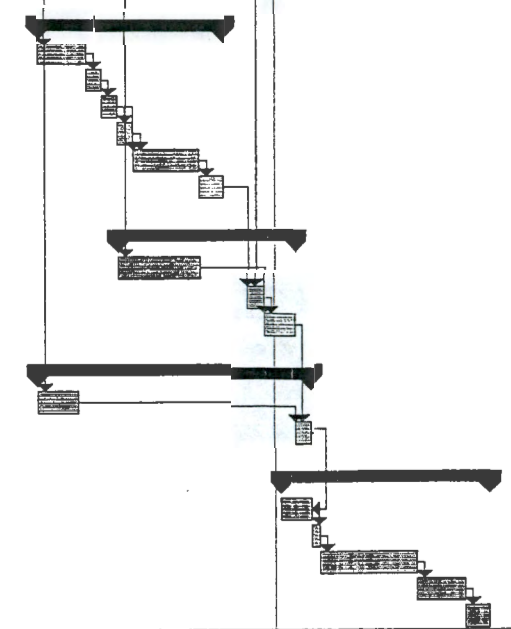


Project: Soil Desiccation\_090908  
Date: Tue 9/23/08

Task: [shaded bar] Progress: [solid bar] Summary: [dashed bar] External Tasks: [dotted bar] Deadline: [arrow]

Split: [line] Milestone: [diamond] Project Summary: [dashed bar] External Milestone: [diamond]

ID	Task Name	Duration	Start	Finish	Predecessors	1st Half		2nd Half		1st Half		2nd Half		1st Half		2nd Half	
						Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4
89																	
90	Drill/sample add'l holes req'd for test	114 days	Wed 6/10/09	Mon 11/16/09													
91	revise SAP, if nec, via TPA CN process	30 days	Wed 6/10/09	Tue 7/21/09	77												
92	mobilize driller	9 days	Wed 7/22/09	Mon 8/3/09	91												
93	drill/sample 3rd hole	10 days	Tue 8/4/09	Mon 8/17/09	92												
94	drill/sample 4th hole	10 days	Tue 8/18/09	Mon 8/31/09	93												
95	analyze samples	40 days	Tue 9/1/09	Mon 10/26/09	93,94												
96	eval data & compl wells w instrumentation	15 days	Tue 10/27/09	Mon 11/16/09	95												
97																	
98	Install above-ground test equip	110 days	Wed 8/19/09	Tue 1/19/10													
99	Procure, incl spares	50 days	Wed 8/19/09	Tue 10/27/09	79												
100	site prep	10 days	Wed 12/9/09	Tue 12/22/09	88,96												
101	Install equipment	20 days	Wed 12/23/09	Tue 1/19/10	100,99												
102																	
103	Acceptance Testing	170 days	Wed 6/10/09	Tue 2/2/10													
104	Prepare/approve Acceptance Test Plan	25 days	Wed 6/10/09	Tue 7/14/09	77												
105	Perform acceptance testing	10 days	Wed 1/20/10	Tue 2/2/10	104,101												
106																	
107	Test Operations	130 days	Wed 1/6/10	Tue 7/6/10													
108	Prepare O/M manual	20 days	Wed 1/6/10	Tue 2/2/10	105FF												
109	Train/qualify staff	5 days	Wed 2/3/10	Tue 2/9/10	108												
110	Perform pilot desiccation testing	60 days	Wed 2/10/10	Tue 5/4/10	109												
111	Evaluate data	30 days	Wed 5/5/10	Tue 6/15/10	110												
112	Perform/prepare DQA	15 days	Wed 6/16/10	Tue 7/6/10	111												



Project: Soil Desiccation\_090908  
Date: Tue 9/23/08

Task: [Progress bar] Progress  
Split: [Line] Milestone

Summary: [Arrow] Summary  
Project Summary: [Arrow] Project Summary

External Tasks: [Box] External Tasks  
External Milestone: [Diamond] External Milestone

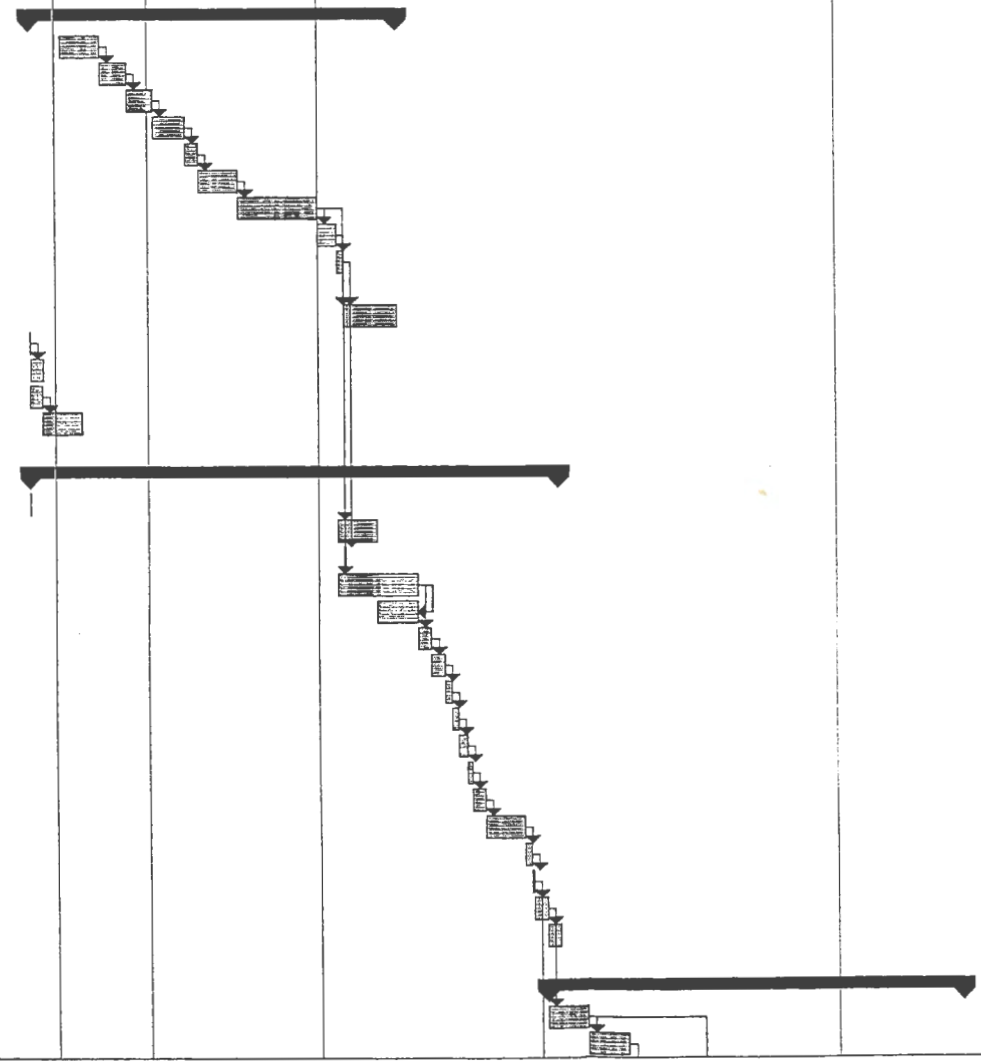
Deadline: [Down arrow] Deadline



DVZTT - Uranium

Tue 9/23/08

ID	Task Name	Duration	Start	Finish	Predeces	2nd Half		1st Half		2nd Half		1st Half		2nd Half		1st Half		2nd Half	
						Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
1																			
2	REACTIVE GAS - U	1 day	Thu 8/28/08	Thu 8/28/08															
3																			
4																			
5																			
6	Initial Screening/Testing/Simulations	279 days?	Thu 8/28/08	Tue 9/22/09															
7	Review existing geochemical information	30 days	Wed 10/1/08	Tue 11/11/08															
8	develop geochemical CSM	20 days	Wed 11/12/08	Tue 12/9/08	7														
9	Screen candidate reactive gases	20 days	Wed 12/10/08	Tue 1/6/09	8														
10	Prepare test plan, incl safety basis	25 days	Wed 1/7/09	Tue 2/10/09	9														
11	Review plan w Agencies	10 days	Wed 2/11/09	Tue 2/24/09	10														
12	Procure test mls & construct assy	30 days	Wed 2/25/09	Tue 4/7/09	11														
13	Conduct testing	60 days	Wed 4/8/09	Tue 6/30/09	12														
14	Evaluate data	15 days	Wed 7/1/09	Tue 7/21/09	13														
15	Decision point: whether to proceed	5 days	Wed 7/22/09	Tue 7/28/09	14														
16																			
17	Prepare/approve test report	40 days	Wed 7/29/09	Tue 9/22/09	13,15														
18	TPA Milestone: submit Uranium Lab Testing rept	1 day?	Thu 8/28/08	Thu 8/28/08															
19	Prepare Simulation Plan	10 days	Fri 8/29/08	Thu 9/11/08	18														
20	Review Simulation Plan w Agencies	10 days	Thu 8/28/08	Wed 9/10/08															
21	Conduct simulations & define test parameters	30 days	Thu 9/11/08	Wed 10/22/08	20														
22																			
23	Prepare Field Test Plan incl Char SAP	401 days?	Thu 8/28/08	Thu 3/11/10															
24	- DQO mtg	1 day?	Thu 8/28/08	Thu 8/28/08															
25	Prepare characterization SAP	30 days	Wed 7/22/09	Tue 9/1/09	14														
26		2 days	Wed 7/29/09	Thu 7/30/09	15														
27	prepare draft FTP	60 days	Wed 7/22/09	Tue 10/13/09	14														
28	design system	30 days	Wed 9/2/09	Tue 10/13/09	27FF														
29	Complete overall FTP internal review	10 days	Wed 10/14/09	Tue 10/27/09	27														
30	incorp comments	10 days	Wed 10/28/09	Tue 11/10/09	29														
31	Prepare Decis Draft/Draft A	5 days	Wed 11/11/09	Tue 11/17/09	30														
32	tech edit	5 days	Wed 11/18/09	Tue 11/24/09	31														
33	FH approve	7 days	Wed 11/25/09	Thu 12/3/09	32														
34	FH transmit to RL	3 days	Fri 12/4/09	Tue 12/8/09	33														
35	RL transmit to Agency	10 days	Wed 12/9/09	Tue 12/22/09	34														
36	Agency review (45 cal days)	30 days	Wed 12/23/09	Tue 2/2/10	35														
37	Incorp Agency comments	5 days	Wed 2/3/10	Tue 2/9/10	36														
38	resubmit to RL/Agency	2 days	Wed 2/10/10	Thu 2/11/10	37														
39	RL approve	10 days	Fri 2/12/10	Thu 2/25/10	38														
40	Agency approve	10 days	Fri 2/26/10	Thu 3/11/10	39														
41																			
42	Install boreholes (4)	315 days?	Fri 2/26/10	Thu 5/12/11															
43	excavation permit, incl eco/cultural review	30 days	Fri 2/26/10	Thu 4/8/10	39														
44	revise WCP	30 days	Fri 4/9/10	Thu 5/20/10	43														



Project: Reactive Gas\_082808  
Date: Tue 9/23/08

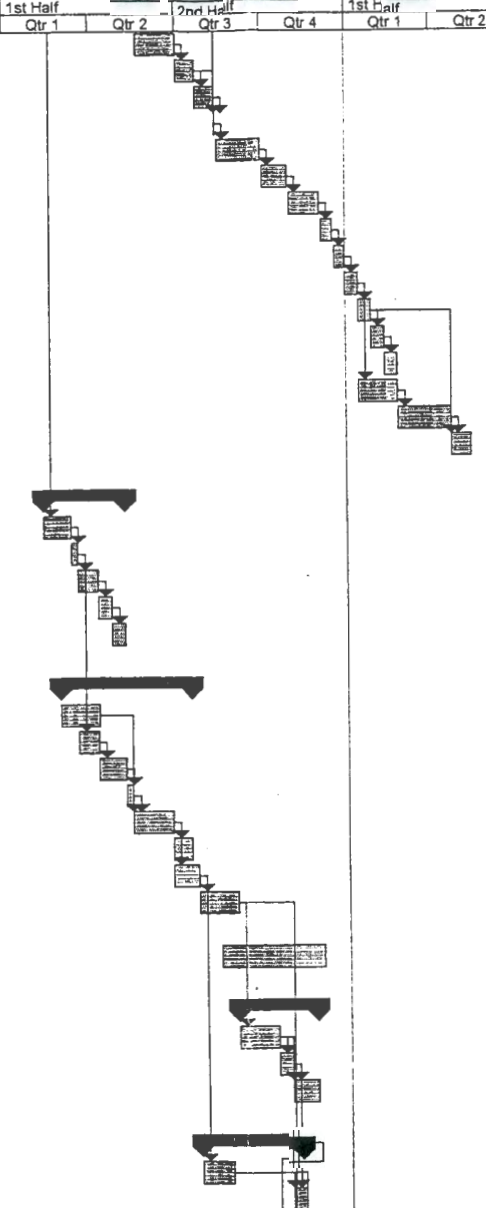
Task: [Pattern] Progress: [Pattern] Summary: [Pattern] External Tasks: [Pattern] Deadline: [Pattern]

Split: [Pattern] Milestone: [Pattern] Project Summary: [Pattern] External Milestone: [Pattern]

DVZTT - Uranium

Tue 9/23/08

ID	Task Name	Duration	Start	Finish	Predecess	Timeline													
						Qtr 2	2nd Half Qtr 3	Qtr 4	1st Half Qtr 1	Qtr 2	2nd Half Qtr 3	Qtr 4	1st Half Qtr 1	Qtr 2	2nd Half Qtr 3	Qtr 4			
45	WAC 173-160 variance	30 days	Fri 5/21/10	Thu 7/1/10	44														
46	prepare/approve HASP	15 days	Fri 7/2/10	Thu 7/22/10	45														
47	prepare/approve Descrip of Work	15 days	Fri 7/23/10	Thu 8/12/10	46														
48	prepare/approve Work Pkg	1 day?	Fri 8/13/10	Fri 8/13/10	43,46,47														
49	procure/award drilling contractor	35 days	Mon 8/16/10	Fri 10/1/10	48														
50	prepare/approve SAF	20 days	Mon 10/4/10	Fri 10/29/10	49														
51	procure/prepare sampling materials	25 days	Mon 11/1/10	Fri 12/3/10	50														
52	site prep	10 days	Mon 12/6/10	Fri 12/17/10	51														
53	mobilize driller	9 days	Mon 12/20/10	Thu 12/30/10	52														
54	drill/sample 1st hole	10 days	Fri 12/31/10	Thu 1/13/11	53														
55	drill/sample 2nd hole	10 days	Fri 1/14/11	Thu 1/27/11	54														
56	drill/sample 3rd hole	10 days	Fri 1/28/11	Thu 2/10/11	55														
57	drill/sample 4th hole	10 days	Fri 2/11/11	Thu 2/24/11	56														
58	procure instrumentation	30 days	Fri 1/14/11	Thu 2/24/11	54														
59	analyze sediment samples	40 days	Fri 2/25/11	Thu 4/21/11	58														
60	Eval data & compl wells w instrmtion	15 days	Fri 4/22/11	Thu 5/12/11	55,59														
61																			
62	Local Air permeability testing (dpt wells)	60 days	Fri 2/12/10	Thu 5/6/10															
63	bid/award contract (ARA)	20 days	Fri 2/12/10	Thu 3/11/10	38														
64	mobilize	5 days	Fri 3/12/10	Thu 3/18/10	63														
65	install 5 dpt holes & test	15 days	Fri 3/19/10	Thu 4/8/10	64														
66	evaluate data	10 days	Fri 4/9/10	Thu 4/22/10	65														
67	complete wells w instrumentation	10 days	Fri 4/23/10	Thu 5/6/10	66														
68																			
69	Large Scale Air permeability testing	99 days	Mon 3/1/10	Thu 7/15/10															
70	prepare/appr Environ Air Monitoring doc	30 days	Mon 3/1/10	Fri 4/9/10															
71	complete design	15 days	Fri 3/19/10	Thu 4/8/10	64														
72	procure equipment	20 days	Fri 4/9/10	Thu 5/6/10	71														
73	install equip	5 days	Fri 5/7/10	Thu 5/13/10	72														
74	perform test(s)	30 days	Fri 5/14/10	Thu 6/24/10	70,73														
75	evaluate data	15 days	Fri 6/25/10	Thu 7/15/10	74														
76	Revise FTP, as necessary	20 days	Fri 6/25/10	Thu 7/22/10	74														
77	RL & Agency approval	30 days	Fri 7/23/10	Thu 9/2/10	76														
78																			
79	Prepare/approve hazard categorization	80 days	Mon 8/16/10	Fri 12/3/10															
80																			
81	Install test system	60 days	Fri 9/3/10	Thu 11/25/10															
82	Procure above-ground test equip, incl spares	30 days	Fri 9/3/10	Thu 10/14/10	77														
83	Site prep	10 days	Fri 10/15/10	Thu 10/28/10	82														
84	Install equip	20 days	Fri 10/29/10	Thu 11/25/10	82,83														
85																			
86	Acceptance Testing	80 days	Fri 7/23/10	Thu 11/11/10															
87	Prepare/approve Acceptance Test Plan	25 days	Fri 7/23/10	Thu 8/26/10	76														
88	Perform acceptance testing	10 days	Fri 10/29/10	Thu 11/11/10	87,83														



Project: Reactive Gas\_082808  
Date: Tue 9/23/08

Task Progress Summary External Tasks Deadline

Split Milestone Project Summary External Milestone

DVZTT - Uranium

Tue 9/23/08

ID	Task Name	Duration	Start	Finish	Predeces	2nd Half		1st Half		2nd Half		1st Half		2nd Half		1st Half		2nd Half	
						Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3
89																			
90	Test Operation	20 days?	Fri 11/12/10	Thu 12/9/10	86,87,77														
91	prepare C/M Manual	20 days	Fri 11/12/10	Thu 12/9/10	87														
92	train/quality staff	5 days	Fri 11/12/10	Thu 11/18/10	87														
93	begin test operation	1 day?	Fri 11/19/10	Fri 11/19/10	92														

Project: Reactive Gas\_082808  
Date: Tue 9/23/08

Task Progress Summary External Tasks Deadline

Split Milestone Project Summary External Milestone