

## AR TARGET SHEET

The following document was too large to scan as one unit, therefore it has been broken down into sections.

DOCUMENT # NA

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SECTION 5 OF 6

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SEC 5

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

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RL-3100-0 - Date: 6/01/1994

Operations Office: RL ID No.: 3100- 0 Revision Date: 4/22/1994  
 ADS Title: 100 DR CHAR., ASSESS. AND REMEDIAL ACTION  
 WBS No.: 1.4.10.1.1.4 Category: ER Appr.: D  
 Project Title: 100 DR Facility/WAG: D REACTOR AREA  
 Installation: HANFORD-100 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 645296 TEC: 645296  
 Contig: 147793  
 CNTR Manager: PATTERSON, JK Phone: 509-376-0902  
 O.O. Manager: GOLLER, ED Phone: 509-376-7326  
 H.Q. Manager: BALONE, S Phone: 301-903-7607  
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

Summary Funding Profile

B&R	FY94 APPR	FY95 PRES	FY95 APPR	DECREMENT	FY96 DRIVER CATEGORY		IMM RISK
					TARGET	PLAN	
OE	893	1,238	A	3,405	3,405	5,653	0
CE	0	0	B	0	0	0	0
GPP	0	0	C	0	0	0	0
LI	0	0	D	0	0	0	0
			E	0	0	0	0
TOTAL	893	1,238	F	0	0	0	0
			G	0	0	0	0
			H	0	0	0	0
			I	0	0	0	0
			TOTAL	3,405	3,405	5,653	0

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	3,405
CE	0
GPP	0
LI	0
TOTAL	3,405

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	3,405	5,721	9,758	5,862	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>3,405</b>	<b>5,721</b>	<b>9,758</b>	<b>5,862</b>	<b>0</b>

FTEs	FY94	FY95			
Direct	4	7			
Indirect	3	6			
Federal	0	0			
FTEs	FY96	FY97	FY98	FY99	FY00
Direct	15	24	44	18	0
Indirect	13	20	37	15	0
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	5,653	17,760	0	0	5,604
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>5,653</b>	<b>17,760</b>	<b>0</b>	<b>0</b>	<b>5,604</b>

FTEs	FY94	FY95			
Direct	4	7			
Indirect	3	6			
Federal	0	0			
FTEs	FY96	FY97	FY98	FY99	FY00
Direct	26	72	0	0	28
Indirect	22	60	0	0	24
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 100-DR CHARACTERIZATION AND ASSE									
APPROP: D									
					A	97	97	97	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW2010301	893	459			E	0	0	0	0
35EW20100	0	0			F	0	0	0	0
39EW20100	0	0			G	0	0	0	0
39EW20100	0	0			H	0	0	0	0
					I	0	0	0	0
<b>TOTAL</b>	<b>893</b>	<b>459</b>			<b>TOTAL</b>	<b>97</b>	<b>97</b>	<b>97</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	97
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>97</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	97	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>97</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	97	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>97</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY				
SUB-DESC: C PROGRAM: EM SUBACT: AB						DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: 100-DR REMEDIAL ACTION										
APPROP: D										
						A	3,308	3,308	5,556	0
						B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR			C	0	0	0	0
						D	0	0	0	0
EW2010302	0	779				E	0	0	0	0
35EW20100	0	0				F	0	0	0	0
39EW20100	0	0				G	0	0	0	0
39EW20100	0	0				H	0	0	0	0
						I	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>779</b>				<b>TOTAL</b>	<b>3,308</b>	<b>3,308</b>	<b>5,556</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	3,308
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>3,308</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	3,308	5,721	9,758	5,862	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>3,308</b>	<b>5,721</b>	<b>9,758</b>	<b>5,862</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	5,556	17,760	0	0	5,604
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>5,556</b>	<b>17,760</b>	<b>0</b>	<b>0</b>	<b>5,604</b>

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**A106 Cross References**

A106 Number: RA-018	Date: 6/23/92
Title: ER-100-KR-1 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-028	Date: 6/23/92
Title: ER-100-DR-1 RFI/CMS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-031	Date: 6/23/92
Title: ER-100-DR-2 RFI/CMS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-058	Date: 6/23/92
Title: ER 100-DR-3 RFI/CMS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:	Date:
Title:	

**FY95-99 ADS Cross References**

ADS #: RL 3100 0  
Title: 100 DR CHAR. ASSESS. AND RA  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

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MILESTONES

Milestone No.: Milestone Seq: 3100-00-0020 TPA MS NO.: M-13-05  
Title: M-13-05 SUBMIT DRAFT 100-DR-2 OU WORK PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: SA  
10/31/1993 10/31/1993 10/31/1993 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 10/20/92.

Milestone No.: Milestone Seq: 3100-00-0005 TPA MS NO.: M-15-07B  
Title: M-15-07B COMPLETE 100-DR-1 TREATABILITY STUDY ACTIVITIES  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
8/31/1994 8/31/1994 8/31/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3100-00-0010 TPA MS NO.: M-15-07C  
Title: M-15-07C SUBMIT 100-DR-1 FFS REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
9/30/1994 9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3100-00-0015 TPA MS NO.: M-15-07D  
Title: M-15-07D SUBMIT 100-DR-1 IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
9/30/1994 9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

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MILESTONES Continued

Milestone No.: Milestone Seq: 3100-00-0035 TPA MS NO.: F-15  
Title: SUBMIT 100-DR-2 FFS REPORT & IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
9/30/1995 9/30/1995 9/30/1995 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:07:46

Technical Scope Summary(Limit 15 line or less):

This activity data sheet (ADS) is for the RCRA Facility Investigations/ Corrective Measures Study (RFI/CMS) for the 100-DR Area Operable Units (OUs). (Note: A TPA change request is currently in process to consolidate 100-DR-3 OU into 100-DR-2 OU.) 100-DR Area contains three OUs: 100-DR-1, 100-DR-2, and 100-DR-3. The 100-DR OUs will be assessed and remediated under RCRA 3004(u). The technical scope includes management, planning, investigation, alternatives selection, and documentation required to reach a record of decision (ROD)/interim record of decision (IROD) for these OUs. It also includes management, planning documentation, and implementation of remedial actions (RAs).

Technical Scope Detail(Limit 104 lines or less):

The 100-DR Area is located in the northern portion of the Hanford Site. The OUs received predominately liquid wastes resulting from reactor area operations. These OUs contain 46 identified individual waste management units, one of which is a treatment, storage, and disposal unit (120-DR-1 Pond) which is currently planned to undergo closure activities in parallel with the RFI/CMS process. These OUs contain waste units which received several types of liquid effluent, decontamination waste streams, and miscellaneous liquid and solid wastes. Liquid waste discharge to 100-DR Area OUs totals approximately 26 million gallons. Solid wastes total approximately 52,000 cubic yards.

OUs of these types are the main source of groundwater contamination in and around the 100 Aggregate Area. Primary contaminants of concern in the groundwater are chromium, tritium, and nitrates. The reactor liquid effluent OUs, such as 100-DR-1, are high priority units in the 100 Aggregate Area because these sites contain released radioactive and/or hazardous substances to the environment (i.e., the Columbia River).

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Assessment and characterization activities covered by this ADS include efforts to describe the hydrologic and geologic settings and the characteristics and extent of contamination on and beneath the 100-DR Area. Upon approval of the work scope from the regulators, sampling and analysis will occur on and beneath the OUs including the surface and vadose zones. Groundwater investigations for the 100-DR Area will be covered with the 100-HR Area ADS 3120. 100 Area Common activities will also be covered in ADS 3120. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, remediation action alternatives will be analyzed and studied, and a proposed plan will be submitted for public review, approval, and issuance of a ROD/IROD by the regulators.

Prior to a final ROD, IRODs may occur. These IRODs will expedite the cleanup process where areas of contamination are known. Initial limited field investigations (LFIs) will be conducted to determine contamination levels, but not the extent. Remediation alternatives will be selected through treatability tests, qualitative risk assessments (QRAs), and finally, a focused feasibility study (FFS). Upon receipt of an IROD/ROD, the interim remedial measures (IRM)/RA will be initiated within 15 months. The RAs will proceed at the conclusion of the remedial investigation (RI)/feasibility study (FS) on the 100-DR Area OUs and upon the approval and issuance of the IROD/ROD by the regulatory agencies. The RAs are divided into three main phases: (1) RAs design; (2) procurement/construction, and remediation; and (3) RAs post monitoring except in the case of clean closure.

Act. Comp. to Date/Current Year (FY 1994) Desc. (Limit 52 lines or less):  
100-DR-1 activities to date: work plan was approved by the regulators on 10/21/92. All data compilation, topographic mapping, and non-intrusive/intrusive activities have been completed. A total of 17 boreholes have been drilled. Samples have been analyzed for contaminants of concern. Sample packages have been returned, data verified, validated, and evaluated. Data was input into QRA and LFI reports. The QRA and LFI reports were issued to the regulators in 8/93 completing TPA Milestone M-15-07A.

100-DR-2 activities to date: the 100-DR-2 Work Plan was issued to the regulators 10/31/93 completing TPA Milestone M-13-05. Intrusive investigations have been completed. OU scoping meetings were held with the regulators identifying the work scope of the OU investigations, accelerating FY 1994 scope of work into FY 1993.

Current Year (FY 94) Description: The FY 1994 activities for the 100-DR Area include the following: (1) the 100-DR-1 OU activities include soil washing field test activities completing treatability study activities which will meet TPA Milestone M-15-07B. This activity is funded in ADS

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3120, 100-HR, 100 Area Common, (2) preparation/issuance of a FFS report and IRM proposed plan, satisfying TPA Milestone M-15-07C, (3) issue approved 100-DR-2 OU Work Plan, (4) completion of 100-DR-2 non-intrusive investigations, (5) 100-DR-2 intrusive samples analyzed for contaminants of concern will be returned, data verified, validated, evaluated, and validated data issued to the regulators. Prepare and issue QRA and LFI reports to RL for review, 12/31/94 (proposed), (6) consolidation of the 100-DR-3 OU into 100-DR-2 OU will be completed in FY 1994. 100-DR-2 OU Work Plan will be reissued in 9/94 with 100-DR-3 information consolidated into the Work Plan. All data will be combined into the 100-DR-2 LFI report and issued per the approved 100-DR-2 schedule.

Budget Year (FY 1995) Description(Limit 52 lines or less):

Decrement/Target: There is no difference between the decrement and target case in FY95.

Complete the 100-DR-1 OU Focused Feasibility Study review. [\$82.9K]

In FY 1995 \$779.6K has been added to bring the ER total up to \$229.7. The following is the associated workscope.

Reach an IROD/ROD for the 100-DR-1 OU 3/95, and prepare the RD/RA plans for selected waste sites in the 100-DR-1 OU. [\$306.9K]

Initiate RAs at limited waste sites within the 100-DR-1 OU per the preferred alternative defined in the IROD/ROD.

Excavate and remove for disposal 33 yards from waste site 116-D-3, within the 100-DR-1 OU. [\$236.3K]

Excavate and remove for disposal 33 yards from waste site 116-D-4, within the 100-DR-1 OU. [\$236.3K]

Finish preparation and issue 100-DR-2 LFI OU report to the regulators for review 12/31/94. [\$133.7K]

Prepare and issue the 100-DR-2 OU FFS report to the regulators 09/30/95 and complete review. [\$224.6K]

Prepare and issue the 100-DR-2 OU IRM Proposed Plan to the regulators 09/30/95 and complete review in support of reaching an IROD/ROD early FY 1996. [\$17.6K]

Planning Year (FY 1996) Description(Limit 156 lines or less):

There are no impacts to the 100-DR Subproject in the decrement case.

Decrement/Target:

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Complete preparation of RD/RA plans for selected waste site at 100-DR-1 OU.  
[\$193.9K]

Continue initiating RAs at limited waste sites within the 100-DR-1 OU per the preferred alternative defined in the IROD/ROD.

Excavate and remove for disposal 1,972 yards from waste site 116-D-5, within the 100-DR-1 OU. [\$1257.9K]

Excavate and remove for disposal 3,491 yards from waste site 116-DR-2, within the 100-DR-1 OU. [\$1856.5K]

Complete the 100-DR-2 OU Focused Feasibility Study review. [\$84.8K]

Complete the 100-DR-2 OU IRM Proposed Plan review. [\$12.0K]

Receive a Record of Decision for 100-BC-2 in 12/31/96.

There are no plans to initiate RAs in the 100-DR-2 OU.

Planning:

Complete preparation of additional RD/RA plans for selected waste site at 100-DR-1 OU. [\$47.8K]

Excavate and remove for disposal 3,360 yards from waste site 116-DR-1, within the 100-DR-1 OU. [\$1114.5K]

Excavate and remove for disposal 565 yards from waste site 116-DR-5, within the 100-DR-1 OU. [\$797.4K]

Excavate and remove for disposal 138 yards from waste site 116-DR-5, within the 100-DR-1 OU. [\$287.8K]

There are no plans to initiate RAs in the 100-DR-2 OU.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

Outyear activities for the 100-DR Area include: (1) continue development of RD/RA plans for selected waste sites, (2) continue RAs at selected waste sites within the 100-DR-1 OU per the preferred alternative defined in the IROD/ROD, (3) there are no plans to initiate RAs in the 100-DR-2 OU within the FY 1997-2000 time frame.

General Remediation Assumptions for the 100-DR Area are: (1) written direction will be received from RL to initiate RD/RA activities prior to a receipt of an IROD/ROD, (2) priority is to begin remediation of limited

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waste sites at 100-DR-1 OU in FY 1996 to show progress, (3) removal is assumed to be the preferred alternative, (4) no volume reduction or treatment is included but will be considered for cost/benefits in the FFS, (5) the results from the LFIs and QRAs are factors in the prioritization of waste sites, (6) ER has paid for the W-025 and W-025A Trenches. ER will not be charged for waste disposal costs, (7) ERDF will accept unlimited waste, (8) waste site prioritization is divided into two categories: (A) activities that can be initiated in FY 1995/1996 to show progress but are limited to disposal capacity and resources (i.e., equipment, budget), and (B) activities that can be initiated in FY 1997 once the ERDF is ready to accept waste. Criteria for waste site selection within the above categories is as follows:

Waste sites to be remediated in FY 1995 and FY 1996: (1) low volume waste disposal sites, (2) total FY 1995 waste disposal capacity is 10,000 cubic yards (anticipated W-025 Trench capacity), (3) total FY 1996 waste capacity is 50,000 cubic yards (anticipated W-025A Trench capacity), (4) waste sites located within 1/4 mile of the river, (5) waste sites located outside controlled areas, (6) waste sites located within the path of the C Reactor removal ramp, (7) 100-BC, 100-HR, and 100-DR are the only areas remediation is occurring, and (8) operations will be an eight hour shift.

Waste sites to be remediated in FY 1997 through FY 2000: (1) ERDF is ready to accept waste starting in 10/96, (2) waste disposal capacity is unlimited, (3) waste sites located within 1/4 mile of the river, (4) waste sites located outside controlled areas, (5) waste sites located within the path of the C Reactor removal ramp, (6) high, medium, lower risk waste sites, (7) 100-BC, 100-HR, and 100-DR are the only areas remediation is occurring, and (8) waste sites integrated with decontamination and decommissioning activities.

**Impacts/Assumptions(Limit 42 lines or less):**

**IMPACTS:** (1) Completion of RAs by 2018 (TPA Milestone M-16-00) is in jeopardy based on the target budget case, (2) target case does not provide for substantial and continuous remediation, after the IROD/ROD has been issued at 100-DR source OUs, (3) there are no remediation activities planned for 100-DR-2 OU during the next five years, (4) substantial and continuous remediation will not begin 15 months after the IROD/ROD is issued.

**SUBPROJECT SPECIFIC ASSUMPTIONS:** (1) All existing 100-DR-1 and proposed 100-DR-2 OU TPA milestones will be completed, (2) no additional characterization work will be required in the 100-DR Area, (3) limited RD/RA will be initiated at the 100-DR OUs in FY 1995/1996, (4) treatability tests for nitrates are not required, (5) nitrate treatment, if required will be added onto the 100-HR-3 pump and treat system, (6) treatability tests are per 100 Area Treatability Program Plan and agreements made with the regulators, and (7) treatability tests are planned and funded in the

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100-HR Subproject, 100 Area Treatability Accounts, ADS 3120.

OVERALL PLANNING ASSUMPTIONS: (1) the HRA-EIS will provide resolution of issues concerning future land use of the Hanford Site, such that ER work can proceed without impacts, (2) ERC will not have an impact on assessment and RAs, (3) no cost or schedule impacts will result from implementation of NRDA's, (4) current technologies will be available to support remediation needs, (5) infrastructure will be in place to support all activities, (6) all field activities will be conducted in accordance with existing Hanford practices and bargaining agreements, (7) characterization activities are per the Hanford Site Past-Practice Strategy, (8) all FY 1995 and outyear M-13-00 Milestones will be waived per program optimization to implement remediation, all other 1/25/94 revised TPA milestones will be met, (9) funding will be available at the beginning of each fiscal year to support work activities, (10) procurement and subcontracting activities will not impact execution of this plan, (11) the ROD for each OU will establish deliverables and milestones for the defined remediation activities, remediation activities will be determined by resources available, and (12) written direction will be received from RL to initiate RD/RA activities prior to receipt of the ROD.

Supporting Documents(Limit 5 lines or less):

TPA, CERCLA, RCRA, NEPA, and DOE Orders 4700.1 and 5700.2D.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

~~DESCRIPTION OF REGULATORY DRIVERS~~

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

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DESCRIPTION OF REGULATORY DRIVERS Continued

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the Environmental Restoration Program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost Schedule Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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DESCRIPTION OF REGULATORY DRIVERS Continued

DOE:  
Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the Environmental Restoration Program. The project scope, cost, and schedule are a direct result of complying to these various orders.

NEPA R:  
Affected Scope/Cost  
activities is to ensure that the level of assessment and cleanup activities are assessed.

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RCRA:  
RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004(d).

TRI:  
All subject activities are affected by the TRI, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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Operations Office: RL ID No.: 3105- 0 Revision Date: 4/22/1994  
 ADS Title: 100 BC CHAR., ASSESS. AND REMEDIAL ACTION  
 WBS No.: 1.4.10.1.1.5 Category: ER Appr.: D  
 Project Title: 100 BC Facility/WAG: B/C REACTOR AREA  
 Installation: HANFORD-100 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 637736 TEC: 637736  
 Contig: 154943  
 CNTR Manager: PATTERSON, JK Phone: 509-376-0902  
 O.O. Manager: GOLLER, ED Phone: 509-376-7326  
 H.Q. Manager: BALONE, S Phone: 301-903-7607  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			IMM RISK
					DECREMENT	TARGET	PLAN	
OE	3,169	4,789		A	10,491	10,491	23,564	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	3,169	4,789		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	10,491	10,491	23,564	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	10,491
CE	0
GPP	0
LI	0
TOTAL	10,491

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TARGET LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	10,491	8,844	20,346	21,673	43,347
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>10,491</b>	<b>8,844</b>	<b>20,346</b>	<b>21,673</b>	<b>43,347</b>

  

FTEs	FY94	FY95
Direct	33	15
Indirect	28	13
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	20	30	79	66	178
Indirect	17	25	66	55	150
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	23,564	25,965	51,889	54,426	57,238
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>23,564</b>	<b>25,965</b>	<b>51,889</b>	<b>54,426</b>	<b>57,238</b>

  

FTEs	FY94	FY95
Direct	33	15
Indirect	28	13
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	83	85	228	235	235
Indirect	70	71	192	197	197
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 100-BC CHARACTERIZATION AND ASSE									
APPROP: D									
					A	71	71	71	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW2010301	2,972	852			E	0	0	0	0
35EW20100	0	0			F	0	0	0	0
39EW20100	0	0			G	0	0	0	0
39EW20100	0	0			H	0	0	0	0
					I	0	0	0	0
<b>TOTAL</b>	<b>2,972</b>	<b>852</b>			<b>TOTAL</b>	<b>71</b>	<b>71</b>	<b>71</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	71
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>71</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	71	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>71</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	71	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>71</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

				FY96 DRIVER CATEGORY			
				DECREMENT	TARGET	PLAN	IMM RISK
DESC: RCRA/CERCLA							
SUB-DESC: C PROGRAM: EM SUBACT: AB							
TITLE: 100-BC REMEDIAL ACTION							
APPROP: D				A	10,420	10,420	23,493
				B	0	0	0
B&R				C	0	0	0
				D	0	0	0
FY94 APPR				E	0	0	0
FY95 PRES				F	0	0	0
FY95 APPR				G	0	0	0
EW2010302				H	0	0	0
35EW20100				I	0	0	0
39EW20100				TOTAL	10,420	10,420	23,493
39EW20100							0
TOTAL							0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	10,420
35EW20100	0
39EW20100	0
39EW20100	0
TOTAL	10,420

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	10,420	8,844	20,346	21,673	43,347
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	10,420	8,844	20,346	21,673	43,347

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	23,493	25,965	51,889	54,426	57,238
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	23,493	25,965	51,889	54,426	57,238

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**A106 Cross References**

A106 Number: RA-017	Date: 6/23/92
Title: ER-100-BC-5 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-022	Date: 6/23/92
Title: ER-100-BC-2 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-055	Date: 6/23/92
Title: ER 100-BC-3 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-056	Date: 6/23/92
Title: ER 100-BC-4 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-057	Date: 6/23/92
Title: ER 100-IU-1 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-106	Date: 6/23/92
Title: ER-100-BC-1 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:

**Tiger Team Cross References**

Tiger Team Finding Number: \_\_\_\_\_ Date: \_\_\_\_\_  
Title: \_\_\_\_\_

**FY95-99 ADS Cross References**

ADS #: RL 3105 0  
Title: 100 BC CHAR. ASSESS. AND RA  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**FY95-99 ADS Cross References Continued**

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~~FY95-99 ADS Cross References Continued~~

ADS #: RL 3400 0

Title: PROGRAM MANAGEMENT AND SUPPORT

Transferred in its entirety: N

Explanation of Change:

REMIEDIATION EQUIPMENT FOR 100 AREA SOURCE UNITS HAS BEEN MOVED FROM ADS 3400 TO ADS 3105. TARGET CASE RESOURCES MOVED ARE: FY96: \$5840K, FY97: \$1938K, FY98: \$3908K, FY99: \$5829K, FY-00: \$6515K.

~~MILESTONES~~

Milestone No.: Milestone Seq: 3105-00-0070 TPA MS NO.: M-15-08C  
Title: M-15-08C SUBMIT 100-BC-1 TREATABILITY REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
1/31/1994 1/31/1994 1/31/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3105-00-0025 TPA MS NO.: M-15-16A  
Title: M-15-16A SUBMIT TO EPA/ECOLOGY 100-B AREA BURIAL GROUND TEST PLAN  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
5/31/1994 5/31/1994 5/31/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA 2/1/94  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

Milestone No.: Milestone Seq: 3105-00-0020 TPA MS NO.: M-15-16B  
Title: M-15-16B COMMENCE REMEDIAL FIELD WORK - 100-B AREA BURIAL GROUND  
Planning Date Target Date Decrement Date Level: HQ Keyword: FW  
8/31/1994 8/31/1994 8/31/1994 PTS: N SMS: Y  
Driver Name: TRI Driver Reference: TPA 2/1/94  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

~~MILESTONES Continued~~

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Milestone No.: Milestone Seq: 3105-00-0055 TPA MS NO.: M-15-09C  
Title: M-15-09C SUBMIT 100-BC-5 FFS REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
10/31/1994 10/31/1994 10/31/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3105-00-0105 TPA MS NO.: M-15-09D  
Title: M-15-09D SUBMIT 100-BC-5 IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
10/31/1994 10/31/1994 10/31/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3105-00-0075 TPA MS NO.: M-15-08D  
Title: M-15-08D SUBMIT 100-BC-1 FFS REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
11/30/1994 11/30/1994 11/30/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3105-00-0030 TPA MS NO.: M-15-16C  
Title: M-15-16C SUB TO EPA/ECOLOGY 100-B BURIAL GROUND FIELD WORK REPORT  
Planning Date Target Date Decrement Date Level: HQ Keyword: O  
5/31/1995 5/31/1995 5/31/1995 PTS: N SMS: Y  
Driver Name: TRI Driver Reference: TRI 2/1/94  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 3105-00-0090 TPA MS NO.: F-15  
Title: SUBMIT 100-BC-2 FFS REPORT & IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
6/15/1995 6/15/1995 6/15/1995 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:08:31

Technical Scope Summary(Limit 15 line or less):

This ADS is for the remedial investigation (RI)/feasibility study (FS) and remediation for the 100-BC Area Operable Units (OUs). The 100-BC Area contains three source OUs: 100-BC-1, 100-BC-2, 100-IU-1, and a groundwater 100-BC-5 OU. The 100-BC OUs will be assessed and remediated under CERCLA. The 100-BC-3 and 100-BC-4 OUs have been consolidated into 100-BC-2 per TPA change request. The technical scope includes management, planning, investigation, alternatives selection, and documentation required to reach a record of decision (ROD)/interim record of decision (IROD) for these OUs. It also includes management, planning, documentation, and implementation of remedial actions (RAs). Additionally, remedial design (RD) and action are also covered in this ADS. 100-IU-1 OU (Riverland Rail Wash Pit) is currently being closed out as an expedited response action (ERA).

Technical Scope Detail(Limit 104 lines or less):

The 100-BC Area is located in the northern portion of the Hanford Site. The OUs received predominately liquid wastes resulting from B Reactor Area operations. These OUs contain 65 identified individual waste management units. These waste units received several types of liquid effluent, decontamination waste streams, and miscellaneous liquid and solid wastes. Liquid waste discharge to 100-BC Area OUs totals approximately 51 million gallons. Solid wastes total approximately 32,000 cubic yards.

OUs of these types are the main source of groundwater contamination in and around 100 Aggregate Area. Primary contaminants of concern in the groundwater are chromium, sodium dichromate, strontium-90, and tritium. Reactor liquid effluent 100-BC-1 OU is a high priority unit in the 100 Aggregate Area because of released radioactive and/or hazardous substances to the environment. Groundwater OUs are also high priority because they represent the groundwater contamination reaching the Columbia River.

NARRATIVE Continued

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Assessment and characterization activities covered by ADS 3105 include efforts to describe the hydrologic and geologic settings, the characteristics, contents, and extent of contamination on and beneath the 100-BC Area. Upon approval of the work scope from the regulators, sampling and analysis will occur on and beneath the OUs including the surface and vadose zones. Non-intrusive investigations that are common to the 100 Aggregate Area will be covered in ADS 3120. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, remediation action alternatives will be analyzed and studied, and a proposed plan will be submitted for development, approval, and issuance of a ROD/IROD by the regulators.

Prior to a final ROD, IRODs may occur. These IRODs will expedite the cleanup process where areas of contamination are known. Initial limited field investigations (LFIs) will be conducted to determine contamination levels but not the extent. Remediation alternatives will be selected through treatability tests (TTs), qualitative risk assessments (QRAs), and finally a focused FS (FFS). Upon receipt of an IROD/ROD, the interim remedial measure (IRM)/RA will be initiated within 15 months.

The RAs will proceed at the conclusion of the RI/FS on the 100-BC Area OUs and upon the approval and issuance of the ROD/IROD by the regulatory agencies. The RAs are divided into three main phases: (1) RAs design, (2) procurement, construction, and remediation, and (3) RAs post monitoring except in the case of clean closure. The first 15 months of RAs are currently assumed to be design related activities. All identified waste management units will be subjected to the RAs process.

Act. Comp. to Date/Current Year (FY 1994) Desc. (Limit 52 lines or less):

(1) 100-BC-1 activities to date: work plan was approved by the regulators on 7/22/92. All data compilation, topographic mapping, and non-intrusive and intrusive activities have been completed. A QRA was conducted. A total of four boreholes have been drilled. Samples have been analyzed for contaminants of concern. Sample packages have been returned, data verified, validated, and issued to the regulators on 10/9/92, meeting TPA Milestone M-15-08A. This data has been evaluated and incorporated into the QRA and LFI reports; the LFI report was issued to the regulators 7/31/93, meeting TPA Milestone M-15-08B. Completed bench-scale soil washing treatability activities and a treatability summary report completing TPA Milestone M-15-08C 1/31/94. (2) 100-BC-5 activities to date: work plan was approved by the regulators on 8/4/92. Data compilation and geological investigations have been completed. Ten groundwater wells have been drilled, screens installed, and five rounds of water samples taken. Sample packages have been returned, data verified, validated, and issued to the regulators on 12/31/92, meeting TPA Milestone M-15-09A. This data was evaluated and incorporated into the QRA and LFI reports; the LFI report was issued to the regulators 8/31/93, meeting TPA Milestone M-15-09B.

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Preparation of a FFS has commenced. (3) 100-BC-2 activities to date: work plan was issued to the regulators on 5/21/93, meeting TPA Milestone M-13-01. A TPA change request was signed by the Tri-Party Project Managers delaying the date of submittal of the 100-BC-2 Work Plan from 2/28/93 to 5/21/93 to the regulators, to allow time for 100-BC-3 and 100-BC-4 OUs to be incorporated into the 100-BC-2 OU Work Plan. Field investigations are complete, and preparation of QRA and LFI reports have commenced. (4) Riverland (100-IU-1) ERA activities to date: site characterization has been completed and samples have been analyzed; data has been returned. The engineering evaluation/cost analysis (EE/CA) was prepared and issued in 4/93 for public review; an action memorandum was received from the regulators. Remediation of the Riverland waste site is complete, and site ordinance inspections have been conducted. (5) In preparation of a systematic approach to 100-BC Area remediation, a preliminary design report, waste volume determination, and cost estimates were prepared. This remediation strategy is currently being proposed to the regulators as part of the Optimized Baseline Project (OBP). The results of the OBP negotiations will determine the outcome of this approach.

CURRENT YEAR (FY 94) DESCRIPTION: The FY 1994 activities for the 100-BC Area include the following: (1) complete the 100-BC-1 OU Bench-Scale Soil Washing Treatability Study and issue the report to the regulators in support of TPA Milestone M-15-08C. This activity is funded in ADS 3120, 100-HR, 100 Area Common, (2) prepare FFS and IRM Proposed Plan for 100-BC-1 and issue to DOE-RL for review, (3) prepare and issue 100-BC-2 QRA and LFI reports to the regulators 8/31/94, (4) initiate 100-BC-2 FFS, (5) issue to the regulators, 5/94, a 100-B Area Burial Ground TT Plan, meeting TPA Milestone M-15-16A. This activity is funded in ADS 3120, 100-HR, 100 Area Common, (6) commence field work 8/94 for the 100-B Area Burial Ground TT, meeting TPA Milestone M-15-16B, (7) prepare and issue the 100-BC-5 OU FFS report and IRM Proposed Plan to RL for review, (8) continue biannual sampling activities in the 100-BC-5 groundwater OU, and (9) complete closeout documentation for the Riverland ERA.

Budget Year (FY 1995) Description(Limit 52 lines or less):

Decrement/Target: There is no difference between the decrement and target case in FY95.

Complete preparation and issue the 100-BC-1 OU FFS report to the regulators 11/30/94, satisfying TPA Milestone M-15-08D and complete review. [\$138.1K]

Reach an IROD/ROD for the 100-BC-1 OU, and prepare the RD/RA plans for selected waste sites within the 100-BC-1 OU. [\$365.2K]

Begin purchasing equipment necessary to remediate selected waste sites within 100-BC OUs. Equipment purchased for remediation within 100-BC Subproject will be used also to remediate other 100 Area waste sites. [\$1735.0K]

NARRATIVE Continued

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Initiate RAs at limited waste sites within the 100-BC-1 OU per the preferred alternative defined in the IROD/ROD.

Excavate and remove for disposal 88 yards from waste site 116-B-10, within the 100-BC-1 OU. [\$265.K]

Excavate and remove for disposal 283 yards from waste site 132-B-6, within the 100-BC-1 OU. [\$276.2K]

Complete preparation and issue the 100-BC-2 OU FFS report to the regulators 06/07/95 and complete review. [\$365.9K]

Complete preparation and issue the 100-BC-5 OU FFS report and IRM Proposed Plan to the regulators 10/31/94, satisfying TPA Milestones M-15-09C and M-15-09D, and complete review. [\$103.6K]

Continue biannual sampling activities of 24 wells in the 100-BC-5 groundwater OU. [\$244.3K]

Complete 100-B Area Burial Ground TT field work and submit to regulators a summary report on 05/31/95, meeting TPA Milestone M-15-16C. Dollars associated with this scope of work is in the 100-HR Common Area Subproject.

Planning: In FY95 \$1,296K has been added to bring the ER total up to \$229.7 million.

The scope of work added is as follows: a) Prepare RD/RA plans for the selected waste sites to be remediated. [\$70.6K]; b) Excavate and remove for disposal 282 yards from waste site 132-B-6, within the 100-BC-1 OU. [\$474.7K]; c) Excavate and remove for disposal 565 yards from waste site 116-B-7, within the 100-BC-1 OU. [\$750.9K]; and d) FY96 and outyear scope of work and dollars have not been changed due to the increase in FY95 dollars.

**Planning Year (FY 1996) Description(Limit 156 lines or less):**

There are no impacts to the 100-BC Subproject between the target and decrement case.

**Decrement/Target:**

Complete review of the 100-BC-2 OU FFS report. [\$70.7K]

Reach an IROD/ROD for the 100-BC-5 OU. Continue preparation of the RD/RA plans for selected waste sites within the 100-BC-1 and 100-BC-2 OUs. [\$286.6K]

Continue purchasing equipment necessary to remediate selected waste sites

**NARRATIVE Continued**

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within the 100-BC OUs. Equipment purchased for remediation within the 100-BC Subproject will be used also to remediate other 100 Area waste sites. [\$5840.1K]

Initiate RAs at limited waste sites within the 100-BC-1 OU, and 10-BC-2 OU per the preferred alternative defined in the IROD/ROD.

Excavate and remove wastes from the 116-B-7 site, within the 100-BC-1 OU. [\$768.2K]

Excavate and remove for disposal 283 yards from waste site 132-B-6, within the 100-BC-1 OU. [\$485.6K]

Excavate and remove for disposal 1,087 yards from waste site 132-C-2, within the 100-BC-1 OU. [\$964.9K]

Excavate and remove for disposal 945 yards from waste site 1607-B3, within the 100-BC-1 OU. [\$670.8K]

Excavate and remove for disposal 215 yards from waste site 1607-B4, within the 100-BC-1 OU. [\$311.9K]

Excavate and remove for disposal 82 yards from waste site 116-C-2B, within the 100-BC-2 OU. [\$555.7K]

Excavate and remove for disposal 524 yards from waste site 116-C-2C, within the 100-BC-2 OU. [\$286.7K]

Continue biannual sampling activities of 24 wells in the 100-BC-5 groundwater OU. [\$249.9K]

Planning:

Additional RD/RA plans will be prepared in the planning case for remediation of selected waste sites within the 100-BC-1 and 100-BC-2 OUs. [\$490.0K]

RD plans will also be prepared for (non-priority RAs) in the planning case. [\$5937.0K]

Excavate and remove for disposal 565 yards from waste site 116-B-7, within the 100-BC-1 OU. Was completed earlier in the planning case (see FY95). [-\$768.2K]

Excavate and remove for disposal 283 yards from waste site 132-B-6, within the 100-BC-1 OU. Was completed earlier in the planning case (see FY95). [-\$485.6K]

Excavate and remove for disposal 261 yards from waste site 128-B-3, within

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the 100-BC-1 OU. [\$8032.1K]

RD plans will be prepared for 100-BC-2 OU selected waste sites. [\$710.0K]

Excavate and remove for disposal 606 yards from waste sites 116-C-2B and 116-C-2C. [-\$842.4K] These waste sites are remediated in FY 1995 under the planning case.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

The outyear activities for the 100-BC Area include: (1) continue RAs at selected waste sites within the 100-BC Area OUs per the preferred alternative defined in the IROD/ROD, and (2) continue biannual sampling activities in the 100-BC-5 groundwater OU. Remediation activities will be focused in the 100-BC Area in order to coordinate clean-up activities with the removal of the 100-BC Reactor.

General Remediation Assumptions for the 100-BC Area are: (1) written direction will be received from RL to initiate RD/RA activities prior to a receipt of an IROD/ROD, (2) priority is to begin remediation of limited waste sites in FY 1995 to show progress, (3) removal is assumed to be the preferred alternative, (4) no volume reduction or treatment is included but will be considered for cost/benefits in the FFS, (5) the results from the LFI and QRAs are factors in the prioritization of waste sites, (6) ER has paid for the W-025 and W-025A Trenches. ER will not be charged for waste disposal, (7) ERDF will accept unlimited waste, and (8) waste site prioritization is divided into two categories: (A) activities that can be initiated in FY 1995 and FY 1996 to show progress but are limited to disposal capacity and resources (i.e. equipment, budget), and (B) activities that can be initiated in FY 1997 once the ERDF is ready to accept waste. Criteria for waste site selection within the above categories is as follows:

Waste sites to be remediated in FY 1995/1996: (1) low volume waste disposal sites, (2) total FY 1995 waste disposal capacity is 10,000 cubic yards (anticipated W-025 Trench capacity), (3) total FY 1996 waste capacity is 50,000 cubic yards (anticipated W-025A Trench capacity), (4) waste sites located within 1/4 mile of the river, (5) waste sites located outside controlled areas, (6) waste sites located within the path of the C Reactor removal ramp, (7) 100-BC, 100-HR, and 100-DR are the only areas remediation is occurring, and (8) operations will be an eight hour shift.

Waste sites to be remediated in FY 1997 through FY 2000: (1) ERDF is ready to accept waste starting in 10/96, (2) waste disposal capacity is unlimited, (3) waste sites located within 1/4 mile of the river, (4) waste sites located outside controlled areas, (5) waste sites located within the path of the C Reactor removal ramp, (6) high, medium, and lower risk waste sites, (7) 100-BC, 100-HR, and 100-DR are the only areas remediation is

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occurring, and (8) waste sites integrated with decontamination and decommissioning activities.

Impacts/Assumptions(Limit 42 lines or less):

IMPACTS: Completion of RAs by 2018 (TPA Milestone M-16-00) is in jeopardy: target case does not provide for remediation at all waste sites after IROD/ROD has been issued at source OUs. Source waste unit remediation choices will be reduced to a limited subset of all 100 Area source waste sites. SUBPROJECT SPECIFIC ASSUMPTIONS: (1) all existing TPA milestones defined for 100-BC-1, BC-2, and BC-5 will be completed, (2) remediation will be initiated starting in FY 1995 at selected waste sites, (3) 100-BC source remediation will be emphasized over the next five years, (4) field characterization work is completed for the 100-BC Area on both high and low priority sites, (5) biannual monitoring will continue at 100-BC-5 OU until a preferred alternative is reached, (6) preferred alternative for 100-BC-5 is assumed to be institutional control and monitoring but no RAs are to be taken, (7) Riverland ERA is complete and a 'no further action' ROD will be received from regulators, (8) 118-B-1 TT will be initiated in 9/94 and completed in 11/94, (9) costs for the 118-B-1 TT is based on the F Area Excavation Treatability Study, (10) wastes will either be stored on site or placed back into the ground. Costs for waste disposal haven't been included in budget, (11) NEPA values will be integrated into CERCLA documentation, (12) TTs are per 100 Area Treatability Program Plan and agreements made with regulators, and (13) TTs are planned and funded in the 100-HR Subproject, 100 Area Treatability Accounts, ADS 3120. OVERALL PLANNING ASSUMPTIONS: (1) HRA-EIS will provide resolution of issues concerning future land use of Hanford Site, such that ER work can proceed without impacts, (2) ERC will not have an impact on assessment and RAs, (3) no cost or schedule impacts will result from implementation of NRDA's, (4) current technologies will be available to support remediation needs, (5) infrastructure will be in place to support all activities, (6) all field activities will be conducted in accordance with existing Hanford practices and bargaining agreements, (7) a near-term disposal trench will be available in FY95 for limited ER Program wastes. There will be no waste disposal costs levied against the ER Program, (8) ERDF will be available to accept ER Program waste at the start of FY97, (9) characterization activities are per the HSPPS, (10) all FY95 and outyear M-13-00 Milestones will be waived per program optimization to implement remediation, all other 1/25/94 revised TPA milestones will be met, (11) funding will be available at the beginning of each FY to support work activities, (12) procurement and subcontracting activities will not impact execution of this plan, (13) ROD for each OU will establish deliverables/milestones for defined remediation activities, remediation activities will be determined by resources available, and (14) written direction will be received from RL to initiate RD/RA activities prior to receipt of ROD.

Supporting Documents(Limit 5 lines or less):

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TPA, CERCLA, RCRA, NEPA, and DOE Orders 4700.1 and 5700.2D

Performance Measures (Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the Environmental Restoration Program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

DESCRIPTION OF REGULATORY DRIVERS Continued

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DESCRIPTION OF REGULATORY DRIVERS Continued

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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Operations Office: RL ID No.: 3110- 0 Revision Date: 4/22/1994  
 ADS Title: 100 KR CHAR., ASSESS. AND REMEDIAL ACTION  
 WBS No.: 1.4.10.1.1.6 Category: ER Appr.: D  
 Project Title: 100 KR Facility/WAG: K REACTOR AREA  
 Installation: HANFORD-100 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 1439324 TEC: 1439324  
 Contig: 428531  
 CNTR Manager: PATTERSON, JK Phone: 509-376-0902  
 O.O. Manager: GOLLER, ED Phone: 509-376-7326  
 H.Q. Manager: BALONE, S Phone: 301-903-7607  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			IMM RISK
					DECREMENT	TARGET	PLAN	
OE	1,162	1,708		A	229	229	229	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	1,162	1,708		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	229	229	229	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DEGR LEVEL
OE	229
CE	0
GPP	0
LI	0
TOTAL	229

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	229	234	239	245	250
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>229</b>	<b>234</b>	<b>239</b>	<b>245</b>	<b>250</b>

  

FTEs	FY94	FY95
Direct	6	9
Indirect	5	8
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	1	1	1	1	1
Indirect	1	1	1	1	1
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	229	234	239	245	250
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>229</b>	<b>234</b>	<b>239</b>	<b>245</b>	<b>250</b>

  

FTEs	FY94	FY95
Direct	6	9
Indirect	5	8
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	1	1	1	1	1
Indirect	1	1	1	1	1
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 100-KR CHARACTERIZATION AND ASSE									
APPROP: D									
B&R	FY94 APPR	FY95 PRES	FY95 APPR						
				A	0	0	0	0	0
				B	0	0	0	0	0
				C	0	0	0	0	0
				D	0	0	0	0	0
EW2010301	1,162	1,708		E	0	0	0	0	0
35EW20100	0	0		F	0	0	0	0	0
39EW20100	0	0		G	0	0	0	0	0
39EW20100	0	0		H	0	0	0	0	0
				I	0	0	0	0	0
<b>TOTAL</b>	<b>1,162</b>	<b>1,708</b>		<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

				FY96 DRIVER CATEGORY			
				DECREMENT	TARGET	PLAN	IMM RISK
DESC: RCRA/CERCLA							
SUB-DESC: C PROGRAM: EM SUBACT: AB							
TITLE: 100-KR REMEDIAL ACTION							
APPROP: D				A	229	229	229
				B	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
				D	0	0	0
EW2010302	0	0		E	0	0	0
35EW20100	0	0		F	0	0	0
39EW20100	0	0		G	0	0	0
39EW20100	0	0		H	0	0	0
				I	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>		<b>TOTAL</b>	<b>229</b>	<b>229</b>	<b>229</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	229
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>229</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	229	234	239	245	250
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>229</b>	<b>234</b>	<b>239</b>	<b>245</b>	<b>250</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	229	234	239	245	250
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>229</b>	<b>234</b>	<b>239</b>	<b>245</b>	<b>250</b>

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**A106 Cross References**

A106 Number: RA-019	Date: 6/23/92
Title: ER-100-KR-4 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-025	Date: 6/23/92
Title: ER-100-KR-2 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-063	Date: 6/23/92
Title: ER 100-KR-3 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:	Date:
Title:	

**FY95-99 ADS Cross References**

ADS #: RL 3110 0  
Title: 100 KR CHAR. ASSESS. AND RA  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.:	Milestone Seq: 3110-00-0005	TPA MS NO.: M-15-10A		
Title: M-15-10A SUBMIT 100-KR-1 VALIDATED DATA TO EPA/ECOLOGY				
Planning Date	Target Date	Decrement Date	Level: HQ	Keyword: ROD
10/31/1993	10/31/1993	10/31/1993	PTS: Y	SMS: Y
Driver Name: TRI	Driver Reference: TPA			
PRESENT IN	Tiger Team: N	Program Execution Guidance: N		
	Roadmap: N	Current Year Workplan: Y	Safety and Health: N	
Description: TPA change control approval/compliance date 1/21/93.				

MILESTONES Continued

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Milestone No.: Milestone Seq: 3110-00-0060 TPA MS NO.: M-15-11B  
Title: M-15-11B SUBMIT 100-KR-4 LFI REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
1/12/1994 1/12/1994 1/12/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3110-00-0010 TPA MS NO.: M-15-10B  
Title: M-15-10B SUBMIT 100-KR-1 LFI REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
8/31/1994 8/31/1994 8/31/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3110-00-0050 TPA MS NO.: M-15-11C  
Title: M-15-11C SUBMIT 100-KR-4 FFS REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
10/31/1994 10/31/1994 10/31/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3110-00-0065 TPA MS NO.: M-15-11D  
Title: M-15-11D SUBMIT 100-KR-4 IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
10/31/1994 10/31/1994 10/31/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
TPA change control approval/compliance 1/21/93.

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Milestone No.: Milestone Seq: 3110-00-0020 TPA MS NO.: M-15-10C  
Title: M-15-10C SUBMIT 100-KR-1 FFS REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
4/30/1995 4/30/1995 4/30/1995 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3110-00-0015 TPA MS NO.: F-15  
Title: SUMBIT 100-KR-2 FFS REPORT & IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: CNTR Keyword: ROD  
2/28/1996 2/28/1996 2/28/1996 PTS: N SMS: N  
Driver Name: TRI Driver Reference: N/A  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:43:13

Technical Scope Summary(Limit 15 line or less):

This activity data sheet (ADS) is for the remedial investigation (RI)/feasibility study (FS) and remedial actions (RAs) for the 100-KR Area Operable Units (OUs). The 100-KR Area contains three source OUs: 100-KR-1, 100-KR-2, 100-KR-3, and a groundwater OU 100-KR-4. The 100-KR OUs will be assessed and remediated under CERCLA. The technical scope includes management, planning, investigation, alternatives selection, and documentation required to reach a interim record of decision (IROD)/record of decision (ROD) for these OUs. It also includes management, planning, documentation, and implementation of RAs. Additionally, remedial design (RD) and actions are also covered in this ADS.

Technical Scope Detail(Limit 104 lines or less):

The 100-KR Area is located in the northern portion of the Hanford Site. The OUs received predominately liquid wastes resulting from K Reactor Area operations. These OUs contain 41 identified individual waste management units. These waste units received several types of liquid effluent, decontamination waste streams, and miscellaneous liquid and solid wastes.

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Liquid waste discharge to 100-KR Area OUs totals approximately 80 billion gallons. Solid wastes total approximately 13,000 cubic yards.

The OUs of these types are the main source of groundwater contamination in and around the 100 Aggregate Area. Primary contaminants of concern in the groundwater are chromium, sodium dichromate, strontium-90, and tritium. The reactor liquid effluent OU 100-KR-1 is a high priority unit in the 100 Aggregate Area because these sites contain radioactive and/or hazardous substances. The groundwater OUs are also high priority because they represent the groundwater contamination reaching the Columbia River.

Assessment and characterization activities covered by this ADS include efforts to describe the hydrologic and geologic settings, and the characteristics, contents, and extent of contamination on and beneath the 100-KR Area. Upon approval of the work scope from the regulators, sampling and analysis will occur on and beneath the OUs including the surface and vadose zone. Non-intrusive investigations that are common to the 100 Aggregate Area will be covered in ADS 3120. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, RA alternatives will be analyzed and studied, and a proposed plan will be submitted for public review approval and issuance of an IROD/ROD by the regulators.

Prior to a final ROD, IRODs may occur. These IRODs will expedite the cleanup process where areas of contamination are known. Initial limited field investigations (LFIs) will be conducted to determine contamination levels but not the extent. Remediation alternatives will be selected through treatability tests, qualitative risk assessments (QRAs), and finally a focused FS (FFS). Upon receipt of an IROD/ROD, the interim remedial measure (IRM)/RA will be initiated within 15 months.

The RAs will proceed at the conclusion of the RI/FS on the 100-KR Area OUs and upon the approval and issuance of the IROD/ROD by the regulatory agencies. The RAs are divided into three main phases: (1) RA design, (2) RA procurement/construction, and (3) RA post monitoring except in the case of clean closure. The first 15 months of RA are currently assumed to be design and procurement related activities. All identified waste management units will be subject to the RA process. There are no expedited response actions (ERAs) currently planned in the 100-KR Area.

Act. Comp. to Date/Current Year (FY 1994) Desc. (Limit 52 lines or less):

100-KR-1 activities to date: 100-KR-1 OU Work Plan was approved by the regulators 8/28/92. All data compilation, topographic mapping, and non-intrusive/intrusive activities have been completed. A total of four boreholes have been drilled and four test pits completed. Samples have been analyzed for contaminants of concern, and returned from the laboratories. Data is verified, validated, and evaluated; validated data was issued to the regulators on 10/30/93, meeting TPA Milestone M-15-10A.

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Field characterization activities have been completed ahead of schedule. Issued the 100-KR-1 LFI report 2/28/94 to the regulators, meeting TPA Milestone M-15-10B six months early.

100-KR-4 groundwater activities to date: 100-KR-4 OU Work Plan was approved by the regulators 10/23/92. Data compilation and geologic investigations have been completed. Seven groundwater wells have been drilled, screen installed, and five rounds of water samples taken. Sample packages have been returned, data verified, validated, and issued to the regulators on 3/15/93, meeting TPA Milestone M-15-11A. QRA and LFI reports have been prepared and issued to the regulators.

Current Year (FY94) Description: The FY 1994 activities for the 100-KR Area include the following: (1) prepare the 100-KR-1 FFS report and IRM Proposed Plan for issuance to the regulators in early FY95, (2) issued 100-KR-4 LFI report to the regulators 2/28/94, meeting TPA Milestone M-15-11B, (3) begin preparation of the 100-KR-4 FFS report and an IRM Proposed Plan, (4) continue biannual groundwater sampling activities for 100-KR-4 OU, (5) a proposal is being prepared to consolidate the 100-KR-3 OU into the 100-KR-2 OU and prepare a work plan and issue to the regulators. This proposal has not been approved to date, and (6) complete 100-KR-2 non-intrusive and intrusive field investigations, and initiate data evaluation if the consolidation proposal is approved.

Budget Year (FY 1995) Description(Limit 52 lines or less):

Complete preparation and issue the 100-KR-1 OU FFS report and IRM Proposed Plan to the regulators six months early 10/31/94, meeting TPA Milestone M-15-10C, and complete review in support of reaching an IROD/ROD. [\$221.0K]

Complete preparation and issue the 100-KR-4 OU FFS report and IRM Proposed Plan to the regulators 10/31/94, meeting TPA Milestone M-15-11C/ M-15-11D, and complete reviews in support of reaching an IROD/ROD. [\$221.0K]

Continue biannual sampling activities of 22 wells in the 100-KR-4 groundwater OU. [\$204.4K]

100-KR-2 OU Assessment activities are as follows:

Conduct source data compilation for the 100-KR-2 OU. [\$28.2K]

Conduct topographic mapping for the 100-KR-2 OU. [\$14.9K]

Conduct surface geophysics in the 100-KR-2 OU. [\$34.4K]

Conduct soil sampling activities in the 100-KR-2 OU. [\$46.5K]

Excavate test pits for sample analysis in the 100-KR-2 OU. [\$49.6K]

~~NARRATIVE Continued~~

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Conduct analysis and data validation for test pit samples in the 100-KR-2 OU. [\$71.9K]

Conduct data evaluation of validated sample data in the 100-KR-2 OU. [\$34.5K]

Complete preparation and issue the 100-KR-2 OU LFI report to the regulators, and complete review. [\$509.7K]

Complete preparation and issue the 100-KR-2 OU FFS to the regulators. [\$248.6K]

Complete preparation and issue the 100-KR-2 OU IRM Proposed Plan to the regulators. [\$23.5K]

There are no plans to initiate RAs in the 100-KR Subproject in FY95.

Planning Year (FY 1996) Description(Limit 156 lines or less):

There are no impacts to the 100-KR Subproject in the decrement case.

Decrement/Target:

Continue biannual sampling activities of 22 wells in the 100-KR-4 Groundwater OU. [\$229.1K]

There are no remediation activities planned for 100-KR-1, 100-KR-2, and 100-KR-4 in FY 1996.

Planning: There are no differences between the planning and target case.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

The outyear activities for the 100-KR Area include: (1) reach an IROD/ROD for the 100-KR-2 OU, (2) there are no remedial activities planned for 100-KR-1, 100-KR-4 in the outyears, (3) continue biannual sampling activities in the 100-KR-4 groundwater OU.

Impacts/Assumptions(Limit 42 lines or less):

IMPACTS: Completion of RAs by 2018 (TPA Milestone M-16-00) is in jeopardy; the target case does not provide for remediation at waste sites after the IROD/ROD has been issued at source OUs; source waste unit remediation choices will be reduced to a limited subset of all 100 Area source waste sites. An IRM is being recommended for 100-KR-4 groundwater. Based on the target case no remediation for 100-KR-4 is being planned once the ROD has been reached.

SUBPROJECT SPECIFIC ASSUMPTIONS: (1) All existing TPA Milestones defined for 100-KR-1, 100-KR-4 will be completed, (2) remediation will NOT be

~~NARRATIVE Continued~~

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initiated 15 months after an IROD/ROD is issued, (3) field characterization work will be considered complete for the 100-KR Area on both high and low priority sites by the end of FY 1994, (4) biannual monitoring will continue at 100-KR-4 OU, (5) NEPA/CERCLA will be integrated into the FFS and proposed plan, (6) treatability tests are per 100 Area Treatability Program Plan and agreements made with the regulators, and (7) treatability tests are planned and funded in the 100-HR Subproject, 100 Area Treatability Accounts, ADS 3120.

OVERALL PLANNING ASSUMPTIONS: (1) the HRA-EIS will provide resolution of issues concerning future land use of the Hanford Site, such that ER work can proceed without impacts, (2) the ERC will not have an impact on assessment and RAs, (3) no cost or schedule impacts will result from implementation of Natural Resource Damage Assessments, (4) current technologies will be available to support remediation needs, (5) infrastructure will be in place to support all activities, (6) all field activities will be conducted in accordance with existing Hanford practices and bargaining agreements, (7) a near-term disposal trench will be available in FY 1995 for limited ER Program wastes. There will be no waste disposal costs levied against the ER Program, (8) the ERDF will be available to accept ER Program waste at the start of FY 1997, (9) characterization activities are per the Hanford Site Past-Practice Strategy, (10) all FY 1995 and outyear M-13-00 Milestones will be waived per program optimization to implement remediation, all other 1/25/94 revised TPA milestones will be met, (11) funding will be available at the beginning of each FY to support work activities, (12) procurement and subcontracting activities will not impact execution of this plan, (13) the ROD for each OU will establish deliverables and milestones for the defined remediation activities, remediation activities will be determined by resources available, and (14) written direction will be received from RL to initiate RD/RA activities prior to receipt of the ROD.

Supporting Documents(Limit 5 lines or less):

TPA, CERCLA, RCRA, NEPA, and DOE Orders 4700.1 and 5700.2D

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

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DESCRIPTION OF REGULATORY DRIVERS Continued

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the Environmental Restoration Program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

DESCRIPTION OF REGULATORY DRIVERS Continued

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DESCRIPTION OF REGULATORY DRIVERS Continued

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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DESCRIPTION OF REGULATORY DRIVERS CONTINUED

NOTE: All subject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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Operations Office: RL ID No.: 3115- 0 Revision Date: 4/22/1994  
 ADS Title: 100 FR CHAR., ASSESS. AND REMEDIAL ACTION  
 WBS No.: 1.4.10.1.1.7 Category: ER Appr.: D  
 Project Title: 100 FR Facility/WAG: F REACTOR AREA  
 Installation: HANFORD-100 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 334919 TEC: 334919  
 Contig: 92202  
 CNTR Manager: PATTERSON, JK Phone: 509-376-0902  
 O.O. Manager: GOLLER, ED Phone: 509-376-7326  
 H.Q. Manager: BALONE, S Phone: 301-903-7607  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU:MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR	DECREMENT	FY96 DRIVER CATEGORY			IMM RISK
					TARGET	PLAN		
OE	4,401	1,741		A 229	229	229	0	
CE	0	0		B 0	0	0	0	
GPP	0	0		C 0	0	0	0	
LI	0	0		D 0	0	0	0	
				E 0	0	0	0	
TOTAL	4,401	1,741		F 0	0	0	0	
				G 0	0	0	0	
				H 0	0	0	0	
				I 0	0	0	0	
				TOTAL	229	229	229	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	229
CE	0
GPP	0
LI	0
TOTAL	229

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	229	234	239	245	250
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>229</b>	<b>234</b>	<b>239</b>	<b>245</b>	<b>250</b>

FTEs	FY94	FY95
Direct	12	11
Indirect	10	9
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	1	1	1	1	1
Indirect	1	1	1	1	1
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	229	234	239	245	250
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>229</b>	<b>234</b>	<b>239</b>	<b>245</b>	<b>250</b>

FTEs	FY94	FY95
Direct	12	11
Indirect	10	9
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	1	1	1	1	1
Indirect	1	1	1	1	1
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY				
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM	RISK
TITLE: 100-FR CHARACTERIZATION AND ASSE										
APPROP: D										
B&R	FY94	APPR	FY95	PRES	FY95	APPR	A	B	C	D
EW2010301	3,404		1,741				0	0	0	0
35EW20100	0		0				0	0	0	0
39EW20100	0		0				0	0	0	0
39EW20100	0		0				0	0	0	0
<b>TOTAL</b>	<b>3,404</b>		<b>1,741</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: C PROGRAM: EM SUBACT: AB						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 100-FR REMEDIAL ACTION									
APPROP: D									
B&R	FY94 APPR	FY95 PRES	FY95 APPR						
				A		229	229	229	0
				B		0	0	0	0
				C		0	0	0	0
				D		0	0	0	0
				E		0	0	0	0
				F		0	0	0	0
				G		0	0	0	0
				H		0	0	0	0
				I		0	0	0	0
<b>TOTAL</b>	<b>997</b>	<b>0</b>		<b>TOTAL</b>		<b>229</b>	<b>229</b>	<b>229</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	229
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>229</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	229	234	239	245	250
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>229</b>	<b>234</b>	<b>239</b>	<b>245</b>	<b>250</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	229	234	239	245	250
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>229</b>	<b>234</b>	<b>239</b>	<b>245</b>	<b>250</b>

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**A106 Cross References**

A106 Number: RA-020	Date: 6/23/92
Title: ER-100-FR-1 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-060	Date: 6/23/92
Title: ER 100-FR-2 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-061	Date: 6/23/92
Title: ER 100-IU-3 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-062	Date: 6/23/92
Title: ER 100-FR-3 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:	Date:
Title:	

**FY95-99 ADS Cross References**

ADS #: RL 3115 0  
Title: 100 FR CHAR. ASSESS. AND RA  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

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MILESTONES

Milestone No.: Milestone Seq: 3115-00-0025 TPA MS NO.: M-15-13A  
Title: M-15-13A SUBMIT 100-FR-1 VALIDATED DATA TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
11/30/1993 11/30/1993 11/30/1993 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3115-00-0035 TPA MS NO.: M-15-14B  
Title: M-15-13F SUBMIT 100-FR-3 LFI REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
4/14/1994 4/14/1994 4/14/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3115-00-0050 TPA MS NO.: M-15-13B  
Title: M-15-13B SUBMIT 100-FR-1 LFI REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
9/30/1994 9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3115-00-0020 TPA MS NO.: M-16-82  
Title: M-16-82 COMP REMED & CERCLA ACTION ASSESSMENT RPT FOR NORTH SLOPE  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
10/31/1994 10/31/1994 10/31/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
M-16-82 COMPLETE REMEDIAITON & CERCLA ACTION ASSESSMENT REPORT FOR NORTH SLOPE

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MILESTONES Continued

Milestone No.: Milestone Seq: 3115-00-0040 TPA MS NO.: M-15-14C  
Title: M-15-13G SUBMIT 100-FR-3 FFS REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
12/14/1994 12/14/1994 12/14/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3115-00-0045 TPA MS NO.: M-15-14D  
Title: M-15-13H SUBMIT 100-FR-3 IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
12/14/1994 12/14/1994 12/14/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3115-00-0055 TPA MS NO.: M-15-13C  
Title: M-15-13C SUBMIT 100-FR-1 FFS REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
5/31/1995 5/31/1995 5/31/1995 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

MILESTONES Continued

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Milestone No.: Milestone Seq: 3115-00-0060 TPA MS NO.: M-15-13D  
Title: M-15-13D SUBMIT 100-FR-1 IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
5/31/1995 5/31/1995 5/31/1995 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:42:28

Technical Scope Summary(Limit 15 line or less):

This activity data sheet (ADS) is for the remedial investigation (RI)/feasibility study (FS) and remedial actions (RAs) for the 100-FR Area Operable Units (OUs). The 100-FR Area contains two source OUs, 100-FR-1 and 100-FR-2, and a groundwater, OU 100-FR-3. The 100-IU-3, a source OU, is also included in this ADS. The 100-FR and 100-IU-3 OUs will be assessed and remediated under CERCLA. The technical scope includes management, planning, investigation, alternatives selection, and documentation required to reach a record of decision (ROD)/interim record of decision (IROD) for these OUs. It also includes management, planning, documentation, and implementation of RAs. Additionally, remedial design (RD) and action are also covered in this ADS.

Technical Scope Detail(Limit 104 lines or less):

The 100-FR Area is located in the northern portion of the Hanford Site. The OUs received predominately liquid wastes resulting from F Reactor Area operations. These OUs contain 58 identified individual waste management units. These waste units received several types of liquid effluent, decontamination waste streams, and miscellaneous liquid and solid wastes. Liquid waste discharge to 100-FR Area OUs totals approximately 360 million gallons. Solid wastes total approximately 92,000 cubic yards. Preliminary waste quantities for 100-IU-3 OU are not known. The 100-IU-3 is listed as a 2,4-D Burial Landfill and an abandoned missile and antiaircraft site.

The OUs of these types are the main source of groundwater contamination in and around the 100 Aggregate Area. Primary contaminants of concern in the groundwater are chromium, sodium dichromate, strontium-90, and tritium. The reactor liquid effluent OU 100-FR-1 is a high priority unit in the 100 Aggregate Area because these sites contain released radioactive and/or hazardous substances. The groundwater OUs are also high priority because

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they represent the groundwater contamination reaching the Columbia River.

Assessment and characterization activities covered by this ADS include efforts to describe the hydrologic and geologic settings, and the characteristics, contents, and the extent of contamination on and beneath the 100-FR Area. Upon approval of the scope of work from the regulators, sampling and analysis will occur on and beneath the OUs including the surface and vadose zone. Non-intrusive investigations that are common to the 100 Aggregate Area will also be covered in ADS 3120. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, remediation action alternatives will be analyzed and studied, and a proposed plan will be submitted for public review, approval, and issuance of an IROD/ROD by the regulators.

Prior to a final ROD, IRODs may occur. These IRODs will expedite the cleanup process where areas of contamination are known. Initial limited field investigations (LFIs) will be conducted to determine the contamination levels but not the extent. Remediation alternatives will be selected through treatability tests, qualitative risk assessments (QRAs), and finally a focused FS (FFS). Upon receipt of an IROD/ROD, the interim remedial measures (IRM)/RA will be initiated within 15 months.

The RAs will proceed at the conclusion of the RI/FS on the 100-FR Area OUs and upon the approval and issuance of the IROD/ROD by the regulatory agencies. The RAs are divided into three main phases: (1) RA design, (2) RA procurement/construction, and (3) RA post monitoring except in the case of clean closure.

The first 15 months of RAs are currently assumed to be design related activities. All identified waste management units will be subjected to the RAs process.

Act. Comp. to Date/Current Year (FY 1994) Desc. (Limit 52 lines or less):

100-FR-1 activities to date: work plan was approved by the regulators on 9/1/92. All data compilation, topographic mapping, non-intrusive/intrusive activities have been completed. Six boreholes were drilled and five test pits were completed. Non-intrusive samples have been analyzed for contaminants of concern, samples returned from the laboratories, data verified, validated, evaluated, and issued to the regulators 9/30/93, satisfying TPA Milestone M-15-13A. Preparation of QRA and LFI reports have commenced incorporating the validated data.

100-FR-3 activities to date: work plan was approved by the regulators on 10/10/92. Data compilation geologic investigations have been completed. 13 groundwater wells have been drilled, screens installed, and four rounds of water samples taken. Samples have been analyzed at commercial laboratories for contaminants of concern and returned. Data has been verified, validated, evaluated, and issued to the regulators 6/15/93, meeting TPA

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Milestone M-15-13E.

North Slope ERA activities to date: The engineering evaluation/cost analysis (EE/CA) was issued for public review 4/93, implementation of the ERA was initiated. Issued a cultural resource review process report to State Historical Preservation Office for concurrence. Completed flora and fauna survey and Endangered Species Act coordination. Performed volunteer cleanup of one antiaircraft battery site, and removed five tons of debris over a 40 acre area. Completed field sampling of the North Slope waste sites.

The FY 1994 activities for the 100-FR Area include the following: (1) complete a QRA for 100-FR-1, (2) prepare and issue the 100-FR-1 LFI report to the regulators 9/30/94, supporting TPA Milestone M-15-13B, (3) initiate preparation of a FFS and IRM proposed plan, (4) complete a QRA for 100-FR-3, (5) prepare and issue the 100-FR-3 LFI report to the regulators 4/15/94, supporting TPA Milestone M-15-13F, (6) initiate 100-FR-3 preparation of a FFS and IRM proposed plan, (7) continue biannual sampling activities in the 100-FR-3 groundwater OU, (8) North Slope ERA remediation cleanup activities will be completed, (9) propose the consolidation of 100-FR-2 OU into 100-FR-1 OU, and (10) prepare and submit a change request to redesignate the 100-IU-2 Groundwater to 100-FR-3 Groundwater OU.

Budget Year (FY 1995) Description(Limit 52 lines or less):

Decrement/Target: There are no differences between the decrement and target case in FY95.

Complete preparation and issue the 100-FR-1 OU FFS report and IRM Proposed Plan to the regulators three months early 3/15/95, meeting TPA Milestones M-15-13C/M-15-13D, and complete reviews, in support of reaching an IROD/ROD. [\$234.8K]

Incorporate the 100-FR-2 OU LFI data into the 100-FR-1 LFI report. [\$169.6K]

Consolidate the 100-FR-2 OU Work Plan work scope into the 100-FR-1 Work Plan. [\$248.0K]

Install three groundwater wells west of the 100-FR Reactor Area to isolate a TCE plume potentially emanating from the 100-IU-2 OU. [\$308.6K]

Collect and analyze 12 samples from the three groundwater wells west of the 100-FR Reactor Area. [\$39.6K]

Incorporate the 100-FR-2 OU LFI data into the 100-FR-1 LFI report. [\$169.6K]

Prepare and issue the 100-FR-3 OU FFS report and IRM Proposed Plan to the  
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regulators 12/15/94, meeting TPA Milestones M-15-13G/M-15-13H, and complete review in support of an IROD/ROD. [\$303.8K]

Continue biannual sampling activities of 25 wells in the 100-FR-3 groundwater OU. [\$267.4K]

Complete North Slope ERA closeout documentation.

Planning Year (FY 1996) Description(Limit 156 lines or less):

There are no impacts to the 100-FR Subproject between the target and decrement case.

Continue biannual sampling activities of 22 wells in the 100-FR-3 groundwater OU. [\$229.1K]

There are no remediation activities planned for 100-FR-1 and 100-FR-3 OUs for FY 1996.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

The FY 1997 to FY 2000 activities for the 100-FR Area include: (1) there are no remediation activities planned for the 100-FR-1 and 100-FR-3 OUs outyears, (2) continue biannual sampling activities in the 100-FR-3 groundwater OU.

Impacts/Assumptions(Limit 42 lines or less):

IMPACTS: Completion of RAs by 2018 (TPA Milestone M-16-00) is in jeopardy; target case doesn't provide for remediation at only 100-DR waste sites after the IROD/ROD has been issued at source OUs. Source waste unit remediation choices will be reduced to a limited subset of all 100 Area source waste sites. SUBPROJECT SPECIFIC ASSUMPTIONS: (1) All existing TPA milestones defined for 100-FR-1, 100-FR-3 will be completed, (2) 100-FR-2 OU will be consolidated into 100-FR-1. All field characterization work for 100-FR-2 will be completed in FY 1994, (3) three additional wells will be drilled at 100-FR-3 OU to define the trichloroethylene plume emanating from the west of the FR Reactor Area, (4) remediation will NOT be initiated 15 months after an IROD/ROD is issued, (5) biannual monitoring will continue at 100-FR-3 OU until a preferred alternative is reached, (6) groundwater remediation for 100-FR-3 has not been defined nor budgeted per the outcome of Optimized Baseline Project discussions, (7) NEPA/CERCLA will be integrated into the FFS and proposed plan, (8) the North Slope remediation is complete per the Agreement in Principal, no additional resources have been planned, (9) treatability tests are per 100 Area Treatability Program Plan and agreements made with the regulators, and (10) treatability tests are planned and funded in the 100-HR Subproject, 100 Area Treatability Accounts, ADS 3120. OVERALL PLANNING ASSUMPTIONS: (1) the HRA-EIS will provide resolution of issues concerning future land use of the Hanford

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Site, such that ER work can proceed without impacts, (2) the ERC will not have an impact on assessment and RAs, (3) no cost or schedule impacts will result from implementation of NRDAs, (4) current technologies will be available to support remediation needs, (5) infrastructure will be in place to support all activities, (6) all field activities will be conducted in accordance with existing Hanford practices and bargaining agreements, (7) the ERDF will be available to accept ER Program waste at the start of FY 1997, (8) characterization activities are per the Hanford Site Past-Practice Strategy, (9) all FY 1995 and outyear M-13-00 Milestones will be waived per program optimization to implement remediation, all other 1/25/94 revised TPA milestones will be met, (10) funding will be available at the beginning of each fiscal year to support work activities, (11) procurement and subcontracting activities will not impact execution of this plan, (12) the ROD for each OU will establish deliverables and milestones for the defined remediation activities, remediation activities will be determined by resources available, and (13) written direction will be received from RL to initiate RD/RA activities prior to receipt of the ROD.

Supporting Documents(Limit 5 lines or less):

TPA, CERCLA, RCRA, NEPA, and DOE Orders 4700.1 and 5700.2D.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

~~DESCRIPTION OF REGULATORY DRIVERS~~

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

~~DESCRIPTION OF REGULATORY DRIVERS Continued~~

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DESCRIPTION OF REGULATORY DRIVERS Continued

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the Environmental Restoration Program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

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RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

DESCRIPTION OF REGULATORY DRIVERS Continued

DOE  
Various DOE Orders to provide and/or implement best management practices  
for policy and guidance to execute the Environmental Restoration Program  
The project scope, cost, and schedule are a direct result of complying to  
these various orders.

NEPA E:  
Affected Scope/Order/Schedule: Application of NEPA to the subproject  
activities is to ensure that potential impacts of assessment and cleanup  
activities are assessed.

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RMA:  
RMA provides Ecology enforcement authority for those units containing  
treatment storage and disposal under RMA Section 301(a)

TVA:  
All subject activities are affected by the TVA, an agreement and  
schedule between DOE, EPA, and Ecology for the cleanup of the past  
practice waste sites at Hanford.

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Operations Office: RL ID No.: 3120- 0 Revision Date: 4/22/1994  
 ADS Title: 100 HR CHAR., ASSESS. AND REMEDIAL ACTION  
 WBS No.: 1.4.10.1.1.8 Category: ER Appr.: D  
 Project Title: 100 HR Facility/WAG: H REACTOR AREA  
 Installation: HANFORD-100 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 854282 TEC: 854282  
 Contig: 110780  
 CNTR Manager: PATTERSON, JK Phone: 509-376-0902  
 O.O. Manager: GOLLER, ED Phone: 509-376-7326  
 H.Q. Manager: BALONE, S Phone: 301-903-7607  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR	DECREMENT	FY96 DRIVER CATEGORY		IMM RISK
					TARGET	PLAN	
OE	17,464	13,033	A	9,807	9,807	9,802	0
CE	0	0	B	0	0	0	0
GPP	0	0	C	0	0	0	0
LI	0	0	D	0	0	0	0
			E	0	0	0	0
TOTAL	17,464	13,033	F	0	0	0	0
			G	0	0	0	0
			H	0	0	0	0
			I	0	0	0	0
			TOTAL	9,807	9,807	9,802	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	9,807
CE	0
GPP	0
LI	0
TOTAL	9,807

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TARGET LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	9,807	11,354	4,885	8,503	3,504
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>9,807</b>	<b>11,354</b>	<b>4,885</b>	<b>8,503</b>	<b>3,504</b>

  

FTEs	FY94	FY95
Direct	102	66
Indirect	85	55
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	52	56	26	44	13
Indirect	44	47	22	37	11
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	9,802	13,869	5,806	4,992	1,843
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>9,802</b>	<b>13,869</b>	<b>5,806</b>	<b>4,992</b>	<b>1,843</b>

  

FTEs	FY94	FY95
Direct	102	66
Indirect	85	55
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	57	61	30	26	11
Indirect	48	51	25	22	9
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY				
SUB-DESC: A PROGRAM: EM SUBACT: AA				DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: 100-HR CHARACTERIZATION AND ASSE								
APPROP: D								
				A	3,123	3,123	3,123	0
				B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0	0
				D	0	0	0	0
EW2010301	17,414	11,565		E	0	0	0	0
35EW20100	0	0		F	0	0	0	0
39EW20100	0	0		G	0	0	0	0
39EW20100	0	0		H	0	0	0	0
				I	0	0	0	0
<b>TOTAL</b>	<b>17,414</b>	<b>11,565</b>		<b>TOTAL</b>	<b>3,123</b>	<b>3,123</b>	<b>3,123</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	3,123
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>3,123</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	3,123	1,418	1,449	1,481	1,514
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>3,123</b>	<b>1,418</b>	<b>1,449</b>	<b>1,481</b>	<b>1,514</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	3,123	1,418	1,449	1,481	1,514
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>3,123</b>	<b>1,418</b>	<b>1,449</b>	<b>1,481</b>	<b>1,514</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER		CATEGORY	
SUB-DESC: C PROGRAM: EM SUBACT: AB				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 100-HR REMEDIAL ACTION							
APPROP: D							
			A	6,684	6,684	6,679	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
			D	0	0	0	0
EW2010302	50	1,468	E	0	0	0	0
35EW20100	0	0	F	0	0	0	0
39EW20100	0	0	G	0	0	0	0
39EW20100	0	0	H	0	0	0	0
			I	0	0	0	0
<b>TOTAL</b>	<b>50</b>	<b>1,468</b>		<b>6,684</b>	<b>6,684</b>	<b>6,679</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	6,684
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>6,684</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	6,684	9,936	3,436	7,022	1,990
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>6,684</b>	<b>9,936</b>	<b>3,436</b>	<b>7,022</b>	<b>1,990</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	6,679	12,451	4,357	3,511	329
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>6,679</b>	<b>12,451</b>	<b>4,357</b>	<b>3,511</b>	<b>329</b>

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**AL06 Cross References**

AL06 Number: RA-026	Date: 6/23/92
Title: ER-100-HR-1 RFI/CMS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
AL06 Number: RA-027	Date: 6/23/92
Title: ER-100-HR-3 RFI/CMS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
AL06 Number: RA-059	Date: 6/23/92
Title: ER-100-HR-2 RFI/CMS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:	Date:
Title:	

**FY95-99 ADS Cross References**

ADS #: RL 3120 0  
Title: 100 HR CHAR. ASSESS. AND RA  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.:	Milestone Seq: 3120-00-0020	TPA MS NO.: M-15-06A		
Title: M-15-06A SUBMIT 100-HR-3 LFI REPORT TO EPA/ECOLOGY				
Planning Date	Target Date	Decrement Date	Level: HQ	Keyword: ROD
10/31/1993	10/31/1993	10/31/1993	PTS: Y	SMS: Y
Driver Name: TRI	Driver Reference: TPA			
PRESENT IN	Tiger Team: N	Program Execution Guidance: N		
	Roadmap: N	Current Year Workplan: Y	Safety and Health: N	
Description:				
TPA change control approval/compliance date 1/21/93.				

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Milestone No.: Milestone Seq: 3120-00-0010 TPA MS NO.: M-15-05Y  
Title: M-15-05B SUBMIT 100-HR-1 TREATABILITY STUDY REPORT  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
11/30/1993 11/30/1993 11/30/1993 PTS: N SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3120-00-0025 TPA MS NO.: M-15-06B  
Title: M-15-06B COMPLETE 100-HR-3 TREATABILITY STUDY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
11/30/1993 11/30/1993 11/30/1993 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3120-00-0045 TPA MS NO.: M-15-06E  
Title: M-15-06E BEGIN PILOT SCALE PUMP & TREAT OPERATIONS FOR 100-HR-3  
Planning Date Target Date Decrement Date Level: HQ Keyword: FW  
8/31/1994 8/31/1994 8/31/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA 2/1/94  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:

Milestone No.: Milestone Seq: 3120-00-0015 TPA MS NO.: M-15-05D  
Title: M-15-05D SUBMIT 100-HR-1 IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
9/30/1994 9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

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Milestone No.: Milestone Seq: 3120-00-0030 TPA MS NO.: M-15-06D  
Title: M-15-06D SUBMIT 100-HR-3 IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
9/30/1994 9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3120-00-0085 TPA MS NO.: M-15-05C  
Title: M-15-05C SUBMIT 100-HR-1 FFS REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
9/30/1994 9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

Milestone No.: Milestone Seq: 3120-00-0105 TPA MS NO.: M-15-06C  
Title: M-15-06C SUBMIT 100-HR-3 FFS REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
9/30/1994 9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change control approval/compliance date 1/21/93.

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Milestone No.: Milestone Seq: 3120-00-0095 TPA MS NO.: F-15  
Title: SUBMIT 100-HR-2 FFS REPORT & IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
12/21/1994 12/21/1994 12/21/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:41:40

Technical Scope Summary(Limit 15 line or less):

This ADS is for RFI/CMS and remedial actions (RAs) for 100-HR Area Operable Units (OUs). 100-HR Area contains five source OUs: 100-HR-1, HR-2, IU-2, IU-4, and IU-5 OUs and one groundwater (GW) OU, 100-HR-3. 100-HR OUs will be assessed and remediated under RCRA 3004(u). 100-IU-2, 100-IU-4, and 100-IU-5 which are part of the ADS will be assessed and remediated under RI/FS per CERCLA guidance. The technical scope includes management, planning, investigation, alternatives selection, and documentation required to reach a record of decision (ROD)/interim record of decision (IROD) for these OUs. It also includes management, planning, documentation and implementation of RAs. This ADS also contains the activities for 100 Area wide characterization and treatability activities. These activities include all non-intrusive investigations that are not unique to a OU or reactor area. Remedial design (RD) and RAs are also covered in this ADS. Columbia River Studies are no longer in this ADS; they are now in ADS 3400.

Technical Scope Detail(Limit 104 lines or less):

The 100-HR Area is located in the northern portion of the Hanford Site. The OUs received predominately liquid wastes resulting from H Reactor Area operations. These OUs contain 32 identified individual waste management units, one of which is a treatment, storage, and disposal (TSD) unit (116-H-6 or the 183-H Solar Retention Basins). This TSD is currently planned to undergo closure activities in parallel with the RFI/CMS process. These waste units received several types of liquid effluent, decontamination waste streams, including reactor coolant, ruptured fuel storage, liquid effluent, and miscellaneous liquid and solid wastes. Liquid waste discharge to 100-HR Area OUs totals approximately 182 million gallons. Solid wastes total approximately 108,000 cubic yards. 100-IU-2, 100-IU-4, and 100-IU-5 OUs are landfills, a Sodium Dichromate Burial Ground, Pickling Acid Crib White Bluffs land fill and are located closer to the 100-HR Area

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than any other reactor area; therefore, these three OUs were grouped into the 100-HR ADS. OUs 100-IU-4 (Sodium Dichromate), 100-IU-5 (Pickling Acid Cribs) are being closed out by expedited response action (ERA).

The OUs of these types are the main source of groundwater contamination in and around the 100 Aggregate Area. Primary contaminants of concern in the GW are chromium, sodium dichromate, strontium-90, and tritium. The reactor liquid effluent OU, 100-HR-1, is a high priority unit in the 100 Aggregate Area because of released radioactive and/or hazardous substances to the environment. The GW OUs are also high priority because they represent GW contamination reaching the Columbia River.

Assessment and characterization activities covered by this ADS include efforts to describe the hydrologic and geologic settings, and the characteristics, contents, and the extent of contamination on and beneath the 100-HR Area. Upon approval of the work scope from the regulators, sampling and analysis will occur on and beneath the OUs including the surface and vadose zones. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, RA alternatives will be analyzed and studied, and a proposed plan will be submitted for public review, approval, and issuance of a IROD/ROD by the regulators.

Also the activities for the 100 Area wide characterization are covered under the 100-HR Subproject. Activities include 100 Area wide ecological and cultural resource investigation not specific to a reactor area.

Prior to a final ROD, IRODs may occur. These IRODs will expedite the cleanup process where areas of contamination are known. Initial Limited Field Investigations (LFIs) will be conducted to determine the contamination level but not the extent. Remediation alternatives will be selected through treatability tests, qualitative risk assessments (QRAs), and finally a focused FS (FFS). Upon receipt of an IROD/ROD, the IRM/RA will be initiated within 15 months. The RAs will proceed at the conclusion of the RFI/CMS on the 100-HR Area OUs, RI/FSs on the 100-IU, and upon the issuance and approval of the OU IROD/ROD by the regulatory agencies. The RAs are divided into three main phases: (1) RAs design, (2) RAs procurement/construction, and (3) RAs post monitoring except in the case of clean closure. The first 15 months of RAs is currently assumed to be design related activities. All identified waste management units will be subjected to the RAs process.

Act. Comp. to Date/Current Year (FY 1994) Desc. (Limit 52 lines or less):

100-HR-1 activities to date: work plans (WKS) were approved by regulators on 10/23/92. All data compilation, topographic mapping, and non-intrusive activities have been completed. Total of 5 boreholes have been drilled. Samples have been analyzed for contaminants of concern. Sample packages have been returned and evaluated. Data was incorporated into the QRA/LFI

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report and issued to the regulators 8/9/93, meeting TPA Milestone M-15-05A. Completed 100 Area Excavation TT field activities, meeting TPA Milestone M-15-05B. Preparation of the 100 Area Excavation Treatability Study report was initiated. 100-HR-2 OU WP was issued to the regulators on 6/30/93, meeting TPA Milestone M-13-03. Field investigations have been completed, and a QRA/LFI reports initiated. Regulators approved 100-HR-3 WP on 10/23/92. Data compilation and geologic investigations have been completed. 22 GW monitoring wells have been drilled, screens installed, and 5 rounds of water samples were taken. Sample packages have been returned, data has been verified, validated, and are currently being evaluated. Data from the first 4 rounds were input into the QRA/LFI reports. 100-HR-3 LFI report was issued to regulators 10/31/93 meeting TPA Milestone M-15-06A. FFS report has been initiated. Conducted a bench-scale biodenitrification chemical precipitation TT for 100-HR-3 meeting, TPA Milestone M-15-06B. A TT report has been drafted and issued to DOE for review. The following 100 Area Wide common milestones have been met: M-29-01,-02,-03, M-30-01,-02,-03,-04,-05. Sodium Dichromate ERA activities to date: An EE/CA has been issued for public review and comment. Removal of 5,000 sodium dichromate drums are complete. The draft 'no further action' proposed plan is complete and undergoing review. White Bluffs Pickling Acid Cribs ERA activities to date: A project plan was issued and the initial phase of characterization completed. A RA risk assessment report has been initiated to support a 'no further action' decision. CURRENT YEAR (FY 94) DESCRIPTION: FY94 activities for the 100-HR Area include the following: (1) completed the 116-F-4 Excavation TT at the 100-FR Reactor Area. Removed approx. 500 yd<sup>3</sup> of contaminated soils, TPA Milestone M-15-05B. Issue 100-Area TT Study report on the results of the 116-F-4 excavation to the regulators 5/31/94; (2) issue the 100-HR-1 OU FFS report to the regulators, satisfying TPA Milestone M-15-05C; (3) issue the 100-HR-1 OU IRM Proposed Plan to the regulators, 9/30/94, satisfying TPA Milestone M-15-5D; (4) initiate the 100-HR-2 QRA/LFI report for issuance to the regulators 9/15/94; (5) initiate a 100-HR-2 FFS and IRM Proposed Plan; (6) issue a 100-HR-3 FFS report to the regulators 9/30/94, TPA Milestone M-15-06C; (7) issue a 100-HR-3 IRM Proposed Plan to the regulators 9/30/94 TPA Milestone M-15-06D; (8) begin pilot-scale pump and treat operations 8/94 at 100-HR-3 OU, scope of test based on results of the laboratory/bench-scale tests currently being conducted, TPA Milestone M-15-06E; and (9) ERAs, Sodium Dichromate and White Bluffs Pickling Acid Crib, will be completed. 100 Area wide common activities include: (1) complete Columbia River Sediment Sampling report for FY93; (2) issue Columbia River Impact Evaluation Plan; (3) complete ecological sampling report; (4) complete Cr speciation studies and issue final report; (5) install 4 new GW well; (6) 100 Area Common TT activities include: initiate 118-B-1 Excavation TT, issue test plan to regulators by 5/28/94. Start removal of burial ground waste by 8/31/94 to meet TPA Milestone M-15-16B. Continue 100-BC-1 Soil Washing Laboratory TTs on 100 Area soils. Prepare a Codisposal TT study plan and issue to regulators 4/94.

Budget Year (FY 1995) Description(Limit 52 lines or less):

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Decrement/Target: There are no differences between the decrement and target case in FY95. Complete the 100-HR-1 OU FFS review and incorporate regulator comments. [\$165.8K] Receive an IROD/ROD for 100-HR-1 and 100-HR-3 OU in 3/95. Complete preparation and issue the 100-HR-2 OU FFS report and IRM Proposed Plan to the regulators 12/21/94 (proposed milestone), and complete review. [\$145.0K] Complete the 100-HR-3 OU FFS review and incorporate regulator comments. [\$165.8K] Treatability test activities include the completion of the 100-DR-1 pilot-scale soil washing test report. [\$527.2K] Continue pump and treat operations (planned at 50 gpm, 3 well configuration) in the 100-HR-3 GW OU for the removal of Cr. [\$973.3K] Initiation of the pilot-scale soil washing for 116-F-4 soils from the excavation treatability test conducted in FY93/94. Total contaminated soils to be washed is approximately 500 yd<sup>3</sup> with disposal of wastes to the low-level burial ground. [\$4187.7K] Continued work on the use of codisposal of contaminated soils mixed or blended with cementitious materials, polymers, or other additives to produce a stable waste form. Codisposal tests include the batching of various mixtures in the lab and a potential mock burial ground to test mix design capabilities. [\$1739.6K] Continue biannual sampling activities in the 100-HR-3 GW OU. [\$295.2K] 100 Area wide common activities include: (1) continue coordinating Cultural Resource activities with remediation activities and (2) continue ecological risk assessments. 100 Area common treatability tests will continue from FY94 into FY95. [\$226.2K] Vortec Pilot-Scale Vitrification Treatability Study is an office technology development program to demonstrate vitrification of soils at Hanford. ER provides funding for site testing including field manpower management, operations, and waste handling. [\$744.9K] The 118-B-1 Burial Ground Treatability Test is to obtain engineering information for RD of burial grounds receiving waste generated from removal activities. Activities will be completed in FY95 with the removal of approximately 5,000-10,000 yd<sup>3</sup> of contaminated material. The 118-B-1 Burial Ground tests satisfy a 100-BC-1 ADS 3105 milestone, but is funded in the 100-HR Common Account. [\$2393.8K]. In FY95 \$1,468K has been added to bring the ER total up to \$229.7 million. The scope of work added is as follows: Initiate RA at selected waste sites at 100-HR-1 OU (see remediation assumptions in section), 6) Initiate preparation of RD/RA plans at selected waste sites within the 100-HR-1 OU. [\$93.1] Excavate and remove for disposal 565 yards from waste site 116-H-5, within the 100-HR-1 OU. [779.5K] Excavate and remove for disposal 624 yards from waste site 1607-H2, within the 100-HR-1 OU. [\$595.4K] FY96 and outyear scope of work and dollars have not been changed due to the increase in FY95 dollars.

**Planning Year (FY 1996) Description(Limit 156 lines or less):**

Decrement: There are no impacts to the 100-HR Subproject in the decrement case.

Decrement/Target:

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Continue preparation and initiate RD/RA plans at selected waste sites within the 100-HR-1 OU per the preferred alternative defined in the IROD/ROD. [\$151.3K].

Excavate and remove for disposal 565 yards from waste site 116-H-5, within the 100-HR-1 OU. [\$797.4K].

Excavate and remove for disposal 624 yards from waste site 1607-H2, within the 100-HR-1 OU. [\$609.1K].

Excavate and remove for disposal 2325 yards from waste site 132-H-3, within the 100-HR-1 OU. [\$1761.3K]

Prepare and initiate RD/RA plans at selected waste sites within the 100-HR-2 OU per the preferred alternative defined in the IROD/ROD. [\$9.6K]

Begin preparations to excavate waste for disposal from waste site 118-H-4, within the 100-HR-2 OU. [\$238.6K]

Continue biannual sampling activities in the 100-HR-3 GW OU. [\$302.0K]

Continue pump and treat operations (add another 50 gpm system to existing system for a total of 100 gpm) at the Cr Plume in the 100-HR-3 GW OU. [\$2814.2K]

Continue ecological and cultural resource support to ER activities, 100 Area Common activity. [\$117.1K] .

Treatability tests will continue as required in the 100 Area Treatability Program Plan. [\$2324.0K]

Continued work on the use of codisposal of contaminated soils mixed with grout. Complete field testing summary reports and issue to the regulators. [\$240.5K]

Complete Vortec Phase III field testing, prepare and issue summary report. [\$333.4K]

Planning:

Prepare and initiate additional RD/RA plans at selected waste sites within the 100-HR-1 OU per the preferred alternative defined in the IROD/ROD. [\$6.2K]

Due to the increase in planning dollars within the 100 Area Subprojects, the remediation scenarios were either accelerated from FY96 into FY95 or delayed in order to accelerate work scope within another subproject.

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Excavate and remove for disposal 565 yards from waste site 116-H-5, within the 100-HR-1 OU. Was completed earlier in the planning case (see FY95). [\$-797.5K]

Excavate and remove for disposal 624 yards from waste site 1607-H2, within the 100-HR-1 OU. Was completed earlier in the planning case (see FY95).

Excavate and remove for disposal 2325 yards from waste site 132-H-3, within the 100-HR-1 OU. Remediation resources have been reallocated to another subproject resulting in a net reduction of \$-1761.3K.

Excavate and remove for disposal 565 yards from waste site 116-H-3, within the 100-HR-1 OU. [\$542.1K]

Excavate and remove for disposal 624 yards from waste site 116-H-6, within the 100-HR-1 OU. [\$1569.8K]

Prepare and initiate additional RD/RA plans at selected waste sites within the 100-HR-2 OU per the preferred alternative defined in the IROD/ROD. [\$9.6K]

Begin preparations to excavate and remove for disposal waste from waste site 118-H-4, within the 100-HR-2 OU. Remediation resources have been reallocated to another subproject resulting in a net reduction of [\$-238.6K]

Excavate and remove for disposal 2056 yards from waste site 132-H-2, within the 100-HR-2 OU. [\$1214.0K]

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

Outyear activities for the 100-HR Area include: continue RAs at selected waste sites within the 100-HR-1 OU per the preferred alternative defined in the IROD/ROD. Continued pump and treat operations at the 100-HR-3 OU. Procure a third 50 gpm system for a total of 150 gpm. Continue operations until 1999. Continue biannual monitoring at 100-HR-3 GW OU. Continue treatability tests per the 100 Area Treatability Test Plan. Continue ecological assessments and cultural resource reviews for remediation activities. General Remediation Assumptions for the 100-DR Area are: (1) written direction will be received from RL to initiate RD/RA activities prior to a receipt of a IROD/ROD, (2) priority is to begin remediation of limited waste sites in FY96 to show progress, (3) removal is assumed to be the preferred alternative, (4) no volume reduction or treatment is included but will be considered for cost/benefits in the FFS, (5) the results from the LFIs and QRAs are factors in the prioritization of waste sites, (6) ER has paid for the W-025 and W-025A Trenches. ER will not be charged for disposal costs (7) ERDF will accept wastes at the start of FY97, (8) waste site prioritization is divided into two categories: (A) activities that can be initiated in FY95/96 to show progress but are limited to disposal

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capacity and resources (i.e. equipment, budget) and, (B) activities that can be initiated in FY97 once the ERDF is ready to accept waste. Criteria for waste site selection within the above categories is as follows: (1) waste sites to be remediated in FY95/96, (2) low volume waste disposal sites; (3) total FY95 waste disposal capacity is 10,000 cubic yards (anticipated W-025 Trench capacity), (4) total FY96 waste capacity is 50,000 cubic yards (anticipated W-025 Trench capacity), (5) waste sites located within 1/4 mile of the river, (6) waste sites located outside controlled areas, (7) waste sites located within the path of the C-Reactor removal ramp, (8) 100-BC, 100-HR, and 100-DR are the only areas remediation is occurring, (9) operations will be an eight hour shift, and (10) remediation will occur in 100-BC and 100-HR in FY95. Waste sites to be remediated in FY97 through FY 2000: (1) ERDF is ready to accept waste starting in 10/96, (2) waste disposal capacity is unlimited, (3) waste sites located within 1/4 mile of the river, (4) waste sites located outside controlled areas, (5) waste sites located within the path of the C Reactor removal ramp, (6) high, medium, lower risk waste sites, (7) 100-BC, 100-HR, and 100-DR are the only areas remediation is occurring, and (8) waste sites integrated with decontamination and decommissioning activities.

Impacts/Assumptions(Limit 42 lines or less):

IMPACTS: (1) Substantial and continuous remediation will not occur 15 months after the IROD/ROD is reached and (2) prioritization of waste sites have not been established based on the results of the FFS. SUBPROJECT SPECIFIC ASSUMPTIONS: (1) all existing TPA Milestones defined for 100-HR-1, 100-HR-3 will be completed, (2) 100-BC remediation will be emphasized over the next five years, (3) field characterization work will be considered complete for the 100-HR Area on both high and low priority sites by the end of FY94, (4) bi-annual monitoring will continue at 100-HR-3 OU, (5) 100 Area Treatability Tests for source units are budgeted with the 100-HR Subproject, (6) Treatability tests for 100-HR-3 Cr plume is based on a 50 gpm, ion exchange system, three well configuration with reinjection of treated water to the ground, (7) this subproject does not contain Columbia River Studies, funding and resources are covered in the RL Budget numbers ADS 3400; (8) preparation of the 100 Area FS 1 and 2 is complete in FY94, (9) Hanford Site Baseline Risk Assessment Methodology update is no longer covered in this ADS; and (10) NEPA/CERCLA will be integrated into the FFS and proposed plan. OVERALL PLANNING ASSUMPTIONS: (1) HRA-EIS will provide resolution of issues concerning future land use of the Hanford Site, such that ER work can proceed without impacts, (2) ERC will not have an impact on assessment and RAs, (3) no cost or schedule impacts will result from implementation of NRDA, (4) current technologies will be available to support remediation needs, (5) infrastructure will be in place to support all activities, (6) all field activities will be conducted in accordance with existing Hanford practices and bargaining agreements, (7) a near-term disposal trench will be available in FY95 for limited ER Program wastes, (8) ERDF will be available to accept ER Program waste in FY97, (9) characterization activities are per the HSPPS; (10) all FY95 and outyear M-

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13-00 Milestones will be waived per program optimization to implement remediation, all other 1/25/94 revised TPA milestones will be met; (11) funding will be available at the beginning of each FY to support work activities; (12) procurement and subcontracting activities will not impact execution of this plan; (13) ROD for each OU will establish deliverables and milestones for defined remediation activities, remediation activities will be determined by resources available; and (14) written direction will be received from RL to initiate RD/RA activities prior to receipt of ROD.

Supporting Documents(Limit 5 lines or less):

TPA, CERCLA, RCRA, NEPA, and DOE Orders 4700.1 and 5700.2D.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

~~DESCRIPTION OF REGULATORY DRIVERS~~

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

~~DESCRIPTION OF REGULATORY DRIVERS Continued~~

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~~DESCRIPTION OF REGULATORY DRIVERS Continued~~

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the Environmental Restoration Program. The project scope, cost, and schedule are a direct result of conforming to these various order.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides EPA enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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Operations Office: RL ID No.: 3125- 0 Revision Date: 4/22/1994  
 ADS Title: 100 NR CHAR., ASSESS. AND REMEDIAL ACTION  
 WBS No.: 1.4.10.1.1.9 Category: ER Appr.: D  
 Project Title: 100 NR Facility/WAG: N REACTOR AREA  
 Installation: HANFORD-100 CID: RL10930 ZOVHD: 19  
 For Line Item Project: N/A TPC: 331133 TEC: 331133  
 Contig: 75162  
 CNTR Manager: PATTERSON, JK Phone: 509-376-0902  
 O.O. Manager: FOLEY, BL Phone: 509-376-7087  
 H.Q. Manager: BALONE, S Phone: 301-903-7607  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: N IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			IMM RISK
					DECREMENT	TARGET	PLAN	
OE	1,223	6,311		A	1,388	1,388	1,388	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	1,223	6,311		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	1,388	1,388	1,388	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	1,388
CE	0
GPP	0
LI	0
TOTAL	1,388

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	1,388	1,304	1,332	1,362	1,391
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>1,388</b>	<b>1,304</b>	<b>1,332</b>	<b>1,362</b>	<b>1,391</b>

  

FTEs	FY94	FY95
Direct	6	17
Indirect	5	14
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	12	11	11	11	11
Indirect	10	9	9	9	9
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	1,388	1,304	1,332	1,362	1,391
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>1,388</b>	<b>1,304</b>	<b>1,332</b>	<b>1,362</b>	<b>1,391</b>

  

FTEs	FY94	FY95
Direct	6	17
Indirect	5	14
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	12	11	11	11	11
Indirect	10	9	9	9	9
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 100-NR CHARACTERIZATION AND ASSE									
APPROP: D									
					A	113	113	113	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW2010301	1,132	1,124			E	0	0	0	0
35EW20100	0	0			F	0	0	0	0
39EW20100	0	0			G	0	0	0	0
39EW20100	0	0			H	0	0	0	0
					I	0	0	0	0
<b>TOTAL</b>	<b>1,132</b>	<b>1,124</b>			<b>TOTAL</b>	<b>113</b>	<b>113</b>	<b>113</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	113
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>113</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	113	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>113</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	113	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>113</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

				FY96 DRIVER CATEGORY			
				DECREMENT	TARGET	PLAN	IMM RISK
DESC: RCRA/CERCLA							
SUB-DESC: C PROGRAM: EM SUBACT: AB							
TITLE: 100-NR REMEDIAL ACTION							
APPROP: D				A	1,275	1,275	1,275
				B	0	0	0
B&R				C	0	0	0
FY94 APPR				D	0	0	0
FY95 PRES				E	0	0	0
FY95 APPR				F	0	0	0
EW2010302	91	5,187		G	0	0	0
35EW20100	0	0		H	0	0	0
39EW20100	0	0		I	0	0	0
39EW20100	0	0		TOTAL	1,275	1,275	1,275
TOTAL	91	5,187					0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	1,275
35EW20100	0
39EW20100	0
39EW20100	0
TOTAL	1,275

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	1,275	1,304	1,332	1,362	1,391
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	1,275	1,304	1,332	1,362	1,391

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	1,275	1,304	1,332	1,362	1,391
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	1,275	1,304	1,332	1,362	1,391

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**A106 Cross References**

A106 Number: RA-029	Date: 6/23/92
Title: ER-100-NR-1 RFI/CMS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-041	Date: 6/23/92
Title: ER-100-NR-2 RFI/CMS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:	Date:
Title:	

**FY95-99 ADS Cross References**

ADS #: RL 3125 0  
Title: 100 NR CHAR. ASSESS. AND RA  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.:	Milestone Seq: 3125-00-0020	TPA MS NO.: M-16-94		
Title: M-16-94-M04 SUB REVISED 100-NR-1 & 100-NR-2 WK PLANS-EPA/ECOLOGY				
Planning Date	Target Date	Decrement Date	Level: HQ	Keyword: ROD
4/30/1994	4/30/1994	4/30/1994	PTS: Y	SMS: Y
Driver Name: TRI	Driver Reference: TPA			
PRESENT IN	Tiger Team: N	Program Execution Guidance: N		
	Roadmap: N	Current Year Workplan: N	Safety and Health: N	
Description:				
Revised work plans will incorporate the 100-N pilot project work (including remediation of 1301N & 1325N)				

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 3125-00-0015 TPA MS NO.: M-16-94  
Title: M-16-94-M05 SUBMIT 100-NR-1 & 100-NR-2 LFI REPORTS TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
8/30/1994 8/30/1994 8/30/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
LFI reports include (1301N & 1325N Crib data)

Milestone No.: Milestone Seq: 3125-00-0005 TPA MS NO.: NONE  
Title: SUBMIT 100-NR-1 IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: CNTR Keyword: ROD  
6/30/1995 6/30/1995 6/30/1995 PTS: N SMS: N  
Driver Name: TRI Driver Reference: N/A  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

Milestone No.: Milestone Seq: 3125-00-0025 TPA MS NO.: NONE  
Title: SUBMIT 100-NR-2 IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: CNTR Keyword: ROD  
6/30/1995 6/30/1995 6/30/1995 PTS: N SMS: N  
Driver Name: TRI Driver Reference: N/A  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:40:31

Technical Scope Summary(Limit 15 line or less):

This activity data sheet (ADS) is for the RCRA Facility Investigations/  
Corrective Measure Studies (RFI/CMS) and remedial actions (RAs) for the  
100-NR Area Operable Units (OUs). The 100-NR Area contains one source OU,  
100-NR-1, and a groundwater OU, 100-NR-2. The 100-NR OUs will be assessed  
and remediated under RCRA 3004 (u). The technical scope includes  
management, planning, investigation, alternatives selection, and

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documentation required to reach a record of decision (ROD)/interim record of decision (IROD) for these OUs. It also includes management, planning, documentation, and implementation of RAs. Additionally, remedial design (RD) and RA are also covered in this ADS.

Technical Scope Detail(Limit 104 lines or less):

The 100-NR Area is located in the northern portion of the Hanford Site. The OUs received predominately liquid wastes resulting from N Reactor Area operations. These OUs contain 59 identified individual waste management units, two of which are treatment, storage, and disposal (TSD) units (116-N-1 Crib and 116-N-3 Crib) currently planned to be integrated into the RFI/CMS process. These waste units received several types of liquid effluent, decontamination waste streams, including reactor coolant, ruptured fuel storage liquid effluents, and miscellaneous liquid. Liquid waste discharge to 100-NR Area OUs totals approximately 1.4 million gallons.

The OUs of these types are the main source of groundwater contamination in and around the 100 Aggregate Area. Primary contaminants of concern in the groundwater are chromium, sodium dichromate, strontium-90, and tritium. The reactor liquid effluent OU, 100-NR-1, is a high priority unit in the 100 Aggregate Area because these sites contain released radioactive and/or hazardous substances to the environment. The groundwater OUs are also high priority because they represent the groundwater contamination reaching the Columbia River.

Assessment and characterization activities covered by this ADS include efforts to describe the hydrologic and geologic settings, and the characteristics, contents, and the extent of contamination on and beneath the 100-NR Area. Upon approval of the work scope from the regulators, sampling and analysis will occur on and beneath the OUs including the surface and vadose zones. Non-intrusive investigations that are common to the 100 Aggregate Area will also be covered in ADS 3120. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, remediation action alternatives will be analyzed and studied, and a proposed plan will be submitted for public review, approval, and issuance of an IROD/ROD by the regulators.

Prior to a final ROD, IRODs may occur. These IRODs will expedite the cleanup process where areas of contamination are known. Initial limited field investigations (LFIs) will be conducted to determine the contamination level but not the extent. Remediation alternatives will be selected through treatability tests, qualitative risk assessments (QRAs), and finally a focused FS (FFS). Upon receipt of an IROD/ROD, the IRM/RA will be initiated within 15 months.

The RAs will proceed at the conclusion of the RFI/CMS on the 100-NR Area OUs and upon the approval and issuance of the ROD/IROD by the regulatory

~~NARRATIVE Continued~~

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agencies. The RAs are divided into three main phases: (1) RAs design, (2) RAs procurement/construction, and (3) RAs post monitoring except in the case of clean closure. The first 15 months of RAs are currently assumed to be design related activities. All identified waste management units will be subjected to the RAs process.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

The 100-NR-1 and 100-NR-2 OU Work Plans were submitted to the regulators for review in 9/90, completing TPA Milestones M-12-12/M-12-14. During FY 1991 the Hanford Site Past-Practice Strategy (HSPPS) was implemented. The HSPPS required a rescoping of the work plans. The rescoped work plans were reissued to the regulators in 12/91. The 100-NR-1/2 Work Plans have not been approved by the regulators to date. The approval of these work plans are being delayed because of a scheduling conflict between N Reactor shutdown and the initiation of remediation activities. During early FY 1994 the three parties renegotiated N Area milestones as part of the N Area Pilot Project. As a result RCRA TSD Closure Plans for 1301-N/1325-N will be incorporated into the CERCLA OU's.

100-NR-1: Site characterization work has been allowed to move forward with the issuance of description of work, which was approved by the regulators. All data compilation, topographic mapping, and non-intrusive/intrusive activities have been completed. All boreholes and test pits have been completed. Samples have been analyzed for contaminants of concern, and returned from the laboratories, data was verified, validated, and evaluated. This information was incorporated into the draft QRA and LFI reports. Further work on the QRA and LFI reports were suspended in December, pending further guidance from the N Area Pilot Project discussions. This work was resumed in March. 1301-N and 1325-N Cribs data will be incorporated into the 100-NR-1 Work Plan and follow-up LFI documentation.

100-NR-2: Data compilation and geologic investigations have been completed. One groundwater well has been drilled and water samples taken. Samples have been analyzed at commercial laboratories. The 100-N Area currently has a total of 25 wells available for use in the CERCLA program for water monitoring and sampling, and no additional wells are required. Draft QRA and LFI reports are complete. Further work on the QRA and LFI reports were suspended in December, pending further guidance from the N Area Pilot Project discussions. Work was resumed in March.

The N-Springs Engineering Evaluation/Cost Analysis (EE/CA) has been completed and submitted to the regulators for public comment. The EE/CA has identified several remedial alternatives i.e., slurry wall, pump and treat for this reduction of Sr-90 to the river.

Current Year (FY94) Description: FY 1994 activates for 100-NR Area include: (1) issue revised 100-NR-1 and 100-NR-2 OU Work Plans 4/30/94 to

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incorporate the 100-N Area Pilot Project work (including remediation of 1310-N and 1325-N) to the regulators satisfying TPA Milestone M-16-94-MO4, (2) complete preparation and issue 100-NR-1 and 100-NR-2 OU QRA and LFI reports 8/30/94 to the regulators satisfying TPA Milestone M-16-94-MO5, (3) continue biannual sampling activities in the 100-NR-2 groundwater OU, (4) incorporate public comments into the N-Springs EE/CA. Receive an action memorandum from the regulators for the preferred alternative and implement the recommended action.

Budget Year (FY 1995) Description(Limit 52 lines or less):

Decrement/Target: There are no differences between the decrement and target case in FY95.

Prepare and issue the 100-NR-1 OU FFS report and IRM Proposed Plan 6/29/95 and issue to the regulators, which also defines the remediation option for the IRM of the 1301-N and 1325-N Cribs to the regulators. [\$420.1K]

Prepare and issue the 100-NR-2 OU FFS report and IRM Proposed Plan to the regulators 6/95. [\$449.8K]

Continue the biannual sampling activities for 25 wells in the 100-NR-2 groundwater OU. [\$254.5K]

Purchase ion exchange pump and treat system equipment for the N-Springs ERA. [\$4194.3K]

Implement the N-Springs ERA preferred alternative per the action memorandum. NOTE: Planning assumptions for N-Springs ERA is a five well ion exchange pump and treat system (300 gpm). Pump and treat operations will continue for five years. [\$992.3K]

Note: N-Springs estimates are per the N-Springs ERA EE/CA.

Planning Year (FY 1996) Description(Limit 156 lines or less):

There are no impacts to the 100-NR Subproject based on the decrement case.

Decrement/Target:

Complete review cycle for the 100-NR-1 and 100-NR-2 OUs FFS reports and IRM Proposed Plans, in support of reaching IRODs for both OU's 12/31/95. [\$113.1K]

Continue the biannual sampling activities for 25 wells in the 100-NR-2 groundwater OU. [\$260.3K]

Continue pump and treat operations at 300 gpm based on a five well configuration for the N-Springs ERA. [\$1015.1K]

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There are no remediation activities planned in the 100-NR-1 OU for FY 1996.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

The FY 1997-FY 1999 activities for the 100-NR Area include: (1) Continue pump and treat operations at N-Springs through FY 1999, and (2) there are no remediation activities planned for the outyears based on the target case.

Impacts/Assumptions(Limit 42 lines or less):

IMPACTS: Completion of RAs by 2018 (TPA Milestone M-16-00) is in jeopardy; target case does not provide for remediation at waste sites after IROD/ROD has been issued at source OUs; source waste unit remediation choices will be reduced to a limited subset of all 100 Area source waste sites. Remediation will NOT be initiated 15 months after an IROD/ROD is issued. IROD/ROD for each OU will establish deliverables and milestones for associated remedial activities. Remediation activities will be determined by resource availability. SUBPROJECT SPECIFIC ASSUMPTIONS: 1) 100-NR-1/-2 OUs are being redefined per 100 Area Pilot Project. Milestones will be established as a result of negotiations and definition of work scope for OUs, 2) no additional field work will be required at 1301-N and 1325-N Cribs, 3) N-Springs Action Memorandum will define the preferred alternative. No actions will be initiated prior to receipt of the Action Memorandum from regulators and written direction provided to WHC from RL. Submittal of EE/CA to regulators on 1/31/94 constitutes the completion of M-14 Milestone, 4) preferred alternative selected for budgeting proposes is a pump and treat system, 5) field characterization work will be considered complete for 100-NR Area on both high and low priority sites by the end of FY94, 6) biannual monitoring will continue at 100-NR-2 OU, 7) additional groundwater remediation beyond N-Springs ERA has not been identified nor budgeted, and 8) NEPA/CERCLA will be integrated into FFS and proposed plan. OVERALL PLANNING ASSUMPTIONS: 1) HRA-EIS will provide resolution of issues concerning future land use of Hanford Site, such that ER work can proceed without impacts, 2) ERC will not have an impact on assessment and RAs, 3) no cost or schedule impacts will result from implementation of NRDA, 4) current technologies will be available to support remediation needs, 5) infrastructure will be in place to support all activities, 6) all field activities will be conducted in accordance with existing Hanford practices and bargaining agreements, 7) a near-term disposal trench will be available in FY95 for limited ER Program wastes. There will be no waste disposal costs levied against ER Program, 8) ERDF will be available to accept ER Program waste at the start of FY97, 9) characterization activities are per HSPPS, 10) all FY95 and outyear M-13-00 Milestones will be waived per program optimization to implement remediation, all other 1/25/94 revised TPA milestones will be met; 11) funding will be available at the beginning of each FY to support work activities, 12) procurement and subcontracting activities will not impact execution of this plan, 13) ROD for each OU will

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establish deliverables and milestones for defined remediation activities, remediation activities will be determined by resources available, and 14) written direction will be received from RL to initiate RD/RA activities prior to receipt of the ROD.

**Supporting Documents(Limit 5 lines or less):**

TPA, CERCLA, RCRA, NEPA, and DOE Orders 4700.1 and 5700.2D.

**Performance Measures(Limit 15 lines or less):**

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

**DESCRIPTION OF REGULATORY DRIVERS**

**CERCLA:**

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

**NEPA\_R:**

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

**DESCRIPTION OF REGULATORY DRIVERS Continued**

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DESCRIPTION OF REGULATORY DRIVERS Continued

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford

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Operations Office: RL ID No.: 3200- 0 Revision Date: 4/22/1994  
 ADS Title: 200 BP CHAR., ASSESS. AND REMEDIAL ACTION  
 WBS No.: 1.4.10.1.1.10 Category: ER Appr.: D  
 Project Title: 200 BP Facility/WAG: B-PLANT  
 Installation: HANFORD-200 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 1105964 TEC: 1105964  
 Contig: 201649  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: PAK, PM Phone: 509-376-4798  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		DECREMENT	FY96 DRIVER TARGET	CATEGORY PLAN	IMM RISK
OE	10,858	5,127		A	0	5,829	5,829	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	10,858	5,127		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	0	5,829	5,829	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	0
CE	0
GPP	0
LI	0
TOTAL	0

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	5,829	3,316	2,934	1,694	398
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>5,829</b>	<b>3,316</b>	<b>2,934</b>	<b>1,694</b>	<b>398</b>

FTEs	FY94	FY95
Direct	64	38
Indirect	54	32
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	37	21	18	10	2
Indirect	31	18	15	8	2
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	5,829	3,316	2,934	1,694	398
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>5,829</b>	<b>3,316</b>	<b>2,934</b>	<b>1,694</b>	<b>398</b>

FTEs	FY94	FY95
Direct	64	38
Indirect	54	32
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	37	21	18	10	2
Indirect	31	18	15	8	2
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY								
SUB-DESC: A PROGRAM: EM SUBACT: AA				DECREMENT	TARGET	PLAN	IMM RISK					
TITLE: 200-BP CHARACTERIZATION AND ASSE												
APPROP: D												
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D	E	F	G	H	I
EW2010301	5,956	4,129		0	0	190	190	0	0	0	0	0
35EW20100	0	0		0	0	0	0	0	0	0	0	0
39EW20100	0	0		0	0	0	0	0	0	0	0	0
39EW20100	0	0		0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>5,956</b>	<b>4,129</b>		<b>0</b>	<b>0</b>	<b>190</b>	<b>190</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	190	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>190</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	190	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>190</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY			
SUB-DESC: C PROGRAM: EM SUBACT: AB				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-BP REMEDIAL ACTION							
APPROP: D							
			A	0	5,639	5,639	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
				D	0	0	0
EW2010302	4,902	998		E	0	0	0
35EW20100	0	0		F	0	0	0
39EW20100	0	0		G	0	0	0
39EW20100	0	0		H	0	0	0
				I	0	0	0
<b>TOTAL</b>	<b>4,902</b>	<b>998</b>		<b>TOTAL</b>	<b>0</b>	<b>5,639</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	5,639	3,316	2,934	1,694	398
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>5,639</b>	<b>3,316</b>	<b>2,934</b>	<b>1,694</b>	<b>398</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	5,639	3,316	2,934	1,694	398
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>5,639</b>	<b>3,316</b>	<b>2,934</b>	<b>1,694</b>	<b>398</b>

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**A106 Cross References**

A106 Number: RA-015	Date: 6/23/92
Title: ER-200-BP-1	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-023	Date: 6/23/92
Title: ER-200-BP-5 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-032	Date: 6/23/92
Title: ER-200-BP-4 (RI/FS)	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-042	Date: 6/23/92
Title: ER-200-BP-11 RFI/CMS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-045	Date: 6/23/92
Title: ER-200-BP-2 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:	Date:
Title:	

**FY95-99 ADS Cross References**

ADS #: RL 3200 0  
Title: 200 BP CHAR. ASSESS. AND RA  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

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MILESTONES

Milestone No.: Milestone Seq: 3200-00-0030 TPA MS NO.: M-13-06  
Title: SUBMIT DRAFT TREATABILITY TEST PLAN TO EPA/ECOLOGY FOR 200-BP-5  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
1/31/1994 1/31/1994 1/31/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA 8/10/93  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change request M-13-93-02.

Milestone No.: Milestone Seq: 3200-00-0010 TPA MS NO.: M-15-02E  
Title: SUB DFT CONST RPT ON HANFORD BARRIER PROTOTYPE DEMO 216-B-57 CRIB  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
7/31/1994 7/31/1994 7/31/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TRI 1/6/94  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change request M-15-93-01.

Milestone No.: Milestone Seq: 3200-00-0015 TPA MS NO.: M-13-06A  
Title: INIT PILOT-SCALE PUMP/TREAT OPER FOR 200-BP-5 OU 30 DAYS AFTER TT  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
8/31/1994 8/31/1994 8/31/1994 PTS: N SMS: Y  
Driver Name: TRI Driver Reference: TRI 1/26/94  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
Is approved but no sooner than 8/31/94.

Milestone No.: Milestone Seq: 3200-00-0060 TPA MS NO.: M-13-07  
Title: SUB INTE 200-BP-11 SOURCE OU & 216-B-3 WORK/CLOS PLN TO EPA/ECOL  
Planning Date Target Date Decrement Date Level: HQ Keyword: SA  
9/30/1994 9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA 8/3/93  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
TPA change request M-13-93-01 and C-93-07

MILESTONES Continued

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~~MILESTONES Continued~~

Milestone No.: Milestone Seq: 3200-00-0035 TPA MS NO.: NONE  
Title: SUBMIT 200-BP-5 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
8/31/1995 8/31/1995 8/31/1995 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA 5/89  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

~~NARRATIVE~~

LAST UPDATE: 04-24-1994 TIME: 14:39:31

Technical Scope Summary(Limit 15 line or less):

This activity is the assessment and remediation for the 200-BP (B Plant) Aggregate Area which includes the 200-BP-1, 200-BP-2, 200-BP-3, 200-BP-4, 200-BP-5, 200-BP-6, 200-BP-8, 200-BP-9, 200-BP-10, and 200-BP-11 Operable Units (OUs). The 200-BP-5 OU is a groundwater (GW) only OU that underlies the northwestern portion of the 200 East Area. The other nine OUs are source OUs. These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an interim record of decision (IROD) or final record of decision (ROD) for the OUs within this aggregate area. It also includes management, planning, documentation, and implementation of remedial actions (RAs).

Technical Scope Detail(Limit 104 lines or less):

The 200-BP Aggregate Area is located in the central processing area of the Hanford Site (200 East) and received predominately liquid wastes from B Plant processing operations. This aggregate area contains no containment structures (i.e., tanks) and is predominantly cribs, ditches, trenches, ponds, and spills. The 194 waste management units within this aggregate area contain contaminates consisting predominately of strontium, cobalt, technetium, uranium, nitrate, and cyanide.

The OUs of the type contained within the 200-BP Aggregate Area are the main source of GW contamination in and around the 200 East Area. The primary contaminates of concern in the GW are cobalt, cyanide, plutonium, and strontium. Process liquid discharges such as those in the 200-BP-1 OU are the highest priority sites in the 200 Area because these sites have released radioactive and hazardous substances to the environment (i.e., from the vadose zone to the GW).

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NARRATIVE Continued

Assessment and characterization activities as implemented per the Hanford Past-Practice Strategy (HPPS) include efforts to describe the hydrologic settings, characteristics, and contents of soil and GW, including treatability tests to identify possible remediation methods for the identified contamination on and beneath the 200-BP Aggregate Area. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, RA alternatives will be analyzed and studied, and a proposed plan will be submitted for development, approval, and issuance of a ROD/IROD by the regulatory agencies. The RAs are divided into three main phases: (1) RA design, (2) RA procurement/construction, and (3) RA post monitoring except in the case of clean closure. All identified waste management units will be subject to the RA process.

Act. Comp. to Date/Current Year (FY 1994) Desc. (Limit 52 lines or less):

Activity Completed To Date: 200-BP-1 Work Plan (WP) was initiated in FY 88. The WP was submitted to regulators for review in 2/89, completing TPA Milestone M-12-02. The WP was approved by the regulators in 3/90. Characterization activities were initiated in FY 90. At the end of FY 92 all Phase 1 field data acquisition activities (at 200-BP-1) including source sampling and analysis, surface/near-surface soil sampling/analysis, vadose zone soil sampling and analysis, GW sampling and analysis, topographic mapping, biotic surveys, column leach tests, hydraulic pump tests, sorption tests, and baseline risk assessment were completed. In 12/92, a change request was approved by regulators that removed GW from scope of 200-BP-1 and accelerated ROD process for source units. 200-BP-5 OU was designated as a GW only OU that includes GW from 200-BP-1 OU. Also as part of change request, it was decided to construct the Hanford prototype barrier over the 216-B-57 Crib in the 200-BP-1 OU, to demonstrate its ability to be constructed at a contaminated site. TPA Milestone M-15-02A (Phase 1 and 2 FS report), M-15-02B (Phase 2 RI report), and M-15-02C (FS 3 report) were deleted. They were replaced with TPA Milestone M-15-02D (combine FS 1, 2, and 3 into one report), submitted to regulators on 6/30/93, and M-15-02E (submit a draft Constructability Report for the prototype barrier) due to regulators on 7/31/94. TPA Milestone M-15-02-T1 (200-BP-1 RI Phase 1 report) was retained and submitted to regulators on 3/31/93. Design and preparation for construction of Hanford Prototype Barrier at the B-57 Crib in 200-BP-1 OU have been completed. As a result of negotiations with regulators and subsequent revisions to TPA in 9/91, an AAMSR for the B Plant source aggregate area was submitted to the regulators in 6/92 (TPA Milestone M-27-07). Recommendations from the AAMSR resulted in a TPA change request combining B-Pond RCRA closure with 200-BP-11 OU WP (establishing TPA Milestone M-13-07) and WP preparation was commenced. Current Year: Final preparation activities were completed and construction of Hanford Prototype Barrier began at the B-57 Crib in the 200-BP-1 OU, scheduled to be complete by 7/31/94. Draft Constructability Report on Hanford Prototype Barrier is to be completed 7/31/94 and submitted to regulators, meeting TPA Milestone M-15-02E. FS Phase 3 report was

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finalized on 12/31/93 and submitted to the regulators. ROD for 200-BP-1 OU is anticipated for 6/94. Remedial design (RD) of 200-BP-1 OU will begin (construction of a RCRA equivalent barrier over 216-B-43 through 50 Cribs has been identified as the preferred remedial alternative for the OU). Bid package for construction of the final barrier will be prepared and a contract awarded by the end of the FY. Per the 1/25/94 revised TPA, a treatability test plan for 200-BP-5 OU was issued to regulators on 1/31/94 (TPA Milestone M-13-06). A pilot-scale treatability test (pump & treat) at each of 2 GW contaminate plumes (identified as the technetium, cobalt, cyanide plume and the plutonium, cesium, strontium plume) will be initiated utilizing an ion exchange treatment system (TPA Milestone M-13-06A) 30 days after approval of the treatability test plan, but no sooner than 8/31/94. An LFI WP/Closure Plan for the integrated 200-BP-11 OU and 216-B-3 Pond will be prepared and issued to the regulators on 9/30/94 (M-13-07). Disposition of regulator comments and document finalization, and subsequent characterization and remediation activities for this OU, will be deferred beyond the five-year planning window.

Budget Year (FY 1995) Description(Limit 52 lines or less):

200-BP-1:

Initiation of the final RA, in the form of construction of a RCRA equivalent barrier will be conducted and completed by 10/1/95. (FY 93 carry-over funding for the barrier construction contract is assumed.)

During construction of the barrier, contractor personnel will be onsite providing management oversight to document site activities and assure compliance with construction specifications. [\$352.1K]

Upon completion of the RA, the OU will be 'closed out' by dispositioning all documentation to Records Control. [\$88K]

To monitor barrier performance, three monitoring wells will be installed after the completion of the barrier. (Sampling of these wells will be encompassed in the work scope for the 200-BP-5 OU.) [\$558K]

200-BP-5:

The GW treatability tests initiated in FY 94 will conclude on 2/28/95. [\$995.7K]

If initial pump and treat efforts are successful, the treatability equipment will continue to operate at both plume locations in order to expedite remediation of the OU. [\$1,153.7K]

Four extraction/injection wells to be utilized in pump and treat operations will be drilled to enhance efficiency of the treatability testing/follow-on remediation activities. [\$750K]

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Treatability test reports for each test site will be prepared and issued detailing test conclusions/results. [\$331.3K]

A qualitative risk assessment (QRA) will be prepared for use in preparation of the proposed plan. [\$262.1K]

Information from the QRA and treatability test reports will be utilized in preparation of an IRM Proposed Plan; a draft to be issued to the regulators by 8/31/95. [\$39.2K]

Semiannual GW monitoring at the 35 monitoring wells within the OU will continue (including the new 200-BP-1 monitoring wells) to assess the effects of the treatability tests on the GW plume. Additionally, sampling activities would be conducted at 'point-of-compliance' locations to assure the plume is not spreading. [\$596.6K]

Planning Year (FY 1996) Description(Limit 156 lines or less):  
Decrement:

All work scope at the 200-BP-5 OU would be deferred in the decrement case. (See target description for scope detail.)

Target:

200-BP-5:

The IRM Proposed Plan will be finalized and issued for use in preparing an IROD. [\$8K]

The existing treatment systems will continue to operate in order to expedite remediation of the OU. The technetium/cobalt/cyanide plume ion exchange system will operate 8 hour/day 5 day/week at a treatment rate of 10-15 gallon/minute. The plutonium/cesium/strontium plume ion exchange system will operate 8 hour/day 5 day/week at a treatment rate of 20 gallon/minute. [\$2,169.0K]

The IROD is to be received from the regulators by 4/30/96 for the 200-BP-5 OU. Upon receipt of the IROD, the RD phase of the IRM will be initiated. [\$835.1K]

Procurement of additional equipment to increase the treatment capacity to 100 gallons/minute at the technetium/cobalt/cyanide plume will be completed. [\$240.1K]

Fabrication and connection of the new equipment to the well field for operational start-up will take place. [\$1,937.1K]

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One round of GW sampling at the 35 monitoring wells within the OU will be conducted prior to receipt of the IROD to assess the effects of the pump and treat activities on the GW plume. [\$182.2K]

One round of GW sampling at the 35 monitoring wells within the OU will be conducted after receipt of the IROD to assess the effects of the pump and treat activities on the GW plume. Additionally, GW sampling will take place at 'point-of-compliance' location to assess movement of the GW plumes. [\$457.8K]

Planning: No difference between planning and target scope/funding.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

Full-scale pump and treat operations (planned at 100 gallons/minute) will be initiated at the technetium/cobalt/cyanide plume in the 200-BP-5 OU. The existing treatment system located at the plutonium/cesium/strontium plume will continue to operate. Both systems will operate until 1999. Semiannual GW monitoring at the 35 monitoring wells within the OU will continue through FY 2000.

Impacts/Assumptions(Limit 42 lines or less):

Impacts: No impacts from target to planning case.

Subproject Specific Assumptions: Pump and treat technology will be successful in treating both contaminant plumes in the 200-BP-5 OU. Aquifers will yield sufficient water to treat at estimated throughput. GW at 200-BP-5 will be cleaned to acceptable levels by mid 1999. The final ROD for the 200-BP-5 OU will be received in 4/96. The ROD for 200-BP-1 will be implemented per the draft IRM Proposed Plan.

Overall Planning Assumptions: The HRA-EIS will provide resolution of issues concerning future land use of the Hanford Site, such that ER work can proceed without impacts. The ERC will not have an impact on assessment and RAs. No cost or schedule impacts will result from implementation of NRDA. Current technologies will be available to support remediation needs.

Infrastructure will be in place to support all activities. All field activities will be conducted in accordance with existing Hanford practices and bargaining agreements. A near-term disposal trench will be available in FY 95 for limited ER Program wastes. There will be no waste disposal costs levied against the ER Program.

The ERDF will be available to accept ER Program waste in FY 97. Disposal costs will be limited. Characterization activities are per the HPPS. All FY 95 and outyear M-13-00 and M-15-00 Milestones will be waived or deferred per program optimization to implement remediation. All other 1/25/94 revised TPA Milestones will be met.

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No additional high priority or ERA sites are identified requiring remediation.

The ROD for each OU will establish deliverables and milestones for the defined remediation activities. Remediation activities will be determined by resources available. Written direction will be received from RL to initiate RD/RA activities prior to receipt of a ROD. RAs will concentrate on the GW OUs in the 200 Area (200-ZP-1, 200-UP-1, and 200-BP-5). Funding will be available at the beginning of each FY to support work activities. Procurement and subcontracting activities will not impact execution of this plan.

Supporting Documents(Limit 5 lines or less):

TPA, CERCLA, RCRA, NEPA, and DOE Orders 4700.1 and 5700.2D.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

~~DESCRIPTION OF REGULATORY DRIVERS~~

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

~~DESCRIPTION OF REGULATORY DRIVERS Continued~~

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DESCRIPTION OF REGULATORY DRIVERS Continued

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

DESCRIPTION OF REGULATORY DELIVERABLES CONTAINED

DOE:  
Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the EM program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

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RCA:  
RCA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3002.

TRI:  
All subsequent activities are affected by the TPA in agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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Operations Office: RL ID No.: 3205- 0 Revision Date: 4/22/1994  
 ADS Title: 200 NO CHARACTERIZATION AND ASSESSMENT  
 WBS No.: 1.4.10.1.1.11 Category: ER Appr.: D  
 Project Title: 200 NO Facility/WAG: 200-NORTH  
 Installation: HANFORD-200 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 133999 TEC: 133999  
 Contig: 33474  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: THOMPSON, KM Phone: 509-376-6421  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			IMM RISK
					DECREMENT	TARGET	PLAN	
OE	0	0		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	0	0		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	0	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	0
CE	0
GPP	0
LI	0
TOTAL	0

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY									
SUB-DESC: C PROGRAM: EM SUBACT: AB						DECREMENT	TARGET	PLAN	IMM RISK						
TITLE: 200-NO REMEDIAL ACTION															
APPROP: D															
B&R	FY94	APPR	FY95	PRES	FY95	APPR	A	B	C	D	E	F	G	H	I
EW2010302	0		0				0	0	0	0	0	0	0	0	0
35EW20100	0		0				0	0	0	0	0	0	0	0	0
39EW20100	0		0				0	0	0	0	0	0	0	0	0
39EW20100	0		0				0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>		<b>0</b>				<b>0</b>								

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**A106 Cross References**

A106 Number: \_\_\_\_\_ Date: \_\_\_\_\_  
Title: \_\_\_\_\_  
Federal Facility Identification: \_\_\_\_\_  
Region: \_\_\_\_\_ Assessment: \_\_\_\_\_  
Status: \_\_\_\_\_ Progress: \_\_\_\_\_

**Tiger Team Cross References**

Tiger Team Finding Number: \_\_\_\_\_ Date: \_\_\_\_\_  
Title: \_\_\_\_\_

**FY95-99 ADS Cross References**

ADS #: RL 3205 0  
Title: 200 NO CHAR. & ASSESS.  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.:	Milestone Seq:	TPA MS NO.:
Title:		
Planning Date	Target Date	Decrement Date
Level:	Keyword:	
PTS:	SMS:	
Driver Name:	Driver Reference:	
PRESENT IN	Tiger Team:	Program Execution Guidance:
Roadmap:	Current Year Workplan:	Safety and Health:
Description:		

**NARRATIVE**

LAST UPDATE: 04-24-1994 TIME: 14:38:40

**Technical Scope Summary(Limit 15 line or less):**

This activity is the assessment and remediation for the 200-NO (North) Aggregate Area which includes the 200-NO-1 Operable Unit (OU). This OU is being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an interim record of decision (IROD) or final record of decision (ROD) for the OU within this aggregate area. It

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also includes management, planning, documentation and implementation of remedial actions.

The 200-NO Aggregate Area is located north of the Hanford Site's central processing area (and south of the 100 Area reactors) and received predominately liquid wastes from basin water and sludge cleanout. This aggregate area contains no containment structures (i.e., tanks) and is predominantly trenches and ponds. The eight waste management units within this aggregate area contain contaminants of low-level waste.

Technical Scope Detail(Limit 104 lines or less):

This activity is the assessment and remediation for the 200-NO Aggregate Area which includes the 200-NO-1 OU. This OU is being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an IROD or final ROD for the OU within this aggregate area. It also includes management, planning, documentation and implementation of remedial actions.

The 200-NO Aggregate Area is located north of the Hanford Site's central processing area (and south of the 100 Area reactors) and received predominately liquid wastes from basin water and sludge cleanout. This aggregate area contains no containment structures (i.e., tanks) and is predominantly trenches and ponds. The eight waste management units within this aggregate area contain contaminants consisting predominately of low-level waste.

Assessment and characterization activities include efforts to describe the hydrologic settings, and the characteristics, contents, and the extent of the contamination on and beneath the 200-NO Aggregate Area. Upon approval of the workscope from the regulators, sampling and analysis activities that will occur in the aggregate area include the surface and vadose zone. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, remedial actions alternatives will be analyzed and studied, and a proposed plan will be submitted for development, approval and issuance of a ROD/IROD by the regulatory agencies. The remedial actions is divided into three main phases; (1) remedial actions design, (2) remedial actions procurement/construction, and (3) remedial actions post monitoring except in the case of clean closure. The first 15 months of remedial actions is currently assumed as being solely design related activities. All identified waste management units will be subject to the remedial actions process.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

As a result of negotiations with the regulators and subsequent revisions to the TPA in 9/91, an Aggregate Area Management Strategy Report for the 200-NO Aggregate Area was required to the regulators in 8/92 (TPA Milestone M-

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27-09).

Budget Year (FY 1995) Description(Limit 52 lines or less):

There are no activities planned in this ADS during FY 1995.

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

Planning Year (FY 1996) Description(Limit 156 lines or less):

There are no activities planned in this ADS during FY 1996.

Please see statement under Budget Year (FY 1995) Description.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

There are no activities planned in this ADS during FY 1997-FY 2000.

Please see statement under Budget Year (FY 1995) Description.

Impacts/Assumptions(Limit 42 lines or less):

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

Supporting Documents(Limit 5 lines or less):

None.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

~~NARRATIVE Continued~~

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NARRATIVE Continued

DESCRIPTION OF REGULATORY DRIVERS

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

DESCRIPTION OF REGULATORY DRIVERS Continued

Environmental Management  
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Activity Data Sheet

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DESCRIPTION OF REGULATORY DRIVERS Continued

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

Page: 1  
 RL-3210-0 - Date: 6/01/1994 Time: 12:17

Operations Office: RL ID No.: 3210- 0 Revision Date: 4/22/1994  
 ADS Title: 200 PO CHARACTERIZATION AND ASSESSMENT  
 WBS No.: 1.4.10.1.1.12 Category: ER Appr.: D  
 Project Title: 200 PO Facility/WAG: PUREX  
 Installation: HANFORD-200 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 626250 TEC: 626250  
 Contig: 156373  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: THOMPSON, KM Phone: 509-376-6421  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR	DECREMENT	FY96 DRIVER CATEGORY			IMM RISK
					TARGET	PLAN		
OE	0	0	A	0	0	0	0	0
CE	0	0	B	0	0	0	0	0
GPP	0	0	C	0	0	0	0	0
LI	0	0	D	0	0	0	0	0
			E	0	0	0	0	0
TOTAL	0	0	F	0	0	0	0	0
			G	0	0	0	0	0
			H	0	0	0	0	0
			I	0	0	0	0	0
			TOTAL	0	0	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	0
CE	0
GPP	0
LI	0
TOTAL	0

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

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 RL-3210-0 - Date: 6/01/1994 Time: 12:18

TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

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 RL-3210-0 - Date: 6/01/1994 Time: 12:18

**Budget Detail Profile**

DESC: RCRA/CERCLA					FY96 DRIVER CATEGORY				
SUB-DESC: A PROGRAM: EM SUBACT: AA					DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: 200-PO CHARACTERIZATION AND ASSE									
APPROP: D									
				A	0	0	0		0
				B	0	0	0		0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0		0
				D	0	0	0		0
EW2010301	0	0		E	0	0	0		0
35EW20100	0	0		F	0	0	0		0
39EW20100	0	0		G	0	0	0		0
39EW20100	0	0		H	0	0	0		0
				I	0	0	0		0
TOTAL	0	0		TOTAL	0	0	0		0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
TOTAL	0

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	0	0	0	0	0

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	0	0	0	0	0

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

Page: 4  
 RL-3210-0 - Date: 6/01/1994 Time: 12:18

**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: C PROGRAM: EM SUBACT: AB						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-PO REMEDIAL ACTION									
APPROP: D									
					A	0	0	0	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW2010302	0	0			E	0	0	0	0
35EW20100	0	0			F	0	0	0	0
39EW20100	0	0			G	0	0	0	0
39EW20100	0	0			H	0	0	0	0
					I	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>			<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Environmental Management  
FY96 Field Submission  
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**A106 Cross References**

A106 Number: RA-043	Date: 6/23/92
Title: ER-200-PO-2 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-044	Date: 6/23/92
Title: ER-200-PO-5 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-065	Date: 6/23/92
Title: ER 200-PO-1 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-066	Date: 6/23/92
Title: ER 200-PO-4 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:	Date:
Title:	

**FY95-99 ADS Cross References**

ADS #: RL 3210 0  
Title: 200 PO CHAR. & ASSESS.  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

Environmental Management  
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Activity Data Sheet

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MILESTONES

Milestone No.:	Milestone Seq:	TPA MS NO.:
Title:		
Planning Date	Target Date	Decrement Date
		Level:
		PTS:
		Keyword:
		SMS:
Driver Name:	Driver Reference:	
PRESENT IN	Tiger Team:	Program Execution Guidance:
	Roadmap:	Current Year Workplan:
		Safety and Health:
Description:		

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:37:35

Technical Scope Summary(Limit 15 line or less):

This activity is the assessment and remediation for the 200-PO (Purex) Aggregate Area which includes the 200-PO-1, 200-PO-2, 200-PO-4, 200-PO-5, and 200-PO-6 Operable Units (OUs). These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an interim record of decision (IROD) or final record of decision (ROD) for the OUs within this aggregate area. It also includes management, planning, documentation and implementation of remedial actions.

The 200-PO Aggregate Area is located in the Hanford Site's central processing area (200 East) and received predominately liquid wastes from Purex. This aggregate area contains no containment structures (i.e., tanks) and is predominantly cribs, ditches, trenches, ponds, and spills. The 161 waste management units within this aggregate area contain contaminates consisting predominately of tritium and nitrate.

Technical Scope Detail(Limit 104 lines or less):

This activity is the assessment and remediation for the 200-PO (Purex) Aggregate Area which includes the 200-PO-1, 200-PO-2, 200-PO-4, 200-PO-5, and 200-PO-6 Operable Units (OUs). These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an interim record of decision (IROD) or final record of decision (ROD) for the OUs within this aggregate area. It also includes management, planning, documentation and implementation of remedial actions.

The 200-PO Aggregate Area is located in the Hanford Site's central processing area (200 East) and received predominately liquid wastes from Purex. This aggregate area contains no containment structures (i.e.,

NARRATIVE Continued

Environmental Management  
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**NARRATIVE Continued**

tanks) and is predominantly cribs, ditches, trenches, ponds, and spills. The 161 waste management units within this aggregate area contain contaminants consisting predominately of tritium and nitrate.

The 200-PO Aggregate Area are the main source of groundwater contamination in and around the 200 East Area. Process liquid discharges such as those in the 200-PO Aggregate Area OUs are the highest priority sites in the 200 Area because these sites have released radioactive and hazardous substances to the environment (i.e., from the vadose zone to the groundwater).

Assessment and characterization activities include efforts to describe the hydrologic settings, and the characteristics, contents, and the extent of the contamination on and beneath the 200-PO Aggregate Area. Upon approval of the workscope from the regulators, sampling and analysis activities that will occur in the aggregate area include the surface, vadose zone, and groundwater. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, remedial actions alternatives will be analyzed and studied, and a proposed plan will be submitted for development, approval and issuance of a ROD/IROD by the regulatory agencies. The remedial actions is divided into three main phases; (1) remedial actions design, (2) remedial actions procurement/construction, and (3) remedial actions post monitoring except in the case of clean closure. The first 15 months of remedial actions is currently assumed as being solely design related activities. All identified waste management units will be subject to the remedial actions process.

**Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):**

As a result of negotiations with the regulators and subsequent revisions to the TPA in 9/91, an Aggregate Area Management Strategy Report for the Purex aggregate area was issued to regulators in 5/92 (TPA Milestone M-27-06).

**Budget Year (FY 1995) Description(Limit 52 lines or less):**

There are no activities planned in this ADS during FY 1995.

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

**Planning Year (FY 1996) Description(Limit 156 lines or less):**

There are no activities planned in this ADS during FY 1996.

Please see statement under Budget Year (FY 1995) Description.

**NARRATIVE Continued**

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~~NARRATIVE Continued~~

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

There are no activities planned in this ADS during FY 1997- FY 2000.

Please see statement under Budget Year (FY 1995) Description.

Impacts/Assumptions(Limit 42 lines or less):

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

Supporting Documents(Limit 5 lines or less):

None.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

~~DESCRIPTION OF REGULATORY DRIVERS~~

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

~~DESCRIPTION OF REGULATORY DRIVERS Continued~~

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

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Date: 6/01/1994

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Time: 12:19

DESCRIPTION OF REGULATORY DRIVERS Continued

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

DESCRIPTION OF REGULATORY BEHAVIOR CONTINUED

Various DOE Orders to provide major implement best management practices for policy and guidance to execute the EM program. The project activity cost, and schedule are a direct result of complying to these various orders.

NEPA B  
Affected Schedule/Activities: Application of NEPA to the project activity is to ensure that potential impacts of assessment and cleanup activities are assessed.

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RCRA  
RCRA provides biology enforcement authority for the site monitoring treatment, storage, and disposal under RCRA Section 3004.

WV  
All subsequent activities are allowed by the TVA, an agreement and schedule between DOE, EPA, and biology for the cleanup of the past practice waste sites at Hanford.

Environmental Management  
 FY96 Field Submission  
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 RL-3215-0 - Date: 6/01/1994 Time: 12:19

Operations Office: RL ID No.: 3215- 0 Revision Date: 4/22/1994  
 ADS Title: 200 RO CHARACTERIZATION AND ASSESSMENT  
 WBS No.: 1.4.10.1.1.13 Category: ER Appr.: D  
 Project Title: 200 RO Facility/WAG: REDOX  
 Installation: HANFORD-200 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 577056 TEC: 577056  
 Contig: 144146  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: THOMPSON, KM Phone: 509-376-6421  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			IMM RISK
					DECREMENT	TARGET	PLAN	
OE	0	0		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	0	0		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	0	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	0
CE	0
GPP	0
LI	0
TOTAL	0

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

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Date: 6/01/1994

Page: 2  
 Time: 12:19

TARGET LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

  

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

  

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-RO CHARACTERIZATION AND ASSE									
APPROP: D									
					A	0	0	0	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW2010301	0	0			E	0	0	0	0
35EW20100	0	0			F	0	0	0	0
39EW20100	0	0			G	0	0	0	0
39EW20100	0	0			H	0	0	0	0
					I	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>			<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



Environmental Management  
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**A106 Cross References**

A106 Number: \_\_\_\_\_ Date: \_\_\_\_\_  
Title: \_\_\_\_\_  
Federal Facility Identification: \_\_\_\_\_  
Region: \_\_\_\_\_ Assessment: \_\_\_\_\_  
Status: \_\_\_\_\_ Progress: \_\_\_\_\_

**Tiger Team Cross References**

Tiger Team Finding Number: \_\_\_\_\_ Date: \_\_\_\_\_  
Title: \_\_\_\_\_

**FY95-99 ADS Cross References**

ADS #: RL 3215 0  
Title: 200 RO CHAR. & ASSESS.  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.:	Milestone Seq:	TPA MS NO.:
Title:		
Planning Date	Target Date	Decrement Date
		Level:
		PTS:
Driver Name:	Driver Reference:	Keyword:
PRESENT IN	Tiger Team:	SMS:
	Roadmap:	
	Program Execution Guidance:	
	Current Year Workplan:	Safety and Health:
Description:		

**NARRATIVE**

LAST UPDATE: 04-24-1994 TIME: 14:36:34

**Technical Scope Summary(Limit 15 line or less):**

This activity is the assessment and remediation for the 200-RO (REDOX) Aggregate Area which includes the 200-RO-1, 200-RO-2, and 200-RO-3 Operable Units (OUs). These Ous are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an interim record of decision (IROD) or final record of decision (ROD) for the OUs

**NARRATIVE Continued**

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

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~~NARRATIVE Continued~~

within this aggregate area. It also includes management, planning, documentation and implementation of remedial actions.

The 200-RO Aggregate Area is located in the central processing area of the Hanford Site (200 West) and received predominately liquid wastes from REDOX. This aggregate area contains no containment structures (i.e. tanks) and is predominantly cribs, ditches, trenches, ponds, and spills. The 63 waste management units within this aggregate area contain contaminants consisting predominately of nitrates and radionuclides.

Technical Scope Detail(Limit 104 lines or less):

This activity is the assessment and remediation for the 200-RO Aggregate Area which includes the 200-RO-1, 200-RO-2, and 200-RO-3 OUs. These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an IROD or final ROD for the OUs within this aggregate area. It also includes management, planning, documentation and implementation of remedial actions.

The 200-RO Aggregate Area is located in the central processing area of the Hanford Site (200 West) and received predominately liquid wastes from REDOX. This aggregate area contains no containment structures (i.e. tanks) and is predominantly cribs, ditches, trenches, ponds, and spills. The 63 waste management units within this aggregate area contain contaminants consisting predominately of nitrates and radionuclides.

The 200-RO-Aggregate Area OUs are the main source of groundwater contamination in and around the 200 West Area. Process liquid discharges such as those in the 200-RO Aggregate Area OUs are the highest priority sites in the 200 Area because these sites have released radioactive and hazardous substances to the environment (i.e., from the vadose zone to the groundwater).

Assessment and characterization activities include efforts to describe the hydrologic settings, and the characteristics, contents, and the extent of the contamination on and beneath the 200-RO Aggregate Area. Upon approval of the workscope from regulators, sampling and analysis activities that will occur in the aggregate area include the surface and vadose zone. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, remedial actions alternatives will be analyzed and studied, and a proposed plan will be submitted for development, approval and issuance of a ROD/IROD by the regulatory agencies. The remedial actions is divided into three main phases; (1) remedial actions design, (2) remedial actions procurement/construction, and (3) remedial actions post monitoring except in the case of clean closure. The first 15 months of remedial actions is currently assumed as being solely design related activities. All identified waste management units will be subject to the remedial actions process.

~~NARRATIVE Continued~~

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

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~~NARRATIVE Continued~~

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

As a result of negotiations with the regulators and subsequent revisions to the TPA in 9/91, an Aggregate Area Management Strategy Report for the REDOX aggregate area was issued to the regulators in 3/92 (TPA Milestone M-27-04).

Budget Year (FY 1995) Description(Limit 52 lines or less):

There are no activities planned in this ADS during FY 1995.

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

Planning Year (FY 1996) Description(Limit 156 lines or less):

There are no activities planned in this ADS during FY 1996.

Please see statement under Budget Year (FY 1995) Description.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

There are no activities planned in this ADS during FY 1997-FY 2000.

Please see statement under Budget Year (FY 1995) Description.

Impacts/Assumptions(Limit 42 lines or less):

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

Supporting Documents(Limit 5 lines or less):

None.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

~~NARRATIVE Continued~~

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

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Date: 6/01/1994

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Time: 12:20

NARRATIVE Continued

DESCRIPTION OF REGULATORY DRIVERS

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA R:

Affected Scope/Cost Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

DESCRIPTION OF REGULATORY DRIVERS Continued

Environmental Management  
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Activity Data Sheet

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DESCRIPTION OF REGULATORY DRIVERS Continued

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, and Ecology for the cleanup of the past practice waste sites at Hanford.

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DESCRIPTION OF REGULATORY DRIVER CONTINUED

151:  
All subsequent activities are affected by the TTA, an agreement and  
schedule between DOE and Ecology for the cleanup of the past practice  
waste area at Hanford.

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Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

Page: 1  
 RL-3220-0 - Date: 6/01/1994 Time: 12:20

Operations Office: RL ID No.: 3220- 0 Revision Date: 4/22/1994  
 ADS Title: 200 SO CHARACTERIZATION AND ASSESSMENT  
 WBS No.: 1.4.10.1.1.14 Category: ER Appr.: D  
 Project Title: 200 SO Facility/WAG: SEMI-WORKS  
 Installation: HANFORD-200 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 29589 TEC: 29589  
 Contig: 7391  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: THOMPSON, KM Phone: 509-376-6421  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			IMM RISK
					DECREMENT	TARGET	PLAN	
OE	0	0		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	0	0		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	0	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	0
CE	0
GPP	0
LI	0
TOTAL	0

Environmental Management  
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**TARGET LEVEL (Dollars in Thousands)**

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

  

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

**PLANNING LEVEL (Dollars in Thousands)**

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

  

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-SO CHARACTERIZATION AND ASSE									
APPROP: D									
B&R	FY94 APPR	FY95 PRES	FY95 APPR						
				A		0	0	0	0
				B		0	0	0	0
				C		0	0	0	0
				D		0	0	0	0
				E		0	0	0	0
				F		0	0	0	0
				G		0	0	0	0
				H		0	0	0	0
				I		0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>		<b>TOTAL</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

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 RL-3220-0 - Date: 6/01/1994 Time: 12:21

**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: C PROGRAM: EM SUBACT: AB						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-SO REMEDIAL ACTION									
APPROP: D									
					A	0	0	0	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW2010302	0	0			E	0	0	0	0
35EW20100	0	0			F	0	0	0	0
39EW20100	0	0			G	0	0	0	0
39EW20100	0	0			H	0	0	0	0
					I	0	0	0	0
TOTAL	0	0			TOTAL	0	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	0
35EW20100	0
39EW20100	0
39EW20100	0
TOTAL	0

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	0	0	0	0	0

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	0	0	0	0	0

Environmental Management  
FY96 Field Submission  
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**A106 Cross References**

A106 Number: RA-067 Date: 6/23/92  
Title: ER 200-SO-1 RI/FS  
Federal Facility Identification:  
Region: Assessment:  
Status: Progress:

**Tiger Team Cross References**

Tiger Team Finding Number: Date:  
Title:

**FY95-99 ADS Cross References**

ADS #: RL 3220 0  
Title: 200 SO CHAR. & ASSESS.  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.:	Milestone Seq:	TPA MS NO.:
Title:		
Planning Date	Target Date	Decrement Date
Driver Name:	Driver Reference:	Level: Keyword:
PRESENT IN	Tiger Team:	Program Execution Guidance:
Roadmap:	Current Year Workplan:	Safety and Health:
Description:		

**NARRATIVE**

LAST UPDATE: 04-24-1994 TIME: 14:33:34

**Technical Scope Summary(Limit 15 line or less):**

This activity is the assessment and remediation for the 200-SO (Semi-works) Aggregate Area which includes the 200-SO-1 Operable Unit (OU). This OU is being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an interim record of decision (IROD) or final record of decision (ROD) for the OU within this aggregate area. It

**NARRATIVE Continued**

Environmental Management  
FY96 Field Submission  
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~~NARRATIVE Continued~~

also includes management, planning, documentation, and implementation of remedial actions (RAs). The 200-SO Aggregate Area is located in the Hanford Site's central processing area of the Hanford Site (200 East) and received predominately liquid wastes from the Semi-works. This aggregate area contains no containment structures (i.e. tanks) and is predominantly trenches and ponds, and spills. The 21 waste management units within this aggregate area contain contaminants consisting predominately of strontium, tritium, and nitrate.

Technical Scope Detail(Limit 104 lines or less):

This activity is the assessment and remediation for the 200-SO (Semi-works) Aggregate Area which includes the 200-SO-1 OU. This OU is being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an IROD or final ROD for the OU within this aggregate area. It also includes management, planning, documentation, and implementation of RAs.

The 200-SO Aggregate Area is located in the Hanford Site's central processing area of the Hanford Site (200 East) and received predominately liquid wastes from the Semi-works. This aggregate area contains no containment structures (i.e. tanks) and is predominantly trenches and ponds, and spills. The 21 waste management units within this aggregate area contain contaminants consisting predominately of strontium, tritium, and nitrate.

Assessment and characterization activities include efforts to describe the hydrologic settings, and the characteristics, contents, and the extent of the contamination on and beneath the 200-SO Aggregate Area. Upon approval of the workscope from the regulators, sampling and analysis will occur on and beneath the aggregate area including the surface and vadose zone. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, RAs alternatives will be analyzed and studied, and a proposed plan will be submitted for development, approval and issuance of a ROD/IROD by the regulatory agencies. The RAs is divided into three main phases; (1) RAs design, (2) RAs procurement/construction, and (3) RAs post monitoring except in the case of clean closure. The first 15 months of RAs is currently assumed as being solely design related activities. All identified waste management units will be subject to the RAs process.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

As a result of negotiations with the regulators and subsequent revisions to the TPA in 9/91, an Aggregate Area Management Strategy Report for the Semi-works aggregate area was completed 7/92 (TPA Milestone M-27-08).

Budget Year (FY 1995) Description(Limit 52 lines or less):

There are no activities planned in this ADS during FY 1995.

~~NARRATIVE Continued~~

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

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**NARRATIVE Continued**

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

**Planning Year (FY 1996) Description(Limit 156 lines or less):**

There are no activities planned in this ADS during FY 1996.

Please see statement under Budget Year (FY 1995) Description.

**Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):**

There are no activities planned in this ADS during FY 1997-FY 2000.

Please see statement under Budget Year (FY 1995) Description.

**Impacts/Assumptions(Limit 42 lines or less):**

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

**Supporting Documents(Limit 5 lines or less):**

None.

**Performance Measures(Limit 15 lines or less):**

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

DESCRIPTION OF REGULATORY DRIVERS Continued

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

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DESCRIPTION OF REGULATORY DRIVERS Continued

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

DESCRIPTION OF REGULATORY DRIVERS Continued

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

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DESCRIPTION OF REGULATORY DRIVERS Continued

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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Environmental Management  
TVA Field Submission  
Activity Data Sheet

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Time: 13:53

Date: 6/01/1994  
EL-3320-0

DESCRIPTION OF REGULATORY DEVIATION CONTINUED

NOTE:  
All subject activities are affected by the TMA, an agreement and  
schedule between DOE, EPA, and Ecology for the cleanup of the past  
practice waste sites at Hanford

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Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

Page: 1  
 RL-3225-0 - Date: 6/01/1994 Time: 12:21

Operations Office: RL ID No.: 3225- 0 Revision Date: 4/22/1994  
 ADS Title: 200 TP CHARACTERIZATION AND ASSESSMENT  
 WBS No.: 1.4.10.1.1.15 Category: ER Appr.: D  
 Project Title: 200 TP Facility/WAG: T-PLANT  
 Installation: HANFORD-200 CID: RL10930 ZOVHD: 19  
 For Line Item Project: N/A TPC: 432161 TEC: 432161  
 Contig: 107957  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: THOMPSON, KM Phone: 509-376-6421  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			
					DECREMENT	TARGET	PLAN	IMM RISK
OE	0	0		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	0	0		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	0	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	0
CE	0
GPP	0
LI	0
TOTAL	0

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

FTEs	FY94	FY95			
Direct	0	0			
Indirect	0	0			
Federal	0	0			
FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

FTEs	FY94	FY95			
Direct	0	0			
Indirect	0	0			
Federal	0	0			
FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

Environmental Management  
 FY96 Field Submission  
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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-TP CHARACTERIZATION AND ASSE									
APPROP: D									
					A	0	0	0	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW2010301	0	0			E	0	0	0	0
35EW20100	0	0			F	0	0	0	0
39EW20100	0	0			G	0	0	0	0
39EW20100	0	0			H	0	0	0	0
					I	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>			<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY				
SUB-DESC: C PROGRAM: EM SUBACT: AB						DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: 200-TP REMEDIAL ACTION										
APPROP: D										
B&R	FY94	APPR	FY95	PRES	FY95	APPR	A	B	C	D
EW2010302	0		0				0	0	0	0
35EW20100	0		0				0	0	0	0
39EW20100	0		0				0	0	0	0
39EW20100	0		0				0	0	0	0
<b>TOTAL</b>	<b>0</b>		<b>0</b>				<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Al06 Cross References**

Al06 Number: RA-039	Date: 6/23/92
Title: ER-200-TP-1 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
Al06 Number: RA-040	Date: 6/23/92
Title: ER-200-TP-4 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
Al06 Number: RA-068	Date: 6/23/92
Title: ER 200-TP-2 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:	Date:
Title:	

**FY95-99 ADS Cross References**

ADS #: RL 3225 0  
Title: 200 TP CHAR. & ASSESS.  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.:	Milestone Seq:	TPA MS NO.:
Title:		
Planning Date	Target Date	Decrement Date
		Level:
		PTS:
Driver Name:	Driver Reference:	Keyword:
PRESENT IN	Tiger Team:	SMS:
	Roadmap:	Program Execution Guidance:
	Current Year Workplan:	Safety and Health:
Description:		

**NARRATIVE**

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LAST UPDATE: 04-24-1994 TIME: 14:31:32

Technical Scope Summary(Limit 15 line or less):

This activity is the assessment and remediation for the 200-TP (T-Plant) Aggregate Area which includes the 200-TP-1, 200-TP-2, 200-TP-3, and 200-TP-4 Operable Units (OUs). These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an interim record of decision (IROD) or final record of decision (ROD) for the OUs within this aggregate area. It also includes management, planning, documentation, and implementation of remedial actions. The 200-TP Aggregate Area is located in the central processing area of the Hanford Site (200 West) and received predominately liquid wastes from T-Plant. This aggregate area contains no containment structures (i.e., tanks) and is predominantly cribs, ditches, trenches, ponds, and spills. The 73 waste management units within this aggregate area contain contaminants consisting predominately of chromium, nitrate, TCE, carbon tetrachloride, and tritium.

Technical Scope Detail(Limit 104 lines or less):

This activity is the assessment and remediation for the 200-TP Aggregate Area which includes the 200-TP-1, 200-TP-2, 200-TP-3, and 200-TP-4 OUs. These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an IROD or final ROD for the OUs within this aggregate area. It also includes management, planning, documentation, and implementation of remedial actions.

The 200-TP Aggregate Area is located in the central processing area of the Hanford Site (200 West) and received predominately liquid wastes from T-Plant. This aggregate area contains no containment structures (i.e., tanks) and is predominantly cribs, ditches, trenches, ponds, and spills. The 73 waste management units within this aggregate area contain contaminants consisting predominately of chromium, nitrate, TCE, carbon tetrachloride, and tritium.

The OUs of the type contained within the 200-TP-Aggregate Area are the main source of groundwater contamination in and around the 200 East Area. Process liquid discharges such as those in the OUs within the 200-TP aggregate are the highest priority sites in the 200 Area because these sites have released radioactive and hazardous substances to the environment (i.e., from the vadose zone to the groundwater).

Assessment and characterization activities include efforts to describe the hydrologic settings, and the characteristics, contents, and the extent of the contamination on and beneath the 200-TP Aggregate Area. Upon approval of the workscope from the regulators, sampling and analysis activity that will occur in the aggregate area include the surface and vadose zone. After sufficient information has been collected and analyzed to describe the

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extent and possible migration of the contaminants, remedial actions alternatives will be analyzed and studied, and a proposed plan will be submitted for development, approval, and issuance of an ROD/IROD by the regulatory agencies. The remedial actions is divided into three main phases; (1) remedial actions design, (2) remedial actions procurement/construction, and (3) remedial actions post monitoring except in the case of clean closure. The first 15 months of remedial actions is currently assumed as being solely design related activities. All identified waste management units will be subject to the remedial actions process.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

As a result of negotiations with the regulators and subsequent revisions to the TPA in 9/91, an Aggregate Area Management Strategy Report for the T-Plant aggregate area was completed in 4/92 (TPA Milestone M-27-05).

Budget Year (FY 1995) Description(Limit 52 lines or less):

There are no activities planned in this ADS during FY 1995.

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

Planning Year (FY 1996) Description(Limit 156 lines or less):

There are no activities planned in this ADS during FY 1996.

Please see statement under Budget Year (FY 1995) Description.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

There are no activities planned in this ADS during FY 1997-FY 2000.

Please see statement under Budget Year (FY 1995) Description.

Impacts/Assumptions(Limit 42 lines or less):

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

Supporting Documents(Limit 5 lines or less):

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None.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

~~DESCRIPTION OF REGULATORY DRIVERS~~

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

~~DESCRIPTION OF REGULATORY DRIVERS Continued~~

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DESCRIPTION OF REGULATORY DRIVERS Continued

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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DESCRIPTION OF REGULATORY DRIVERS CONTAINED

RCRA: RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U

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NOTE: All subject activities are affected by the agreement and schedule between DOE, EPA, and Ecology for the year 1994. The year 1994 practice waste sites at Hanford

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Operations Office: RL ID No.: 3230- 0 Revision Date: 4/24/1994  
 ADS Title: 200 UP CHARACTERIZATION AND ASSESSMENT  
 WBS No.: 1.4.10.1.1.16 Category: ER Appr.: D  
 Project Title: 200 UP Facility/WAG: U-PLANT  
 Installation: HANFORD-200 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 464793 TEC: 464793  
 Contig: 106720  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: PAK, PM Phone: 509-376-4798  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED. : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			IMM RISK
					DECREMENT	TARGET	PLAN	
OE	9,094	4,627		A	4,865	4,865	4,865	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	9,094	4,627		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	4,865	4,865	4,865	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	4,865
CE	0
GPP	0
LI	0
TOTAL	4,865

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TARGET LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	4,865	2,319	2,370	222	227
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>4,865</b>	<b>2,319</b>	<b>2,370</b>	<b>222</b>	<b>227</b>

  

FTEs	FY94	FY95
Direct	48	33
Indirect	40	28
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	31	15	15	1	1
Indirect	26	13	13	1	1
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	4,865	2,319	2,370	222	227
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>4,865</b>	<b>2,319</b>	<b>2,370</b>	<b>222</b>	<b>227</b>

  

FTEs	FY94	FY95
Direct	48	33
Indirect	40	28
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	31	15	15	1	1
Indirect	26	13	13	1	1
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-UP CHARACTERIZATION AND ASSE									
APPROP: D									
					A	3,276	3,276	3,276	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW2010301	9,094	4,627			E	0	0	0	0
35EW20100	0	0			F	0	0	0	0
39EW20100	0	0			G	0	0	0	0
39EW20100	0	0			H	0	0	0	0
					I	0	0	0	0
<b>TOTAL</b>	<b>9,094</b>	<b>4,627</b>			<b>TOTAL</b>	<b>3,276</b>	<b>3,276</b>	<b>3,276</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	3,276
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>3,276</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	3,276	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>3,276</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	3,276	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>3,276</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: C PROGRAM: EM SUBACT: AB						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-UP REMEDIAL ACTION									
APPROP: D									
					A	1,589	1,589	1,589	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW2010302	0	0			E	0	0	0	0
35EW20100	0	0			F	0	0	0	0
39EW20100	0	0			G	0	0	0	0
39EW20100	0	0			H	0	0	0	0
					I	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>			<b>TOTAL</b>	<b>1,589</b>	<b>1,589</b>	<b>1,589</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	1,589
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>1,589</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	1,589	2,319	2,370	222	227
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>1,589</b>	<b>2,319</b>	<b>2,370</b>	<b>222</b>	<b>227</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	1,589	2,319	2,370	222	227
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>1,589</b>	<b>2,319</b>	<b>2,370</b>	<b>222</b>	<b>227</b>

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**A106 Cross References**

A106 Number: RA-021 Date: 6/23/92  
Title: ER-200-UP-2 RI/FS  
Federal Facility Identification:  
Region: Assessment:  
Status: Progress:

**Tiger Team Cross References**

Tiger Team Finding Number: Date:  
Title:

**FY95-99 ADS Cross References**

ADS #: RL 3230 0  
Title: 200 UP CHAR. & ASSESS.  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.: Milestone Seq: 3230-00-0010 TPA MS NO.: M-13-02A  
Title: INITIATE PILOT-SCALE PUMP AND TREAT OPERATIONS FOR 200-UP-1  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
3/31/1994 3/31/1994 3/31/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA 1/26/94  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
30 days after the LFI work plan is approved but no sooner than 3/31/94.

Milestone No.: Milestone Seq: 3230-00-0020 TPA MS NO.: NONE  
Title: SUBMIT 200-UP-2 VALIDATED DATA TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
7/31/1994 7/31/1994 7/31/1994 PTS: N SMS: Y  
Driver Name: TRI Driver Reference: TPA 5/89  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
Future TPA

**MILESTONES Continued**

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MILESTONES Continued

Milestone No.: Milestone Seq: 3230-00-0005 TPA MS NO.: NONE  
Title: SUBMIT 200-UP-1 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
3/31/1995 3/31/1995 3/31/1995 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA 5/89  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

Milestone No.: Milestone Seq: 3230-00-0025 TPA MS NO.: NONE  
Title: SUBMIT 200-UP-2 DRAFT LFI REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
6/30/1995 6/30/1995 6/30/1995 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA 5/89  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

Milestone No.: Milestone Seq: 3230-00-0030 TPA MS NO.: NONE  
Title: SUBMIT DRAFT 200-UP-I LFI REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
9/30/1996 9/30/1996 9/30/1996 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA 5/89  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:28:42

Technical Scope Summary(Limit 15 line or less):

This activity is the assessment and remediation for the 200-UP (U Plant) Aggregate Area which includes the 200-UP-1 and 200-UP-2 Operable Units (OUs). The 200-UP-1 OU is a groundwater only OU that underlies the entire southern extent of the 200 West Area. The 200-UP-2 OU is a source OU. These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives

NARRATIVE Continued

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selection, and documentation required to reach an interim record of decision (IROD) or final record of decision (ROD) for the OUs within this aggregate area. It also includes management, planning, documentation, and implementation of remedial actions (RAs).

Technical Scope Detail(Limit 104 lines or less):

The 200-UP Aggregate Area is located in the central processing area of the Hanford Site (200 West) and received predominately liquid wastes from U Plant processing operations. This aggregate area contains no containment structures (i.e., tanks) and is predominantly cribs, ditches, trenches, ponds, and spills. The 84 waste management units within this aggregate area contain contaminants consisting predominately of uranium, strontium, technetium, carbon tetrachloride, and nitrate.

The OUs of the type contained within the 200-UP Aggregate Area are the main source of groundwater contamination in and around the 200 West Area. The primary contaminants of concern in the groundwater are uranium, technetium, and nitrate. Process liquid discharges such as those in the OUs within the 200-UP Aggregate Area are the highest priority sites in the 200 Area because these sites have released radioactive and hazardous substances to the environment (i.e., from the vadose zone to the groundwater).

Assessment and characterization activities as implemented per the Hanford Past-Practice Strategy (HPPS) include efforts to describe the hydrologic settings, characteristics, and contents of soil and groundwater, including treatability tests to identify possible remediation methods for the identified contamination on and beneath the 200-UP Aggregate Area. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, RA alternatives will be analyzed and studied, and a proposed plan will be submitted for development, approval, and issuance of a ROD/IROD by the regulatory agencies. The RAs are divided into three main phases: (1) RA design, (2) RA procurement/construction, and (3) RA post monitoring except in the case of clean closure. All identified waste management units will be subject to the RAs process.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

In June of FY 1991, the 200-UP-2 Work Plan was submitted to the regulators in fulfillment of TPA Milestone M-12-15. The work plan was submitted on a draft informational basis to the regulators because ongoing negotiations at that time were deferring the milestone one year to FY 1992, to initiate the aggregate area concept. As a result of negotiations with the regulators and subsequent revisions to the TPA in September 1991, an aggregate area management study report (AAMSR) for the U Plant Aggregate Area was submitted in January 1992 (TPA Milestone M-27-02). Per the recommendations of the U Plant AAMSR, a TPA change request was approved where the source units from 200-UP-1 and 200-UP-2 were combined into the 200-UP-2 OU, and

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the groundwater plume containing the uranium and technetium placed in the 200-UP-1 OU. Additionally, as part of the same change request, the 200-UP-2 Work Plan was submitted in August 1992 and approved on September 7, 1993. Characterization activities, including vadose zone borehole drilling and test pit sampling activities, were commenced. The 200-UP-1 OU Work Plan was submitted to the regulators on April 29, 1993 (TPA Milestone M-13-02) and approved in December 1993.

Current Year (FY 94) Description: Characterization activities have commenced at the 200-UP-1 OU, including groundwater well construction, well sampling and related sample analysis, and groundwater monitoring based on the approved work plan. A pilot-scale pump and treat treatability test will be performed at the uranium/technetium/nitrate groundwater plume starting March 31, 1994 (M-13-02A).

200-UP-2 OU LFI source investigation activities will be continued including vadose zone analysis, radiation surveys, and pipeline integrity testing. Initial data collection activities will be completed in the February-March time frame followed by submittal of validated data to the regulators in July 1994.

Budget Year (FY 1995) Description(Limit 52 lines or less):

200-UP-1:

A DOW will be prepared for well/borehole installation to be conducted in FY 1995 per the 200-UP-1 Work Plan. [\$56.3K]

LFI borehole drilling and groundwater characterization activities (five groundwater wells) will be completed at the 200-UP-1 OU per the approved work plan. [\$1,553.6K]

Quarterly groundwater well sampling analysis and monitoring activities will continue at 20 wells to assess the effects of pump and treat operations on groundwater contamination. Additionally, groundwater sampling will be conducted at 'point-of-compliance' locations to monitor plume movement. [\$676.6K]

The pump and treat treatability test will be completed. Utilization of the pump and treat ion exchange system will continue after the test period in order to facilitate expedited remediation of the OU. The system will be operated 8 hour/day 5 day/week at 50 gallon/minute. [\$1,744.9K]

A treatability test report will be prepared and issued to DOE and the regulators summarizing treatability test results. [\$220.9K]

An interim remedial measures (IRM) proposed plan will be prepared based on characterization data and the treatability test evaluation report and be issued by March 31, 1995. This will lead to an IROD to be issued by the

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regulators, September 30, 1995. [\$47.0K]

200-UP-2:

A draft LFI report summarizing extensive site characterization data obtained in FY 1994 will be prepared for the 200-UP-2 OU and issued to the regulators on June 30, 1995. [\$262.1K]

Additionally, to support preparation of the LFI report, a qualitative risk assessment (QRA) will be performed. [\$65.5K]

Planning Year (FY 1996) Description(Limit 156 lines or less):

Decrement: No difference between decrement and target scope/funding.

Target:

200-UP-1:

Upon receipt of the IROD in September 1995, pump and treat operations at the 200-UP-1 OU will transition to an IRM activity and the remedial design phase will be initiated. Design specifications will be developed for a large-scale ion exchange system with increased treatment capacity of 75 gallon/minute. [\$568.3K]

Pump and treat operations will continue (with equipment used in the treatability test) ramping up to 24 hour/day 7 day/week by March 1996 and continue throughout the FY. [\$1,785.1K]

Procurement of a new 75 gallon/minute pump and treat system to be used in FY 1997 will be completed. [\$245.7K]

Two new boreholes for extraction and/or injection will be drilled and the new 75 gallon/minute system connected to the well field and treatment plant. [\$774.8K]

Sampling and analysis of the groundwater will continue to assess the effects of pump and treat activities on the contamination. Additionally, sampling of groundwater at 'point-of-compliance' locations will be conducted to assess movement of the plume. [\$692.1K]

A QRA and follow on LFI report will be prepared using the data gathered on the low priority contaminants in the OU and submitted to the regulators in September 1996. This will be done in accordance with the approved work plan and will be used in preparing the final ROD for the OU. [\$789.7K]

A report summarizing the status of the IRM for FY 1996 will be prepared for use in operational planning for subsequent remediation. [\$9.6K]

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Planning: No difference between planning and target scope/funding.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

Full-scale pump and treat operations will be initiated at the 200-UP-1 OU and continue through FY 2000 utilizing the 75 gallon/minute system procured in FY 1996. A status report on IRM activities will be issued at the end of each FY. Semiannual groundwater monitoring will continue.

Impacts/Assumptions(Limit 42 lines or less):

Impacts: No impacts from target to planning case.

Subproject Specific Assumptions: Final RODs for each OU have not yet been defined, but are assumed to be pump and treat technology as the preferred remedial alternative for 200-UP-1. An IROD for the 200-UP-1 OU will be received in September 1995. The 200-UP-2 draft LFI report (to be issued to the regulators on June 30, 1995) will not be revised per regulator review comments until activation of the OU (beyond the five-year planning window).

Additional assessment and remediation activities at the 200-UP-2 OU are to be deferred beyond the five-year planning window after the issuance of the draft LFI report. Ongoing LFI characterization activities and 200-UP-1 and 200-UP-2 will not indicate any additional plumes or source waste sites with contaminant levels requiring immediate remediation.

Overall Planning Assumptions: The HRA-EIS will provide resolution of issues concerning future land use of the Hanford Site, such that ER work can proceed without impacts. The ERC will not have an impact on assessment and RAs. No cost or schedule impacts will result from implementation of NRDA. Current technologies will be available to support remediation needs. Infrastructure will be in place to support all activities. All field activities will be conducted in accordance with existing Hanford practices and bargaining agreements. A near-term disposal trench will be available in FY 1995 for limited ER Program wastes. There will be no waste disposal costs levied against the ER Program. The ERDF will be available to accept ER Program waste at the beginning of FY 1997. There will be no waste disposal costs levied against the ER Program. Characterization activities are per the HPPS. All FY 1995 and outyear M-13-00 Milestones will be waived per program optimization to implement remediation. All other 1/25/94 revised TPA Milestones will be met. No additional high priority or ERA sites are identified requiring remediation. The ROD for each OU will establish deliverables and milestones for the defined remediation activities. Remediation activities will be determined by resources available. Written direction will be received from RL to initiate RD/RA activities prior to receipt of a ROD. RAs will concentrate on the groundwater OUs in the 200 Area (200-ZP-1, 200-UP-1, and 200-BP-5). Funding will be available at the beginning of each FY to support work activities.

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**NARRATIVE Continued**

Procurement and subcontracting activities will not impact execution of this plan.

**Supporting Documents(Limit 5 lines or less):**

TPA, CERCLA, RCRA, NEPA, and DOE Orders 4700.1 and 5700.2D.

**Performance Measures(Limit 15 lines or less):**

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

**DESCRIPTION OF REGULATORY DRIVERS**

**CERCLA:**

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

**DESCRIPTION OF REGULATORY DRIVERS Continued**

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DESCRIPTION OF REGULATORY DRIVERS Continued

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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Operations Office: RL ID No.: 3235- 0 Revision Date: 4/24/1994  
 ADS Title: 200 ZP CHAR., ASSESS. AND REMEDIAL ACTION  
 WBS No.: 1.4.10.1.1.17 Category: ER Appr.: D  
 Project Title: 200 ZP Facility/WAG: Z-PLANT  
 Installation: HANFORD-200 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 751242 TEC: 751242  
 Contig: 154420  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: PAK, PM Phone: 509-376-4798  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		DECREMENT	FY96 DRIVER TARGET	CATEGORY PLAN	IMM RISK
OE	9,777	11,074		A	10,784	10,784	10,784	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	9,777	11,074		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	10,784	10,784	10,784	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	10,784
CE	0
GPP	0
LI	0
TOTAL	10,784

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	10,784	6,135	5,915	4,154	4,245
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>10,784</b>	<b>6,135</b>	<b>5,915</b>	<b>4,154</b>	<b>4,245</b>

  

FTEs	FY94	FY95
Direct	44	68
Indirect	37	57
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	75	37	34	22	22
Indirect	63	31	29	18	18
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	10,784	6,135	5,915	4,154	4,245
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>10,784</b>	<b>6,135</b>	<b>5,915</b>	<b>4,154</b>	<b>4,245</b>

  

FTEs	FY94	FY95
Direct	44	68
Indirect	37	57
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	75	37	34	22	22
Indirect	63	31	29	18	18
Federal	0	0	0	0	0

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Budget Detail Profile

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-ZP CHARACTERIZATION AND ASSE							
APPROP: D							
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D
EW2010301	0	0		0	0	0	0
35EW20100	0	0		0	0	0	0
39EW20100	0	0		0	0	0	0
39EW20100	0	0		0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY			
SUB-DESC: C PROGRAM: EM SUBACT: AB				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-ZP REMEDIAL ACTION							
APPROP: D							
			A	10,784	10,784	10,784	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
			D	0	0	0	0
EW2010302	9,777	11,074	E	0	0	0	0
35EW20100	0	0	F	0	0	0	0
39EW20100	0	0	G	0	0	0	0
39EW20100	0	0	H	0	0	0	0
			I	0	0	0	0
<b>TOTAL</b>	<b>9,777</b>	<b>11,074</b>	<b>TOTAL</b>	<b>10,784</b>	<b>10,784</b>	<b>10,784</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	10,784
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>10,784</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	10,784	6,135	5,915	4,154	4,245
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>10,784</b>	<b>6,135</b>	<b>5,915</b>	<b>4,154</b>	<b>4,245</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	10,784	6,135	5,915	4,154	4,245
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>10,784</b>	<b>6,135</b>	<b>5,915</b>	<b>4,154</b>	<b>4,245</b>

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**A106 Cross References**

A106 Number: RA-024	Date: 6/23/92
Title: ER-200-ZP-1 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-069	Date: 6/23/92
Title: ER 200-ZP-2 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:	Date:
Title:	

**FY95-99 ADS Cross References**

ADS #: RL 3235 0  
Title: 200 ZP CHAR. & ASSESS.  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.: Milestone Seq: 3235-00-0005 TPA MS NO.: M-13-04A  
Title: INITIATE PILOT-SCALE PUMP AND TREAT OPERATIONS FOR 200-ZP-1  
Planning Date Target Date Decrement Date Level: HQ Keyword: FW  
2/28/1994 2/28/1994 2/28/1994 PTS: N SMS: Y  
Driver Name: TRI Driver Reference: TPA 1/26/94  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
30 days after an ROD is issued but no sooner than 2/28/94.

**NARRATIVE**

LAST UPDATE: 04-24-1994 TIME: 14:27:53

Technical Scope Summary(Limit 15 line or less):

This activity is the assessment and remediation for the 200-ZP (Z Plant)

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Aggregate Area which includes the 200-ZP-1, 200-ZP-2, and 200-ZP-3 Operable Units (OUs). The 200-ZP-1 OU is a groundwater only OU that underlies the entire extent of the northern portion of the 200 West Area. The other two OUs are source OUs. These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an interim record of decision (IROD) or final record of decision (ROD) for the OUs within this aggregate area. It also includes management, planning, documentation, and implementation of remedial actions (RAs).

Technical Scope Detail(Limit 104 lines or less):

The 200-ZP Aggregate Area is located in the central processing area of the Hanford Site (200 West) and received predominately liquid wastes from Z Plant processing operations. This aggregate area contains no containment structures (i.e., tanks) and is predominantly cribs, ditches, ponds, and spills. The 45 waste management units within this aggregate area contain contaminants consisting predominately of carbon tetrachloride, nitrate, plutonium, trichloroethylene, and chloroform.

The source of contamination within the 200-ZP Aggregate Area is liquid discharges to cribs that have contaminated soil and underlying groundwater in and around the 200 West Area. Process liquid discharges such as those in the 200-ZP-1 OU are the highest priority sites in the 200 Area because these sites have released hazardous substances to the environment (i.e., from the vadose zone to the groundwater).

Assessment and characterization activities as implemented per the Hanford Past-Practice Strategy (HPPS) include efforts to describe the hydrologic settings, and the characteristics, and contents of soil and groundwater, including treatability tests to identify possible remediation methods for the identified contamination on and beneath the 200-ZP Aggregate Area. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, RA alternatives will be analyzed and studied, and a proposed plan will be submitted for development, approval and issuance of a ROD/IROD by the regulatory agencies. The RAs are divided into three main phases: (1) RA design, (2) RA procurement/construction, and (3) RA post monitoring except in the case of clean closure. All identified waste management units will be subject to the RAs process.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

As a result of negotiations with the regulators and subsequent revisions to the TPA in September 1991, an aggregate area management study report (AAMSR) for the Z Plant Aggregate Area was issued in February 1992 (TPA Milestone M-27-03). Additionally, as a result of an agreement signed in October 1990 by the TPA participants, an ERA was initiated in the 200-ZP-1 OU (transitioned to 200-ZP-2 OU in FY 1993) in FY 1991. The action is

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ongoing to remove carbon tetrachloride from the vadose zone such that it does not reach groundwater and reduce future cleanup cost. Additionally, per the Z Plant AAMSR recommendations, the source units from 200-ZP-1 and 200-ZP-2 have been combined into the 200-ZP-2 OU and the groundwater plume containing the carbon tetrachloride placed in the 200-ZP-1 Groundwater OU. In lieu of a work plan, an IRM proposed plan for the 200-ZP-1 OU was prepared and submitted to the regulators in September 1993, meeting TPA Milestone M-13-04.

Current Year: A final IRM Proposed Plan, necessary for the regulators to issue an IROD, was submitted to the regulators on December 31, 1993. The IROD is expected from the regulators in the May-June 1994 time frame. 30 days after receipt of the IROD, initiation of the IRM, in the form of pilot-scale pump and treat activities, will commence at the OU (TPA Milestone M-13-04A). Additionally, a deep characterization borehole will be drilled to determine the vertical extent of groundwater contamination and assess the presence of dense non-aqueous phase liquid. Groundwater monitoring and sampling activities will occur during the FY to support the remedial activities.

The ERA for the extraction of carbon tetrachloride vapor at the 200-ZP-2 OU was resumed at the Z-1A site on November 12, 1993. The Z-9 site resumed operations on February 23, 1994. The Z-1A site will upscale operations to 24 hours/day by April 1, 1994. The Z-9 site will run at 8 hours/day throughout the remainder of the FY. A FY 1994 status report will be issued on September 30, 1994 summarizing VES operations for the year.

Budget Year (FY 1995) Description(Limit 52 lines or less):

200-ZP-1:

IRM activities (commenced in FY 1994) will continue at the 200-ZP-1 OU upscaling throughout the FY to 24 hour/day operations by mid-fiscal year at the 50 gallon/minute treatment rate. [\$952.9K]

Based upon conclusions drawn from the initial operation of the pilot-scale pump and treat plant, a remedial design will be conducted to develop specifications for upscaling pump and treat capacity by adding three 150 gallon/minute treatment systems, utilizing air stripping technology combined with vapor phase granular activated carbon (GAC) containment of volatile contaminants, at 6 month intervals, in order to expedite remediation of the contaminated groundwater. [\$824.3K]

Procurement of the first 150 gallon/minute pump and treat system to be used at the site would take place. [\$520.3K]

Four boreholes would be drilled and the system connected for commencing operations at the beginning of FY 1996. [\$1,514.8K]

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Groundwater sampling activities will continue to assess the status of groundwater clean-up efforts in the contaminated plume. Additionally, sampling activities would be conducted at 'point-of-compliance' locations to assure the plume is not spreading. [\$442.4K]

In-well sparging tests (as outlined in the draft proposed plan) will be conducted to assess the viability of that method for volatile organic removal under Hanford Site specific conditions. [\$2,000K]

200-ZP-2:

Vapor extraction operations at the Carbon Tetrachloride site will be continued at full capacity (3,000 cfm). An estimated 164,000 lbs. of carbon tetrachloride will be removed from the vadose zone. [\$4,054.4K]

Disposal of collected carbon tetrachloride, contained in GAC containers to an off-site vendor will take place. [\$588.2K]

One new extraction well will be drilled to facilitate efficient utilization of the VES systems by concentrating extraction efforts in high contaminate concentration locations. [\$176.5K]

Planning Year (FY 1996) Description(Limit 156 lines or less):

Decrement:

200-ZP-1:

Utilization of the 150 gallon/minute treatment system procured in FY95 will commence. Pump and treat operational capacity will be upgraded to 300 gallon/minute upon mobilization of the second 150 gallon/minute plant by mid-year. Operations will maintain 24 hour/day 7 day/week status. [\$974.8K]

Procurement of the second 150 gallon/minute plant will be completed early in the FY. Procurement of the third 150 gallon/minute plant will be initiated and completed at FY's end. [\$1,064.6K]

Eight boreholes would be installed and the additional pump and treat units connected to the well field and to the treatment plant. [\$3,099.4K]

A report detailing the results of the initial phase of the IRM would be prepared and issued for use in planning and conducting future operations. [\$339K]

Groundwater monitoring of the plume will continue to assess contaminate migration and monitor effectiveness of pump and treat operations. Additional monitoring at 'point-of-compliance' wells would be conducted. [\$535.9K]

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200-ZP-2:

Full scale CCl<sub>4</sub> vapor extraction efforts will continue at 200-ZP-2 utilizing the three existing VES systems (3,000 cfm) at a 24 hour/day 7 day/week status. An estimated 130,000 lbs. of carbon tetrachloride will be removed from the vadose zone. [\$3,987.8K]

Disposal of collected carbon tetrachloride, contained in GAC containers to an off-site vendor will take place. [\$601.7K]

One new extraction well will be drilled to facilitate efficient utilization of the VES systems by concentrating extraction efforts in high contaminate concentration locations. [\$180.5K]

Target: No difference between decrement and target.

Planning: No difference between target and planning.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

Pump and treat operations at the 200-ZP-1 IRM will continue and include the installation of the third 150 gallon/minute treatment plant, procured in FY 1996, increasing treatment capability to 450 gallon/minute. Semiannual groundwater monitoring activities will continue.

Vapor extraction operations at 200-ZP-2 will begin to down-scale in the later portion of the planning window with intermittent operating periods of the VES systems being utilized to allow rebounding of the system. Status reports on both the ZP-1 IRM and 200-ZP-2 Vapor Extraction Site CCl<sub>4</sub> will be issued at FY's end.

Impacts/Assumptions(Limit 42 lines or less):

Impacts: No impacts from decrement to target to planning case.

Subproject Specific Assumptions: Final RODs for each OU have not yet been defined, but are assumed to be pump and treat technology as the preferred remedial alternative for 200-ZP-1 and vapor extraction with existing equipment for 200-ZP-2. An IROD for the 200-ZP-1 and 200-ZP-2 OUs will be issued in FY 1994.

Overall Planning Assumptions: The HRA-EIS will provide resolution of issues concerning future land use of the Hanford Site, such that ER work can proceed without impacts.

The ERC will not have an impact on assessment and RAs; no cost or schedule impacts will result from implementation of NRDA; current technologies will be available to support remediation needs; infrastructure will be in place

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to support all activities; all field activities will be conducted in accordance with existing Hanford practices and bargaining agreements.

A near-term disposal trench will be available in FY 1995 for limited ER Program wastes. There will be no waste disposal costs levied against the ER Program. The ERDF will be available to accept ER Program waste at the beginning of FY 1997. There will be no waste disposal costs levied against the ER Program.

Characterization activities are per the HPPS: all FY 1995 and outyear M-13-00 and M-15-00 Milestones will be waived or deferred per program optimization to implement remediation. All other 1/25/94 revised TPA Milestones will be met. No additional high priority or ERA sites are identified requiring remediation.

The ROD for each OU will establish deliverables and milestones for the defined remediation activities. Remediation activities will be determined by resources available. Written direction will be received from RL to initiate RD/RA activities prior to receipt of a ROD. RAs will concentrate on the groundwater OUs in the 200 Area (200-ZP-1, 200-UP-1, and 200-BP-5). Funding will be available at the beginning of each FY to support work activities. Procurement and subcontracting activities will not impact execution of this plan.

**Supporting Documents(Limit 5 lines or less):**

TPA, CERCLA, RCRA, NEPA, and DOE Orders 4700.1 and 5700.2D.

**Performance Measures(Limit 15 lines or less):**

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

DESCRIPTION OF REGULATORY DRIVERS Continued

Environmental Management  
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DESCRIPTION OF REGULATORY DRIVERS Continued

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCEA Section 3004U.

DESCRIPTION OF REGULATORY DRIVERS Continued

Environmental Management  
FY96 Field Submission  
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Time: 12:25

DESCRIPTION OF REGULATORY DRIVERS Continued

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

Environmental Management  
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Page: 1  
 RL-3240-0 - Date: 6/01/1994 Time: 12:25

Operations Office: RL ID No.: 3240- 0 Revision Date: 4/23/1994  
 ADS Title: 200 IU CHARACTERIZATION AND ASSESSMENT  
 WBS No.: 1.4.10.1.1.18 Category: ER Appr.: D  
 Project Title: 200 IU Facility/WAG: ISOLATED OPERABLE UNITS  
 Installation: HANFORD-200 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 1185851 TEC: 1185851  
 Contig: 296243  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: PAK, PM Phone: 509-376-4798  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			IMM RISK
					DECREMENT	TARGET	PLAN	
OE	0	0		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	0	0		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	0	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	0
CE	0
GPP	0
LI	0
TOTAL	0

Environmental Management  
 FY96 Field Submission  
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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

Environmental Management  
 FY96 Field Submission  
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**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-IU CHARACTERIZATION AND ASSE							
APPROP: D							
			A	0	0	0	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
			D	0	0	0	0
EW2010301	0	0	E	0	0	0	0
35EW20100	0	0	F	0	0	0	0
39EW20100	0	0	G	0	0	0	0
39EW20100	0	0	H	0	0	0	0
			I	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



Environmental Management  
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**A106 Cross References**

A106 Number: RA-064  
Title: ER 200-IU-3 RI/FS  
Federal Facility Identification:  
Region:  
Status:

Date: 6/23/92

Assessment:  
Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:  
Title:

Date:

**FY95-99 ADS Cross References**

ADS #: RL 3240 0  
Title: 200 IU CHAR. & ASSESS.  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.:	Milestone Seq:	TPA MS NO.:
Title:		
Planning Date	Target Date	Decrement Date
		Level:
		PTS:
Driver Name:	Driver Reference:	Keyword:
PRESENT IN	Tiger Team:	SMS:
	Roadmap:	Program Execution Guidance:
	Current Year Workplan:	Safety and Health:
Description:		

**NARRATIVE**

LAST UPDATE: 04-24-1994 TIME: 14:27:11

**Technical Scope Summary(Limit 15 line or less):**

This activity is the assessment and remediation for the 200 IU (Isolated Units) which includes the 200-IU-1, 200-IU-2, 200-IU-3, 200-IU-4, 200-IU-5, and 200-IU-6 Operable Units (OUs). These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an interim record of decision (IROD) or final record of decision

**NARRATIVE Continued**

Environmental Management  
FY96 Field Submission  
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Date: 6/01/1994 Time: 12:27

~~NARRATIVE Continued~~

(ROD) for the OUs within this aggregate area. It also includes management, planning, documentation, and implementation of remedial actions. The 200-IU OUs are located on the Hanford Site as isolated sites outside the boundaries of the 200 East and 200 West Area and received liquid and solid wastes from various Hanford activities. The OUs contain no containment structures (i.e., tanks) and is predominantly septic tanks, landfills, and ponds. The 34 waste management units within this aggregate area contain landfill and septic tank waste from historic Hanford operations, and other unknown wastes from various sources.

Technical Scope Detail(Limit 104 lines or less):

This activity is the assessment and remediation for the 200 IU which includes the 200-IU-1, 200-IU-2, 200-IU-3, 200-IU-4, 200-IU-5, and 200-IU-6 OUs. These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an IROD or final ROD for the OUs within this aggregate area. It also includes management, planning, documentation, and implementation of remedial actions.

The 200-IU OUs are located on the Hanford Site as isolated sites outside the boundaries of the 200 East and 200 West Area and received liquid and solid wastes from various Hanford activities. The OUs contain no containment structures (i.e., tanks) and is predominantly septic tanks, landfills, and ponds. The 34 waste management units within this aggregate area contain landfill and septic tank waste from historic Hanford operations, and other unknown wastes from various sources.

The six isolated OUs of the type described here are considered to have a low probability for contaminating groundwater in and around the 200 Area. For this reason, these OUs appear to be lower priority sites in the 200 Area.

Assessment and characterization activities include efforts to describe the hydrologic settings, and the characteristics, contents, and the extent of the contamination on and beneath the six isolated OUs. Upon approval of workscope from the regulators, sampling and analysis activities that will occur in the aggregate area include the surface and vadose zone. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, remedial actions alternatives will be analyzed and studied, and a proposed plan will be submitted for development, approval and issuance of a ROD by the regulatory agencies. The remedial actions is divided into three main phases; (1) remedial actions design, (2) remedial actions procurement/construction, and (3) remedial actions post monitoring except in the case of clean closure. The first 15 months of remedial actions is currently assumed as being solely design related activities. All identified waste management units will be subject to the remedial actions process.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

~~NARRATIVE Continued~~

Environmental Management  
FY96 Field Submission  
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~~NARRATIVE Continued~~

To date, no activities have been conducted at the subproject OUs.

Budget Year (FY 1995) Description(Limit 52 lines or less):

There are no activities planned in this ADS during FY 1995.

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

Planning Year (FY 1996) Description(Limit 156 lines or less):

There are no activities planned in this ADS during FY 1996.

Please see statement under Budget Year (FY 1995) Description.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

There are no activities planned in this ADS during FY 1997-FY 2000.

Please see statement under Budget Year (FY 1995) Description.

Impacts/Assumptions(Limit 42 lines or less):

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

Supporting Documents(Limit 5 lines or less):

None.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

Environmental Management  
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DESCRIPTION OF REGULATORY DRIVERS

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

DESCRIPTION OF REGULATORY DRIVERS Continued

Environmental Management  
FY96 Field Submission  
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DESCRIPTION OF REGULATORY DRIVERS Continued

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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DESCRIPTION OF REGULATORY DRIVER CONTAINED

TRI:  
All subject activities are affected by the TMA, an agreement and  
schedule between DOE, EPA, and Ecology for the cleanup of the past  
practice waste sites at Hanford.

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Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

RL-3245-0 -

Page: 1  
 Date: 6/01/1994 Time: 12:27

Operations Office: RL ID No.: 3245- 0 Revision Date: 4/22/1994  
 ADS Title: 200 SS CHARACTERIZATION AND ASSESSMENT  
 WBS No.: 1.4.10.1.1.19 Category: ER Appr.: D  
 Project Title: 200 SS Facility/WAG: SUPPORT SERVICES  
 Installation: HANFORD-200 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 177535 TEC: 177535  
 Contig: 44350  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: PAK, PM Phone: 509-376-4798  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR	DECREMENT	FY96 DRIVER CATEGORY			IMM RISK
					TARGET	PLAN		
OE	0	0		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	0	0		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	0	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	0
CE	0
GPP	0
LI	0
TOTAL	0

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 FY96 Field Submission  
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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

  

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

  

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

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 Date: 6/01/1994 Time: 12:27

**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-SS CHARACTERIZATION AND ASSE							
APPROP: D							
			A	0	0	0	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
				D	0	0	0
EW2010301	0	0		E	0	0	0
35EW20100	0	0		F	0	0	0
39EW20100	0	0		G	0	0	0
39EW20100	0	0		H	0	0	0
				I	0	0	0
TOTAL	0	0		TOTAL	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
TOTAL	0

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	0	0	0	0	0

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	0	0	0	0	0

Environmental Management  
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**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY			
SUB-DESC: C PROGRAM: EM SUBACT: AB				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-SS REMEDIAL ACTION							
APPROP: D							
			A	0	0	0	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
			D	0	0	0	0
EW2010302	0	0	E	0	0	0	0
35EW20100	0	0	F	0	0	0	0
39EW20100	0	0	G	0	0	0	0
39EW20100	0	0	H	0	0	0	0
			I	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Environmental Management  
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Date: 6/01/1994

Page: 5  
Time: 12:28

**A106 Cross References**

A106 Number:

Date:

Title:

Federal Facility Identification:

Region:

Assessment:

Status:

Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:

Date:

Title:

**FY95-99 ADS Cross References**

ADS #: RL 3245 0

Title: 200 SS CHAR. & ASSESS.

Transferred in its entirety: Y

Explanation of Change:

NO CHANGE

**MILESTONES**

Milestone No.:

Milestone Seq:

TPA MS NO.:

Title:

Planning Date

Target Date

Decrement Date

Level:

Keyword:

PTS:

SMS:

Driver Name:

Driver Reference:

PRESENT IN

Tiger Team:

Program Execution Guidance:

Roadmap:

Current Year Workplan:

Safety and Health:

Description:

**NARRATIVE**

LAST UPDATE: 04-24-1994 TIME: 14:26:12

Technical Scope Summary(Limit 15 line or less):

This activity is the assessment and remediation for the 200-SS (Support Services) waste units which includes the 200-SS-1 and 200-SS-2 Operable Units (OUs). These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an interim record of decision (IROD) or final record of decision (ROD) for the OUs

~~NARRATIVE Continued~~

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

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~~NARRATIVE Continued~~

within this aggregate area. It also includes management, planning, documentation, and implementation of remedial actions. The 200-SS OUs are located in the central processing area of the Hanford Site (200 East and 200 West) and received various types of wastes from the support service operations such as the 200 East and 200 West powerhouses and septic tanks associated with facilities. The OUs contains no containment structures (i.e., tanks). The 20 waste management units within this aggregate area contain ash pit, burning pit, and septic tanks wastes from historic support service operations.

Technical Scope Detail(Limit 104 lines or less):

This activity is the assessment and remediation for the 200-SS waste units which includes the 200-SS-1 and 200-SS-2 OUs. These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an IROD or final ROD for the OUs within this aggregate area. It also includes management, planning, documentation, and implementation of remedial actions.

The 200-SS OUs are located in the central processing area of the Hanford Site (200 East and 200 West) and received various types of wastes from the support service operations such as the 200 East and 200 West powerhouses and septic tanks associated with facilities. The OUs contains no containment structures (i.e., tanks). The 20 waste management units within this aggregate area contain ash pit, burning pit, and septic tanks wastes from historic support service operations.

The two OUs described here are considered to have a low probability for contaminating groundwater in and around the 200 Area. For this reason these OUs appear as lower priority sites in the 200 Area.

Assessment and characterization activities include efforts to describe the hydrologic settings, and the characteristics, contents, and extent of contamination on and beneath the two site services OUs. Upon approval of the workscope from the regulators, sampling and analysis will occur on and beneath the aggregate area including the surface, vadose zone, and groundwater. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, remedial actions will be analyzed and studied, and a proposed plan will be submitted for development, approval and issuance of a ROD by the regulatory agencies. The remedial actions is divided into three main phases: (1) remedial actions design, (2) remedial actions procurement/construction, and (3) remedial actions post monitoring except in the case of clean closure. The first 15 months of remedial actions is currently assumed to be design related activities. All identified waste management units will be subject to the remedial actions process.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

To date, no activities have been conducted at the subject OUs.

~~NARRATIVE Continued~~

Environmental Management  
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RL-3245-0 -

Date: 6/01/1994

Page: 7  
Time: 12:28

~~NARRATIVE Continued~~

Budget Year (FY 1995) Description(Limit 52 lines or less):

There are no activities planned in this ADS during FY 1995.

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

Planning Year (FY 1996) Description(Limit 156 lines or less):

There are no activities planned in this ADS during FY 1996.

Please see statement under Budget Year (FY 1995) Description.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

There are no activities planned in this ADS during FY 1997-FY 2000.

Please see statement under Budget Year (FY 1995) Description.

Impacts/Assumptions(Limit 42 lines or less):

In accordance with the TPA Agreement-in-Principle signed on 9/30/93, the ER workscope is being evaluated and potentially modified to include regulator and stakeholder values and priorities. This is being accomplished through the Optimized Baseline Project process and documented in this submittal of the Five-Year Plan. As a result of this process, priority is being given to OUs along the Columbia River in the 100 and 300 Areas, and groundwater in the 200 Areas. Workscope in this ADS will be addressed in the timeframe following FY 2000.

Supporting Documents(Limit 5 lines or less):

None.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

DESCRIPTION OF REGULATORY DRIVERS Continued

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

RL-3245-0 -

Date: 6/01/1994

Page: 8  
Time: 12:28

~~DESCRIPTION OF REGULATORY DRIVERS Continued~~

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

~~DESCRIPTION OF REGULATORY DRIVERS Continued~~

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

RL-3245-0 -

Date: 6/01/1994

Page:

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Time:

12:28

DESCRIPTION OF REGULATORY DRIVERS Continued

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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DESCRIPTION OF REGULATORY DELIVERIES CONTINUED

181  
All subsequent activities are affected by the TFA, an agreement and  
schedule between DOE, EPA, and Ecology for the cleanup of the past  
practice waste sites at Hanford.

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Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

Page: 1  
 RL-3250-0 - Date: 6/01/1994 Time: 12:28

Operations Office: RL ID No.: 3250- 0 Revision Date: 4/22/1994  
 ADS Title: 200 EGW CHAR., ASSESS. AND REMEDIAL ACTION  
 WBS No.: 1.4.10.1.1.20 Category: ER Appr.: D  
 Project Title: 200 EGW Facility/WAG: EGW  
 Installation: HANFORD-200 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 0 TEC: 0  
 Contig: 0  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: PAK, PM Phone: 509-376-4798  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			IMM RISK
					DECREMENT	TARGET	PLAN	
OE	0	0		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	0	0		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	0	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	0
CE	0
GPP	0
LI	0
TOTAL	0

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet.

RL-3250-0 -

Page: 2  
 Date: 6/01/1994 Time: 12:28

TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

  

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

  

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

Page: 3  
 RL-3250-0 - Date: 6/01/1994 Time: 12:28

**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY				
SUB-DESC: A PROGRAM: EM SUBACT: AA				DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: 200-EAST GROUNDWATER CHARACTERIZ								
APPROP: D								
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D	E
EW2010301	0	0		0	0	0	0	0
35EW20100	0	0		0	0	0	0	0
39EW20100	0	0		0	0	0	0	0
39EW20100	0	0		0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



Environmental Management  
FY96 Field Submission  
Activity Data Sheet

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Time: 12:29

**A106 Cross References**

A106 Number: \_\_\_\_\_ Date: \_\_\_\_\_  
Title: \_\_\_\_\_  
Federal Facility Identification: \_\_\_\_\_  
Region: \_\_\_\_\_ Assessment: \_\_\_\_\_  
Status: \_\_\_\_\_ Progress: \_\_\_\_\_

**Tiger Team Cross References**

Tiger Team Finding Number: \_\_\_\_\_ Date: \_\_\_\_\_  
Title: \_\_\_\_\_

**FY95-99 ADS Cross References**

ADS #: RL 3250 0  
Title: 200 EGW CHAR. & ASSESS.  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.:	Milestone Seq:	TPA MS NO.:
Title:		
Planning Date	Target Date	Decrement Date
		Level: Keyword:
		PTS: SMS:
Driver Name:	Driver Reference:	
PRESENT IN	Tiger Team: Program Execution Guidance:	
	Roadmap: Current Year Workplan: Safety and Health:	
Description:		

**NARRATIVE**

LAST UPDATE: 04-24-1994 TIME: 14:25:16

**Technical Scope Summary(Limit 15 line or less):**

Groundwater in the 200 Areas has been maintained in separate groundwater only Operable Units (OUs). The assumption is that the 200 West Area groundwater OUs are the 200-UP-1 OU (ADS 3230) and the 200-ZP-1 OU (ADS 3235), while the 200 East Area groundwater OUs are the 200-BP-8 OU (ADS 3200) and the 200-PO-1 OU (ADS 3210). All scope and associated budget estimates for 200 Area groundwater are reflected within these OUs.

**NARRATIVE Continued**

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

RL-3250-0 -

Date: 6/01/1994

Page: 6  
Time: 12:29

~~NARRATIVE Continued~~

This approach, which was also followed the last two years, is consistent with the Hanford ER Baseline documentation which has been reviewed with Headquarters.

Technical Scope Detail(Limit 104 lines or less):

See under Technical Scope Summary.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

See under Technical Scope Summary.

Budget Year (FY 1995) Description(Limit 52 lines or less):

See under Technical Scope Summary.

Planning Year (FY 1996) Description(Limit 156 lines or less):

See under Technical Scope Summary.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

See under Technical Scope Summary.

Impacts/Assumptions(Limit 42 lines or less):

See under Technical Scope Summary.

Supporting Documents(Limit 5 lines or less):

See under Technical Scope Summary.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

DESCRIPTION OF REGULATORY DRIVERS Continued

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

RL-3250-0 -

Date: 6/01/1994

Page: 7

Time: 12:29

DESCRIPTION OF REGULATORY DRIVERS Continued

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

DESCRIPTION OF REGULATORY DRIVERS Continued

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

RL-3250-0 -

Date: 6/01/1994

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Time: 12:29

DESCRIPTION OF REGULATORY DRIVERS Continued

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

RL-3255-0 -

Page: 1  
 Date: 6/01/1994 Time: 12:29

Operations Office: RL ID No.: 3255- 0 Revision Date: 4/22/1994  
 ADS Title: 200 WGW CHARACTERIZATION AND ASSESSMENT  
 WBS No.: 1.4.10.1.1.21 Category: ER Appr.: D  
 Project Title: 200 WGW Facility/WAG: WGW  
 Installation: HANFORD-200 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 0 TEC: 0  
 Contig: 0  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: PAK, PM Phone: 509-376-4798  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	FY96 DRIVER CATEGORY			
					DECREMENT	TARGET	PLAN	IMM RISK
OE	0	0		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	0	0		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	0	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	0
CE	0
GPP	0
LI	0
TOTAL	0

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

RL-3255-0 -

Date: 6/01/1994

Page: 2  
 Time: 12:30

TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

  

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

  

FTEs	FY94	FY95
Direct	0	0
Indirect	0	0
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

Page: 3  
 RL-3255-0 - Date: 6/01/1994 Time: 12:30

**Budget Detail Profile**

DESC: RCRA/CERCLA					FY96 DRIVER CATEGORY				
SUB-DESC: A PROGRAM: EM SUBACT: AA					DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: 200-WEST GROUNDWATER CHARACTERIZ									
APPROP: D									
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	0	0	0	0	0
				B	0	0	0	0	0
				C	0	0	0	0	0
				D	0	0	0	0	0
				E	0	0	0	0	0
				F	0	0	0	0	0
				G	0	0	0	0	0
				H	0	0	0	0	0
				I	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

Page: 4  
 RL-3255-0 - Date: 6/01/1994 Time: 12:30

**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY			
SUB-DESC: C PROGRAM: EM SUBACT: AB				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200-WEST GROUNDWATER REMEDIAL AC							
APPROP: D							
			A	0	0	0	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
			D	0	0	0	0
EW2010302	0	0	E	0	0	0	0
35EW20100	0	0	F	0	0	0	0
39EW20100	0	0	G	0	0	0	0
39EW20100	0	0	H	0	0	0	0
			I	0	0	0	0
TOTAL	0	0	TOTAL	0	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	0
35EW20100	0
39EW20100	0
39EW20100	0
TOTAL	0

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	0	0	0	0	0

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	0	0	0	0	0

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

RL-3255-0 - Date: 6/01/1994 Page: 5  
Time: 12:30

**A106 Cross References**

A106 Number: \_\_\_\_\_ Date: \_\_\_\_\_  
Title: \_\_\_\_\_  
Federal Facility Identification: \_\_\_\_\_  
Region: \_\_\_\_\_ Assessment: \_\_\_\_\_  
Status: \_\_\_\_\_ Progress: \_\_\_\_\_

**Tiger Team Cross References**

Tiger Team Finding Number: \_\_\_\_\_ Date: \_\_\_\_\_  
Title: \_\_\_\_\_

**FY95-99 ADS Cross References**

ADS #: RL 3255 0  
Title: 200 WGW CHAR. & ASSESS.  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.:	Milestone Seq:	TPA MS NO.:
Title:		
Planning Date	Target Date	Decrement Date
		Level:
		PTS:
Driver Name:	Driver Reference:	Keyword:
PRESENT IN	Tiger Team:	Program Execution Guidance:
	Roadmap:	Current Year Workplan:
		Safety and Health:
Description:		

**NARRATIVE**

LAST UPDATE: 04-24-1994 TIME: 14:24:35

**Technical Scope Summary(Limit 15 line or less):**

Groundwater in the 200 Areas has been maintained in separate groundwater only Operable Units (OUs). The Assumption is that the 200 West Area groundwater OUs are the 200-UP-1 OU (ADS 3230) and the 200-ZP-1 OU (ADS 3235), while the 200 East Area groundwater OUs are the 200-BP-8 OU (ADS 3200) and the 200-PO-1 OU (ADS 3210). All scope and associated budget estimates for 200 Area groundwater are reflected within these OUs.

NARRATIVE Continued

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

RL-3255-0 - Date: 6/01/1994 Page: 6  
Time: 12:30

NARRATIVE Continued

This approach, which was also followed the last two years, is consistent with the Hanford ER Baseline documentation which has been reviewed with Headquarters.

Technical Scope Detail(Limit 104 lines or less):

See under Technical Scope Summary.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

See under Technical Scope Summary.

Budget Year (FY 1995) Description(Limit 52 lines or less):

See under Technical Scope Summary.

Planning Year (FY 1996) Description(Limit 156 lines or less):

See under Technical Scope Summary.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

See under Technical Scope Summary.

Impacts/Assumptions(Limit 42 lines or less):

See under Technical Scope Summary.

Supporting Documents(Limit 5 lines or less):

See under Technical Scope Summary.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

DESCRIPTION OF REGULATORY DRIVERS Continued

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

RL-3255-0 -

Date: 6/01/1994

Page: 7  
Time: 12:30

DESCRIPTION OF REGULATORY DRIVERS Continued

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

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Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

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Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

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RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

DESCRIPTION OF REGULATORY DRIVERS Continued

Environmental Management  
FY96 Field Submission  
Activity Data Sheet

RL-3255-0 -

Date: 6/01/1994

Page: 8  
Time: 12:30

DESCRIPTION OF REGULATORY DRIVERS Continued

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

Environmental Management  
 FY96 Field Submission  
 Activity Data Sheet

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Operations Office: RL ID No.: 3300- 0 Revision Date: 4/22/1994  
 ADS Title: 300 FF CHAR., ASSESS. AND REMEDIAL ACTION  
 WBS No.: 1.4.10.1.1.22 Category: ER Appr.: D  
 Project Title: 300 FF Facility/WAG: 300 AREA FUEL FABRICATION  
 Installation: HANFORD-300 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 1272867 TEC: 1272867  
 Contig: 276976  
 CNTR Manager: DOWNEY, HD Phone: 509-376-0568  
 O.O. Manager: MCLEOD, RG Phone: 509-372-0096  
 H.Q. Manager: TREICHEL, L Phone: 301-903-8177  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR	FY96 DRIVER CATEGORY	FY96 DRIVER CATEGORY		IMM RISK	
					DECREMENT	TARGET		
OE	3,827	6,687		A	4,111	4,111	6,236	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	3,827	6,687		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	4,111	4,111	6,236	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	4,111
CE	0
GPP	0
LI	0
TOTAL	4,111

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	4,111	12,161	13,504	16,336	39,531
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>4,111</b>	<b>12,161</b>	<b>13,504</b>	<b>16,336</b>	<b>39,531</b>

FTEs	FY94	FY95			
Direct	29	42			
Indirect	24	35			
Federal	0	0			
FTEs	FY96	FY97	FY98	FY99	FY00
Direct	24	57	70	52	137
Indirect	20	48	59	44	115
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	6,236	14,938	18,463	27,494	50,453
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>6,236</b>	<b>14,938</b>	<b>18,463</b>	<b>27,494</b>	<b>50,453</b>

FTEs	FY94	FY95			
Direct	29	42			
Indirect	24	35			
Federal	0	0			
FTEs	FY96	FY97	FY98	FY99	FY00
Direct	38	70	90	75	182
Indirect	32	59	76	63	153
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 300-FF CHARACTERIZATION AND ASSE									
APPROP: D									
					A	0	0	2,125	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW2010301	3,801	3,897			E	0	0	0	0
35EW20100	0	0			F	0	0	0	0
39EW20100	0	0			G	0	0	0	0
39EW20100	0	0			H	0	0	0	0
					I	0	0	0	0
<b>TOTAL</b>	<b>3,801</b>	<b>3,897</b>			<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>2,125</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	2,125	280	50	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>2,125</b>	<b>280</b>	<b>50</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: C PROGRAM: EM SUBACT: AB						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 300-FF REMEDIAL ACTION									
APPROP: D									
					A	4,111	4,111	4,111	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW2010302	26	2,790			E	0	0	0	0
35EW20100	0	0			F	0	0	0	0
39EW20100	0	0			G	0	0	0	0
39EW20100	0	0			H	0	0	0	0
					I	0	0	0	0
<b>TOTAL</b>	<b>26</b>	<b>2,790</b>			<b>TOTAL</b>	<b>4,111</b>	<b>4,111</b>	<b>4,111</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	4,111
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>4,111</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	4,111	12,161	13,504	16,336	39,531
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>4,111</b>	<b>12,161</b>	<b>13,504</b>	<b>16,336</b>	<b>39,531</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	4,111	14,658	18,413	27,494	50,453
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>4,111</b>	<b>14,658</b>	<b>18,413</b>	<b>27,494</b>	<b>50,453</b>

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**A106 Cross References**

A106 Number: RA-013	Date: 6/23/92
Title: ER-300-FF-1 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-014	Date: 6/23/92
Title: ER-300-FF-5 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-038	Date: 6/23/92
Title: ER-300-FF-3 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-070	Date: 6/23/92
Title: ER 300-FF-2 RI/FS	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:	Date:
Title:	

**FY95-99 ADS Cross References**

ADS #: RL 3300 0  
Title: 300 FF CHAR. & ASSESS. AND RA  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

ADS #: RL 3400 0  
Title: PROGRAM MANAGEMENT AND SUPPORT  
Transferred in its entirety: N  
Explanation of Change:  
REMIEDIATION EQUIPMENT FOR THE 300 AREA HAS BEEN MOVED FROM ADS 3400 TO ADS 3300.  
TARGET CASE RESOURCES MOVED ARE: FY95:\$0, FY96:\$0, FY97:\$1,061K, FY98:\$954K,  
FY99:\$4,157K, FY00:\$4,277K

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MILESTONES

Milestone No.: Milestone Seq: 3300-00-0005 TPA MS NO.: M-15-03B  
Title: SUBMIT 300-FF-1 DRAFT RI 2 REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
12/15/1993 12/15/1993 12/15/1993 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA 6/20/90  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: Y Current Year Workplan: Y Safety and Health: N  
Description:  
Soil Washing Treatability Test Report.

Milestone No.: Milestone Seq: 3300-00-0010 TPA MS NO.: M-15-03C  
Title: SUBMIT 300-FF-1 DRAFT FS PHASE 3 REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
8/15/1994 8/15/1994 8/15/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: Y Current Year Workplan: N Safety and Health: N  
Description:

Milestone No.: Milestone Seq: 3300-00-0050 TPA MS NO.: M-13-08  
Title: SUBMIT THE 300-FF-2 OU DRAFT LFI WORK PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: SA  
11/30/1994 11/30/1994 11/30/1994 PTS: N SMS: Y  
Driver Name: TRI Driver Reference: TPA 1/26/94  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

Milestone No.: Milestone Seq: 3300-00-0020 TPA MS NO.: NONE  
Title: SUBMIT 300-FF-1 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
12/31/1994 12/31/1994 12/31/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

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Milestone No.: Milestone Seq: 3300-00-0015 TPA MS NO.: M-15-04  
Title: SUBMIT COMBINED 300-FF-5 DRAFT RI 2/FS 3 REPORT TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
1/31/1995 1/31/1995 1/31/1995 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

Milestone No.: Milestone Seq: 3300-00-0030 TPA MS NO.:  
Title: SUBMIT 300-FF-5 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
5/30/1995 5/30/1995 5/30/1995 PTS: N SMS: N  
Driver Name: TRI Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

Milestone No.: Milestone Seq: 3300-00-0065 TPA MS NO.: NONE  
Title: SUBMIT 300-FF-2 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
3/31/1996 3/31/1996 3/31/1996 PTS: N SMS: N  
Driver Name: TRI Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
For northern portion of 300-FF-2 near FFTF.

Milestone No.: Milestone Seq: 3300-00-0060 TPA MS NO.: NONE  
Title: SUBMIT 300-FF-2 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
12/31/1996 12/31/1996 12/31/1996 PTS: N SMS: N  
Driver Name: TRI Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
For non-TRU accessible burial grounds within 300-FF-2.

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Milestone No.: Milestone Seq: 3300-00-0045 TPA MS NO.: NONE  
Title: SUBMIT A 300-FF-2 DRAFT IRM PROPOSED PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
3/31/1998 3/31/1998 3/31/1998 PTS: N SMS: N  
Driver Name: TRI Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
For 618-10 and 618-11 Burial Grounds.

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:23:53

Technical Scope Summary(Limit 15 line or less):

This activity is the assessment and remediation for the 300 Area which includes the 300-FF-1, 300-FF-2, and 300-FF-5 Operable Units (OUs). The 300-FF-5 OU is a groundwater only OU that underlies the entire extent of the 300 Area, the other OUs are source with the exception of groundwater monitoring activities, as yet to be determined, in the newly activated 300-FF-2 OU, 1/94 revised TPA. These OUs are being assessed and will be remediated under CERCLA. The activity includes the management, planning, investigation, alternatives selection, and documentation required to reach an interim record of decision (IROD) or final record of decision (ROD) for the OUs within this aggregate area. It also includes management, planning, documentation, and implementation of remedial actions (RAs).

Technical Scope Detail(Limit 104 lines or less):

The 300 Area is located in the southwestern portion of the Site and contains soil and groundwater contamination resulting primarily from fuel fabrication operations. This aggregate area is predominantly cribs, ditches, trenches, ponds, and spills. The 91 waste management units within the 300 Area contain contaminants consisting predominately of uranium, chromium, and other contaminants resulting from the manufacturing of 100 Area reactor fuel. It has been determined that the groundwater underlying the 300 Area is contaminated with uranium. The source of the contamination is suspected to be principally the result of liquid disposal operations in the 300-FF-1 OU with secondary sources in the 300-FF-2 OU. The 300-FF-1 (source) and 300-FF-5 (groundwater) OUs are the highest priority in the 300 Area and were the second and third work plans (WPs) approved at the Site because of the groundwater contamination reaching the nearby Columbia River.

Assessment and characterization activities as implemented per the Hanford

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Past-Practice Strategy (HPPS) include efforts to describe the hydrologic setting, characteristics, and contents of soil and groundwater, including treatability tests (TTs) to identify possible remediation methods for the identified contamination on and beneath the 300 Area. After sufficient information has been collected and analyzed to describe the extent and possible migration of the contaminants, RA alternatives will be analyzed and studied, and a proposed plan will be submitted for development, approval, and issuance of a ROD by the regulatory agencies. The RAs are divided into three main phases: (1) RAs design, (2) RAs procurement/construction, and (3) RAs post monitoring except in the case of clean closure. All identified waste management units will be subject to the RAs process.

**Act. Comp. to Date/Current Year (FY 1994) Desc. (Limit 52 lines or less):**

The 300-FF-1 and 300-FF-5 WPs have been issued, RI/FS activities commenced and two ERAs completed. The 300-FF-1 and 300-FF-5 WPs were initiated in FY89. The WP for 300-FF-1 was submitted for review in 3/89, completing TPA Milestone M-12-03. The WP for 300-FF-5 was submitted in 9/89, completing TPA Milestone M-12-04. The 300-FF-1 and 300-FF-5 WPs were approved in 6/90. Characterization activities at both OUs were initiated in FY90. At the end of FY92 (for both the 300-FF-1 and 300-FF-5 OUs), all Phase 1 field data acquisition activities, including source sampling and analysis, surface/near surface soil sampling/analysis, vadose zone soil sampling and analysis, groundwater sampling and analysis, topographic mapping, biotic surveys, geophysical surveys, river bank spring sampling, and hydraulic pump tests were completed. Also, for 300-FF-1, the RI Phase 1 report (M-15-03-T1) and FS Phase 1 and 2 report (M-15-03A) were issued on 9/15/92. The 300-FF-5 FS Phase 1 & 2 report (M-15-04A) and RI Phase 1 report (M-15-04T1) were submitted 7/14/93. Remediation of well 399-1-16C was completed in FY93 in the 300-FF-5 OU. As a result of an agreement signed in 10/90 by the Tri-Parties, an ERA was initiated at the 300 Area Process Trenches (in the 300-FF-1 OU) and another at the 618-9 Burial Grounds (in the 300-FF-2 OU). Both ERAs were removal actions and have been completed. At the 300 Area Process Trenches, soils containing heavy metals were removed from the base of the trench so that water flowing into the trenches would not carry the contaminants through the soil to the groundwater. At the 618-9 Burial Ground, 120 drums (42 of which still contained liquid hexone) were removed from the trench to prevent leakage into the soil and potentially to the groundwater. A third ERA, at the 618-11 Burial Ground in the 300-IU-1 OU was initiated in 10/92. Based on findings contained within the EE/CA report for the ERA, it was agreed to by all parties in the 9/30/93 TPA AIP that remediation of the 618-11 Burial Ground will be addressed as part of remediation activities for the 300-FF-2 OU. It was also agreed that the 300 Area, exclusive of 300-FF-1 and 300-FF-5, would be combined into one OU, 300-FF-2, and a WP would be issued in FY95 (TPA Milestone M-13-08). A soil TT was conducted at the 300-FF-1 OU to determine if heavy metals, principally uranium, can be removed from the soils and concentrated to reduce volumes of waste requiring disposal. A soil washing system was

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acquired and two physical separations soil TTs were performed in FY93. The 300-FF-1 RI Phase 2 report - Soil Washing TT Report (M-15-03B) was submitted on 12/15/93 summarizing results of the limited physical separation test.

Current Year: A vendor soil washing test is scheduled to be performed in 3/94 and run for approximately one month. Based on the cumulative results of the in house test and the vendor test, the 300-FF-1 FS Phase 3 report will be issued on 8/15/94 (M-15-03C). Preparation of an IRM/PP will be initiated at this time. The draft 300-FF-2 OU WP will be prepared and issued to the regulators on 11/30/94 (M-13-08). The 300-FF-5 RI Phase 1 and FS Phase 1 & 2 reports will be finalized and resubmitted in 2/94. Semiannual groundwater sampling and analysis will continue.

Budget Year (FY 1995) Description(Limit 52 lines or less):

300-FF-1: The FS Phase 3 report (issued 8/94) will be reviewed, regulator comments incorporated, and the draft proposed plan prepared to support issuance of a ROD on 6/95. [\$310.2K].

A plan will be drafted and issued to the regulators outlining the parameters to operate the existing soil washing equipment for two separate campaigns to accelerate soil washing and removal of contamination after issuance of the proposed plan in order to expedite remediation of the OU. [\$331.3K]

The existing, on-site soil washing system, will be operated at 350 yd<sup>3</sup> per week at the 316-5 Process Trenches to expedite remediation of the OU. Operations will be done using on-site personnel with on-site equipment. Approximately 10,920 yd<sup>3</sup> of material will be excavated and washed yielding 1,092 yd<sup>3</sup> for disposal at the W-025 Burial Ground. [\$1,584.8K]

Design of large-scale remediation activities for the remaining soil washing sites and burial grounds will commence after receipt of the ROD. [\$646.5K]

Sampling and analysis of soil recovered during excavation to determine the extent of the required remediation and the success of the treatment will be conducted. [\$558.4K]

300-FF-2: 300-FF-2 WP will be completed and issued to regulators on 11/30/94. [\$248.0K]

Groundwater sampling of 40 existing wells in the vicinity of the 400 Area (near FFTF) would be conducted to confirm levels of contamination in the groundwater. [\$203.6K]

Cold testing (treatability test) would be conducted at the 618-10 Burial Ground to demonstrate techniques of removal for the TRU Waste Form present in the burial ground. [\$1,532.2K]

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Surface geophysical surveys would be conducted at the 618-1, 618-2, 618-3, 618-7, 618-8, 618-10, and 618-11 Burial Grounds to determine the configuration of those sites. [\$82.0K]

Four new groundwater characterization wells to support monitoring activities near the 618-11 Burial Grounds would be drilled. [\$170.5K].

300-FF-5: 1) The combined 300-FF-5 draft RI Phase 2 and FS Phase 3 report will be prepared and issued to the regulators on 1/31/95 completing TPA Milestone M-15-04B/C. [\$499.5K] 2) The combined RI Phase 2 and FS Phase 3 report will be reviewed, regulator comments incorporated, and the draft proposed plan prepared and issued 5/95 to support issuance of a ROD. [\$286.7K]. 3) Semiannual monitoring of 15 groundwater wells in the 300 Area will continue to monitor levels of contamination and plume movement. [\$152.7K] 4) Selected spring and river water sampling will be performed near the 300 Area to monitor contaminate migration. [\$80.8K]

**Planning Year (FY 1996) Description(Limit 156 lines or less):**

Decrement 300-FF-1: The existing on-site soil washing system will be operated at 350 yd<sup>3</sup> per week at the 316-5 Process Trenches. Approximately 10,920 yd<sup>3</sup> of material will be excavated and washed yielding 1,092 yd<sup>3</sup> for disposal at the W-025A Burial Ground. [\$1,621.3K]

Decrement 300-FF-1: Sampling and analysis of soil recovered from 300-FF-1 during excavation will be conducted to determine the extent of the required remediation and the success of the treatment. [\$571.2K]

Decrement 300-FF-1: The remedial design (initiated in FY95) for large-scale remediation of 300-FF-1 OU, will continue to support specification development for large-scale soil washing and burial ground excavation. Final design specifications will be completed for increasing treatment capacity 100 tons/hour will be initiated. [\$1,762.4K]

Decrement 300-FF-2: No activities occur in the decrement case. (See planning case for workscope to be conducted under planning scenario.)

Decrement 300-FF-5: Biannual sampling to monitor contaminants is planned at approximately 15 existing wells. (The final ROD for the 300-FF-5 OU is anticipated to be received by 10/31/95. It is assumed that no RA will be required at this time due to the limited amount and declining nature of contamination.) [\$156.2K]

No difference between decrement and target funding for 300-FF-1, 300-FF-2, and 300-FF-5.

Planning 300-FF-1: No difference between target and planning scope/funding.

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Planning 300-FF-2: Treatability testing initiated in FY95 for TRU container caissons will be continued within the 618-10 Burial Grounds. This will allow development of equipment and procedures to be used in the future for final cleanup of the 618-11 Burial Grounds. [\$1,916.3K]

Planning 300-FF-2: Groundwater sampling and analysis of existing wells throughout the 300-FF-2 OU would continue, to assess levels of contamination in the 400 Area, 618-11 Area, and WPPS Area. [\$208.3K]

300-FF-5: No difference between target and planning scope/funding.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

300-FF-1: Mobilization of the large-scale soil washing equipment will be completed and soil washing operations commenced at the south pond. Excavation of the 618-4 and 618-5 Burial Grounds will be conducted.

300-FF-5: Biannual sampling of approximately 15 wells to monitor groundwater contaminant levels in the 300-FF-5 OU will be conducted each year.

Impacts/Assumptions(Limit 42 lines or less):

Impacts: Under target case constraints, the following scope would be deferred from 300-FF-2 in years FY97-2000. Issue a TT report based on cold testing conducted at 618-10 Burial Ground at 300-FF-2 OU. Prepare an IRM/PP seeking an IROD for non-TRU, accessible burial grounds within 300-FF-2 OU. Prepare an IRM/PP for 618-10/11 burial grounds and begin procurement of waste containers for remediation. Initiate selective remediation of 618-13/2/8/3 burial grounds. Subproject Specific Assumptions: Final RODs for each OU have not yet been defined, but are assumed to be soil washing technology as preferred remedial alternative for 300-FF-1 and groundwater monitoring for 300-FF-5. The final ROD for 300-FF-1 OU will be received in 6/95; draft 300-FF-2 OU WP, to be delivered in 11/94, will not be revised per regulator comments until activation of the OU (beyond 5-year planning window). Final ROD for 300-FF-5 OU will be received in 10/95. Planning Case only: The IROD for the northern portion of 300-FF-2 Area, to be received in FY96, will indicate monitoring as the preferred remedial alternative. Overall Planning Assumptions: HRA-EIS will provide resolution of issues concerning future land use of the Site, such that ER work can proceed without impacts. ERC will not have an impact on assessment and RAs; no cost or schedule impacts will result from implementation of NRDA; current technologies will be available to support remediation needs; infrastructure will be in place to support all activities; all field activities will be conducted in accordance with existing Hanford practices and bargaining agreements. A near-term disposal trench will be available in FY95 for limited ER Program wastes. There will be no waste disposal costs levied against the ER Program. ERDF will be available to accept ER Program waste

~~NARRATIVE Continued~~

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~~NARRATIVE Continued~~

at the beginning of FY97. There will be no waste disposal costs levied against the ER Program. Characterization activities are per the HPPS; all FY95 and outyear M-13-00 and M-15-00 Milestones will be waived or deferred per program optimization to implement remediation. All other 1/25/94 revised TPA Milestones will be met. No additional high priority or ERA sites are identified requiring remediation. A ROD for each OU will establish deliverables and milestones for defined remediation activities. The activities will be determined by resources available. Written direction will be received from RL to initiate RD/RA activities prior to receipt of a ROD. Funding will be available at the beginning of each FY to support work activities. Procurement and subcontracting activities will not impact execution of this plan.

Supporting Documents(Limit 5 lines or less):

TPA, CERCLA, RCRA, NEPA, and DOE Orders 4700.1 and 5700.2D.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

~~DESCRIPTION OF REGULATORY DRIVERS~~

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

~~DESCRIPTION OF REGULATORY DRIVERS Continued~~

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DESCRIPTION OF REGULATORY DRIVERS Continued

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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Operations Office: RL ID No.: 3390- 0 Revision Date: 4/24/1994  
 ADS Title: 1100 EM CHAR., ASSESS. AND REMEDIAL ACTION  
 WBS No.: 1.4.10.1.1.23 Category: ER Appr.: D  
 Project Title: 1100 EM Facility/WAG: 1100 Area  
 Installation: HANFORD-1100 CID: %OVHD: 24  
 For Line Item Project: N/A TPC: 33572 TEC: 33572  
 Contig: 1482  
 CNTR Manager: GARDNER-CLAYSON, J Phone: 509-376-9719  
 O.O. Manager: PERRO, WD Phone: 509-372-3704  
 H.Q. Manager: TREICHEL, L Phone: 301-903-8177  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: Y CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : Y TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR	DECREMENT	FY96 DRIVER CATEGORY			IMM RISK
					TARGET	PLAN		
OE	7,583	7,243	A	0	0	0	0	
CE	0	0	B	0	0	0	0	
GPP	0	0	C	0	0	0	0	
LI	0	0	D	0	0	0	0	
			E	0	0	0	0	
TOTAL	7,583	7,243	F	0	0	0	0	
			G	0	0	0	0	
			H	0	0	0	0	
			I	0	0	0	0	
			TOTAL	0	0	0	0	

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	0
CE	0
GPP	0
LI	0
TOTAL	0

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

FTEs	FY94	FY95
Direct	41	26
Indirect	21	13
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	0	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

FTEs	FY94	FY95
Direct	41	26
Indirect	21	13
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	0	0	0	0	0
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

Environmental Management  
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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY				
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: 1100-EM CHARACTERIZATION AND ASS										
APPROP: D										
					A	0	0	0		0
					B	0	0	0		0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0		0
					D	0	0	0		0
EW2010301	0	0			E	0	0	0		0
35EW20100	0	0			F	0	0	0		0
39EW20100	0	0			G	0	0	0		0
39EW20100	0	0			H	0	0	0		0
					I	0	0	0		0
<b>TOTAL</b>	<b>0</b>	<b>0</b>			<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>		<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY			
SUB-DESC: C PROGRAM: EM SUBACT: AB				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 1100-EM REMEDIAL DESIGN AND ACTI							
APPROP: D							
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	0	0	0
				B	0	0	0
				C	0	0	0
				D	0	0	0
EW2010302	7,583	7,243		E	0	0	0
35EW20100	0	0		F	0	0	0
39EW20100	0	0		G	0	0	0
39EW20100	0	0		H	0	0	0
				I	0	0	0
<b>TOTAL</b>	<b>7,583</b>	<b>7,243</b>		<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010302	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010302	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**A106 Cross References**

A106 Number: RA-012 Date: 6/23/92  
Title: ER 1100-EM-1 RI/FS  
Federal Facility Identification:  
Region: Assessment:  
Status: Progress:

**Tiger Team Cross References**

Tiger Team Finding Number: Date:  
Title:

**FY95-99 ADS Cross References**

ADS #: RL 3390 0  
Title: 1100 EM CHAR. ASSESS. AND RA  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.: Milestone Seq: 3390-00-0010 TPA MS NO.: NONE  
Title: SUBMIT 1100-EM-1 REMEDIAL DESIGN PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
12/31/1993 12/31/1993 12/31/1993 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
Prepare & submit Remedial Design Plan based on ROD.

Milestone No.: Milestone Seq: 3390-00-0025 TPA MS NO.: M-16-81  
Title: CLEAN UP ARID LANDS ECOLOGY FACILITY/PROVIDE CLOSEOUT DOCUMENT  
Planning Date Target Date Decrement Date Level: HQ Keyword: CC  
10/30/1994 10/30/1994 10/30/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA 01/25/94  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
Clean up Arid Lands Ecology Facility and provide closeout documentation.

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 3390-00-0005 TPA MS NO.:  
Title: M-16-81 COMPLETE REMED & CERCLA CONST RPT FOR ALE RESERVE  
Planning Date Target Date Decrement Date Level: HQ Keyword: FW  
10/31/1994 10/31/1994 PTS: Y SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
M-16-81 COMPLETE REMEDIATION & CERCLA CONSTRUCTION FOR ENTIRE ALE RESERVE

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:23:11

Technical Scope Summary(Limit 15 line or less):

Assessment and remediation activities for the 1100-EM subproject are covered by ADS 3390. The ROD for the 1100 Area NPL Site was issued in September 1993. This ADS includes the efforts to design and complete remedial activities prescribed in ROD. Remediation activities can be divided into three main phases: (1) remedial actions design, (2) remedial actions procurement and construction, and (3) post remedial actions monitoring (except in the case of clean closure).

Technical Scope Detail(Limit 104 lines or less):

The 1100-EM subproject is located in the southern area of the Hanford Site adjacent to the City of Richland and consists of four end function OUs (1100-EM-1, 1100-EM-2, 1100-EM-3, 1100-IU-1) and the Arid Lands Ecology (ALE) facility. The 1100-EM-1 OU technical baseline for the characterization and assessment activities are the Regulator approved work plan and work plan supplement. The technical baseline for the other three OUs is in the 1100 Area consolidation concept outlined in the EPA letter dated August 20, 1992, and formally endorsed by RL in their letter dated January 13, 1993. The technical baseline for the ALE facility clean up is contained within the requirements for federal real property excessing actions.

Assessment activities for the 1100-EM-1 OU were initiated in 1988 and were completed per the EPA and Ecology approved 'Remedial Investigation/ Feasibility Study Work Plan for the 1100-EM-1 Operable Unit, Hanford Site Richland, Washington' (DOE/RL 88-23), the 'Remediation Investigation Phase 2 Supplemental Work Plan for the Hanford Site 1100-EM-1 Operable Unit' (DOE/RL-90-37), and agreements between DOE, EPA, Ecology. The latest agreements are presented in the TPA number M-16-81. Remediation activities for the 1100-EM-1 OU are currently being planned. Detailed final

NARRATIVE Continued

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~~NARRATIVE Continued~~

assessment and remedial alternative evaluations for this OU are contained in the 'Final Remedial Investigation/ Feasibility Study Report for the 1100-EM-1 Operable Unit, Hanford' (Final RI/FS-EA Report, DOE/RL 92-67). A ROD addressing the remediation activities was issued in September 1993.

Assessment and remediation activities for the 1100-EM-2, 1100-EM-3, and 1100-IU-1 OUs were completed per the agreements between DOE, EPA, and Ecology. These agreements are outlined in the EPA letter dated August 20, 1992, and formally endorsed by DOE in their letter dated January 13, 1992, subject 1100 Area Consolidation Concept. The letters outline the assessment and remediation acceleration concept to consolidate the 1100 Area NPL Site OUs, and to initiate abbreviated assessment activities to support a ROD for the four 1100 Area OUs. The ROD addressing these activities was issued in September 1993.

The ALE facility is a 312 sq-km (approximately 120 square miles) track of land that lies on the western side of the Hanford Site in south central Washington. The US Atomic Energy Commission officially set aside this land area in 1967 to preserve shrub-steppe habitat and vegetation. The ALE facility is managed by PNL for DOE for ecological research and education purposes. In 1971, the ALE facility was designated the Rattlesnake Hills Research Natural Area (RNA) as a result of an interagency federal cooperative agreement, and remains the largest RNA in Washington. It is also one of the few remaining large tracts of shrub-steppe vegetation in the state retaining a predominant pre-European settlement character.

Clean up of ALE facility by October 1994 is a TPA milestone; number M-16-81 and Agreement in Principle between the DOE, EPA, and Ecology, and is not part of the 1100 Area NPL site. Even though the ALE is not part of the 1100 Area NPL Site, funding for the assessment and cleanup of the ALE is included in this ADS. The objective of the clean up efforts is to remove known contamination to make the ALE facility available for release for alternate future land uses. A preliminary assessment screening (PAS) is one of the initial required actions to determine the clean up actions required. The PAS involves a biological assessment to characterize the biological environment, cultural resources survey to identify the pre-1943 human cultural impacts, historical (1943-1993) review to evaluate what past operations may have resulted in potentially contaminated areas, site visit and walkover of suspicious sites identified during the historical review, and preparation of a PAS report. The cultural resources survey will be limited to the potential contaminated areas only. After the PAS, remediation of any contamination found would take place.

The 1100-IU-1 OU, a former NIKE missile base, while located in the ALE facility geographical boundary, is part of the 1100 Area NPL Superfund Site and is being environmentally remediated under separated action described above. The 1100-IU-1 OU is less than one percent of the ALE facility area.

The ALE facility environmental assessment and remediation is not addressed

~~NARRATIVE Continued~~

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~~NARRATIVE Continued~~

in the final 1100 Area RI/FS documents, Proposed Plan, or ROD. It will be addressed in a PAS report, and appropriate after-remediation documentation.

Act. Comp. to Date/Current Year (FY 1994) Desc. (Limit 52 lines or less):

The RI/FS for the 1100-EM-1 OU was initiated in FY 1988. A RI/FS Work Plan, RI Phase 1 Report, FS Phase 1&2 Report, RI Phase 2 Supplemental Work Plan, and final RI/FS Report have been completed to date. In addition the ROD for the 1100 Area NPL Site has been issued by the Tri-Parties. All 1100-EM milestones have been met.

Budget Year (FY 1995) Description (Limit 52 lines or less):

Complete PAS for the ALE Facility; (2) complete the remedial design/remedial action work plan for the 1100 NPR Site; (3) initiate and complete characterization activities at the 1100-EM-2, EM-3, and IU-1 OUs; (4) initiate and complete design and remedial activities at the IU-1 OU and the ALE Facility; (5) prepare appropriate 1100-EM subproject remedial design/remedial action safety documentation; (6) prepare appropriate 1100-EM subproject remedial design/remedial action excavation permits; (7) prepare appropriate 1100-EM subproject remedial design/remedial action radiation surveys and cultural resources surveys; (8) initiate and complete procurement document preparation for a removal remedial actions contract (time and materials type for waste site removals); (9) award of removal contract; (10) initiate and complete procurement document preparation for installation of additional groundwater monitoring wells; (11) award monitoring well contract; (12) complete 1100-EM subproject remedial design activities; and (13) prepare and award appropriate 1100-EM subproject remedial actions contract.

Planning Year (FY 1996) Description (Limit 156 lines or less):

No activities planned for the 1100-EM subproject.

Outyears (FY 1997 - FY 2000) Description (Limit 78 lines or less):

No activities planned for the 1100-EM subproject for the outyears.

Long term environmental monitoring will be required, but is addressed under the Surveillance and Monitoring subproject (See ADS 3800).

Impacts/Assumptions (Limit 42 lines or less):

Remediation activities for the 1100-EM-2, 1100-EM-3, and 1100-IU-1 OUs are based on assumed, most likely remedial actions. The waste management units (WMUs) of the 1100-EM-2 OU include several used oil tanks, steam pad and hoist ram storage tanks, and a hazardous waste storage area. The 1100-EM-3 OU WMUs include several waste storage and staging areas, a used oil underground storage tank (UST), and contaminated soil from a previously

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**NARRATIVE Continued**

removed UST. The 1100-IU-1 OU site is a former NIKE missile base consisting of structures which supported missile launch, control and maintenance functions, as well as living quarters for base personnel, storage buildings for hazardous substances used in the maintenance of the physical plant and missile operations. Elements of concern include several septic tanks and drain fields, electrical transformers, USTs, and waste disposal areas. Remediation of the identified waste or site types were evaluated with the understanding that for many contaminant types there are known treatment technologies, and therefore, it is not necessary to evaluate a wide range of treatment alternatives. For contaminated soils two remedial action approaches were evaluated; offsite treatment and/or disposal at a permitted RCRA facility (recommended remedial actions in ROD); and onsite thermal destruction (evaluated to assess potential savings that might result from on-site incineration of soils from multiple WMUs). For groundwater a monitoring and evaluation program would be implemented during the remedial design/remedial action process to evaluate the potential impacts, if any, to groundwater of contaminant releases at the WMUs. Remediation methods proposed and the costs associated with each are subject to change as the FFS progresses and the input of EPA and Ecology received. However, the assumed remedial actions are viable, readily implementable, cost effective and provide long-term protection of human health and the environment.

There are no impacts at target. However, current FY 1993 - FY 1999 1100-EM Subproject Baseline planning incorporates 1100-EM-1 OU ROD alternatives the most likely remediations for the 1100-EM-2, 1100-EM-3, 1100-IU-1 OUs based on minimal characterization and assessment information. If the nature and extent of the contamination for the other three OUs, and the resulting remediation, proves different than that currently anticipated, the respective cost estimates and baseline will be updated using the appropriate change control. In addition, there is limited knowledge of the extent of contamination that may be encountered at the ALE Facility. A budget was prepared using best professional judgement. If the ALE Facility assessment, remedial design and remedial actions costs are different than currently anticipated, the appropriate change control will be processed.

**Supporting Documents(Limit 5 lines or less):**

NONE

**Performance Measures(Limit 15 lines or less):**

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

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DESCRIPTION OF REGULATORY DRIVERS

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the environmental restoration program. The project scope, cost and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

DESCRIPTION OF REGULATORY DRIVERS Continued

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DESCRIPTION OF REGULATORY DRIVERS Continued

ST:

The Washington Administrative Code provides Ecology enforcement authority on cleanup activities per the Model Toxics Control Act.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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TSCA:

TSCA provides EPA enforcement authority for those operable units contaminated by PCB's

DESCRIPTION OF REGULATORY DRIVERS Continued

ST: The Washington Administrative Code provides Ecology enforcement authority on cleanup activities per the Model Toxics Control Act.

TR: All subject activities are affected by the TPA, an schedule between DOE, EPA, and Ecology for the practice waste sites at Hanford.

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TSCA: TSCA provides EPA enforcement authority for those operators controlled by PCB's.

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Operations Office: RL ID No.: 3400- 0 Revision Date: 4/22/1994  
 ADS Title: PROGRAM MANAGEMENT AND SUPPORT  
 WBS No.: 1.4.10.1.3.1 Category: ER Appr.: D  
 Project Title: PROG MGMT & SPPT RA Facility/WAG: N/A  
 Installation: HANFORD CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 3858060 TEC: 3858060  
 Contig: 0  
 CNTR Manager: CHAMBERLAIN-DOW, CC Phone: 509-376-0495  
 O.O. Manager: GOODENOUGH, JD Phone: 509-376-7167  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		DECREMENT	FY96 DRIVER TARGET	CATEGORY PLAN	IMM RISK
OE	65,943	42,185		A	24,555	35,545	35,545	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	4,599	4,599	4,599	4,599
TOTAL	65,943	42,185		F	2,773	2,773	2,773	2,773
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	31,927	42,917	42,917	7,372

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	31,927
CE	0
GPP	0
LI	0
TOTAL	31,927

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TARGET LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	42,917	40,156	40,985	41,812	42,877
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>42,917</b>	<b>40,156</b>	<b>40,985</b>	<b>41,812</b>	<b>42,877</b>

  

FTEs	FY94	FY95
Direct	277	213
Indirect	233	179
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	231	223	231	246	253
Indirect	194	187	194	207	213
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	42,917	40,156	40,985	41,812	42,877
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>42,917</b>	<b>40,156</b>	<b>40,985</b>	<b>41,812</b>	<b>42,877</b>

  

FTEs	FY94	FY95
Direct	277	213
Indirect	233	179
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	231	223	231	246	253
Indirect	194	187	194	207	213
Federal	0	0	0	0	0

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Budget Detail Profile

				FY96 DRIVER CATEGORY			
				DECREMENT	TARGET	PLAN	IMM RISK
DESC: RCRA/CERCLA							
SUB-DESC: A PROGRAM: EM SUBACT: AA							
TITLE: PROGRAM MANAGEMENT REMEDIAL ACTI							
APPROP: D							
			A	17,445	17,445	17,445	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
			D	0	0	0	0
EW2010301	16,630	20,531	E	0	0	0	0
35EW20100	0	0	F	0	0	0	0
39EW20100	0	0	G	0	0	0	0
39EW20100	0	0	H	0	0	0	0
			I	0	0	0	0
TOTAL	16,630	20,531	TOTAL	17,445	17,445	17,445	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW2010301	17,445
35EW20100	0
39EW20100	0
39EW20100	0
TOTAL	17,445

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	17,445	15,310	16,121	16,518	17,234
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	17,445	15,310	16,121	16,518	17,234

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	17,445	15,310	16,121	16,518	17,234
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	17,445	15,310	16,121	16,518	17,234

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**Budget Detail Profile**

				FY96 DRIVER CATEGORY			
				DECREMENT	TARGET	PLAN	IMM RISK
DESC: D&D							
SUB-DESC: A PROGRAM: EM SUBACT: AB							
TITLE: PROGRAM MANAGEMENT - D&D							
APPROP: D				A	0	0	0
				B	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
				D	0	0	0
EW2010401	0	1,081		E	0	0	0
35EW20100	0	0		F	2,773	2,773	2,773
39EW20100	0	0		G	0	0	0
39EW20100	0	0		H	0	0	0
				I	0	0	0
TOTAL	0	1,081		TOTAL	2,773	2,773	2,773

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010401	2,773
35EW20100	0
39EW20100	0
39EW20100	0
TOTAL	2,773

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010401	2,773	3,301	4,829	3,358	1,888
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	2,773	3,301	4,829	3,358	1,888

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010401	2,773	3,301	4,829	3,358	1,888
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	2,773	3,301	4,829	3,358	1,888

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**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AC				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: QUALITY ASSURANCE & SELF-ASSESSM							
APPROP: D							
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D
				0	0	0	0
				0	0	0	0
				0	0	0	0
				0	0	0	0
EW2010301	3,250	5,372		4,599	4,599	4,599	4,599
35EW20100	0	0		0	0	0	0
39EW20100	0	0		0	0	0	0
39EW20100	0	0		0	0	0	0
<b>TOTAL</b>	<b>3,250</b>	<b>5,372</b>		<b>4,599</b>	<b>4,599</b>	<b>4,599</b>	<b>4,599</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	4,599
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>4,599</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	4,599	4,631	5,868	7,079	7,047
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>4,599</b>	<b>4,631</b>	<b>5,868</b>	<b>7,079</b>	<b>7,047</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	4,599	4,631	5,868	7,079	7,047
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>4,599</b>	<b>4,631</b>	<b>5,868</b>	<b>7,079</b>	<b>7,047</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY									
SUB-DESC: A PROGRAM: EM SUBACT: AD						DECREMENT	TARGET	PLAN	IMM RISK						
TITLE: RL CONTRACTS															
APPROP: D															
B&R	FY94	APPR	FY95	PRES	FY95	APPR	A	B	C	D	E	F	G	H	I
EW2010301	10,366			0			0	0	0	0	0	0	0	0	0
35EW20100			0		0		0	0	0	0	0	0	0	0	0
39EW20100			0		0		0	0	0	0	0	0	0	0	0
39EW20100			0		0		0	0	0	0	0	0	0	0	0
<b>TOTAL</b>	<b>10,366</b>			<b>0</b>			<b>0</b>								

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA						FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AE						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: CAPITAL EQUIPMENT & TECHNOLOGY A									
APPROP: D									
B&R	FY94	APPR	FY95	PRES	FY95	APPR	A	B	C
EW2010301	28,318		14,731				6,628	17,618	17,618
35EW20100	0		0				0	0	0
39EW20100	0		0				0	0	0
39EW20100	0		0				0	0	0
<b>TOTAL</b>	<b>28,318</b>		<b>14,731</b>				<b>6,628</b>	<b>17,618</b>	<b>17,618</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	6,628
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>6,628</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	17,618	16,420	13,645	14,305	16,068
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>17,618</b>	<b>16,420</b>	<b>13,645</b>	<b>14,305</b>	<b>16,068</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	17,618	16,420	13,645	14,305	16,068
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>17,618</b>	<b>16,420</b>	<b>13,645</b>	<b>14,305</b>	<b>16,068</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AF				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: LABORATORY SUPPORT							
APPROP: D							
			A	482	482	482	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
			D	0	0	0	0
EW2010301	3,379	470	E	0	0	0	0
35EW20100	0	0	F	0	0	0	0
39EW20100	0	0	G	0	0	0	0
39EW20100	0	0	H	0	0	0	0
			I	0	0	0	0
<b>TOTAL</b>	<b>3,379</b>	<b>470</b>	<b>TOTAL</b>	<b>482</b>	<b>482</b>	<b>482</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	482
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>482</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	482	494	522	552	640
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>482</b>	<b>494</b>	<b>522</b>	<b>552</b>	<b>640</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	482	494	522	552	640
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>482</b>	<b>494</b>	<b>522</b>	<b>552</b>	<b>640</b>

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**Budget Detail Profile**

DESC: COMPLIANCE OVERSIGHT				FY96 DRIVER CATEGORY			
SUB-DESC: O PROGRAM: EM SUBACT: AG				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: RL COMPLIANCE OVERSIGHT							
APPROP: D							
			A	0	0	0	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
			D	0	0	0	0
EW2010700	4,000	0		E	0	0	0
35EW20100	0	0		F	0	0	0
39EW20100	0	0		G	0	0	0
39EW20100	0	0		H	0	0	0
			I	0	0	0	0
TOTAL	4,000	0		TOTAL	0	0	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010700	0
35EW20100	0
39EW20100	0
39EW20100	0
TOTAL	0

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010700	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	0	0	0	0	0

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010700	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	0	0	0	0	0

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**A106 Cross References**

A106 Number: RA-002	Date: 6/23/92
Title: ER - ER PLANNING E2	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-008	Date: 6/23/92
Title: ER-TECHNOLOGY SUPPORT RI/FS AND NEPA SUPPORT EG	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:
A106 Number: RA-011	Date: 6/23/92
Title: ER - EQUIPMENT AND FACILITY UPGRADES	
Federal Facility Identification:	
Region:	Assessment:
Status:	Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:	Date:
Title:	

**FY95-99 ADS Cross References**

ADS #: RL 3105 0  
Title: 100-BC CHAR., ASSMT., AND RA  
Transferred in its entirety: N  
Explanation of Change:  
REMIEDIATION EQUIPMENT FOR 100 AREA SOURCE UNITS HAS BEEN MOVED FROM ADS 3400 TO ADS 3105. TARGET CASE RESOURCES MOVED ARE: FY96:\$5840K, FY97:\$1938K, FY98:\$3908K, FY99:\$5829K, FY00:\$6515

ADS #: RL 3300 0  
Title: 300-FF CHAR., ASSMT., AND RA  
Transferred in its entirety: N  
Explanation of Change:  
REMIEDIATION EQUIPMENT FOR THE 300 AREA HAS BEEN MOVED FROM ADS 3400 TO ADS 3300. TARGET CASE RESOURCES MOVED ARE: FY95:\$0, FY96:\$0, FY97:\$1,061K, FY98:\$954K, FY99:\$4,157K, AND FY00:\$4,277K.

ADS #: RL 3400 0  
Title: PROGRAM MANAGEMENT AND SUPPORT - RA  
Transferred in its entirety: N  
Explanation of Change:  
Program Management, QA & Self-Assessment, Technology Adaptation, Laboratory Support are transferred in their entirety from last year.

**FY95-99 ADS Cross References Continued**

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~~FY95-99 ADS Cross References Continued~~

ADS #: RL 3410 0

Title: PROGRAM MANAGEMENT AND SUPPORT - D&D

Transferred in its entirety: N

Explanation of Change:

Scope for D&D Program Management is transferred from ADS 3410 to ADS 3400 for FY 1995 - FY 2000. RL Program Management, USACE Program Support, and RL Compliance Oversight are transferred from ADS 3400 to ADS 3410.

~~MILESTONES~~

Milestone No.: Milestone Seq: 3400-00-0030 TPA MS NO.: M-13-80B

Title: M-13-80B SUBMIT COLUMBIA RIVER COMPREHENSIVE IMPACT ASSESSMENT

Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
PTS: N SMS: N

Driver Name: TRI

Driver Reference: TPA

PRESENT IN Tiger Team: N Program Execution Guidance: N

Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

PACIFIC NORTHWEST LABORATORY WORK/This scope of work, along with the due dates, will be determined after the compendium of Columbia River Contaminant Data is issued.

Milestone No.: Milestone Seq: 3400-00-0250 TPA MS NO.: NONE

Title: SUBMIT FY94 MULTI-YEAR PROGRAM PLAN FORMAL DRAFT TO RL (ANNUALLY)

Planning Date Target Date Decrement Date Level: FO Keyword: O  
12/15/1993 12/15/1993 12/15/1993 PTS: Y SMS: Y

Driver Name: DOE

Driver Reference: NONE

PRESENT IN Tiger Team: N Program Execution Guidance: Y

Roadmap: N Current Year Workplan: Y Safety and Health: N

Description:

Milestone No.: Milestone Seq: 3400-00-0035 TPA MS NO.: M-13-80

Title: M-13-80 SUBMIT COMPENDIUM OF COLUMBIA RIVER CONTAMINANT DATA

Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
4/30/1994 4/30/1994 4/30/1994 PTS: N SMS: N

Driver Name: TRI

Driver Reference: TPA

PRESENT IN Tiger Team: N Program Execution Guidance: N

Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

PACIFIC NORTHWEST LABORATORY WORK

~~MILESTONES Continued~~

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MILESTONES Continued

Milestone No.: Milestone Seq: 3400-00-0025 TPA MS NO.: M-13-80A  
Title: M-13-80A COMPLETE RIVER CONTAMINANT WORKSHOPS  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
6/30/1994 6/30/1994 6/30/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
PACIFIC NORTHWEST LABORATORY WORK

Milestone No.: Milestone Seq: 3400-00-0050 TPA MS NO.: NONE  
Title: ISSUE DRAFT HRA-EIS TO HQ  
Planning Date Target Date Decrement Date Level: FO Keyword: O  
7/03/1994 7/03/1994 7/03/1994 PTS: Y SMS: Y  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: Y Current Year Workplan: Y Safety and Health: N  
Description:  
The HRA-EIS will analyze the long term cumulative impacts associated with remediation of the Hanford Site, and establish a future site users strategy for Hanford and DOE.

Milestone No.: Milestone Seq: 3400-00-0065 TPA MS NO.: NONE  
Title: SUBMIT FINAL DRAFT FY 1995 FYWP TO RL (ANNUALLY)  
Planning Date Target Date Decrement Date Level: FO Keyword: O  
8/29/1994 8/29/1994 8/29/1994 PTS: Y SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
SUBMIT FINAL DRAFT FY 1995 FISCAL YEAR WORK PLAN TO RL (ANNUALLY)

Milestone No.: Milestone Seq: 3400-00-0020 TPA MS NO.: M-13-81  
Title: M-13-81 SUBMIT WORK PLAN ON HANFORD GW REMEDIATION STRATEGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
8/31/1994 8/31/1994 8/31/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
M-13-81 SUBMIT WORK PLAN ON HANFORD GROUNDWATER REMEDIATION STRATEGY - PACIFIC NORTHWEST LABORATORY WORK

MILESTONES Continued

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Milestone No.: Milestone Seq: 3400-00-0165 TPA MS NO.: NONE  
Title: DELIVER DRAFT REV. (QASR) DOCUMENT TO THE USERS GROUP (ANNUALLY)  
Planning Date Target Date Decrement Date Level: FO Keyword: O  
8/31/1994 8/31/1994 8/31/1994 PTS: Y SMS: Y  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
DELIVER DRAFT REVISIONS (QASR) DOCUMENT TO THE USERS GROUP (ANNUALLY)

Milestone No.: Milestone Seq: 3400-00-0010 TPA MS NO.: NONE  
Title: HOLD FOUR QUARTERLY TPA PUBLIC MEETINGS (ANNUALLY)  
Planning Date Target Date Decrement Date Level: FO Keyword: O  
9/30/1994 9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: Y  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
These meetings are decided upon by joint discussion between regulators, RL, and WHC. Meeting dates are chosen in the quarter preceeding the meeting. The number, frequency, and date of these meetings may be changed by the committee.

Milestone No.: Milestone Seq: 3400-00-0040 TPA MS NO.: NONE  
Title: UPDATE FY94 DECOMMISSIONING PROGRAM PLAN (ANNUALLY)  
Planning Date Target Date Decrement Date Level: FO Keyword: O  
9/30/1994 9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:

Milestone No.: Milestone Seq: 3400-00-0045 TPA MS NO.:  
Title: REVIEW AND UPDATE HANFORD SURPLUS FACILITY HAZ. DOC. (ANNUALLY)  
Planning Date Target Date Decrement Date Level: FO Keyword: O  
9/30/1994 9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: N  
Description:  
REVIEW AND UPDATE HANFORD SURPLUS FACILITY HAZARDOUS DOCUMENT (ANNUALLY)

MILESTONES Continued

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Milestone No.: Milestone Seq: 3400-00-0220 TPA MS NO.: NONE  
Title: ISSUE FINAL FY 1995 FISCAL YEAR WORK PLAN TO RL (ANNUALLY)  
Planning Date Target Date Decrement Date Level: FO Keyword: O  
9/30/1994 9/30/1994 9/30/1994 PTS: Y SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

Milestone No.: Milestone Seq: 3400-00-0015 TPA MS NO.: M-13-81A  
Title: M-13-81A SUBMIT WORK PLAN ON THE HANFORD GW PROTECTION MGT. PLAN  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
10/31/1994 10/31/1994 10/31/1994 PTS: N SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
M-13-81A SUBMIT WORK PLAN ON THE HANFORD GROUNDWATER PROTECTION MANAGEMENT PLAN -  
PACIFIC NORTHWEST LABORATORY WORK

Milestone No.: Milestone Seq: 3400-00-0255 TPA MS NO.: NONE  
Title: SUBMIT FY95 RICH. ER PROGRAM PLAN FORMAL DRAFT TO RL (ANNUALLY)  
Planning Date Target Date Decrement Date Level: FO Keyword: O  
12/15/1994 12/15/1994 12/15/1994 PTS: Y SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:  
SUBMIT FY 1995 RICHLAND ENVIRONMENTAL RESTORATION PROGRAM PLAN FORMAL DRAFT TO RL  
(ANNUALLY)

Milestone No.: Milestone Seq: 3400-00-0080 TPA MS NO.: NONE  
Title: ISSUE FINAL HRA-EIS TO HQ  
Planning Date Target Date Decrement Date Level: FO Keyword: O  
1/01/1995 1/01/1995 1/01/1995 PTS: Y SMS: N  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: Y Current Year Workplan: N Safety and Health: N  
Description:  
The HRA-EIS will analyze the long term cumulative impacts associated with  
remediation of the Hanford Site, and establish a future site uses strategy for  
Hanford and DOE.

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Milestone No.: Milestone Seq: 3400-00-0090 TPA MS NO.: M-70-03  
Title: M-70-03 SUBMIT ER DATA MANAGEMENT PLAN TO EPA/ECOLOGY  
Planning Date Target Date Decrement Date Level: HQ Keyword: 0  
3/31/1995 3/31/1995 3/31/1995 PTS: Y SMS: N  
Driver Name: TRI Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: N  
Description:

Milestone No.: Milestone Seq: 3400-00-0085 TPA MS NO.: NONE  
Title: ISSUE HRA-EIS RECORD OF DECISION TO PUBLIC  
Planning Date Target Date Decrement Date Level: FO Keyword: 0  
4/01/1995 4/01/1995 4/01/1995 PTS: Y SMS: N  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: Y Current Year Workplan: N Safety and Health: N  
Description:  
The HRA-EIS will analyze the long term cumulative impacts associated with remediation of the Hanford Site, and establish a future site uses strategy for Hanford and DOE.

Milestone No.: Milestone Seq: 3400-00-0005 TPA MS NO.: NONE  
Title: HOLD INTERNATIONAL WORKSHOP ON LONG-RANGE PROTECTIVE BARRIERS  
Planning Date Target Date Decrement Date Level: FO Keyword: 0  
9/30/1995 9/30/1995 9/30/1995 PTS: Y SMS: N  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: Y Current Year Workplan: N Safety and Health: N  
Description:  
DESIGN AND TESTING OF AN EARTHEN COVER SYSTEM THAT WILL PROVIDE ISOLATION OF WASTE SITES FOR 1000 YEARS AGAINST WATER, PLANT, ANIMAL, AND HUMAN INTRUSION AND PROTECT AGAINST WIND AND WATER EROSION.

Milestone No.: Milestone Seq: 3400-00-0095 TPA MS NO.: NONE  
Title: DRAFT TEST RPT TO RL FOR BENCH-SCALE TESTING OF IN-SITU CHEM GW  
Planning Date Target Date Decrement Date Level: FO Keyword: ROD  
9/30/1995 9/30/1995 9/30/1995 PTS: Y SMS: Y  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: Y Current Year Workplan: N Safety and Health: N  
Description:  
Adapts soil treatment technology for treatment of groundwater in the 100-HR-3 and 100-BC-5 OUs.

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Milestone No.: Milestone Seq: 3400-00-0110 TPA MS NO.: NONE  
Title: COMP BENCH-SCALE TEST ON CONTAM MEDIA FOR IN-SITU CHEM TREAT GW  
Planning Date Target Date Decrement Date Level: FO Keyword: ROD  
9/30/1996 9/30/1996 9/30/1996 PTS: Y SMS: N  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: Y Current Year Workplan: N Safety and Health: N  
Description:  
Adopts soil treatment technology for treatment of groundwater in the 100-HR-3 and 100-BC-5 OUs.

Milestone No.: Milestone Seq: 3400-00-0125 TPA MS NO.: NONE  
Title: COMP LARGE SCALE TEST ACTIVITIES FOR IN-SITU CHEM TREAT FOR GW  
Planning Date Target Date Decrement Date Level: FO Keyword: ROD  
9/30/1997 9/30/1997 9/30/1997 PTS: Y SMS: N  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: Y Current Year Workplan: N Safety and Health: N  
Description:  
Adopts soil treatment technology for treatment of groundwater in the 100-HR-3 and 100-BC-5 OUs.

Milestone No.: Milestone Seq: 3400-00-0140 TPA MS NO.: NONE  
Title: COMPLETE FIELD TEST ACTIVITY OF HANFORD BARRIER  
Planning Date Target Date Decrement Date Level: FO Keyword: ROD  
9/30/1997 9/30/1997 9/30/1997 PTS: Y SMS: N  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: Y Current Year Workplan: N Safety and Health: N  
Description:  
Design and testing of an earthen cover system that will provide isolation of waste sites for 1000 years against water, plant, animal, and human intrusion and protect against wind and water erosion.

Milestone No.: Milestone Seq: 3400-00-0145 TPA MS NO.: NONE  
Title: COMPLETE PROTOTYPE TESTING OF HANFORD BARRIER  
Planning Date Target Date Decrement Date Level: FO Keyword: ROD  
9/30/1997 9/30/1997 9/30/1997 PTS: Y SMS: N  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: Y Current Year Workplan: N Safety and Health: N  
Description:  
Design and testing of an earthen cover system that will provide isolation of waste sites for 1000 years against water, plant, animal, and human intrusion and protect against wind and water erosion.

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Milestone No.: Milestone Seq: 3400-00-0130 TPA MS NO.: NONE  
Title: COMP FIELD DEMO & RPT ON IN-SITU CHEM TREATMENT FOR GW  
Planning Date Target Date Decrement Date Level: FO Keyword: ROD  
5/31/1998 5/31/1998 5/31/1998 PTS: Y SMS: N  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: Y Current Year Workplan: N Safety and Health: N  
Description:  
Adopts soil treatment technology for treatment of groundwater in the 100-HR-3 and 100-BC-5 OUs.

Milestone No.: Milestone Seq: 3400-00-0150 TPA MS NO.: NONE  
Title: COMPLETE FINAL HANFORD BARRIER DESIGN PACKAGE  
Planning Date Target Date Decrement Date Level: FO Keyword: ROD  
9/30/1998 9/30/1998 9/30/1998 PTS: Y SMS: N  
Driver Name: CERCLA Driver Reference: TPA  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: Y Current Year Workplan: N Safety and Health: N  
Description:  
Design and testing of an earthen cover system that will provide isolation of waste sites for 1000 years against water, plant, animal, and human intrusion and protect against wind and water erosion.

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:22:27

Technical Scope Summary(Limit 15 line or less):

Six end functions comprise the Program Management and Support Subproject. They are: Program Management for both decontamination and decommissioning (D&D) and Remedial Actions; Quality Assurance (QA) Support; Technology Adaptations; Laboratory Support; and Facilities/Systems/Equipment Support.

Technical Scope Detail(Limit 104 lines or less):

Program Management includes management, planning, cost estimating, scheduling, and baseline control activities as described in the Environmental Restoration (ER) Project Plan and the fiscal year work plan (FYWP). Scope also includes developing and implementing management systems to support the ER Program including the creation of an ER Project Plan, Project Management Plan, and Technical Management Plan. This activity supports the TPA through the Administrative Record and public involvement activities. The WHC ER Program Office composed of managerial, professional, and clerical staff manages daily activity. The program management staff for the U.S. Army Corps of Engineers (USACE) is also included.

NARRATIVE Continued

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QA Support provides resources necessary to develop and implement an ER QA program. It includes maintaining DOE/RL-90-28, ER Quality Systems Requirements (ER-QSR); maintaining DOE/RL-91-36, Standard Review Plan (SRP) for ER Program Quality Management Plans; developing, implementing, and maintaining the ER Quality Management Plan (ER-QMP); developing and maintaining ER requirements baseline documents (ER-RBDs); maintaining the ER Commitment Management System (ER-CMS) management plan and implementing procedures; developing and issuing additional procedures required for major systems acquisition (MSA); maintaining the Baseline Analysis Matrix (BAM) database; training, and Self-Assessment Program. In addition, QA Support ensures requirements are translated into policies, plans, and procedures; performs performance-based assessments; ensures configuration controls are in order; provides the central point of contact for coordinating external audits/assessments related to ER Program activities; and implements and maintains corrective action, lessons learned, and trending programs.

Technology support to the ER Program is provided in the area of needs assessment, technology identification, and initial testing and NEPA compliance for the Program.

ER funding is provided for administration and management of analytical services including sample database statusing and tracking. Facilities, systems, and equipment receive ER funding for administration, management, and oversight (infrastructure) for environmental operations. Examples of infrastructure and upgrade activities include: general investigation studies (i.e., sitewide cleanup and performance standards), general baseline support (i.e., records management, training) upgrades, field screening, equipment acquisitions in support of ER operations.

D&D develops and manages cost, schedule, and technological baselines for all decommissioning projects. D&D also identifies and implements state-of-the-art and new technologies as they relate to decommissioning of surplus facilities at the Hanford Site.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):  
Issued FYWP, Richland ER Project Plan, and Information Mgmt. Strategy

Finalized Optimized Baseline Project, sought regulator support

Developed ER baseline estimates and ADSS

Established Internal Validation Board

Established Environmental Program Information Center

Enhanced public information repositories' computers

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~~NARRATIVE Continued~~

Initiated program public involvement plans, meetings, and outreach activities

Created Hanford Site Advisory Board

Began Columbia River Studies

Issued Quality Systems Requirements document (Rev. 2)

Issued Barrier functional performance document & QA Program Plan

Revised ER Program Technology Baseline Plan

Issued HRA-EIS Implementation Plan, and accelerated the HRA-EIS schedule

Established the Environmental Analytical Laboratory

Assessed all commercial lab facilities in support of TPA M-14-84

Issued RFP for tank construction in support of borehole geophysics work

USACE completed cost estimates for 90 D&D facilities

Completed the Decommissioning & RCRA Closure Program Plan

Completed MSA validation of D&D subprojects

Budget Year (FY 1995) Description(Limit 52 lines or less):

Continue overall ER Program management & oversight (WHC \$2379/USACE \$1117)

Continue management systems (\$150) and baseline development (\$1287), and maintain program control (\$2521)

Update Richland ER Project Plan

Issue FY 95 FYWP

Enhance information systems (HEIS/WIDS/GIS) & issue ER Data Mgmt. Plan (WHC \$5156/USACE \$2391)

Issue update of ER Document Control & Records Management Plans (\$2282)

Continue public involvement/outreach activities (\$704)

Issue ER Safety & Health Plan (\$1545)

Update ER Quality Systems Requirements document, QAPP, & implementing

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~~NARRATIVE Continued~~

procedures (\$3827)

Issue ER Technical Management Plan

Issue ER CMS Management Plan

Continue Barrier Prototype testing (\$3100)

Issue final HRA-EIS (\$3623)

Refine Technology Baseline Plan (\$125)

Continue evaluation, adaptation, and application of innovative private (\$429) and public sector (\$1638) technologies

Continue development of ISV Spot Melt

Continue general engineering support (\$3676), purgewater assessment (\$443), drilling support (\$639) and analytical services (\$470)

Continue management, administration, and advanced engineering/characterization for the D&D of surplus facilities

Complete wellhead surveying and issue well & borehole draft bench scale test (\$1000)

Continue Columbia River Studies (\$2500)

Planning Year (FY.1996) Description(Limit 156 lines or less):

DECREMENT CASE:

Continue overall ER Program management & oversight (WHC \$2541/USACE \$1292)

Update ER Project Plan, Technical Management Plan & FYWP (Cost included in overall Program Management)

Continue management, administration, and advanced engineering/characterization for the D&D of surplus facilities (Cost included in overall Program Management)

Continue D&D project work on 233-S, 232-Z, and 100 Area reactor/ancillary facilities, and other facilities (Cost included in overall Program Management)

Maintain management systems (\$154), baseline development (\$1309) and program control (\$2645)

Enhance ER Data Mgmt. systems (HEIS/WIDS/GIS) & issue ER Data Mgmt. Plan

~~NARRATIVE Continued~~

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~~NARRATIVE Continued~~  
(\$5819)

Issue update of ER Document Control & Records Management Plans (\$2374)

Continue public involvement/outreach activities (\$896)

Issue update of ER Safety & Health Plan (\$875)

Maintain ER Program Quality Management Plan & implementing procedures (\$3724)

Continue general engineering support (\$4191), purgewater assessment (\$454), drilling support (\$559), and CENTRC (\$628)

Continue Columbia River Studies. (\$1000)

Continue laboratory support (\$482)

Continue Hanford Barrier prototype testing (\$1000)

Continue to deploy public sector technologies (\$354)

Continue NEPA planning documentation of ER in outyears (\$3128)

TARGET CASE: Target case includes the decrement as identified above plus the following:

Continue Hanford Barrier prototype testing (additional \$2200)

Continue bench scale testing of groundwater chemical treatment technology (\$1200)

Continue to deploy private and public sector technologies (\$750 for private sector; additional \$3332 over decrement for public sector)

Issue update of Technology Strategic Baseline Plan (\$550)

Continue NEPA planning documentation for ER in outyears (additional \$61K)

Continue development of ISV Spot Melt (\$1400)

PLANNING CASE:

Same as Target Case.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

The Program Management end function will continue to support those activities previously identified since the Program Management end function provides the necessary staffing and management infrastructure support for

~~NARRATIVE Continued~~

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~~NARRATIVE Continued~~  
the overall ER Program.

Funding will continue to support the development and maintenance of the ER Program QMP and associated procedures, which are considered an integral part of the ER Program management infrastructure.

Outyear activities for technology adaptations include completion of the Hanford Barrier Project; demonstration of in-situ chemical treatment, continued transfer of technologies from universities, private sector and Office of Technology Development to ER Program. Planning activities include the completion of activities in FY 1996; and continued refinement of the baseline technology plan and post test analysis of ISV spot melt demonstration.

HAS will continue to provide administrative coordination for sample database statusing and tracking.

Within the facilities and equipment end function, the following scope is continued: field screening and site characterization; purgewater assessment and baseline (infrastructure) support. Funding provides additional data storage equipment for HEIS/GIS.

D&D will continue to provide management/administration and advanced engineering/characterization for S&M and decommissioning of retired surplus facilities. This will include program/project management for the 233-S, 232-Z, and 100 Area reactor projects.

Impacts/Assumptions(Limit 42 lines or less):

Direct FTEs include all contractor and subcontractor FTEs charging directly to the workscope. Indirect FTEs are contractor FTEs not charging directly to the workscope, and therefore applied as an overhead (or indirect) charge. FTEs are level loaded. The scope will continue until the ER mission is complete, and funding will parallel the remedial actions growth; facilities, systems, and equipment upgrade supports the ER work plans, and support the completion of the ER mission; site background studies continue.

Technology adaptations: No impacts identified. However, it is vital to invest in innovative technologies that will lead to safer, faster, better, and cheaper remediation of the Hanford Site.

QA: Restrictions will degrade the ER QA Program and reduce the safe operation and management of the ER Program.

Reduced funding for QA Quality Systems Requirements and BAM will result in not maintaining BAM regulatory requirements. Development of QA implementing procedures required for the ER MSA will be slowed and cause increased audit findings. Failure to communicate consistently will jeopardize implementation of the TPA requirements.

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Labs: Completion of PNL 325 Laboratory upgrades is contingent upon funding, impacting sample backlog and turnaround issues.

Facilities: Site background studies and database development will not meet planned scope. Infrastructure support will not be in place to meet ER requirements.

D&D: Program management will be provided for S&M and decommissioning projects to complete surplus facilities decommissioning by FY 2018. Decommissioning of surplus facilities must be integrated with the RCRA and CERCLA cleanup activities to support land use decision and meet the final cleanup goals by 2018. Failure to continue decommissioning program management will eliminate the planning, budgeting, reporting, and project management/control for decommissioning projects. D&D is a major portion of the cleanup effort and requires a formal management structure to ensure the work is completed.

Supporting Documents(Limit 5 lines or less):

Program Management and Support Subproject supporting documentation includes various management system requirements plans and procedures such as ER Project Plan, ER Technical Management Plan, FYWP, QMP, the ER Management Plan, RCRA Closure Program Plan, and documentation to support the ESAAB.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

~~DESCRIPTION OF REGULATORY DRIVERS~~

CERCLA:

CERCLA provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

~~DESCRIPTION OF REGULATORY DRIVERS Continued~~

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DESCRIPTION OF REGULATORY DRIVERS Continued

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the ER Program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA R:

Affected Scoop/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of environmental cleanup activities are assessed.

RCRA:

RCRA provides Ecology enforcement authority for those units containing treatment, storage, and disposal under RCRA Section 3004U.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

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Operations Office: RL ID No.: 3410- 0 Revision Date: 4/22/1994  
 ADS Title: RL PROGRAM MANAGEMENT  
 WBS No.: 1.4.10.1.3.1 Category: ER Appr.: D  
 Project Title: PROG MGMT & SPPT RA Facility/WAG: 100/200/300 AREAS  
 Installation: HANFORD CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 1280674 TEC: 1280674  
 Contig: 0  
 CNTR Manager: SHADEL, JR Phone: 509-373-6286  
 O.O. Manager: GOODENOUGH, JD Phone: 509-376-7167  
 H.Q. Manager: HARMON, MK Phone: 301-903-8167  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: N CWA: N SDWA: N RCRA: N 3004U: N TSCA: N CERCLA: Y NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : Y FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			IMM RISK
					DECREMENT	TARGET	PLAN	
OE	1,125	10,960		A	13,562	13,562	13,562	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	1,125	10,960		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	13,562	13,562	13,562	0

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	13,562
CE	0
GPP	0
LI	0
TOTAL	13,562

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TARGET LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	13,562	13,907	14,265	14,655	14,836
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>13,562</b>	<b>13,907</b>	<b>14,265</b>	<b>14,655</b>	<b>14,836</b>

  

FTEs	FY94	FY95
Direct	11	17
Indirect	9	14
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	19	19	19	19	19
Indirect	16	16	16	16	16
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	13,562	13,907	14,265	14,655	14,836
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>13,562</b>	<b>13,907</b>	<b>14,265</b>	<b>14,655</b>	<b>14,836</b>

  

FTEs	FY94	FY95
Direct	11	17
Indirect	9	14
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	19	19	19	19	19
Indirect	16	16	16	16	16
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: D&D					FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA					DECREMENT	TARGET	PLAN	IMM RISK
TITLE: PROGRAM MANAGEMENT SUPPORT D&D								
APPROX: D								
				A	0	0	0	0
				B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0	0
				D	0	0	0	0
EW2010401	1,125	0		E	0	0	0	0
35EW20100	0	0		F	0	0	0	0
39EW20100	0	0		G	0	0	0	0
39EW20100	0	0		H	0	0	0	0
				I	0	0	0	0
<b>TOTAL</b>	<b>1,125</b>	<b>0</b>		<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010401	0
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>0</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010401	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010401	0	0	0	0	0
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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**Budget Detail Profile**

DESC: RCRA/CERCLA				FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AD				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: RL CONTRACTS							
APPROP: D							
			A	7,862	7,862	7,862	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
			D	0	0	0	0
EW2010301	0	6,960	E	0	0	0	0
35EW20100	0	0	F	0	0	0	0
39EW20100	0	0	G	0	0	0	0
39EW20100	0	0	H	0	0	0	0
			I	0	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>6,960</b>	<b>TOTAL</b>	<b>7,862</b>	<b>7,862</b>	<b>7,862</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010301	7,862
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>7,862</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	7,862	7,352	6,697	6,943	6,978
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>7,862</b>	<b>7,352</b>	<b>6,697</b>	<b>6,943</b>	<b>6,978</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010301	7,862	7,352	6,697	6,943	6,978
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>7,862</b>	<b>7,352</b>	<b>6,697</b>	<b>6,943</b>	<b>6,978</b>

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**Budget Detail Profile**

DESC: COMPLIANCE OVERSIGHT				FY96 DRIVER CATEGORY			
SUB-DESC: 0 PROGRAM: EM SUBACT: AG				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: RL COMPLIANCE OVERSIGHT							
APPROP: D							
			A	5,700	5,700	5,700	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
				D	0	0	0
EW2010700	0	4,000		E	0	0	0
35EW20100	0	0		F	0	0	0
39EW20100	0	0		G	0	0	0
39EW20100	0	0		H	0	0	0
				I	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>4,000</b>		<b>TOTAL</b>	<b>5,700</b>	<b>5,700</b>	<b>0</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010700	5,700
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>5,700</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010700	5,700	6,555	7,568	7,712	7,858
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>5,700</b>	<b>6,555</b>	<b>7,568</b>	<b>7,712</b>	<b>7,858</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010700	5,700	6,555	7,568	7,712	7,858
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>5,700</b>	<b>6,555</b>	<b>7,568</b>	<b>7,712</b>	<b>7,858</b>

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**A106 Cross References**

A106 Number: D/D-016 Date: 6/23/92  
Title: HANFORD SITE D&D MANAGEMENT/ADMINISTRATION  
Federal Facility Identification:  
Region: Assessment:  
Status: Progress:

**Tiger Team Cross References**

Tiger Team Finding Number: Date:  
Title:

**FY95-99 ADS Cross References**

ADS #: RL 3400 0  
Title: PROGRAM MANAGEMENT AND SUPPORT  
Transferred in its entirety: N  
Explanation of Change:  
Scope for D&D Program Management is transferred from ADS 3410 to ADS 3400, and RL State and Tribal support, USACE Direct Support and RL CERCLA Grant are transferred from ADS 3400 to ADS 3410.

ADS #: RL 3410 0  
Title: PROGRAM MANAGEMENT SUPPORT D&D  
Transferred in its entirety: N  
Explanation of Change:  
Program Management D&D scope is eliminated from ADS 3410 (and transferred to ADS 3400) for FY 1995 - FY 2000.

**MILESTONES**

Milestone No.:	Milestone Seq:	TPA MS NO.:
Title:		
Planning Date	Target Date	Decrement Date
		Level:
		PTS:
Driver Name:	Driver Reference:	Keyword:
PRESENT IN	Tiger Team: Program Execution Guidance:	SMS:
	Roadmap: Current Year Workplan:	Safety and Health:
Description:		

**NARRATIVE**

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Technical Scope Summary(Limit 15 line or less):

Workscope and funding for D&D Program Management has been transferred from ADS 3410 to 3400 beginning with FY 1995 planning. A determination was made to consolidate all non-federal Program Management work under one ADS (3400). In FY 1995 and beyond this ADS will fund three Federal Program Management cost account plans; State Grant, RL Contracts, and the USACE Direct Support.

Technical Scope Detail(Limit 104 lines or less):

Support is provided for the Washington Department of Ecology Comprehensive Environmental Response, Compensation, and Liability Act Grant from the DOE, direct support to the Richland Environmental Restoration Program by the USACE, and the technical, management and administrative services that are required directly by the RL.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

A draft Tri-Party Agreement milestone package has been developed by EPA and Ecology to include Columbia River Study activities. The draft is currently under review and revision at DOE and PNL.

RL/USACE D&D estimates for 90 facilities submitted for review.

Initiated new RL 12112 task order regarding USACE direct support to ERD.

USACE completed cost estimates for 90 facilities in the D&D Program for support to project baseline.

The RFP was issued for tank construction in support of the commercial borehole geophysics work.

A public meeting was held with EPA, Ecology, and stakeholder to get input on the scope of the risk assessment for the Columbia River Study.

Asphalt testing was initiated and preparations were made for off-site RCRA comparison test for the Hanford Barrier project.

Completed cost estimates for remedial and remedial actions for the entire project.

The final distribution of the Hanford Site - Specific Science and Technology Plan (HSSSTP) completes a long, multi-year effort which identified critical technology needs at Hanford.

Budget Year (FY 1995) Description(Limit 52 lines or less):

RL activities will include; Ecology grant, direct support provided by the

~~NARRATIVE Continued~~

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Richland General Support Services Contractor, Martin Marietta Energy Systems Group and the USACE, allocated costs for the Hanford Mission Plan, access to the Hanford Environmental Information System for DOE-ER employees and regulators, support to Independent Cost Evaluation of the RL-ER baseline documents, correspondence control support for the RL-ER office, hydrogeological analysis provided by the U.S. Geological Survey under an interagency agreement, special studies supporting ER program requirements, support for management initiatives resulting from independent assessments of the ER Program and the Richland Operations Office. In anticipation of increased federal employment levels in FY 1995, \$500K will be removed from this ADS pending approval of a RL proposed budget amendment.

**Planning Year (FY 1996) Description(Limit 156 lines or less):**

Support to the Richland direct funded program management activities will continue as described for FY 1995.

**Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):**

Support to the Richland direct funded program management activities will continue as described for FY 1995.

**Impacts/Assumptions(Limit 42 lines or less):**

RL Program Management support requirements will continue for the life of the ER Program. Beginning in FY 1995, funding for Tribal Government participation in the Hanford Site cleanup will be assumed by EM-60. Beginning in FY 1995, assessments for General Support Services Contractor shared support will be assumed by EM-30.

**Supporting Documents(Limit 5 lines or less):**

Washington State CERCLA Grant RL11883  
Task Order RL12112 under the Master Interagency Agreement with the USACE.  
Technical Support Services Contract RL12434.

**Performance Measures(Limit 15 lines or less):**

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

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DESCRIPTION OF REGULATORY DRIVERS Continued

CERCLA:

Provides EPA enforcement authority for cleaning up contaminated subproject waste sites, and is part of the regulatory authority for the TPA.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the environmental restoration program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA R:

Affected Scoop/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of environmental cleanup activities are assessed.

TRI:

All subproject activities are affected by the TPA, an agreement and schedule between DOE, EPA, and Ecology for the cleanup of the past practice waste sites at Hanford.

DESCRIPTION OF REGULATORY DRIVERS CONTINUED

DECEMBER

Provides EIA enforcement authority for cleaning up contaminated sites  
waste sites, and is part of the regulatory authority for the TIA

DATE:

Various DOE Orders to provide and/or implement best management practices  
for policy and guidance to execute the environmental restoration program.  
The project scope, cost, and schedule are a direct result of complying to  
these various orders.

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NEPA 8

Application of the Regulatory Drivers Schedule: Affected Scope/Schedule:  
activities is to ensure that potential impacts are assessed.

TR1:

All subject activities are affected by the TIA, an agreement and  
schedule between DOE, EIA, and Ecology for the cleanup of the past  
practice waste sites at Hanford

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Operations Office: RL ID No.: 3500- 0 Revision Date: 4/22/1994  
 ADS Title: ASBESTOS ABATEMENT  
 WBS No.: 1.4.10.1.2.1 Category: ER Appr.: D  
 Project Title: ASBESTOS ABATEMENT Facility/WAG: SITE WIDE  
 Installation: HANFORD CID: RL10930 XOVHD: 19  
 For Line Item Project: N/A TPC: 167172 TEC: 167172  
 Contig: 0  
 CNTR Manager: MIX, PD Phone: 509-376-0787  
 O.O. Manager: COLLINS, JP Phone: 509-376-7100  
 H.Q. Manager: JANASKIE, M Phone: 301-903-7428  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: Y CWA: N SDWA: N RCRA: N 3004U: N TSCA: Y CERCLA: N NEPA: N  
 DOE: Y IAG: N OSHA: Y ORD: N ST : N TRI : N FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			IMM RISK
					DECREMENT	TARGET	PLAN	
OE	1,617	2,801		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	3,203	3,203	3,203	3,203
TOTAL	1,617	2,801		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	3,203	3,203	3,203	3,203

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	3,203
CE	0
GPP	0
LI	0
TOTAL	3,203

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	3,203	3,076	3,542	3,668	3,794
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>3,203</b>	<b>3,076</b>	<b>3,542</b>	<b>3,668</b>	<b>3,794</b>

FTEs	FY94	FY95
Direct	19	26
Indirect	16	22
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	29	27	31	31	31
Indirect	24	23	26	26	26
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	3,203	3,076	3,542	3,668	3,794
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>3,203</b>	<b>3,076</b>	<b>3,542</b>	<b>3,668</b>	<b>3,794</b>

FTEs	FY94	FY95
Direct	19	26
Indirect	16	22
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	29	27	31	31	31
Indirect	24	23	26	26	26
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: D&D				FY96 DRIVER CATEGORY			
SUB-DESC: C PROGRAM: EM SUBACT: RA				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: ASBESTOS ABATEMENT							
APPROP: D							
			A	0	0	0	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
			D	0	0	0	0
EW2010402	1,617	2,801	E	3,203	3,203	3,203	3,203
35EW20100	0	0	F	0	0	0	0
39EW20100	0	0	G	0	0	0	0
39EW20100	0	0	H	0	0	0	0
			I	0	0	0	0
<b>TOTAL</b>	<b>1,617</b>	<b>2,801</b>	<b>TOTAL</b>	<b>3,203</b>	<b>3,203</b>	<b>3,203</b>	<b>3,203</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010402	3,203
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>3,203</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010402	3,203	3,076	3,542	3,668	3,794
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>3,203</b>	<b>3,076</b>	<b>3,542</b>	<b>3,668</b>	<b>3,794</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010402	3,203	3,076	3,542	3,668	3,794
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>3,203</b>	<b>3,076</b>	<b>3,542</b>	<b>3,668</b>	<b>3,794</b>

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**A106 Cross References**

A106 Number: D/D-017 Date: 6/23/92  
Title: ASBESTOS ABATEMENT  
Federal Facility Identification:  
Region: Assessment:  
Status: Progress:

**Tiger Team Cross References**

Tiger Team Finding Number: Date:  
Title:

**FY95-99 ADS Cross References**

ADS #: RL 3500 0  
Title: ASBESTOS ABATEMENT  
Transferred in its entirety: Y  
Explanation of Change:  
NO CHANGE

**MILESTONES**

Milestone No.: Milestone Seq: 3500-00-0045 TPA MS NO.: NONE  
Title: UPDATE THE AAP FOR FY 1995 AND SUBMIT TO RL FOR APPROVAL  
Planning Date Target Date Decrement Date Level: FO Keyword: CI  
8/15/1994 8/15/1994 8/15/1994 PTS: N SMS: Y  
Driver Name: CAA Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y  
Description:  
The AAP is updated on an annual basis in order to ensure that current information  
pertaining to the asbestos abatement program is up-to-date and complete.

Milestone No.: Milestone Seq: 3500-00-0010 TPA MS NO.: NONE  
Title: PROVIDE WORK PERFORMANCE REPORT PER AAP (QUARTERLY) (SEE DESC.)  
Planning Date Target Date Decrement Date Level: FO Keyword: CI  
9/30/1994 9/30/1994 9/30/1994 PTS: N SMS: N  
Driver Name: CAA Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y  
Description:  
CONT. MS TITLE: PROVIDE WORK PERFORMANCE REPORT PER ASBESTOS ABATEMENT PLAN  
(QUARTERLY)

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MILESTONES Continued

Milestone No.: Milestone Seq: 3500-00-0015 TPA MS NO.: NONE  
Title: PROVIDE WORK PERFORMANCE REPORT PER AAP (QUARTERLY) (SEE DESC.)  
Planning Date Target Date Decrement Date Level: FO Keyword: CI  
9/30/1995 9/30/1995 9/30/1995 PTS: N SMS: N  
Driver Name: CAA Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
CONT. MS TITLE: PROVIDE WORK PERFORMANCE REPORT AGAINST ASBESTOS ABATEMENT PLAN  
(QUARTERLY)

Milestone No.: Milestone Seq: 3500-00-0020 TPA MS NO.: NONE  
Title: PROVIDE WORK PERFORMANCE REPORT AGAINST AAP QUARTERLY (SEE DESC)  
Planning Date Target Date Decrement Date Level: FO Keyword: CI  
9/30/1996 9/30/1996 9/30/1996 PTS: N SMS: N  
Driver Name: CAA Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
CONT. MS TITLE: PROVIDE WORK PERFORMANCE REPORT AGAINST ASBESTOS ABATEMENT PLAN  
(QUARTERLY)

Milestone No.: Milestone Seq: 3500-00-0025 TPA MS NO.: NONE  
Title: PROVIDE WORK PERFORMANCE REPORT AGAINST AAP QUARTERLY (SEE DESC)  
Planning Date Target Date Decrement Date Level: FO Keyword: CI  
9/30/1997 9/30/1997 9/30/1997 PTS: N SMS: N  
Driver Name: CAA Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
CONT. MS TITLE: PROVIDE WORK PERFORMANCE REPORT AGAINST ASBESTOS ABATEMENT PLAN  
(QUARTERLY)

Milestone No.: Milestone Seq: 3500-00-0030 TPA MS NO.: NONE  
Title: COMPLETE ALL PRIORITY CLASS A & B ABATEMENT IN EM-40 FACILITIES  
Planning Date Target Date Decrement Date Level: HQ Keyword: CI  
9/30/1998 9/30/1998 9/30/1998 PTS: N SMS: N  
Driver Name: CAA Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Refer to Budget Year (FY 1995) description for priority classification definition.

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Milestone No.: Milestone Seq: 3500-00-0035 TPA MS NO.: NONE  
Title: PROVIDE WORK PERFORMANCE REPORT AGAINST AAP QUARTERLY (SEE DESC)  
Planning Date Target Date Decrement Date Level: FO Keyword: CI  
9/30/1998 9/30/1998 9/30/1998 PTS: N SMS: N  
Driver Name: CAA Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
CONT. MS TITLE: PROVIDE WORK PERFORMANCE REPORT AGAINST ASBESTOS ABATEMENT PLAN  
(QUARTERLY)

Milestone No.: Milestone Seq: 3500-00-0040 TPA MS NO.: NONE  
Title: PROVIDE WORK PERFORMANCE REPORT AGAINST AAP QUARTERLY (SEE DESC)  
Planning Date Target Date Decrement Date Level: FO Keyword: CI  
9/30/1999 9/30/1999 9/30/1999 PTS: N SMS: N  
Driver Name: CAA Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
CONT. MS TITLE: PROVIDE WORK PERFORMANCE REPORT AGAINST ASBESTOS ABATEMENT PLAN  
(QUARTERLY)

Milestone No.: Milestone Seq: 3500-00-0005 TPA MS NO.: NONE  
Title: PROVIDE WORK PERFORMANCE REPORT PER AAP (QUARTERLY) (SEE DESC.)  
Planning Date Target Date Decrement Date Level: FO Keyword: CI  
9/30/2000 9/30/2000 9/30/2000 PTS: N SMS: N  
Driver Name: CAA Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
CONT. MS TITLE: PROVIDE WORK PERFORMANCE REPORT PER ASBESTOS ABATEMENT PLAN  
(QUARTERLY)

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:20:14

Technical Scope Summary(Limit 15 line or less):

Safety in the workplace is Hanford's number one priority. Consistent with Thomas Grumbly's initiative -- 'provide a SAFE WORKPLACE that is free from accidents, injuries, and adverse health effects,' safety is and shall continue to be the number one value for all asbestos abatement activities performed on the Hanford Site. Safety performance is exemplified by a strong commitment to ensure safety in the workplace and environment, free

NARRATIVE Continued

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from any adverse or unnecessary risks due to asbestos-containing material (ACM) exposure.

This activity provides funds for management and coordination of a sitewide asbestos abatement program, that will complete asbestos abatement activities in those facilities which represent high asbestos exposure risk (A and B) by the end of FY98. Commencing in FY99 the focus will shift to asbestos removal in the surplus production reactors.

Technical Scope Detail(Limit 104 lines or less):

The primary purpose of this activity will be to continue to fund those management and coordination practices which will be required to support a sitewide asbestos abatement program over the entire ADS planning period, with the focus on high priority abatement activities which pose the greatest risk from ACM exposure and related human health hazards. This activity will provide funding for the necessary staff and materials to perform actual field abatement activities required to minimize potential health hazards for facilities specifically assigned to the EM-40 Program. Beginning in the FY99 time frame, focus of this activity will shift from high-priority abatement sites to ACM removal in support of the Surplus Production Reactor (SPR) Removal Program.

It is the intent of this activity to continue to support all high-priority asbestos abatement workscope by working closely with responsible individuals from the other Programs in achieving safe, cost effective asbestos abatement in those Site facilities currently assigned to them (i.e., EM-30, EM-60, DP and NE). Costs, if any, incurred from field abatement activities performed in facilities that specifically are not assigned to the EM-40 Program will be collected and tracked separately from the EM-40 facility abatement costs. Compliant to guidance provided -- Letter, R. D. Freeberg, RL to President, WHC, 'Hanford Site Asbestos Abatement Plan Revision Directive,' ERD:ACH dated June 11, 1993; no EM-40 funding shall be authorized for any non EM-40 asbestos abatement projects without prior, written approval from the U. S. Department of Energy.

For estimating purposes, costs identified within the budget, planning, and outyear descriptions are considered to be conceptual estimates based on historical cost performance. Unit values for piping system and surfacing material project estimates have been calculated using a range of values (~\$125 - \$150 per linear foot) and (~\$60 - \$75 per square foot), respectively. Included in each of the cost estimates is a 25% adder to cover air monitoring performed by the Hanford Environmental Health Foundation (HEHF) before, during, after completion of the project. Another ~3% was added 'on-top-of' the cost estimate to cover disposal costs for either nonrad wastes (@ ~\$30/cubic yard) or disposal costs for low-level wastes (@ ~\$65/cubic foot).

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Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

During FY94, the EM-40 Program Office will complete abatement of 17,600 linear feet of asbestos-insulated piping systems and 4,500 square feet of tank and vessel insulation. This will attribute for 25% of all asbestos abatement performed at Hanford in FY94.

Additionally, this activity was responsible for successfully managing and coordinating of the first round of facility assessments and inspections performed on the Hanford Site. Facility assessments and inspections cut across all traditional Programmatic and GOCO boundaries. This was the first successful attempt in conducting a total, Sitewide assessment of all high-priority asbestos sites across the entire Hanford Site. Through extensive walkdowns and inspections, all high-priority abatement projects have now been identified for all Programs at Hanford.

Budget Year (FY 1995) Description(Limit 52 lines or less):

Results from the facility assessments, revealed there were a total of 105 high-priority, (Class A or B), asbestos sites that will require abatement over the next planning period. Five of the high-priority sites are prioritized as Class 'A' and will require abatement actions during the budget year. One of five facilities (109-N Heat Exchanger), belongs to EM-40. The other four facilities (271-B Plant, MO931, MO933 and 271-T Plant) are assigned to either the EM-30 or the EM-60 Programs per the Surplus Facilities Inventory Asset (SFIA) listing.

PRIORITY CLASSIFICATION -- Based on health risks associated with asbestos-containing material (ACM) exposure, facility projects have been categorized/prioritized as either Class 'A', 'B', or 'C'. Priority classifications have been briefly summarized, herein, for information purposes. For more detailed information on priority classifications and definitions, refer to -- Hanford Site Asbestos Abatement Plan, WHC-EP-0390, Revision 1, WHC Richland, Washington. Categories have been ranked from highest health risk to the lowest with Class 'A' representing the highest risk to human health (e.g., Class 'A' - damaged, friable and accessible asbestos; Class 'B' - nondamaged and friable asbestos; and Class 'C' - damaged or nondamaged, nonfriable asbestos. Included under 'C' category are abandon surplus facilities).

In FY95, the total estimated cost is \$ 2801K (program dollars) which represents a 51% increase over FY94. Growth in FY95 is primarily due to increased target funding required to support high-priority, asbestos abatement workscope planned at the 109-N Heat Exchanger Facility (Class A).

Target funding planned in FY95 is broken down into the following three workscope elements:

(1) Continuation of management, coordination and oversight (\$319K) of all asbestos abatement activities, focusing on those facilities that have been

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designated as high-priority and ensuring that, at a minimum, all facilities located on the Hanford Site: (a) remain compliant with applicable regulatory statutes governing the control of asbestos and, (b) represent the lowest ACM exposure risk in order to ensure a safe and healthy environment to onsite personnel and the general public. Since this Program is on-going; asbestos abatement/assessment information and status will need to be updated on an annual basis in order to ensure proper application of priority assignments on future abatement projects. Included in the FY95 budget, is funding for continuing preparation of cost estimates and requisite work plans on selected EM-40 asbestos abatement projects located in the 100 and 200 Areas. (2) Six asbestos abatement planned under the FY95 target funding levels (\$2054K). The six projects include: 108-N (\$4K); 182-N (\$25K); 183-N (\$25K); 105-C roof ductwork (\$600K); 211-S tank farms (\$400K); and continued abatement at the 109-N (\$1000K). The 109-N Project completion is planned for the end of FY98. (3) Balance of the FY95 costs are due to estimated disposal costs (\$85K); programmatic adders i.e., general & administrative (\$69K) and common support pool (\$211K); and an additional \$63K to cover escalation rates which were established at 2.3% in FY95.

Planning Year (FY 1996) Description(Limit 156 lines or less):

Three funding levels will accomplish the same amount of work, since the funding levels under this ADS are the same for decrement, target, and planning in FY96. In FY96, total estimated cost is \$ 3203K (program dollars). Like FY95, target funding planned in FY96 is broken down into the following three workscope elements:

(1) Continuation of management, coordination and oversight (\$ 319K) of all asbestos abatement activities, focusing on high-priority facilities.

(2) Five asbestos abatement projects planned under the FY96 target funding levels. Five projects include: 105-N (\$ 400K); 105-KE (\$ 250K); 105-KW (\$ 250K); 221-U (\$ 300K); and continuation of the asbestos abatement effort at the 109-N (\$ 1133K) during FY96.

(3) The balance of the FY996 costs are due to estimated disposal costs (\$ 101K); programmatic adders i.e., general & administrative (\$ 71K) and common support pool (\$ 237K); and an additional \$ 142K to cover escalation rates which were established at 2.3% in FY96.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

In FY97, funding has been identified for on-going management, coordination, and oversight (\$ 319); eight selected EM-40 asbestos abatement projects (\$ 2164) e.g., 184-N, 184-NA, 1314-N, 1722-N, 1734-N, 166-N, 224-B and 109-N; disposal costs (\$ 100K); programmatic adders (\$ 293K); and a 2.2% escalation charge (\$ 200K). Total estimated cost for FY97 is \$ 3076K (program dollars).

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In FY98, funding has been identified for on-going management, coordination, and oversight (\$ 319K); two selected EM-40 asbestos abatement projects (\$ 2500K); e.g., 202-S REDOX and completion of the 109-N; disposal costs (\$ 100K); programmatic adders (\$ 321K); and a 2.2% escalation charge (\$ 302K). Total estimated cost for FY98 is \$ 3542K (program dollars). Beginning in FY99, this activity will shift its focus from ACM removal in high priority sites to the SPR Removal Program.

In FY99, funding has been identified for on-going management, coordination, and oversight (\$ 353K); selected EM-40 asbestos abatement projects in support of the SPR Removal Program (\$ 2500) e.g., 105-F; disposal costs (\$ 100K); programmatic adders (\$ 331K); and a 2.2% escalation charge (\$ 385K). Total estimated cost for FY99 is \$ 3669K (program dollars).

In FY 2000, funding has been identified for on-going management, coordination, and oversight (\$ 384); selected EM-40 asbestos abatement projects in support of the SPR Removal Program (\$ 2500) e.g., 105-H; disposal costs (\$ 100K); programmatic adders (\$ 339K); and a 2.2% escalation charge (\$ 471K). Total estimated cost for FY 2000 is \$ 3794K (program dollars).

**Impacts/Assumptions(Limit 42 lines or less):**

No programmatic impacts are identified at this time. Since decommissioning of the 105-C Surplus Production Reactor is now planned (planning funding levels only) in FY 2000, funding to support asbestos abatement (and removal) in time to support the 105-C Reactor core removal will need to be addressed and funded under ADS 3510, 100 Area D&D.

**Supporting Documents(Limit 5 lines or less):**

Primary supporting documentation applicable to the Asbestos Abatement program includes Title 40 CFR 61, Subpart M NESHAP, TCAPA Article 10 Title 29 CFR 1910.1001 (air sampling), and OSHA standards mandated by DOE Orders 5480.4 and 5483.1A for work protection and safety.

**Performance Measures(Limit 15 lines or less):**

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

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DESCRIPTION OF REGULATORY DRIVERS

CAA:

The Clean Air Act provides policy and guidance related to the release of asbestos fibers and other emissions that may be present during decommissioning and demolition activities.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the Environmental Restoration Program. The project scope, cost, and schedule are direct result of conforming to these various orders.

OSHA:

Occupational Safety and Health Administration regulations are used for confined space entry, ladders, egress requirements, and fall protection.

TSCA:

The Toxic Substance Control Act regulates the disposal of asbestos containing material.

DESCRIPTION OF REGULATORY DRIVERS

CERCLA  
The Clean Air Act provides policy and guidance related to the release of asbestos fibers and other contaminants that may be present during decommissioning and demolition activities.

DOE  
Various DOE Orders to provide and guidance for policy and guidance for project scope, cost, and schedule are contained in these various orders  
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OSHA  
Occupational Safety and Health Administration regulations are used for confined space entry, ladders, egress requirements, and fall protection.

TSCA  
The Toxic Substances Control Act regulates the disposal of asbestos containing material.

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Operations Office: RL ID No.: 3510- 0 Revision Date: 4/22/1994  
 ADS Title: 100 AREA  
 WBS No.: 1.4.10.1.2.2 Category: ER Appr.: D  
 Project Title: 100 AREA Facility/WAG: 100 AREAS  
 Installation: HANFORD-100 CID: RL10930 %OVHD: 19  
 For Line Item Project: N/A TPC: 805447 TEC: 805447  
 Contig: 175680  
 CNTR Manager: MIX, PD Phone: 509-376-0787  
 O.O. Manager: COLLINS, JP Phone: 509-376-7100  
 H.Q. Manager: MACKENZIE, D Phone: 301-903-7426  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: Y CWA: N SDWA: N RCRA: N 3004U: N TSCA: N CERCLA: N NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : N FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			
					DECREMENT	TARGET	PLAN	IMM RISK
OE	10,374	21,814		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	13,601	21,251	21,251	21,251
<b>TOTAL</b>	<b>10,374</b>	<b>21,814</b>		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				<b>TOTAL</b>	<b>13,601</b>	<b>21,251</b>	<b>21,251</b>	<b>21,251</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	13,601
CE	0
GPP	0
LI	0
<b>TOTAL</b>	<b>13,601</b>

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TARGET LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	21,251	25,295	31,777	38,563	45,757
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>21,251</b>	<b>25,295</b>	<b>31,777</b>	<b>38,563</b>	<b>45,757</b>

  

FTEs	FY94	FY95
Direct	87	121
Indirect	73	102
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	103	147	187	182	149
Indirect	87	123	157	153	125
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	21,251	25,295	31,777	38,563	45,757
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>21,251</b>	<b>25,295</b>	<b>31,777</b>	<b>38,563</b>	<b>45,757</b>

  

FTEs	FY94	FY95
Direct	87	121
Indirect	73	102
Federal	0	0

  

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	103	147	187	182	149
Indirect	87	123	157	153	125
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: D&D						FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 100 AREA D&D - ASSESSMENT									
APPROP: D									
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D	E	F
EW2010401	5,212	10,177		0	0	0	0	6,566	7,066
35EW20100	0	0		0	0	0	0	0	0
39EW20100	0	0		0	0	0	0	0	0
39EW20100	0	0		0	0	0	0	0	0
<b>TOTAL</b>	<b>5,212</b>	<b>10,177</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6,566</b>	<b>7,066</b>
				<b>TOTAL</b>	<b>6,566</b>	<b>7,066</b>	<b>7,066</b>	<b>7,066</b>	<b>7,066</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010401	6,566
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>6,566</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010401	7,066	7,116	9,154	3,289	2,959
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>7,066</b>	<b>7,116</b>	<b>9,154</b>	<b>3,289</b>	<b>2,959</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010401	7,066	7,116	9,154	3,289	2,959
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>7,066</b>	<b>7,116</b>	<b>9,154</b>	<b>3,289</b>	<b>2,959</b>

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**Budget Detail Profile**

DESC: D&D				FY96 DRIVER CATEGORY				
SUB-DESC: C PROGRAM: EM SUBACT: RA				DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: 100 AREA D&D - REMEDIAL ACTION								
APPROP: D				A	0	0	0	0
				B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0	0
				D	0	0	0	0
EW2010402	5,162	11,637		E	7,035	14,185	14,185	14,185
35EW20100	0	0		F	0	0	0	0
39EW20100	0	0		G	0	0	0	0
39EW20100	0	0		H	0	0	0	0
				I	0	0	0	0
TOTAL	5,162	11,637		TOTAL	7,035	14,185	14,185	14,185

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010402	7,035
35EW20100	0
39EW20100	0
39EW20100	0
TOTAL	7,035

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010402	14,185	18,179	22,623	35,274	42,798
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	14,185	18,179	22,623	35,274	42,798

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010402	14,185	18,179	22,623	35,274	42,798
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
TOTAL	14,185	18,179	22,623	35,274	42,798

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**A106 Cross References**

A106 Number: D/D-005

Date: 6/23/92

Title: DECOMMISSIONING 100 AREA REACTORS

Federal Facility Identification:

Region:

Status:

Assessment:

Progress:

Date: 6/23/92

A106 Number: D/D-006

Title: DECOMMISSIONING 100 AREA EFFLUENTS - GF

Federal Facility Identification:

Region:

Status:

Assessment:

Progress:

Date: 6/23/92

A106 Number: D/D-007

Title: DECOMMISSIONING 100 AREA ANCILLARIES

Federal Facility Identification:

Region:

Status:

Assessment:

Progress:

Date: 6/23/92

A106 Number: D/D-013

Title: 100/200/300 AREAS CLEANUP OF EXCESS SUPPORT FACs.

Federal Facility Identification:

Region:

Status:

Assessment:

Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:

Date:

Title:

**FY95-99 ADS Cross References**

ADS #: RL 3510 0

Title: 100 AREA D&D

Transferred in its entirety: Y

Explanation of Change:

NO CHANGE

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MILESTONES

Milestone No.: Milestone Seq: 3510-00-0145 TPA MS NO.: NONE  
Title: ISSUE A PLAN TO IMPLEMENT PRIORITIZED CORRECTIVE ACTIONS  
Planning Date Target Date Decrement Date Level: FO Keyword: CC  
12/31/1993 12/31/1993 PTS: N SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y

Description:

On February 2, 1994, the Risk Management Study for retired Hanford Site Facilities, WHC-EP-0619 (Vol 1-4) was approved by RL. Impacts of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0080 TPA MS NO.: NONE  
Title: COMPLETE DEMOLITION OF 185-B/190-B COMPLEX  
Planning Date Target Date Decrement Date Level: HQ Keyword: CC  
1/28/1994 1/28/1994 PTS: Y SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y

Description:

Complete demolition of the 190-B High Bay. Proceed with site interim stabilization. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0135 TPA MS NO.: NONE  
Title: INITIATE CONCEPTUAL DESIGN CDR (C-REACTOR)  
Planning Date Target Date Decrement Date Level: FO Keyword: CC  
1/31/1994 1/31/1994 PTS: N SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y

Description:

Initiate the CDR for the 105-C Reactor block removal. CDR is required per DOE Order 4700.1. Impacts of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0020 TPA MS NO.: NONE  
Title: FY93 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS REPORT  
Planning Date Target Date Decrement Date Level: HQ Keyword: O  
12/31/1993 4/30/1994 PTS: Y SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y

Description:

Annual report identifies all Surveillance & Maintenance activities completed during FY 1993. Impacts of decrement case has not been determined.

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 3510-00-0110 TPA MS NO.: NONE  
Title: COMPLETE MATERIAL PROCESSING AT 185-B/190-B COMPLEX  
Planning Date Target Date Decrement Date Level: HQ Keyword: CC  
6/30/1994 6/30/1994 PTS: Y SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y  
Description:  
Material processing is an integral part of site interim stabilization. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0005 TPA MS NO.: NONE  
Title: COMPLETE DEMOLITION OF 190-D HIGH BAY  
Planning Date Target Date Decrement Date Level: HQ Keyword: CC  
9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: DOE Driver Reference: none  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y  
Description:  
The intent of this milestone is to demolish the high bay at 190-D by 9/30/94. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0010 TPA MS NO.: M-16-80  
Title: M-16-80 SUB ENG EVAL/COST ANAL 100 AREA RIVERLINES (SEE DESC.)  
Planning Date Target Date Decrement Date Level: HQ Keyword: ROD  
9/30/1994 9/30/1994 PTS: Y SMS: Y  
Driver Name: TRI Driver Reference: TPA 4TH AMEND 1/94  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y  
Description:  
CONT. MS TITLE: M-16-80 Sumbit engineering evaluation/cost analysis for 100 Area Reactor Effluent Pipeline removal. Impact of Decrement Case has not yet been determined.

Milestone No.: Milestone Seq: 3510-00-0070 TPA MS NO.: NONE  
Title: ISSUE FINAL PROJECT CLOSEOUT REPORT TO RL (185-B/190-B)  
Planning Date Target Date Decrement Date Level: FO Keyword: CC  
9/30/1994 9/30/1994 PTS: N SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y  
Description:  
Final report is required to complete project closeout requirements. Impact of decrement case has not been determined.

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 3510-00-0120 TPA MS NO.: NONE  
Title: COMPLETE CONCEPTUAL DESIGN REPORT FOR 105-C REACTOR  
Planning Date Target Date Decrement Date Level: FO Keyword: ROD  
9/30/1994 9/30/1994 PTS: N SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y  
Description:  
CDR is required per DOE Order 4700.1. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0140 TPA MS NO.: NONE  
Title: COMPLETE SAFETY DOCUMENTATION PROGRAM PLAN (C-REACTOR)  
Planning Date Target Date Decrement Date Level: FO Keyword: ROD  
9/30/1994 9/30/1994 PTS: N SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y  
Description:  
Complete safety documentation required to support definitive design starting in FY 1995. Impacts of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0025 TPA MS NO.: NONE  
Title: FY94 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS REPORT  
Planning Date Target Date Decrement Date Level: HQ Keyword: O  
12/31/1994 12/31/1994 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Annual report will describe all Surveillance & Maintenance activities completed in FY 1994. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0105 TPA MS NO.: NONE  
Title: COMPLETE DEMOLITION OF THE 190-D COMPLEX  
Planning Date Target Date Decrement Date Level: HQ Keyword: CC  
9/30/1995 9/30/1995 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Complete demolition and site interim stabilization at the 190-D Complex. Impact of decrement case has not been determined.

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Milestone No.: Milestone Seq: 3510-00-0030 TPA MS NO.: NONE  
Title: FY95 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS REPORT  
Planning Date Target Date Decrement Date Level: HQ Keyword: O  
12/31/1995 12/31/1995 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Annual report describes all Surveillance & Maintenance activities completed in FY 1995. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0090 TPA MS NO.: NONE  
Title: PREPARE AND ISSUE WORK PLAN FOR 190-C DEMOLITION  
Planning Date Target Date Decrement Date Level: CNTR Keyword: SA  
12/31/1995 12/31/1995 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Prepare and issue work plan for demolition and site interim stabilization required at the 190-C Complex. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0125 TPA MS NO.: NONE  
Title: COMPLETE DEMOLITION OF THE 108-F BIOLOGY LAB PER WORK PLAN  
Planning Date Target Date Decrement Date Level: CNTR Keyword: CC  
9/30/1996 9/30/1996 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Complete demolition and interim stabilization of the 108-F. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0035 TPA MS NO.: NONE  
Title: FY96 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS REPORT  
Planning Date Target Date Decrement Date Level: HQ Keyword: O  
12/31/1996 12/31/1996 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Annual report will describe all Surveillance & Maintenance activities completed in FY 1996. Impact of decrement case has not been determined.

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Milestone No.: Milestone Seq: 3510-00-0050 TPA MS NO.: NONE  
Title: COMPLETE HIGH PRIORITY CORRECTIVE MAINTENANCE PER (see desc)  
Planning Date Target Date Decrement Date Level: HQ Keyword: CC  
9/30/1997 9/30/1997 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Title: Complete high priority corrective maintenance per 100/200 Area Risk  
Assessment. Description: Complete all critical and serious corrective maintenance  
upgrades. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0095 TPA MS NO.: NONE  
Title: COMPLETE DEMOLITION OF 190-C ANCILLARY PER WORK PLAN  
Planning Date Target Date Decrement Date Level: CNTR Keyword: CC  
9/30/1997 9/30/1997 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Complete demolition and interim stabilization of the 190-C Complex. Impact of  
decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0040 TPA MS NO.: NONE  
Title: FY97 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS REPORT  
Planning Date Target Date Decrement Date Level: HQ Keyword: O  
12/31/1997 12/31/1997 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Annual report will describe all Surveillance & Maintenance activities completed in  
FY 1997. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0065 TPA MS NO.: NONE  
Title: PREPARE AND ISSUE WORK PLAN FOR DEMOLITION OF 183-C  
Planning Date Target Date Decrement Date Level: CNTR Keyword: CC  
3/31/1998 3/31/1998 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Prepare and issue work plan for demolition and site interim stabilization required  
at the 183-C Complex. Impact of decrement case has not been determined.

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Milestone No.: Milestone Seq: 3510-00-0115 TPA MS NO.: NONE  
Title: COMPLETE DEMOLITION OF 117-DR & 119-DR ANCILLARIES PER WORK PLAN  
Planning Date Target Date Decrement Date Level: CNTR Keyword: CC  
9/30/1998 9/30/1998 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Complete demolition and interim stabilization of the 117/119-DR Facilities. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0130 TPA MS NO.: NONE  
Title: COMPLETE 100-BC-1 RIVERLINE REMEDIAL ACTIONS  
Planning Date Target Date Decrement Date Level: CNTR Keyword: CC  
9/30/1998 9/30/1998 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Complete the 100-BC-1 Riverline Remedial Actions per the EE/CA and Action Memorandum. Impact of Decrement Case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0045 TPA MS NO.: NONE  
Title: FY98 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS REPORT  
Planning Date Target Date Decrement Date Level: HQ Keyword: O  
12/31/1998 12/31/1998 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Annual report will describe all Surveillance & Maintenance activities that will be completed in FY 1998. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0055 TPA MS NO.: NONE  
Title: COMPLETE REMAINING "MODERATE" 100/200 AREA RISK ASSESSMENT WORK  
Planning Date Target Date Decrement Date Level: CNTR Keyword: CC  
9/30/1999 9/30/1999 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Completion of this milestone represents completion of all risk reduction actions identified in the Risk Management Study for Retired Hanford Site Facilities (WHC-EP-0619 Vol. 1-4). Impact of decrement case has not been determined.

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Milestone No.: Milestone Seq: 3510-00-0015 TPA MS NO.: NONE

Title: FY99 ISSUE FINAL ANNUAL SURVEILLANCE & MAINTENANCE STATUS REPORT

Planning Date Target Date Decrement Date Level: HQ Keyword: O  
12/31/1999 12/31/1999 PTS: N SMS: N

Driver Name: DOE Driver Reference: NONE

PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y

Description:

Annual report will describe all Surveillance & Maintenance activities completed in FY 1999. Impact of decrement case has not been determined.

Milestone No.: Milestone Seq: 3510-00-0085 TPA MS NO.: NONE

Title: COMPLETE DEFINITIVE DESIGN/INITIATE FINAL PHASE (105-C)(see desc)

Planning Date Target Date Decrement Date Level: HQ Keyword: CC  
12/31/1999 12/31/1999 PTS: N SMS: N

Driver Name: DOE Driver Reference: NONE

PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y

Description:

TITLE: DESC: Complete definitive design (Title II) per DOE Order 4700.1 and initiate final phase of 105-C Reactor block removal project. Impact of decrement case has not been determined.

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:19:31

Technical Scope Summary(Limit 15 line or less):

Decontamination & decommissioning (D&D) of the 100 Area surplus facilities is a major activity in the Environmental Restoration (ER) Program representing a significant part of the overall cleanup mission (TPA M-16-00) and funding at the Hanford Site. The primary emphasis of this activity focuses on those surplus facilities that have undergone the greatest deterioration and pose the greatest risk to human health and the environment. This activity data sheet (ADS) funds five sub-activities which include: 100 Area surveillance and maintenance (S&M); reactor engineering and D&D of the 100 Area surplus production reactors; risk-assessment corrective activities (100/200 Area walkdown); D&D of 100 Area ancillary facilities (commonly referred to as D&D projects); and one expedited response action (ERA) to stabilize and/or remove the reactor effluent lines that extend into the Columbia River (TPA M-16-80).

Technical Scope Detail(Limit 104 lines or less):

The primary objective of the D&D program is to eliminate potential human

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health and safety hazards by accelerating D&D work on highly deteriorated, surplus (abandoned) facilities located on the Hanford Site. According to the Surplus Facilities Inventory Asset (SFIA), there are currently 62 D&D Projects scheduled for decommissioning located in the 100 Area; over 30 of which are scheduled to be demolished by FY 2000. Another 83+ facilities have been identified for deactivation at the N Reactor Complex under ADS 3600. In addition to these D&D facilities (surplus and N Reactor), there is a significant number of operating facilities on the Hanford Site which are now undergoing shutdown and deactivation procedures, and will be declared surplus during this planning period. Although the total number of surplus facilities requiring D&D actions continues to increase, no additional funds have been identified under this ADS to support either the deactivation or the transition of these facilities into the 100 Area D&D Program. As ex-operating facilities transition into a shutdown mode, supplemental funding will need to be identified and forthcoming into the D&D Program in order to meet the increasing 'challenges' of a growing surplus facility inventory.

Target funding supports five sub-activities: S&M; corrective activities; reactor engineering/(105-C); D&D Projects and the riverline ERA.

On-going, routine S&M activities are being conducted at all 62 100 Area surplus facilities in accordance with DOE Order 5820.2A, OSHA and applicable DOE Orders and regulations. S&M activities ensure adequate containment and site control of radiological, environmental and safety hazards for the protection of onsite workers and the public. Routine S&M (e.g., facility surveys for electrical hazards, fall protection, pest control, and etc.) will continue as long as necessary until the 100 Area surplus facilities are totally decommissioned. Compliant to Thomas Grumbly initiatives, primary emphasis will continue to focus on those facilities which have undergone the greatest deterioration and pose the greatest risk to human health and the environment. A safe workplace is the number one value for the D&D Program.

An integral part of S&M is the risk assessment corrective maintenance program which is crucial to maintaining a minimum safe condition for our abandon surplus facilities. Vital risk-assessment information (data) was gathered during extensive walkdowns and field interviews in FY 1993, and was later used in FY 1994 to develop risk-based analysis. Due to the extensive nature of risks identified in the analysis, funding to support the risk assessment corrective maintenance effort has been extended from FY 1997 through FY 1999. The risk assessment corrective maintenance are those corrective actions that are considered above and beyond the scope of routine S&M. (Examples of corrective maintenance activities include electrical upgrades, fall protection upgrades, roof repairs and/or replacements).

The 100 Area Surplus Production Reactors (SPR) represent the highest source term of all the 100 Area facilities. The reactor structures are in poor condition and will require significant maintenance as they gradually

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deteriorate with age. These structures were built with a 20 year design life and are now 40 to 50 years old. On September 14, 1993, the Environmental Impact Statement-Record of Decision (EIS-ROD) supporting the decommissioning preferred alternative was signed by the Assistant Secretary. The preferred alternative will involve transporting the reactor block, intact on a transport vehicle, from its present location in the 100 Areas to the 200 West Area for disposal. Fundamental technical criteria and detailed design will address performance capabilities, reliability, safety and technical requirements in accordance with applicable State/Federal regulations and DOE Orders. D&D remedial activities required for reactor block removal and final site remediation will be coordinated, to the extent practicable, with the respective operable unit cleanup requirements governed by the TPA, Major Milestone M-16-00, and respective interim milestones specified for the individual operable units (i.e., 100-BC Area). Conceptual design report (CDR) was funded in FY 1994 to support the SPR Project.

During FY 1993 RL and WHC implemented an agreement in principle (AIP) with the EPA and the State of Washington to accelerate D&D work at the Hanford Site. This AIP (strategy) is aimed at reducing the number of surplus facilities on the Hanford Site which will in turn eliminate potential safety hazards and demonstrate meaningful cleanup progress. To this end, approximately 40 facilities are scheduled for D&D over the next five-year planning window. D&D Projects will include demolition of small surplus facilities (i.e., guard shacks) to demolition of major facilities (i.e., 190 water treatment facilities).

Because of the potential hazards associated with the reactor riverlines, a Environmental Engineering/Cost Assessment (EE/CA) was funded in FY 1994 under this activity to ascertain whether it is preferred to remove and/or in-situ stabilize reactor riverlines (TPA M-16-80). Target funding levels have been identified during the planning period for engineering, NEPA, permitting, and riverline removal/stabilization, if required.

Act. Comp. to Date/Current Year (FY 1994) Desc. (Limit 52 lines or less):

All routine S&M activities for the 100 Areas were completed on schedule. In addition to routine S&M, major accomplishments for FY 1994 include: completion of roof repairs at 105-F and -H; completion of all priority 1 electrical repairs/upgrades at 105-C, -D, -H, and -KW; issuance of the Risk Assessment (four volumes); completion of Phase I of the EM-40 SFIA for Hanford; procurement of state-of-the-art demolition equipment which will greatly improve D&D safety as well as accelerate demolition projects and reduce waste disposal costs (i.e., concrete recycling, shearers, and shredder); completion of safe detonation of 190-B Complex high-bay structure; issuance of the first draft of the riverline EE/CA for review and comment; completed 'D' Island survey and vent pipe removal; started the 105-B feasibility study; and completed the first draft of the CDR for the surplus production reactor project.

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Budget Year (FY 1995) Description(Limit 52 lines or less):

Continue with on-going routine S&M (\$2,616K); initiate equipment, asbestos removal and definitive design for the 105-C Reactor block removal project (\$5,666K); continue with high priority corrective maintenance as identified in the risk assessment (\$7,128K); accelerate the 190-D and 108-F demolition projects (\$5,970K); and accelerate NEPA, safety and permitting requirements in support of the riverline EE/CA (\$433K).

Increase in FY 1995 funding represents a significant increase (~110%) from FY 1994. Increase in funding is due to significant growth in four of the five sub-elements: 1) reactor engineering (\$4.3M growth); 2) risk assessment/corrective maintenance upgrades (\$3.8M); 3) D&D Project (\$2.9M); 4) and NEPA/permitting required to support the action memorandum for the 100 Area Reactor Effluent Pipeline ERA (\$.4M).

Planning Year (FY 1996) Description(Limit 156 lines or less):

At the decrement (DEC) funding levels in FY 1996, this activity will continue to fund on-going routine S&M (\$2,713K); continue minimal design support to the 105-C Reactor removal block project (\$266K); continue high-priority corrective maintenance activities (\$3,853K); and complete demolition of the 108-F laboratory, 'kick-off' of the 190-C demolition project, and continue ancillary D&D projects in support of the AIP strategy (\$6,770K).

In addition to planned activities identified under the DEC, both target and planning and the target funding levels will allow for continuation of 105-C Reactor Block Removal Project definitive design as well as equipment removal throughout most of the reactor areas (except for areas inside reactor block core); initiation of definitive design for the 200-West Area Disposal Facility in support of the 105-C Reactor Project, which represents a growth of \$7,151K additional dollars in the target cases over DEC.; and engineering support for riverline NEPA, safety and air permitting requirements per WDOH in support of the EE/CA (\$500K). Planning funding levels in FY 1996 are identical to the target funding levels in this ADSSs.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

Continue S&M; continue corrective maintenance activities until all known risks are mitigated by the end of FY 1999; complete the 190-C water treatment facility D&D project; initiate the 183-C filter plant D&D project; complete all NEPA, safety and permitting requirements and begin riverline removal/ stabilization in the 100-BC-1 and the 100-DR-1 operable units; begin transporter design and procurement in FY 1999 and FY 2000, respectively; and initiate final phase of the 105-C Reactor block removal project by 12/31/99.

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Impacts/Assumptions(Limit 42 lines or less):

The S&M of the facilities will continue for as long as necessary until the facilities are successfully decommissioned. The majority of the facilities are over 40 years old and are in an extremely deteriorated condition. Maintenance costs are expected to steadily increase as the facilities deteriorate with age. Except for the 105-C Reactor block removal project, all estimates used in preparation of this activity data sheet are based on 'preconceptual' estimates developed by Project Time & Cost as well as D&D engineering judgment. Funding to support the EIS-ROD preferred alternative will continue until all of the surplus production reactors are successfully removed from the Columbia River shoreline. A waiver will be prepared and approved authorizing relief from requirements identified in DOE Order 4700.1 which do not apply to expense funded D&D Projects. Since decommissioning of the 105-C Surplus Production Reactor is now planned to start in FY 1995 and complete by FY 2004 (target funding levels), funding to support asbestos abatement (and removal) requirements at 105-C will be covered by this activity. Except for 105-C, funding required to support asbestos removal in the remaining seven surplus production reactors will be addressed in ADS 3500. Funding to support the remediation of the 100 BC Area is addressed in ADS 3105.

Supporting Documents(Limit 5 lines or less):

Includes DOE Orders 5820.2A/4300.1 for D&D performance and verification, OSHA as mandated by DOE Orders 5480.4 and 5483.1A for worker safety, DOE Orders 5480.11-23 for nuclear safety, Title 40 CFR 260-281 addressing hazardous waste, NEPA, and various CAA and CWA permits applicable to D&D.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

DESCRIPTION OF REGULATORY DRIVERS Continued

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DESCRIPTION OF REGULATORY DRIVERS Continued

CAA:

The Clean Air Act provides policy and guidance related to the release of asbestos fibers and other emissions that may be present during decommissioning and demolition activities.

DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the environmental restoration program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA\_R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

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DESCRIPTION OF REGULATORY DEVICES CONTAINED

CAA:

The Clean Air Act provides policy and guidance related to the release of asbestos fibers and other emissions that may be present during decommissioning and demolition activities.

DOE:

Various DOE Orders provide and/or implement best management practices for policy and guidance to evaluate the environmental restoration program. The project scope, cost, and schedule are a direct result of complying with these various orders.

NEPA:

Affected Scope/Post/Schedule: Application of NEPA to the subject activities is to ensure that the project and cleanup activities are managed in accordance with NEPA requirements.

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Operations Office: RL ID No.: 3520- 0 Revision Date: 4/22/1994  
 ADS Title: 200 AREA  
 WBS No.: 1.4.10.1.2.3 Category: ER Appr.: D  
 Project Title: 200 AREA Facility/WAG: 200 AREAS  
 Installation: HANFORD-200 CID: RL10930 ZOVHD: 19  
 For Line Item Project: N/A TPC: 751224 TEC: 751224  
 Contig: 153875  
 CNTR Manager: MIX, PD Phone: 509-376-0787  
 O.O. Manager: COLLINS, JP Phone: 509-376-7100  
 H.Q. Manager: MACKENZIE, D Phone: 301-903-7426  
 Auxiliary Fields: 1. 2. 3.

**WASTE TYPES (% of FY96 Dollars)**

HLW: TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

**REGULATORY DRIVERS**

CAA: Y CWA: N SDWA: N RCRA: N 3004U: N TSCA: N CERCLA: N NEPA: Y  
 DOE: Y IAG: N OSHA: N ORD: N ST : N TRI : N FED : N FFCA:  
 OTHER 1: OTHER 2: OTHER 3:

**Summary Funding Profile**

B&R	FY94 APPR	FY95 PRES	FY95 APPR		DECREMENT	FY96 DRIVER TARGET	CATEGORY PLAN	IMM RISK
OE	6,177	6,878		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	5,745	5,745	5,745	5,745
TOTAL	6,177	6,878		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	5,745	5,745	5,745	5,745

**DECREMENT LEVEL (Dollars in Thousands)**

B&R	FY 96 DECR LEVEL
OE	5,745
CE	0
GPP	0
LI	0
TOTAL	5,745

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	5,745	5,564	6,094	6,306	6,399
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>5,745</b>	<b>5,564</b>	<b>6,094</b>	<b>6,306</b>	<b>6,399</b>

FTEs	FY94	FY95			
Direct	57	57			
Indirect	48	48			
Federal	0	0			
FTEs	FY96	FY97	FY98	FY99	FY00
Direct	49	48	52	53	53
Indirect	41	40	44	45	45
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	5,745	5,564	6,094	6,306	6,399
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
<b>TOTAL</b>	<b>5,745</b>	<b>5,564</b>	<b>6,094</b>	<b>6,306</b>	<b>6,399</b>

FTEs	FY94	FY95			
Direct	57	57			
Indirect	48	48			
Federal	0	0			
FTEs	FY96	FY97	FY98	FY99	FY00
Direct	49	48	52	53	53
Indirect	41	40	44	45	45
Federal	0	0	0	0	0

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**Budget Detail Profile**

DESC: D&D						FY96 DRIVER CATEGORY			
SUB-DESC: A PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: 200 AREA D&D - ASSESSMENT									
APPROP: D									
					A	0	0	0	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW2010401	6,177	3,832			E	3,920	3,920	3,920	3,920
35EW20100	0	0			F	0	0	0	0
39EW20100	0	0			G	0	0	0	0
39EW20100	0	0			H	0	0	0	0
					I	0	0	0	0
<b>TOTAL</b>	<b>6,177</b>	<b>3,832</b>			<b>TOTAL</b>	<b>3,920</b>	<b>3,920</b>	<b>3,920</b>	<b>3,920</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010401	3,920
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>3,920</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010401	3,920	4,007	4,095	4,185	4,277
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>3,920</b>	<b>4,007</b>	<b>4,095</b>	<b>4,185</b>	<b>4,277</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010401	3,920	4,007	4,095	4,185	4,277
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>3,920</b>	<b>4,007</b>	<b>4,095</b>	<b>4,185</b>	<b>4,277</b>

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**Budget Detail Profile**

				FY96 DRIVER CATEGORY			
				DECREMENT	TARGET	PLAN	IMM RISK
DESC: D&D							
SUB-DESC: C PROGRAM: EM SUBACT: RA							
TITLE: 200 AREA D&D - REMEDIAL ACTION							
APPROP: D							
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	0	0	0
				B	0	0	0
				C	0	0	0
				D	0	0	0
EW2010402	0	3,046		E	1,825	1,825	1,825
35EW20100	0	0		F	0	0	0
39EW20100	0	0		G	0	0	0
39EW20100	0	0		H	0	0	0
				I	0	0	0
<b>TOTAL</b>	<b>0</b>	<b>3,046</b>		<b>TOTAL</b>	<b>1,825</b>	<b>1,825</b>	<b>1,825</b>

**DECREMENT LEVEL (Dollars in Thousands)**

B&R CODE	FY96 DECR LEVEL
EW2010402	1,825
35EW20100	0
39EW20100	0
39EW20100	0
<b>TOTAL</b>	<b>1,825</b>

**TARGET LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010402	1,825	1,557	1,999	2,121	2,122
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>1,825</b>	<b>1,557</b>	<b>1,999</b>	<b>2,121</b>	<b>2,122</b>

**PLANNING LEVEL (Dollars in Thousands)**

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2010402	1,825	1,557	1,999	2,121	2,122
35EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
39EW20100	0	0	0	0	0
<b>TOTAL</b>	<b>1,825</b>	<b>1,557</b>	<b>1,999</b>	<b>2,121</b>	<b>2,122</b>

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**A106 Cross References**

A106 Number: D/D-002

Date:

Title:

Federal Facility Identification:

Region:

Assessment:

Status:

Progress:

A106 Number: D/D-003

Date:

Title:

Federal Facility Identification:

Region:

Assessment:

Status:

Progress:

**Tiger Team Cross References**

Tiger Team Finding Number:

Date:

Title:

**FY95-99 ADS Cross References**

ADS #: RL 3520 0

Title: 200 AREA D&D

Transferred in its entirety: Y

Explanation of Change:

NO CHANGE

**MILESTONES**

Milestone No.: Milestone Seq: 3520-00-0010 TPA MS NO.: NONE  
Title: OBTAIN REGULATORY APPROVAL (232-Z)  
Planning Date Target Date Decrement Date Level: HQ Keyword: CC  
1/31/1994 1/31/1994 1/31/1994 PTS: Y SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y  
Description:  
EPA and Department of Health approval is required to initiate facility  
characterization and plutonium removal activities.

**MILESTONES Continued**

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MILESTONES Continued

Milestone No.: Milestone Seq: 3520-00-0035 TPA MS NO.: NONE  
Title: INITIATE 233-S SITE PREPARATION  
Planning Date Target Date Decrement Date Level: FO Keyword: CC  
4/30/1994 4/30/1994 4/30/1994 PTS: N SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y  
Description:  
Site preparation includes mock-up for cutting and foaming pipes, and construction of a greenhouse.

Milestone No.: Milestone Seq: 3520-00-0025 TPA MS NO.: NONE  
Title: INITIATE 233-S EXTERIOR WORK  
Planning Date Target Date Decrement Date Level: HQ Keyword: CC  
7/31/1994 7/31/1994 7/31/1994 PTS: Y SMS: Y  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: Y Safety and Health: Y  
Description:  
Exterior work includes column lay down trench, process lines trench located between 233-S and REDOX and filter housing.

Milestone No.: Milestone Seq: 3520-00-0020 TPA MS NO.: NONE  
Title: COMPLETE 233-S DETAILED ENGINEERING  
Planning Date Target Date Decrement Date Level: CNTR Keyword: CC  
9/30/1995 9/30/1995 9/30/1995 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Complete detailed design for Phase 1 decommissioning of 233-S.

Milestone No.: Milestone Seq: 3520-00-0015 TPA MS NO.: NONE  
Title: COMPLETE 233-S DECONTAMINATION  
Planning Date Target Date Decrement Date Level: CNTR Keyword: CC  
9/30/1996 9/30/1996 9/30/1996 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Completion of 233-S decontamination (decommissioning) will only include Phase 1 activities. Final demolition of the building has been identified under Phase 2.

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 3520-00-0005 TPA MS NO.: NONE  
Title: COMPLETE 232-Z DETAILED ENGINEERING  
Planning Date Target Date Decrement Date Level: CNTR Keyword: CC  
9/30/1997 9/30/1997 9/30/1997 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Complete detailed design for Phase I decommissioning of the 232-Z Facility.

Milestone No.: Milestone Seq: 3520-00-0030 TPA MS NO.: NONE  
Title: COMPLETE 232-Z DECONTAMINATION  
Planning Date Target Date Decrement Date Level: CNTR Keyword: CC  
9/30/2000 9/30/2000 9/30/2000 PTS: N SMS: N  
Driver Name: DOE Driver Reference: NONE  
PRESENT IN Tiger Team: N Program Execution Guidance: N  
Roadmap: N Current Year Workplan: N Safety and Health: Y  
Description:  
Completion of 232-Z decontamination (decommissioning) will only include Phase 1 activities. Final demolition of the building has been identified under Phase 2.

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 14:18:51

Technical Scope Summary(Limit 15 line or less):

Decontamination & decommissioning (D&D) of the 200 Area surplus facilities represents a minimal effort over the next five year planning period. With the primary emphasis being focused on the cleanup of the 100 Areas, funding to support the D&D mission in the 200 Areas is being kept to a minimum. At the present time, three sub-activities are supported by this activity over the planning period: 200 Area surveillance and maintenance (S&M); D&D of the 233-S Plutonium Concentration Facility (233-S) located in the 200-West Area; and D&D of the 232-Z Plutonium Incineration Facility (232-Z) which is also located in the 200-West Area.

Technical Scope Detail(Limit 104 lines or less):

Compliant to Thomas Grumbly initiative for safety in the workplace, the primary objective of the D&D program is to eliminate potential human health and safety hazards by accelerating D&D work on highly deteriorated, surplus (abandoned) facilities located on the Hanford Site. Two facilities in the 200 Area D&D Program will be decontaminated and decommissioned by FY 2000, assuming Optimized Baseline Plan (OBP) target funding levels. Although the

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total number of surplus facilities requiring D&D actions is expected to increase over the next 5-10 years, no additional funds have been identified under this activity data sheets (ADS) to support either the deactivation or the transition of these facilities into the D&D Program. As ex-operating facilities in the 200 East and West Areas transition into a shutdown mode (i.e., PUREX, OU3, and PFP), supplemental funding must be identified and forthcoming into the D&D Program in order to meet the increasing 'challenges' of a growing surplus facility inventory. According to the Plant Manager the total UO3 budget for FY 1995 has been estimated to be \$500K which will include 3 months of intensive facility cleanout and deactivation followed by routine S&M (\$5K/Mo) for the balance of the year.

For estimating purposes, costs identified within the budget, planning, and outyear descriptions are assumed to be 'pre-conceptual' in nature and, as such, should be considered low reliability at this point. Project, Time and Cost (PT&C) under contract to the USACE at the Richland Field Office, have been asked to prepare detailed, 'pre-conceptual' cost estimates which will be used to support financial validation of Phase I decommissioning activities planned for both the 233-S and 232-Z Decommissioning Projects.

Target Baseline funding supports three sub-activities: on-going S&M of 200 Area surplus facilities; D&D of 233-S; and D&D of 232-Z.

On-going, routine S&M activities are being performed in accordance with DOE Order 5820.2A, Occupational Safety and Health Administration and applicable DOE Orders and regulations. S&M activities ensure adequate containment and site control of radiological, environmental, and safety hazards for the protection of onsite workers. Routine S&M will continue as long as necessary until the 200 Area surplus facilities are totally decommissioned. Primary emphasis will continue to focus on those facilities which have undergone the greatest deterioration and pose the greatest risk to human health and the environment.

In addition to the on-going S&M, funding has been identified under this activity to support D&D of 233-S. D&D work scope will involve a two-phased approach: facility decontamination, equipment removal; and partial decommissioning of the facility piping and glove box removal during Phase I. Target funding levels established by OBP do not support total demolition of 233-S (Phase II) during the planning period. Additional funding will be required to support the actual demolition of the facility structure. No source term reduction will be required at 233-S since most of the plutonium is either fixed and/or non-smearable.

Using similar strategy established for 233-S, a phased-approach will be implemented for the safe, efficient, cost effective D&D of 232-Z. Lessons learned will be applied where practical. Unlike 233-S, a major source term reduction effort was initiated in FY 1994 to reduce the amount of smearable plutonium found on the floors, walls, and process equipment located inside the process area. It is estimated that approximately 900 grams remain

~~NARRATIVE Continued~~

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loose inside the old process-hood ventilation system and piping leading to the scrubber cell. Plutonium reduction would be followed by facility (interior wall) decontamination and equipment removal. Target funding levels established by OBP do not support total demolition of 232-Z (Phase II) during the planning period.

Since the environmental assessment (EA) states that a portion of the residual plutonium inventory in either of the facilities could be released during a seismic event, the facilities represent an imminent safety risk to human health and the environment. Also, both facilities have considerable plutonium inventories (both fixed and removable) and this radionuclide is highly mobile. Considering these factors 233-S and 232-Z shall be identified as high priority in the overall D&D clean up mission at Hanford.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):

All S&M milestones for the 200 Areas were completed on schedule. In addition to S&M, major accomplishments for FY 1994 include: initiated plutonium removal activities in 232-Z; started characterization activities at 233-S; and received approval from Washington State Department of Health to begin facility characterization activities at 233-S.

Budget Year (FY 1995) Description(Limit 52 lines or less):

In FY 1995 target funding supports continuation of on-going S&M (\$ 3832K); completion of detailed engineering for decommissioning of the 233-S Facility along with initiation of decontamination and equipment removal (\$ 1659K); and continuation of decontamination activities planned for the 232-Z Facility (\$ 1388K).

Planning Year (FY 1996) Description(Limit 156 lines or less):

Three funding levels (DEC, target and planning) will accomplish the same amount of work since the funding levels under this ADS are same in FY 1996. Target and decrement (DEC) funding levels in FY 1996 will allow continuation of on-going S&M (routine surveys for electrical, fall, radiological hazards and pest control along with requisite maintenance to mitigate facility deterioration from condition such as weather damage) (\$ 3920K); completion of Phase One decontamination of 233-S (\$973K); and continuation of decontamination activities planned for 232-Z (\$ 852K). At the end of FY 1996, all Phase One decommissioning of the 233-S Project will be considered complete and the facility will be returned to S&M. All known hazards should be eliminated during Phase One of the 233-S Project (equipment removal and facility decontamination). A major part of the hazard elimination will include the safe removal and disposal of the four-story glovebox which was used for plutonium concentration during the 1960s. Proposed decommissioning actions planned at the 233-S will require construction of greenhouses around various D&D work areas. D&D workers, equipment, and hand tools (as well as D&D generate wastes) will enter and

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exit the greenhouses through airlocks. Virtually, no particulates should escape into the environment. Airborne emissions and worker safety will comply with applicable DOE Orders, and Federal and State regulations.

Detailed engineering will be initiated for decommissioning 232-Z. 'Lessons learned' from the 233-S Project will be applied to the 232-Z Project, where appropriated.

Outyears (FY 1997 - FY 2000) Description(Limit 78 lines or less):

In FY 1997, funding has been identified for on-going S&M in the 200 Areas (\$ 4007K) and completion of detailed design for the 232-Z Project (\$ 1558K).

In FY 1998, funding has been identified for on-going S&M in the 200 Areas (\$ 4095K) and initiation of Phase One decommissioning of the 232-Z Facility (\$ 1999K).

In FY 1999, continue to fund on-going S&M in the 200 Areas (\$ 4185K) and continue with Phase One decommissioning of the 232-Z Facility (\$ 2121K).

In FY 2000, continue to fund on-going S&M in the 200 Areas (\$ 4277K) and complete Phase One decommissioning of the 232-Z Facility (\$ 2121K). All known hazards associated with the 232-Z should be eliminated and the facility will return to limited S&M until final decommissioning which is planned outside the ADS planning window.

Impacts/Assumptions(Limit 42 lines or less):

The S&M of the facilities will continue for as long as necessary until the facilities are successfully decommissioned. Maintenance costs are expected to steadily increase as the facilities deteriorate with age. All estimates used in preparation of this activity data sheet are based on 'pre-conceptual' estimates developed by Project Time & Cost and/or D&D engineering judgment. Future land-use decisions will continue to support clean up of high priority sites located in the 100 Areas with the 200 Areas possibly being considered for some type of institutional controls for an indefinite length of time.

Key D&D activities will eventually become part of the TPA, and as such, will be subject to State review and oversight similar to Hanford Past Practice Strategy clean up activities identified for the individual operable units. Although present target funding does not support demolition of 233-S and 232-Z during this planning window; the decision to demolish either/or both of these facilities will be based on final clean up standards established for the 200 Areas.

Supporting Documents(Limit 5 lines or less):

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Includes DOE Orders 5820.2A/4300.1 for D&D performance and verification, OSHA as mandated by DOE Orders 5480.4/5483.1A for worker safety, DOE Orders 5480.11-23 for nuclear safety, Title 40 CFR 260-281 addressing hazardous waste, NEPA, and various CAA and CWA permits applicable to D&D.

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government Performance Review and Results Act and the National Performance Review will be submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

CAA:

The Clean Air Act provides policy and guidance related to the release of asbestos fibers and other emissions that may be present during decommissioning and demolition activities.

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DOE:

Various DOE Orders to provide and/or implement best management practices for policy and guidance to execute the environmental restoration program. The project scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA R:

Affected Scope/Cost/Schedule: Application of NEPA to the subproject activities is to ensure that potential impacts of assessment and cleanup activities are assessed.

NARRATIVE Continued  
Includes DOE Orders 3820.2A/4300.1 for D&D performance and verification,  
DOE Orders 3480.A/3481.1A for worker safety, DOE Orders  
3480.11-23 for nuclear safety, Title 40 CFR 260-181 addressing hazardous  
waste, NEPA, and various GAA and GVA permits applicable to DOE.

Performance Measures/Limit 12 lines or less  
Specific performance measures consistent with provisions of the Government  
Performance Review and Results Act and the National Performance Review will  
be submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

CAA:  
The Clean Air Act provides policy and guidance related to the review of  
regulatory drivers and other emissions that may be present during  
decommissioning and demolition activities.

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DOE:  
Various DOE Orders provide and/or implement best management practices  
for policy and guidance to ensure the environmental protection program.  
The project scope, cost, and schedule are a direct result of compliance to  
these various orders.

NEPA R:  
Application of NEPA to the subject  
Affected Scope/Cost/Schedule. Application of NEPA to the subject  
activities is to ensure that potential impacts of assessment and cleanup  
activities are assessed.