

AR TARGET SHEET

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

DOCUMENT # NA

EDMC # '00 38560

SECTION 1 OF 6

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Environmental Management
FY96 Field Submission
Activity Data Sheet

Page: 1
Time: 10:23
RL- 103-0 - Date: 6/01/1994

Operations Office: RL ID No.: 103- 0 Revision Date: 4/22/1994
 ADS Title: DOE-RL FIELD SUPPORT - WM
 WBS No.: 1.3.7.1.9 Category: WM Appr.: D
 Project Title: DOE-RL FIELD SUPPORT-WAS Facility/WAG:
 Installation: HANFORD CID: XOVHD: 0
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: NONE Phone: NONE
 O.O. Manager: LORENZ, AE Phone: 509-376-8669
 H.Q. Manager: LEVITAN, BILL Phone: 301-903-8469
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 0 TRU: 0 TRU MIX: 0 LLW: 0 MLLW: 0 HAZ: 0 SANT: 0 SNF: 0

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: Y 3004U: TSCA: CERCLA: NEPA:
 DOE: Y IAG: OSHA: ORD: Y ST : TRI : Y FED : Y 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	6,991	13,001		A	7,625	7,625	7,625	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	6,991	13,001		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	7,625	7,625	7,625	0

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	7,625
CE	0
GPP	0
LI	0
TOTAL	7,625



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Environmental Management
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TARGET LEVEL (Dollars in Thousands)

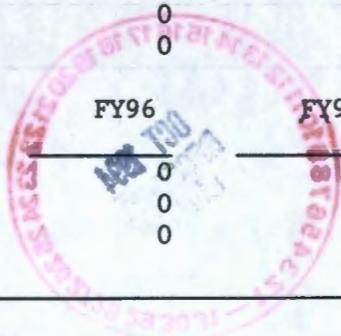
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	7,625	8,153	7,414	6,440	5,973
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	7,625	8,153	7,414	6,440	5,973

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	7,625	8,153	7,414	6,440	5,973
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	7,625	8,153	7,414	6,440	5,973

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: PROGRAM CONTROL/SUPPORT				FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: AA				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: General Support Service Contract							
APPROP: D							
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D
EW3110010	6,991	12,481		7,090	0	0	0
35EW31101	0	0		0	0	0	0
39EW31101	0	0		0	0	0	0
39EW31101	0	0		0	0	0	0
TOTAL	6,991	12,481		7,090	0	0	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3110010	7,090
35EW31101	0
39EW31101	0
39EW31101	0
TOTAL	7,090

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3110010	7,090	7,602	6,846	5,855	5,371
35EW31101	0	0	0	0	0
39EW31101	0	0	0	0	0
39EW31101	0	0	0	0	0
TOTAL	7,090	7,602	6,846	5,855	5,371

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3110010	7,090	7,602	6,846	5,855	5,371
35EW31101	0	0	0	0	0
39EW31101	0	0	0	0	0
39EW31101	0	0	0	0	0
TOTAL	7,090	7,602	6,846	5,855	5,371

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Budget Detail Profile

DESC: PROGRAM CONTROL/SUPPORT						FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: BB						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: General Support to On-going Wast									
APPROP: D									
					A	535	535	535	0
					B	0	0	0	0
B&R	FY94	APPR	FY95	PRES	FY95	APPR	C	0	0
							D	0	0
EW3110010	0		520				E	0	0
35EW31101	0		0				F	0	0
39EW31101	0		0				G	0	0
39EW31101	0		0				H	0	0
							I	0	0
TOTAL	0		520				TOTAL	535	535
								535	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3110010	535
35EW31101	0
39EW31101	0
39EW31101	0
TOTAL	535

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3110010	535	551	568	585	602
35EW31101	0	0	0	0	0
39EW31101	0	0	0	0	0
39EW31101	0	0	0	0	0
TOTAL	535	551	568	585	602

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3110010	535	551	568	585	602
35EW31101	0	0	0	0	0
39EW31101	0	0	0	0	0
39EW31101	0	0	0	0	0
TOTAL	535	551	568	585	602

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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 103 0
Title: DOE-RL WM FIELD SUPPORT
Transferred in its entirety: N
Explanation of Change:
Funding for Downwinder Litigation, EM-60 direct and DOE-RL Matrix Organizations GSSC support and site-wide general support has been transferred to ADS 6603 under EM-60.

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: 04-22-1994 TIME: 13:57:26

Technical Scope Summary(Limit 15 line or less):

This ADS funds General Support Service Contractor Support to Waste Management Organizations and General on-going support for Waste Management (i.e. crosscutting Waste Management activities such as payment of fees).

NARRATIVE Continued

Environmental Management
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~~NARRATIVE Continued~~

Technical Scope Detail(Limit 104 lines or less):

In FY 1994, this ADS includes general support service contractor (GSSC) support to direct DOE-RL WM organizations only (AA). In FY 1995 and the outyears, ADS 103 provides GSSC support to direct DOE-RL WM organizations (AA); and general support to on-going Waste Management Operations which may arise during the fiscal year and are not currently identified within a programmatic ADS.

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

(AA) General support service contractor (GSSC) support was provided to the direct Waste Management programs to cover such activities as document review, conduct of operations assessments, QA technical support, etc.

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

In FY 1995, general support service contractor (GSSC) support is provided to DOE-RL direct WM organizations in order to comply with DOE Orders, the Tri-Party Agreement, Federal and State Regulations. Areas of support include but are not limited to review and analysis of documents, preparing draft letters and briefing materials, and attendance at meetings (AA).

Also, general on-going support for crosscutting Waste Management Issues which arise is included for things such as the EM Standdown, miscellaneous fees and assessments, and responding to Defense Nuclear Facilities Safety Board (DFNSB) action plans or other unplanned safety issues (BB).

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

(AA) In FY 1996, general support service contractor (GSSC) support is provided to DOE-RL direct WM organizations in order to comply with DOE Orders, the Tri-Party Agreement, Federal and State Regulations at a decreased GSSC FTE level from the FY 1995 GSSC FTE level. This decrease is directly related to an anticipated increase in Federal FTEs at Richland. The GSSC FTE levels supported are the same in the decrement, target and planning case per an RL Senior Management decision. Areas of support given by the GSSC include but are not limited to review and analysis of documents, preparing draft letters and briefing materials, attendance at meetings, and preparation of the TWRS EIS.

(BB) General support activities which arise during the fiscal year and are not currently covered in a programmatic ADS but are necessary to comply with DOE, legal and regulatory requirements are provided for. Examples of these activities include the EM standdown actions specific to the Waste Management programs; unplanned fees assessed against Waste Management programs; and responding to Defense Nuclear Facilities Safety Board (DFNSB) action plans or any other unplanned safety issues.

~~NARRATIVE Continued~~

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NARRATIVE Continued

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

The nature of the workscope for the outyears remains the same as the workscope covered in FY 1995. However, GSSC FTE levels show a steady decline from FY 1996 through FY 2000 due to RL's assumptions regarding an increase in Federal FTEs. The levels for the outyears are the same in the target and planning case per an RL Senior Management decision. GSSC support is provided to DOE-RL WM organizations in order to comply with DOE Orders, the Tri-Party Agreement and State Regulations. Areas of support include but are not limited to review and analysis of documents, preparing draft letters and briefing materials, and attendance at meetings (AA). In addition, general support activities which arise during the Fiscal Year and are not currently covered in a programmatic ADS but are necessary to comply with DOE, legal and regulatory requirements are provided for (BB). Examples of this type of activity are referenced above.

Impacts/Assumptions(Limit 42 lines or less):

For general support service contractor support to WM organizations, assumptions are that Federal FTE levels will increase substantially (refer to ADS 3031-1), that GSSC FTE levels will decrease accordingly and that no significant new legal, regulatory or DOE requirements or agreements would have to be supported. Inadequate DOE-RL staffing or new requirements may cause the required levels of GSSC support to increase (AA). For waste management support activities, the assumption is that there are no increases other than escalation and no additional general requirements that arise throughout the year (BB).

Supporting Documents(Limit 5 lines or less):

Staffing Projections from FY 1994-2000 as prepared by RL Human Resources Division; RL FTE Bid Package submitted to EM on April 1, 1994; GSSC Contract Monthly Reports.

Performance Measures(Limit 15 lines or less):

Not applicable.

LAST UPDATE: 05-05-1993 TIME: 13:38:28

08. KEY ISSUES AND UNCER

09. REG DRVS/SCOPE/CONSE

10. LEGAL NOT IN TARGET

NARRATIVE Continued

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~~NARRATIVE Continued~~

11. MGMT PRAC NOT IN TAR

~~DESCRIPTION OF REGULATORY DRIVERS~~

DOE:

RL uses the GSSC to support WM programs in reviewing and analyzing workscope required to meet DOE orders.

FED:

RL uses the GSSC to support WM programs in reviewing and analyzing workscope required for federal regulations.

ORD:

RL uses the GSSC to support WM programs in reviewing and analyzing workscope required for administrative consent and compliance orders.

RCRA:

RL uses the GSSC to support WM programs in reviewing and analyzing workscope required for RCRA compliance.

~~DESCRIPTION OF REGULATORY DRIVERS Continued~~

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DESCRIPTION OF REGULATORY DRIVERS Continued

TRI:

RL uses the GSSC to support WM programs in reviewing and analyzing
workslope required for TPA compliance.

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 RL- 199-18- Date: 6/01/1994 Time: 10:25

Operations Office: RL ID No.: 199- 18 Revision Date: 5/27/1992
 ADS Title: PROGRAM DIRECTION - ER
 WBS No.: 1.4.18.3.2.1 Category: ER Appr.: D
 Project Title: PROG DIRECTION Facility/WAG: HANFORD SITE
 Installation: HANFORD CID: XOVHD: 0
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: NONE Phone:
 O.O. Manager: LORENZ, AE Phone: 509-376-8669
 H.Q. Manager: MCCULLY, B Phone: 301-903-8126
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 0 TRU: 0 TRU MIX: 0 LLW: 0 MLLW: 0 HAZ: 0 SANT: 0 SNF: 0

REGULATORY DRIVERS

CAA: Y CWA: Y SDWA: Y RCRA: Y 3004U: Y TSCA: Y CERCLA: Y NEPA: Y
 DOE: Y IAG: Y OSHA: Y ORD: Y ST : Y TRI : Y FED : Y 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	2,177	4,496		A	4,428	4,428	4,428	4,428
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	2,177	4,496		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	4,428	4,428	4,428	4,428

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	4,428
CE	0
GPP	0
LI	0
TOTAL	4,428

Environmental Management
 FY96 Field Submission
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RL- 199-18- Date: 6/01/1994

TARGET LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	4,428	4,654	5,077	5,290	5,764
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	4,428	4,654	5,077	5,290	5,764

FTEs	FY94	FY95
Direct	22	34
Indirect	0	0
Federal	0	0

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	40	41	43	44	46
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	4,428	4,654	5,077	5,290	5,764
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	4,428	4,654	5,077	5,290	5,764

FTEs	FY94	FY95
Direct	22	34
Indirect	0	0
Federal	0	0

FTEs	FY96	FY97	FY98	FY99	FY00
Direct	40	41	43	44	46
Indirect	0	0	0	0	0
Federal	0	0	0	0	0

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Budget Detail Profile

DESC: PROGRAM DIRECTION						FY96 DRIVER CATEGORY			
SUB-DESC: O PROGRAM: EM SUBACT: BB						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: PROGRAM DIRECTION - ENVIRONMENTA									
APPROP: D									
						4,428	4,428	4,428	4,428
						0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR			0	0	0	0
EW2060000	2,177	4,496				0	0	0	0
	0	0				0	0	0	0
	0	0				0	0	0	0
	0	0				0	0	0	0
TOTAL	2,177	4,496				0	0	0	0
						TOTAL	4,428	4,428	4,428

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW2060000	4,428
	0
	0
	0
TOTAL	4,428

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2060000	4,428	4,654	5,077	5,290	5,764
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	4,428	4,654	5,077	5,290	5,764

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW2060000	4,428	4,654	5,077	5,290	5,764
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	4,428	4,654	5,077	5,290	5,764

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~~NARRATIVE Continued~~

Richland Operations Office (DOE-RL) employees funded by Environmental Restoration in BNR EW2060. Estimates include all salaries, benefits, awards, overtime, travel, and contractual services for employees supporting Environmental Restoration.

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

DOE-RL's current Financial Plan of \$2,177K gives RL the funding necessary to support our current approved ceiling of 22 FTE's. Additional needs of approximately \$904K will be required to fund FTE's approved as a result of the EM bidding process.

FY 1994 needs do not include any amounts for decisions that will be made relating to Voluntary Separation Incentive Pay (VSIP).

General Support Service Contractor (GSSC) requirements which support the FY 1994 RL FTE authorization are covered under program ADS Number RL3400.

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

The following reflects salaries, benefits, awards, overtime, contractual services, and travel needs to support the FY95 PRES and Planning level of FTE's (see .07 Key Assumptions). Although RL is constrained to \$4,148K at the FY95 PRES level for purposes of this ADS, RL plans to redistribute an additional \$348K to this ADS to support the original 34 FTE's plus an additional 5 FTE's projected from the EM 'bidding' process for a total of \$4,496K.

FY 1995	AVERAGE COST/FTE	PRES FTE - 34
	122,000	4,148,000
FY 1995	AVERAGE COST/FTE	ACTUAL NEEDS FTE - 39
TOTAL	115,287	4,496,000

FY 1995 needs do not include any amounts for decisions that will be made relating to Voluntary Separation Incentive Pay (VSIP).

GSSC requirements which support the FY 1995 RL FTE authorization are covered under program ADS Number RL3400.

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

The following reflects salaries, benefits, awards, overtime, travel and contractual services needs to support the Target, Planning, and Decrement level of FTE's (see .07 Key Assumptions).

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NARRATIVE Continued

FY 1996	AVERAGE COST/FTE	FTE - 40
	TOTAL	110,704 4,428,000

GSSC requirements which support the FY 1996 RL FTE authorization are covered under program ADS Number RL3400.

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

The following reflects salaries, benefits, awards, overtime, travel and contractual services needs to support the Target and Planning levels of FTE's for FY 1997 through FY 2000:

FY 1997	AVERAGE COST/FTE	FTE - 41
	TOTAL	113,509 4,654,000

FY 1998	AVERAGE COST/FTE	FTE - 43
	TOTAL	118,075 5,077,000

FY 1999	AVERAGE COST/FTE	FTE - 44
	TOTAL	120,224 5,290,000

FY 2000	AVERAGE COST/FTE	FTE - 46
	TOTAL	125,302 5,764,000

GSSC requirements which support the FY 1997 through FY 2000 RL FTE authorization are covered under program ADS Number RL3400.

Impacts/Assumptions(Limit 42 lines or less):

Program Direction was escalated using the rates provided by DOE-HQ in the Chief Financial Office FY 1996 Unified Field Budget Call.

FTE's: FY 1994 - FY 2000: DOE-HQ has just completed allocating the FTE's provided to DOE-RL as a result of the 'bidding' process. Since the internal distribution process for the new FTE's will not be completed prior to submission of this ADS, the FTE's and funding requirements are based on initial RL senior management assumptions of the level of FTE's by

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program and probable timing of the hires.

Salaries for the FY 1995 request for redistribution were adjusted to reflect the probable timing of new hires.

Supporting Documents(Limit 5 lines or less):

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 were submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

CAA:

RL employees manage the Environmental Restoration programs in accordance with requirements of the Clean Air Act.

CERCLA:

RL employees manage the Environmental Restoration programs in accordance with requirements of CERCLA.

DESCRIPTION OF REGULATORY DRIVERS Continued

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DESCRIPTION OF REGULATORY DRIVERS Continued

CWA:

RL employees manage the Environmental Restoration programs in accordance with requirements of the Clean Water Act.

DOE:

RL employees manage the Environmental Restoration programs in accordance with DOE orders.

FED:

RL employees manage the Environmental Restoration programs in accordance with Federal regulations.

DESCRIPTION OF REGULATORY DRIVERS Continued

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DESCRIPTION OF REGULATORY DRIVERS Continued

IAG:

RL employees manage the Environmental Restoration programs in accordance with requirements of interagency agreements.

NEPA_R:

RL employees manage the Environmental Restoration programs in accordance with requirements of NEPA.

ORD:

RL employees manage the Environmental Restoration programs in accordance with administrative consent and compliance orders.

DESCRIPTION OF REGULATORY DRIVERS Continued

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DESCRIPTION OF REGULATORY DRIVERS Continued

OSHA:

RL employees manage the Environmental Restoration programs in accordance with requirements of the Occupational Safety and Health Act.

R3004:

RL employees manage the Environmental Restoration programs in accordance with 3004U.

RCRA:

RL employees manage the Environmental Restoration programs in accordance with RCRA requirements.

SDWA:

RL employees manage the Environmental Restoration programs in accordance with requirements of the Safe Drinking Water Act.

DESCRIPTION OF REGULATORY DRIVERS Continued

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DESCRIPTION OF REGULATORY DRIVERS Continued

ST:

RL employees manage the Environmental Restoration programs in accordance with requirements of State and Local laws.

TRI:

RL employees manage the Environmental Restoration programs in accordance with the Tri-Party agreement.

TSCA:

RL employees manage the Environmental Restoration programs in accordance with requirements of the Toxic Substances Control Act.

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Page: 1
 RL-1100-0 - Date: 6/01/1994 Time: 10:26

Operations Office: RL ID No.: 1100- 0 Revision Date: 4/27/1994
 ADS Title: TANK FARMS OPERATIONS AND MAINTENANCE
 WBS No.: 1.3.7.2.1 Category: WM Appr.:
 Project Title: TANK FARM OPERATIONS & M Facility/WAG: TANK FARMS
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: LUCOFF, D Phone: 509-376-5457
 O.O. Manager: SIDPARA, A Phone: 509-376-0933
 H.Q. Manager: GRIFFITH, AR Phone: 301-906-7120
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 54 TRU: TRU MIX: LLW: 27 MLLW: 17 HAZ: 2 SANT: SNF:

REGULATORY DRIVERS

CAA: Y CWA: Y SDWA: RCRA: Y 3004U: TSCA: Y CERCLA: Y NEPA: Y
 DOE: Y IAG: OSHA: Y ORD: Y ST : Y TRI : Y FED : Y 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	138,572	134,923		A	0	0	0	0
CE	5,545	2,726		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	144,269	144,269	144,269	144,269
TOTAL	144,117	137,649		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	144,269	144,269	144,269	144,269

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	141,688
CE	2,581
GPP	0
LI	0
TOTAL	144,269

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	141,688	161,566	199,559	172,519	157,656
CE	2,581	2,691	3,099	2,608	2,417
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	144,269	164,257	202,658	175,127	160,073

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	141,688	161,566	199,559	172,519	157,656
CE	2,581	2,691	3,099	2,608	2,417
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	144,269	164,257	202,658	175,127	160,073

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: TANK FARM OPERATIONS AND MANAGEME						FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: TANK FARM OP AND MGMT									
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
EW3120071	156,525	155,120			E	168,400	168,400	168,400	168,400
35EW31207	5,545	2,680			F	0	0	0	0
39EW31207	0	0			G	0	0	0	0
39EW31207	0	0			H	0	0	0	0
					I	0	0	0	0
TOTAL	162,070	157,800			TOTAL	168,400	168,400	168,400	168,400

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3120071	165,818
35EW31207	2,582
39EW31207	0
39EW31207	0
TOTAL	168,400

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120071	165,818	176,464	185,130	189,664	187,676
35EW31207	2,582	2,513	2,458	2,451	2,460
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	168,400	178,977	187,588	192,115	190,136

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120071	165,818	176,464	185,130	189,664	187,676
35EW31207	2,582	2,513	2,458	2,451	2,460
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	168,400	178,977	187,588	192,115	190,136

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Budget Detail Profile

DESC: TANK FARM OPERATIONS AND MANAGEME				FY96 DRIVER CATEGORY				
SUB-DESC: PROGRAM: EM SUBACT: AB				DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: PRODUCTIVITY CHALLENGE/RATE CHAN								
APPROP: D								
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D	E
				0	0	0	0	0
				0	0	0	0	0
				0	0	0	0	0
				0	0	0	0	0
EW3120071	-17,953	-20,197		0	0	0	0	0
35EW31207	0	46		0	0	0	0	0
39EW31207	0	0		0	0	0	0	0
39EW31207	0	0		0	0	0	0	0
TOTAL	-17,953	-20,151		0	0	0	0	0
				TOTAL	-24,131	-24,131	-24,131	-24,131

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3120071	-24,130
35EW31207	-1
39EW31207	0
39EW31207	0
TOTAL	-24,131

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120071	-24,130	-14,898	14,429	-17,145	-30,020
35EW31207	-1	178	641	157	-43
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	-24,131	-14,720	15,070	-16,988	-30,063

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120071	-24,130	-14,898	14,429	-17,145	-30,020
35EW31207	-1	178	641	157	-43
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	-24,131	-14,720	15,070	-16,988	-30,063

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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1100-00-0020 TPA MS NO.: M-41-04
Title: USDOE PROVIDE TO EPA & ECOLOGY A SCHEDULE ON IMPACTS OF STANDOWN
Planning Date Target Date Decrement Date Level: FO Keyword: S
11/30/1993 11/30/1993 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:

Description:
THE USDOE SHALL PROVIDE TO EPA AND ECOLOGY A DETAILED SCHEDULE SHOWING POSITIVE AND NEGATIVE IMPACTS OF THE 1993 TANK FARMS STAND DOWN ON THE INTERIM STABILIZATION PROGRAM

Milestone No.: _____ Milestone Seq: 1100-00-0025 TPA MS NO.: M-41-05
Title: USDOE COMPLETE PORTIONS OF THE NUCLEAR OPERATOR SYS CLASS & OJT
Planning Date Target Date Decrement Date Level: FO Keyword: S
12/31/1993 12/31/1993 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:

Description:
THE USDOE SHALL COMPLETE THE PORTIONS OF THE NUCLEAR OPERATOR SYSTEMS CLASS & ON-THE-JOB TRAINING THAT RELATE TO THE OPERATOR ROUTINES & LIQUID LEVEL MONITORING. DOCUMENTATION OF COMPLETION OF OPERATOR TRAINING SHALL BE PROVIDED BY LETTER.

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1100-00-0115 TPA MS NO.:
Title: 242-A EVAPORATOR RESTART
Planning Date Target Date Decrement Date Level: HQ Keyword: T
2/23/1994 2/23/1994 PTS: Y SMS: Y
Driver Name: N/A Driver Reference: TANK SPACE REDUCTION
PRESENT IN Tiger Team: Program Execution Guidance: Y
Roadmap: Current Year Workplan: Y Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0015 TPA MS NO.: M-41-03A
Title: ISSUE RFP FOR A MOBILE HIGH-LEVEL LIQUID WASTE TRANSPORT CASK
Planning Date Target Date Decrement Date Level: FO Keyword: S
2/28/1994 2/28/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0145 TPA MS NO.: M-32-05
Title: COMPLETE 242-A EVAPORATOR INTERIM STATUS TANK ACTIONS
Planning Date Target Date Decrement Date Level: FO Keyword: T
3/23/1994 3/23/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0120 TPA MS NO.:
Title: ACHIEVE WASTE VOLUME REDUCTION FOR 242-A EVAPORATOR CAMPAIGN 94-1
Planning Date Target Date Decrement Date Level: HQ Keyword: T
5/16/1994 5/16/1994 PTS: Y SMS: Y
Driver Name: N/A Driver Reference: TANK STORAGE CAPACITY
PRESENT IN Tiger Team: Program Execution Guidance: Y
Roadmap: Current Year Workplan: Y Safety and Health:
Description:

MILESTONES Continued

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Milestone No.: Milestone Seq: 1100-00-0035 TPA MS NO.: M-41-06
Title: USDOE PROVIDE TO EPA/ECOLOGY DRAFT CURRICULA FOR UPG MAINTEN TRNG
Planning Date Target Date Decrement Date Level: FO Keyword: S
6/30/1994 6/30/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:
THE USDOE SHALL PROVIDE TO EPA AND ECOLOGY THE DRAFT CURRICULA FOR THE UPGRADES
MAINTENANCE TRAINING PROGRAM AND AN IMPLEMENTATION SCHEDULE FOR THAT TRAINING.

Milestone No.: Milestone Seq: 1100-00-0140 TPA MS NO.: M-32-04
Title: COMPLETE DOUBLE-SHELL TANK INTERIM STATUS TANK ACTIONS
Planning Date Target Date Decrement Date Level: FO Keyword: S
6/30/1994 6/30/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0105 TPA MS NO.: M-46-00
Title: DOUBLE-SHELL TANK SPACE EVALUATION (ANNUALLY THEREAFTER)
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1994 9/30/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:
NOTE: MILESTONE IS ANNUALLY THEREAFTER

Milestone No.: Milestone Seq: 1100-00-0125 TPA MS NO.:
Title: START 242-A EVAPORATOR CAMPAIGN 94-2
Planning Date Target Date Decrement Date Level: FO Keyword: T
9/30/1994 9/30/1994 PTS: Y SMS: Y
Driver Name: N/A Driver Reference: TANK STORAGE CAPACITY
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:

~~MILESTONES Continued~~

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MILESTONES Continued

Milestone No.: Milestone Seq: 1100-00-0165 TPA MS NO.:
Title: COMPLETE LOW/DRYWELL/LATERAL READINGS IN TANK FARMS (ANNUALLY)
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1994 9/30/1994 PTS: Y SMS: Y
Driver Name: ST Driver Reference:- WAC-173-303
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:

Milestone No.: Milestone Seq: 1100-00-0170 TPA MS NO.:
Title: PERFORM ROUTINE SURVEILLANCES ON WASTE TANKS (ANNUALLY)
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1994 9/30/1994 PTS: Y SMS: Y
Driver Name: ST Driver Reference: WAC 173-303
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:

Milestone No.: Milestone Seq: 1100-00-0110 TPA MS NO.: M-46-01
Title: CONCURRENCE OF ADDITIONAL TANK ACQUISITION (ANNUALLY THEREAFTER)
Planning Date Target Date Decrement Date Level: FO Keyword: S
11/30/1994 11/30/1994 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0040 TPA MS NO.: M-41-07
Title: COMPLETE SAFETY STUDIES/ANALYSIS ON INTERIM STABL OF REM WL TANKS
Planning Date Target Date Decrement Date Level: FO Keyword: S
12/30/1994 12/30/1994 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE SAFETY STUDIES AND ANALYSIS ON INTERIM STABILIZATION OF REMAINING WATCH
LIST TANKS AND PROVIDE REPORT(S) TO ECOLOGY AND EPA.

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Milestone No.: Milestone Seq: 1100-00-0010 TPA MS NO.: M-41-02
Title: EMERGENCY LEAK RESPONSE: PREP AN IMPROVED SST EMERGENCY PUMP CAPA
Planning Date Target Date Decrement Date Level: FO Keyword: S
3/30/1995 3/30/1995 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0130 TPA MS NO.:
Title: START THIRD 242-A EVAPORATOR CAMPAIGN
Planning Date Target Date Decrement Date Level: FO Keyword: T
6/30/1995 6/30/1995 PTS: SMS:
Driver Name: N/A Driver Reference: TANK STORGAE CAPACITY
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0045 TPA MS NO.: M-41-08
Title: START INTERIM STABILIZATION OF 1 NON-WATCH LIST TK IN 241-U FARM
Planning Date Target Date Decrement Date Level: FO Keyword: S
7/31/1995 7/31/1995 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0070 TPA MS NO.: M-41-13
Title: START INTERIM STABILIZATION OF 3 ORGANIC WL TANKS IN 241-U FARM
Planning Date Target Date Decrement Date Level: FO Keyword: S
7/31/1995 7/31/1995 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

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Milestone No.: Milestone Seq: 1100-00-0030 TPA MS NO.: M-41-03B
Title: DELIVERY OF MOBILE HIGH-LEVEL LIQUID WASTE TRANSPORT CASK
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1995 9/30/1995 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
NOTE: OFFICAL COMPLETION DATE IN TPA IS TBD.

Milestone No.: Milestone Seq: 1100-00-0135 TPA MS NO.:
Title: ACHIEVE 2-4M GALLONS OF WASTE VOLUME REDUCTION ANNUALLY AT 242-A
Planning Date Target Date Decrement Date Level: HQ Keyword: T
9/30/1995 9/30/1995 PTS: SMS:
Driver Name: N/A Driver Reference: TANK STORAGE CAPACITY
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0050 TPA MS NO.: M-41-09
Title: START INTERIM STABILIZATION OF 7 NON-WATCH LIST TKS IN 241-S FARM
Planning Date Target Date Decrement Date Level: FO Keyword: S
1/30/1996 1/30/1996 PTS: SMS:
Driver Name: TRI Driver Reference: TRI PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0055 TPA MS NO.: M-41-10
Title: START INTERIM STABILIZATION OF 2 FG WATCH LIST TANKS IN 241-A/AX
Planning Date Target Date Decrement Date Level: FO Keyword: S
4/30/1996 4/30/1996 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
START INTERIM STABILIZATION OF 2 FLAMMABLE GAS WATCH LIST TANKS IN 241-A/AX TANK FARMS.

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Milestone No.: Milestone Seq: 1100-00-0060 TPA MS NO.: M-41-11
Title: START INTERIM STABILIZATION OF 4 FG WATCH LIST TKS IN 241-U FARM
Planning Date Target Date Decrement Date Level: FO Keyword: S
4/30/1996 4/30/1996 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0160 TPA MS NO.:
Title: ISSUE FINAL DST/AWF FSAR/TSRs TO DOE-RL
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1996 9/30/1996 PTS: SMS:
Driver Name: DOE Driver Reference: DOE ORDER 5480.21-23
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0065 TPA MS NO.: M-41-12
Title: START INTERIM STABILIZATION OF 4 FERROCYANIDE WL TKS IN 241-BX/BY
Planning Date Target Date Decrement Date Level: FO Keyword: S
4/30/1997 4/30/1997 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0075 TPA MS NO.: M-41-14
Title: START INTERIM STABILIZATION OF 7 FLAMMABLE GAS WL TKS IN 241-S/SX
Planning Date Target Date Decrement Date Level: FO Keyword: S
6/30/1997 6/30/1997 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1100-00-0080 TPA MS NO.: M-41-15
Title: START INTERIM STABILIZATION OF 2 ORGANIC WL TANKS IN 241-S/SX
Planning Date Target Date Decrement Date Level: FO Keyword: S
6/30/1997 6/30/1997 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0150 TPA MS NO.:
Title: COMPLETE INITIAL DST INTEGRITY INSPECTIONS AND ISSUE REPORTS
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1997 9/30/1997 PTS: SMS:
Driver Name: ST Driver Reference: WAC-173-303-640(2)
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0155 TPA MS NO.: M-20-XX
Title: ISSUE WDOE/EPA APPROVED 242-A & DST PART B PERMITS
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1997 9/30/1997 PTS: SMS:
Driver Name: ST Driver Reference: WAC 173-303-810
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0085 TPA MS NO.: M-41-16
Title: START INTERIM STABILIZATION OF 2 NON-WL TANKS IN 241-T TANK FARM
Planning Date Target Date Decrement Date Level: FO Keyword: S
3/31/1998 3/31/1998 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

MILESTONES Continued

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Milestone No.: Milestone Seq: 1100-00-0090 TPA MS NO.: M-41-17
Title: START INTERIM STABILIZATION OF 1 FECN WL TANK IN 241-T TANK FARM
Planning Date Target Date Decrement Date Level: FO Keyword: S
4/30/1998 4/30/1998 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0095 TPA MS NO.: M-41-18
Title: START INTERIM STABILIZATION OF 1 FLAMMABLE GAS WL TANK IN 241-T
Planning Date Target Date Decrement Date Level: FO Keyword: S
4/30/1998 4/30/1998 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1100-00-0100 TPA MS NO.: M-41-19
Title: START INTERIM STABILIZATION OF 1 ORGANIC WL TANK IN 241-C FARM
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1998 9/30/1998 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

MILESTONES Continued

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Milestone No.: Milestone Seq: 1100-00-0005 TPA MS NO.: M-41-00
Title: COMPLETE SINGLE-SHELL TANK INTERIM STABILIZATION
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/2000 9/30/2000 PTS: SMS:
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health: Y
Description:
COMPLETE SST INTERIM STABILIZATION ACTIVITIES FOR ALL SINGLE-SHELL TANKS EXCEPT 241-
C-106. COMPLETE INTRUSION PREVENTION FOR ALL SINGLE-SHELL TANKS EXCEPT 241-C-106.

NARRATIVE

LAST UPDATE: 04-27-1994 TIME: 14:24:52

Technical Scope Summary(Limit 15 line or less):

The Hanford Site, currently has 177 radioactive waste storage tanks, with 49 smaller catch tanks. The design life of these tanks was for approximately 20-30 years however the current average tank age life is over 39 years. This ADS provides all direct and indirect support to operate and maintain the plant systems necessary for the safe storage and transfer of wastes at the Hanford Double-Shell and Single-Shell Tank Farms (200 east and 200 west areas). This workscope includes operating the 242-A evaporator for concentrating low-heat-generating liquid wastes and performing single-shell tank stabilization activities.

The program scope outlines, the base safe operating case (Target Level Case), which includes continued development and implementation of the necessary activities required for achieving and maintaining Final Safe Operating Status in the Hanford site tank farms.

Technical Scope Detail(Limit 104 lines or less):

The Tank Farm Operations and Maintenance ADS 1100 is broken into seven major sub-activities with following details:

1.1.1.2.01.01 - TECHNICAL MANAGEMENT & ADMINISTRATION

Provides indirect support for safe storage of underground waste tanks in the 200 Areas of the Hanford site. Specifics include: 01) Program Element and Baseline Management which performs the business management and integration function for the program (ADS 1100); 02) Tank Farm Program Assessments which provides utilities and services required to support safe operations (i.e electrical power, laundry & mask services, heating/process steam and water, vehicle/heavy equipment services, and solid waste (RMW, LLW, & Haz Waste) burial assessment costs; 03) Planning & Administration which performs the occurrence reporting functions, provides technical data service centers in 200 east and west, and develops integrated Tank Farms

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field activity schedules; 04) Tank Farm Training which conducts Nuclear Process Operator (NPO) training (i.e. liquid levels, field crew, environmental waste operations, aging waste, CASS/TMACS), maintains manuals/procedures/programs in technical accreditation status, performance based training initiatives, and maintenance training program; 05) QE/QC Support which provides quality engineering, quality control, quality assurance on tank farm activities including procurement/fabrications; 06) Tank Farm Security which provides general security reviews/support and upgrading of tank farms access requirements; 07) Tank Farm Operations & Admin Procedures which is responsible for maintaining over 500 plant operating procedures and the procedure administration manual; 08) Nuclear Safety Oversight which performs independent nuclear safety reviews required by DOE Order 5480.5, 'Safety of Nuclear Facilities'; 09) Issues/Corrective Action Management which facilitates actions on existing and emerging safety, environmental, and conduct of operations; and 10) CASS/TMACS/SACS Data Management which maintains the automated systems that monitor and analyze the information generated by in-tank instrumentation. 1.1.1.2.01.02 - TANK FARM COMPLIANCE & CORRECTIVE ACTIVITIES This subactivity provides for the non-direct operations activities necessary to either achieve and/or maintain compliance with regulatory requirements. Specifics include: 01) DST Integrity Assessment Program which is developing an ultrasonic testing device for NDE testing of double-shell tanks, in addition, design standards-structural integrity reviews will be performed, waste characteristics analysis, compatibility reviews, and Integrity Assessment Reports (IARs) will be developed for each DST farm; 02) Codes and Standards program implements DNFSB 90-2 recommendation which requires that DOE determine the adequacy of the standards identified for protecting public health and safety at defense nuclear facilities and recommend the corrective actions necessary to mitigate significant identified deficiencies; 03) Environmental Compliance which consists of managing adherence and issues in tank farms. Specifics include 242-A VV organic sampling, gaseous effluents, RCRA inspection schedules, DST/242-A Part B permits review/approval cycle, waste minimization program, RCRA compliance agreement, stack system configuration, waste analysis plans, liquid effluents, field equipment assessments/planning, tritium sampling of stacks, and waste transfers compliance; 04) Radioactive/Hazardous Solid Waste Management which ensures that the hazardous solid waste is properly generated and prepares waste (i.e. certifications, waste characterization & designation) for disposal; 05) Criticality Engineering which is responsible for maintaining fissile material inventories, safety bases/limits, and other related criticality activities; 06) DST Emergency Pumping Preparations which develops the plan and process to allow the expeditious transfer of waste from a confirmed leaking DST to a sound DST in case the need should arise; 07) Operational Safety Requirements (OSRs) Implementation which implements the interim and final OSRs currently being developed in safety documentation upgrades for single-shell tanks, aging waste tanks, and double-shell tanks; 08) Safety Documentation upgrades which develops the safety analysis reports (SARs) that establish and evaluate the adequacy of the safety bases of the tank farm facilities

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(DSTs/SSTs/242-A/Aging Waste); and 09) Vadose Zone Characterization & Surveillance.

1.1.1.2.01.03 - TANK FARM 200 EAST STORAGE FACILITIES

This subactivity provides the base surveillance, operations, and maintenance of 200 East area tank farm plant systems. Specific activities include: 01) 200 East Preventive Maintenance which perform equipment Pms, PISCES, HEPA testing, and third party inspections; 02) 200 East Corrective Maintenance which performs routine/non-routine (i.e. repair failed FIC's & manual tapes, repair active CASS alarm deficiencies, fix exhausters, lighting repairs, etc.) maintenance work packages; 03) 200 East Facility Operations which includes performing waste tank transfers, performing jumper changes and pump removals as required, rail car & tanker truck transfers, sampling, radiological control, and supporting maintenance activities; 04) 200 East Routine Surveillance which performs data taking/monitoring (i.e. liquid levels, ventilation systems, breather filter data, dome surveys, swab riser readings, tank temperature & pressure), radiation monitoring (i.e. radiological surveys, monitor source checks) and obtaining in-tank photos of single-shell tanks; 05) 200 East Industrial Hygiene & Safety which performs work place monitoring and analysis of chemical vapors in the tank farms; 06) 200 East Engineering & Analysis which provides Systems Engineering ensuring the technical adequacy of the tank farm facilities and Process Engineering which provides the technical leadership and direction for safe and efficient facility operations and routines.

1.1.1.2.01.04 - TANK FARM 200 WEST STORAGE FACILITIES

(Primarily same workscope as 1.1.1.2.01.03, Tank Farm 200 East Storage Facilities but for the 200 West area in the Hanford Site)

1.1.1.2.01.05 - SST STABILIZATION PROGRAM

This subactivity provides for the interim stabilization of single-shell tanks, a Tri-Party Agreement Major Milestone. This includes SST farm preparations, pumping activities, safety studies, intrusion preventions, SST emergency pumping capability, and if required, SST emergency pumping.

1.1.1.2.01.06 - 242-A EVAPORATOR AND AW & AP TANK FARMS

This subactivity provides for the concentration of low-heat generating liquid wastes, reducing the volume and the number of double-shell tanks required to store dangerous liquid wastes. Workscope includes preventive/corrective maintenance, base operations, routine surveillance and operations, and engineering & analysis.

1.1.1.2.01.07 - RETIRED FACILITIES AND TURNOVER SUPPORT

This subactivity provides for performing the necessary activities required prior to turnover of tank farm facilities to the D&D program.

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

The FY 1994 funding level provides for routine Operations & Maintenance (O&M) support for the waste tank facilities necessary to monitor the status of stored waste, accept waste transfers from other facilities, restarting and processing waste through the 242-A Evaporator, solid waste handling including the backlog waste program (characterization, repackaging, and

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shipment of previously undocumented containers), maintaining the material condition of the plant in a safe operating level, single-shell tank activities related to emergency pumping preparation and interim stabilization, a major TPA milestone, and tank farm program assessments (i.e electricity, steam/water, laundry/masks, solid waste burials). The FY 94 baseline allows for continuation of infrastructure developments and hardware restoration initiatives begun in FY 1992 and continuance of safety documentation upgrades, initiating implementation of new DST interim operational safety requirements, and environmental compliance improvements.

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

The FY 1995 funding level provides for routine Operations & Maintenance (O&M) support for the waste tank facilities necessary to monitor the status of stored waste, accept waste transfers from other facilities, continuing processing waste through the 242-A Evaporator, solid waste handling with increased volume, maintaining the material condition of the plant in a safe operating level, single-shell tank activities related to emergency pumping preparations and interim stabilization, a major TPA milestone, and tank farm program assessments (i.e electricity, steam/water, laundry/masks, solid waste burials). The FY 95 baseline allows for continuation of infrastructure developments and hardware restoration initiatives begun in FY 1992 and continuance of safety documentation upgrades, completing implementation of the interim operational safety requirements, and continuing environmental compliance improvements and Part B Permit NOD responses.

Based on assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. These adjustments may require a FY 1995 budget amendment.

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

The FY 1996 Decrement, Target, & Planning Funding Levels are identical. The following workscope is planned to be accomplished in FY 1996. (\$000)

DECREMENT/TARGET/PLANNING FUNDING LEVEL DESCRIPTIONS:-

- o Operational Safety Requirements (OSR) Implementation.....\$6.6
- Implements revised Interim OSRs for DSTs/AWF/SSTs.
- o Double-Shell Tank Integrity Assessment.....\$2.8
- Approx. 9 DSTs will be UT tested & Integrity Assessment Reports (IARs) prepared.
- o Environmental Compliance.....\$5.0
- Regulatory management improvements maintained, required waste /effluents analysis & assessments continues, 14 NESHPS stacks.
- o 242-A & DST Part B Permits.....\$1.1
- Prepare expected Notice of Deficiency comments and revise both permits including waste analysis plans as required.
- o Radioactive/Hazardous Solid Waste Disposal.....\$7.5

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- Prepare for burial approx. 40,000 cuft low-level waste (LLW) and approximately 5,000 cuft of radioactive mixed waste (RMW).
- o Criticality Safety Engineering.....\$0.3
- Maintain fissile material inventory database and support an expected increase in waste transfers (approx. 50).
- o Liquid Observation Well (LOW) Vans & Gamma Leak Detection Equipment..\$0.9
- Maintain 6 LOW Vans and 2 Spectral Gamma Trucks for use in surveillance monitoring of SST farms.
- o Safety Documentation Upgrades.....\$5.6
- Issue DST Final Safety Analysis Report to DOE-RL for approval.
- o Codes & Standards Program (DNFSB 90-2).....\$1.6
- Self assessment and improvement program continues reviewing impacts of new and changing requirements, this is required by DNFSB 90-2.
- o Tank Farm Facility Operations (200 East/West).....\$20.6
- Perform daily field activities including supporting ongoing farm work, performing jumper changes, and routings/waste transfers.
- o Tank Farm Routine Surveillance (200 East/West).....\$14.6
- Monitor 149 SSTs, 28 DSTs, 25 Catch Tanks, 20 Ventilation Systems, 150 Seal Loops (breather filter data), & 761 Drywells, (as required). Parameter data obtained includes liquid levels, leak detection, tank temperature, pressure, gas analysis, radiation, and equipment status.
- o Tank Farm Preventive Maintenance (200 East/West).....\$4.5
- Performs preventive maintenance as required by DOE Order 4330.4A, this includes freeze protection and preparations for summer weather.
- o Tank Farm Corrective Maintenance (200 East/West).....\$19.8
- Performs identified corrective work and minor modification packages (J-1, J-2, J-3/Ws and non-Davis Bacon modification (less than \$5K), estimated at 4,500 work packages in FY 1996.
- o 242-A Evaporator/AW & AP Operations and Maintenance.....\$17.5
- Average processing rate of diluted waste through 242-A is 500 kgal/month achieving a waste volume reduction goal to be determined by boil down studies. An estimate for FY 96 is 6.0M gallons process waste, 4.5M waste volume reduction.
- o Tank Farm Utilities and Services.....\$11.7
- Funds the base operations use of electricity, steam/water, laundry/masks usage, vehicle/heavy equipment maintenance, and solid waste burial assessment.
- o CASS/TMACS/SACS Data Base Management.....\$1.2
- Provides reporting and analysis including data archiving of surveillance data.
- o Issue/Corrective Action Management.....\$1.8
- Perform needs assessments and issue 12 monthly status reports.
- o Double-Shell Tank Emergency Pumping Capabilities.....\$0.5
- Complete procurement of DST emergency pumping equipment and development of procedures and training plan.
- o Quality Assurance/Quality Control Support.....\$2.0
- Continues providing environmental, safety, health support to routine tank farm operations and maintenance activities.
- o Tank Farms Security.....\$0.4

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- Continues administration of a physical and industrial security program in tank farms.
- o Purchase HLLW Cask and Pumping System.....\$1.7
- Delivery of HLLW cask is expected 9/30/95. Workscope will include design and building of a facility to load and operate the cask.
- o Nuclear Safety Oversight.....\$1.1
- Performs the nuclear safety independent assessments as required by DOE Order 5480.5.
- o Tank Farm Plant Cognizant Engineering.....\$7.3
- Provides required engineering and analysis to support Operations and Maintenance including preparing waste volume projects for DST space evaluations.
- o Tank Farm Plant Operating Procedures.....\$2.5
- Review and/or revise 262 procedures, 11 operator round sheets, 7 OSDs, and 7 OSRs.
- o Program Element and Baseline Management.....\$2.2
- Develop and manage the fiscal year work plan baseline, perform monthly performance analysis and reviews, submit five-year plan input, submit revised multi-year program plan as needed, and develop resource-loaded schedules to support the baseline/outyear plans.
- o Planning and Administration.....\$2.7
- Develop an integrated field planning schedule for tank farm and perform the occurrence reporting functions.
- o Single-Shell Tank Emergency Pumping Preparations.....\$1.5
- Maintains the emergency pumping capability for SSTs (eg. pumping trailer, procedures, overground transfer capability, training)
- o Single-Shell Tank Interim Stabilization.....\$11.5
- Completes interim stabilization of 1 SST in 241-U farm, start interim stabilization of 2 flammable gas tanks in 241-A/AX farms, start interim stabilization of 4 flammable gas tanks in 241-U farm, initiate pumping preparations in 241-BX/BY and 241-S/SX farms, and continue pumping of 3 organic watch-list tanks in 241-U farm.
- o Single-Shell Tank Intrusion Prevention.....\$1.0
- Perform intrusion prevention activities on just completed and prior years stabilized tanks.
- o Tank Farms Industrial Hygiene & Safety.....\$4.3
- Continue industrial hygiene and safety support including performing illumination surveys, job hazard assessments, noise surveys, chemical vapor monitoring, and personnel monitoring and analysis.
- o Tank Farms Training Program.....\$6.6
- Continue training program improvements. Formal training and certification programs will now exist for operations, maintenance, technical personnel, and supervisory personnel.

TOTAL \$168.4

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

Tank Farm routine surveillance and facility operations activities continue with conduct of operations/maintenance, training, and environmental

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compliance adherence improvements. The 242-A Evaporator will continue full-scale operations reducing significant amount of waste volume in the double-shell tanks. The tank farm SST/DST SAR's will have been completed and implemented in FY 1996 and FY 1997. Safety documentation upgrades and implementation along with the upgrades in ADS 1120 allows tank farms to achieve a final safe operating level by the end of fiscal year 2000. Outyear workscope will include continuing interim stabilization and intrusion prevention of single-shell tanks. This activity completes by 9/30/00.

Incremental workscope commenced in the outyears include preparations and operation of new tank farms in the 200 east and 200 west (six new double-shell tanks) of Hanford. Preparation of tank farm retired facilities (242-T/S evaporators, 244-AR vault) for turnover to the Environmental Restoration program for D&D operations.

Impacts/Assumptions(Limit 42 lines or less):

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unite rate, or the application of more efficient processes, or through cost avoidance. Also, G & A rate upgrades have been included.

Emergent work activities impacting the baseline will be handled through change control.

The following are programmatic assumptions affecting baseline workscope: o Conduct of Operations improvements implements 5th shift (training shift) and on-shift engineers.

o A Final Single-Shell Tank Facility Safety Analysis Report (FSAR) will not be prepared. The SSTs have been designated for closure with retrieval operations commencing in FY 1998. The single-shell tanks will operate under the FY 1995 revised interim SST operational safety requirements (OSR)s.

o No new liquid waste will be added to single-shell tanks.

o Single-shell tanks stabilization completed by September, 2000 will include intrusion prevention. This is required prior to retrieval operations.

o Evaporator operations will be used to manage/optimize DST liquid volume waste reduction.

o 4 new DSTs will be built in 200 east area (12/98).

o 2 new DSTs will be built in 200 west area (12/97).

o The 242-A evaporator will cease operations in FY 2007 and preparations for turnover to Environmental Restoration will commence.

o Low-level waste pretreatment plant will have evaporation capability to replace the 242-A evaporator function.

o Mapping and marking of underground waste transfer lines which is currently being required by the Hanford facility permit is not addressed in this ADS pending a study and a negotiated resolution.

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o Retired tank farm facilities will be transferred to Environmental Restoration for D&D.

Supporting Documents(Limit 5 lines or less):

The support planning documentation for this program element effort is the TWRS Program Baseline which is composed of documentation for executing the program mission. The baseline includes a Technical Baseline which consists of WBS dictionaries and a function and requirements document, a Schedule Baseline, and a Cost Baseline.

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 were submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

ST:

The primary driver of this ADS is the Washington Administrative Code (WAC) Chapter 4 173-303, Dangerous Waste Regulations. This regulation implements chapter 70.105 RCW, the Hazardous Waste Management Act of 1976 as amended in 1980 and 1983.

TRI:

M-41-00, Complete Single-Shell Tank Interim Stabilization

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Operations Office: RL ID No.: 1110- 0 Revision Date: 4/14/1992
 ADS Title: WASTE TANK SAFETY PROGRAMS
 WBS No.: 1.3.7.2.3 Category: WM Appr.:
 Project Title: WASTE TANK SAFETY PROGRA Facility/WAG: TANK FARMS
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: PAYNE, MA Phone: 509-373-1273
 O.O. Manager: GERTON, RE Phone: 509-376-9106
 H.Q. Manager: O'DELL, C Phone: 301-903-7192
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 100 TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: 3004U: TSCA: CERCLA: NEPA: Y
 DOE: Y IAG: OSHA: ORD: ST : Y TRI : Y FED : Y 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	33,867	52,167		A	0	0	0	0
CE	20,500	22,802		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	78,518	78,518	78,518	78,518
TOTAL	54,367	74,969		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	78,518	78,518	78,518	78,518

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	51,640
CE	26,878
GPP	0
LI	0
TOTAL	78,518

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	51,640	60,156	54,472	40,907	29,885
CE	26,878	32,652	28,863	22,848	10,409
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	78,518	92,808	83,335	63,755	40,294

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	51,640	60,156	54,472	40,907	29,885
CE	26,878	32,652	28,863	22,848	10,409
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	78,518	92,808	83,335	63,755	40,294

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: WASTE TANK SAFETY PROGRAM						FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: WASTE TANK SAFETY PROGRAM MANAGE									
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
EW3120072	40,551	59,976			E	87,328	87,328	87,328	87,328
35EW31207	20,500	22,413			F	0	0	0	0
39EW31207	0	0			G	0	0	0	0
39EW31207	0	0			H	0	0	0	0
					I	0	0	0	0
TOTAL	61,051	82,389			TOTAL	87,328	87,328	87,328	87,328

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3120072	60,434
35EW31207	26,894
39EW31207	0
39EW31207	0
TOTAL	87,328

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120072	60,434	65,703	50,533	44,972	35,576
35EW31207	26,894	30,491	22,893	21,476	10,594
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	87,328	96,194	73,426	66,448	46,170

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120072	60,434	65,703	50,533	44,972	35,576
35EW31207	26,894	30,491	22,893	21,476	10,594
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	87,328	96,194	73,426	66,448	46,170

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Budget Detail Profile

DESC: WASTE TANK SAFETY PROGRAM				FY96 DRIVER CATEGORY				
SUB-DESC: PROGRAM: EM SUBACT: AM				DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: PRODUCTIVITY CHALLENGE								
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	
EW3120072	-6,684	-7,809		E	-8,810	-8,810	-8,810	
35EW31207	0	389		F	0	0	0	
39EW31207	0	0		G	0	0	0	
39EW31207	0	0		H	0	0	0	
				I	0	0	0	
TOTAL	-6,684	-7,420		TOTAL	-8,810	-8,810	-8,810	

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3120072	-8,794
35EW31207	-16
39EW31207	0
39EW31207	0
TOTAL	-8,810

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120072	-8,794	-5,547	3,939	-4,065	-5,691
35EW31207	-16	2,161	5,970	1,372	-185
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	-8,810	-3,386	9,909	-2,693	-5,876

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120072	-8,794	-5,547	3,939	-4,065	-5,691
35EW31207	-16	2,161	5,970	1,372	-185
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	-8,810	-3,386	9,909	-2,693	-5,876

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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1110-00-0015 TPA MS NO.: _____
Title: UPGRADE TANK WASTE CONTENTS DATABASE, SAFETY DOC, AND RISK ASSESS
Planning Date Target Date Decrement Date Level: HQ Keyword:
9/30/1993 9/30/1993 PTS: Y SMS: Y
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:
PREPARE DOC TO UPGRADE TANK WASTE CONTENTS DATABASE TO INCLUDE FISSILE MATERIALS AND HEAVY METALS. A RISK ASSESSMENT WILL BE PREPARED TO PROVIDE SAFETY DOCUMENTATION TO CLOSE THE CRITICALITY USQ. (SAFETY INITIATIVE 2V)

Milestone No.: _____ Milestone Seq: 1110-00-0060 TPA MS NO.: _____
Title: DEFINE TANK CONDITIONS REQUIRED FOR SAFE STORAGE OF FECN WASTE
Planning Date Target Date Decrement Date Level: HQ Keyword:
12/30/1993 12/30/1993 PTS: Y SMS: Y
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:
DEVELOP SAFETY CRITERIA TO DEFINE CONDITIONS FOR IN SITU SAFE STORAGE OF FERROCYANIDE WASTE THAT SATISFY DOE REQUIREMENTS FOR CLOSURE OF THE FERROCYANIDE USQ. (SAFETY INITIATIVE 2R)

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Milestone No.: Milestone Seq: 1110-00-0140 TPA MS NO.:
Title: APPROVE BROAD-BASED ENVIRONMENTAL ASSESSMENT
Planning Date Target Date Decrement Date Level: HQ Keyword:
12/30/1993 12/30/1993 PTS: Y SMS: Y
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:
A BROAD-BASED ENVIRONMENTAL ASSESSMENT WILL BE PREPARED TO COVER MOST OF THE
ACTIVITIES NEEDED TO CHARACTERIZAE THE WASTE, UPGRADE THE PLANT EQUIPMENT, AND
ADDRESS THE TANK SAFETY ISSUES. (SAFETY INITIATIVE 2B)

Milestone No.: Milestone Seq: 1110-00-0030 TPA MS NO.:
Title: RESOLVE FLAMMABILITY ISSUES ASSOCIATED WITH TANK 241-C-103
Planning Date Target Date Decrement Date Level: HQ Keyword:
1/28/1994 1/28/1994 PTS: Y SMS: Y
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:
AEROSOL AND VAPOR SAMPLES WILL BE COLLECTED AND ANALYZED. THE SAMPLE DATA WILL BE
EXAMINED FOR EVIDENCE OF AN ORGANIC AEROSOL IN THE TANK. (SAFETY INITIATIVE 2I)

Milestone No.: Milestone Seq: 1110-00-0065 TPA MS NO.:
Title: CLOSE FERROCYANIDE USQ
Planning Date Target Date Decrement Date Level: HQ Keyword:
1/28/1994 1/28/1994 PTS: Y SMS: Y
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:
DEVELOP SAFETY CRITERIA TO DEFINE CONDITIONS FOR IN SITU SAFE STORAGE OF
FERROCYANIDE WASTE THAT SATISFY DOE REQUIREMENTS FOR CLOSURE OF THE FERROCYANIDE
USQ. (SAFETY INITIATIVE 2S)

Milestone No.: Milestone Seq: 1110-00-0010 TPA MS NO.:
Title: ISSUE APPROVED CRITICALITY SAFETY ANALYSIS
Planning Date Target Date Decrement Date Level: HQ Keyword:
3/31/1994 3/31/1994 PTS: Y SMS: Y
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:
SUPPORT CLOSURE OF NUCLEAR CRITICALITY USQ BY GATHERING ADDITIONAL DATA THAT COULD
SUPPORT THE SAR POSITION THAT CRITICALITY IS NOT CREDIBLE AND PERFORM A RISK
ASSESSMENT. (SAFETY INITIATIVE 2W)

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Milestone No.: Milestone Seq: 1110-00-0020 TPA MS NO.: M-40-01
Title: COMPLETE TANK 241-SY-101 LOW SPEED MIXER PUMP TEST
Planning Date Target Date Decrement Date Level: FO Keyword:
3/31/1994 3/31/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:
PERFORM PUMP BUMPING FOLLOWED BY LIMITED, LOW SPEED TESTING TO DETERMINE WHETHER MIXING CAN BE DONE SAFELY AND WHETHER IT IS EFFECTIVE IN RELEASING HYDROGEN FROM THE WASTE.

Milestone No.: Milestone Seq: 1110-00-0035 TPA MS NO.:
Title: CLOSE TANK 241-C-103 USQ
Planning Date Target Date Decrement Date Level: HQ Keyword:
3/31/1994 3/31/1994 PTS: Y SMS: Y
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:
COMPLETE AN ISB LEVEL 1 TOPICAL REPORT IN SUPPORT OF TANK 241-C-103 USQ CLOSURE BY MARCH 1994. (SAFETY INITIATIVE 2J)

Milestone No.: Milestone Seq: 1110-00-0055 TPA MS NO.:
Title: COMPLETE SAMPLING AND SAFETY EVAL OF LIQUID ORG IN TANK 241-C-103
Planning Date Target Date Decrement Date Level: HQ Keyword:
3/31/1994 3/31/1994 PTS: Y SMS: Y
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:
COMPLETE ISB LEVEL 1 TOPICAL REPORT IN SUPPORT OF TANK 241-C-103 USQ CLOSURE. (SAFETY INITIATIVE 2Q)

Milestone No.: Milestone Seq: 1110-00-0125 TPA MS NO.: M-40-14
Title: CLOSE FERROCYANIDE USQ
Planning Date Target Date Decrement Date Level: FO Keyword:
3/31/1994 3/31/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:
DEVELOP SAFETY CRITERIA TO DEFINE CONDITIONS FOR ON SITE SAFE STORAGE OF FERROCYANIDE WASTE THAT SATISFY DOE REQUIREMENTS FOR CLOSURE OF THE FERROCYANIDE USQ.

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Milestone No.: Milestone Seq: 1110-00-0130 TPA MS NO.: M-40-16
Title: COMPLETE SAMPLING & SAFETY EVAL OF LIQUID ORG IN TANK 241-C-103
Planning Date Target Date Decrement Date Level: FO Keyword:
3/31/1994 3/31/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:
COMPLETE ISB LEVEL 1 TOPICAL REPORT IN SUPPORT OF TANK 241-C-103 USQ CLOSURE.

Milestone No.: Milestone Seq: 1110-00-0135 TPA MS NO.: M-40-17
Title: CLOSE TANK 241-C-103 USQ
Planning Date Target Date Decrement Date Level: FO Keyword:
5/31/1994 5/31/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:
SUPPORT APPROVAL BY DOE OF TANK 241-C-103 CLOSURE DOCUMENTATION.

Milestone No.: Milestone Seq: 1110-00-0005 TPA MS NO.: M-40-11
Title: CLOSE THE UNREVIEWED SAFETY QUESTION FOR THE CRITICALITY ISSUE
Planning Date Target Date Decrement Date Level: FO Keyword:
6/30/1994 6/30/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:
CLOSURE OF USQ WILL REDUCE SAFETY RESTRICTIONS ON WASTE TRANSFERENCE TO AND FROM THE
TANK FARMS.

Milestone No.: Milestone Seq: 1110-00-0040 TPA MS NO.:
Title: SAMPLE AND CHARACTERIZE TANK VAPORS FROM TANK 241-C-103
Planning Date Target Date Decrement Date Level: HQ Keyword:
6/30/1994 6/30/1994 PTS: Y SMS: Y
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:
VAPOR SAMPLES WILL BE COLLECTED FROM TANK 241-C-103 AND ANALYZED FOR ORGANIC AND
INORGANIC GASES AND VAPORS. QUANTITATIVE ANALYSES ON COMPOUNDS OF TOXICOLOGICAL
CONCERN WILL BE PERFORMED. (SAFETY INITIATIVE 2M)

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Milestone No.: Milestone Seq: 1110-00-0045 TPA MS NO.:
Title: EEA FOR TREATMENT OF TANK 241-C-103 VAPOR SPACE
Planning Date Target Date Decrement Date Level: HQ Keyword:
6/30/1994 6/30/1994 PTS: Y SMS: Y
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:
EEA TO DETERMINE THE NEED AND OPTIONS FOR THE TREATMENT OF POTENTIALLY
HAZARDOUS/TOXIC VAPORS BEING DISCHARGED FROM TANK 241-C-103 VAPOR SPACE. (SAFETY
INITIATIVE 2N)

Milestone No.: Milestone Seq: 1110-00-0200 TPA MS NO.: M-40-13
Title: DOCUMENT 100% DESIGN COMPLETION OF PERMANENT MITIGATION PUMP
Planning Date Target Date Decrement Date Level: FO Keyword:
7/31/1994 7/31/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:
DESIGN A PERMANENT MIXER PUMP FOR TANK 241-SY-101.

Milestone No.: Milestone Seq: 1110-00-0110 TPA MS NO.: M-40-06
Title: COMPLETE VAPOR SMPL CHARACTERIZATION OF TANK 241-C-103 (PHASE 2)
Planning Date Target Date Decrement Date Level: FO Keyword:
8/31/1994 8/31/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:
REPRESENTATIVE VAPOR SAMPLES WILL BE COLLECTED FOR AN EXTENSIVE, PHASE 2
CHARACTERIZATION OF TANK 241-C-103. RESULTS WILL BE REVIEWED BY THE VAPOR
CONFERENCE COMMITTEE AND A PANEL OF TOXICOLOGICAL EXPERTS.

Milestone No.: Milestone Seq: 1110-00-0025 TPA MS NO.:
Title: ISSUE REPORT AND RECOMMENDATIONS ON ALTERNATE MITIGATION TESTING
Planning Date Target Date Decrement Date Level: HQ Keyword:
9/30/1994 9/30/1994 PTS: Y SMS: Y
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:
SONIC PROBE WILL BE DESIGNED AND EVALUATED FOR POTENTIAL USE IN TANK 241-SY-101 TO
TEST CONCEPT OF SONIC MITIGATION. TEST REPORT EVALUATING THE POTENTIAL FOR USING
HEATING OR DILUTION AS A CONTINGENCY MITIGATION OPTION. (SAFETY INITIATIVE 2G)

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Milestone No.: Milestone Seq: 1110-00-0090 TPA MS NO.: M-40-02A
Title: DEVL CRITERIA FOR UPGRADED TEMP. MON. CAPABILITIES IN FECN TANKS
Planning Date Target Date Decrement Date Level: FO Keyword:
9/30/1994 9/30/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:
DEVELOP CRITERIA APPROVED BY DOE FOR UPGRADED TEMPERATURE MONITORING CAPABILITIES IN FERROCYANIDE TANKS.

Milestone No.: Milestone Seq: 1110-00-0095 TPA MS NO.: M-40-02B
Title: INSTALL 6 OF 12 NEW THERMOCOUPLES
Planning Date Target Date Decrement Date Level: FO Keyword:
9/30/1994 9/30/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:
INSTALL NEW THERMOCOUPLE (TC) TRES AND HOOKUP THE TEMPERATURE MONITOR AND CONTROL SYSTEM (TMACS) IN 6 OF THE REMAINING 12 FERROCYANIDE TANKS.

Milestone No.: Milestone Seq: 1110-00-0190 TPA MS NO.: M-40-15
Title: INSTALL GAS MON. EQUIP IN REMAINING 5 POTENTIALLY FLAMMABLE DST'S
Planning Date Target Date Decrement Date Level: FO Keyword:
9/30/1994 9/30/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health:
Description:
INSTALL THE EXISTING SHMS ON TANK 241-SY-103; FABRICATE AND INSTALL GAS MONITORS ON TANKS 241-AW-101, 241-AN-103, 104, AND 105; PREPARE ALL ASSOCIATED FIELD WORK PACKAGES; READINESS REVIEWS; AND SITE PREPARATION.

Milestone No.: Milestone Seq: 1110-00-0070 TPA MS NO.:
Title: COMPLETE INSTALL OF NEW TC'S & CONT. TEMP. MON. SYS IN FECN TANKS
Planning Date Target Date Decrement Date Level: HQ Keyword:
12/29/1994 12/29/1994 PTS: Y SMS: Y
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Y Safety and Health: Y
Description:
COMPLETE INSTALLATION OF NEW THERMOCOUPLE (TC) TRES AND CONTINUOUS TEMPERATURE MONITORING SYSTEMS IN ALL FERROCYANIDE TANKS. (SAFETY INITIATIVE 2T)

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Milestone No.: Milestone Seq: 1110-00-0145 TPA MS NO.:
Title: EXPEDITE DESIGN & CONST. OF BACKUP PORT. EXHAUSTER FOR 241-SY-101
Planning Date Target Date Decrement Date Level: HQ Keyword:
12/30/1994 12/30/1994 PTS: N SMS: N
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health: Y
Description:
DESIGN, FAB, TEST, AND DELIVERY OF INTRINSICALLY SAFE MODULAR EXHAUSTER; AND
INSTALLATION OF THE REPLACEMENT MODULAR EXHAUSTER AS THE PRIMARY EXHAUSTER. (SAFETY
INITIATIVE 2F)

Milestone No.: Milestone Seq: 1110-00-0075 TPA MS NO.:
Title: COMP. INSTALL OF TC'S & SONT. TEMP. MON. IN ALL ORGANIC TANKS
Planning Date Target Date Decrement Date Level: HQ Keyword:
3/31/1995 3/31/1995 PTS: N SMS: N
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health: Y
Description:
COMPLETE INSTALLATION OF NEW THERMOCOUPLE (TC) TREES AND CONTINUOUS TEMPERATURE
MONITORING SYSTEMS IN ALL ORGANIC TANKS. (SAFETY INITIATIVE 2T)

Milestone No.: Milestone Seq: 1110-00-0080 TPA MS NO.:
Title: REMOVE ORGANIC LAYER FROM TANK 241-C-103
Planning Date Target Date Decrement Date Level: HQ Keyword:
3/31/1995 3/31/1995 PTS: N SMS: N
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health: Y
Description:
INITIATE ACTIVITIES FOR REMOVAL AND DISPOSAL OF THE ORGANIC LAYER FROM TANK 241-C-
103. (SAFETY INITIATIVE 2U)

Milestone No.: Milestone Seq: 1110-00-0160 TPA MS NO.:
Title: CLOSE SY FARM FLAMMABLE GAS USQ
Planning Date Target Date Decrement Date Level: HQ Keyword:
3/31/1995 3/31/1995 PTS: N SMS: N
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health: Y
Description:
EVAL. HISTORICAL DOC. AND PROCESS DATA, UPDATE AND MAINTAIN COMPREHENSIVE DATABASE
ON FLAMMABLE GAS TANKS, EVALUATE TECHNICAL DATA, UPDATE USQ AND WATCH LIST
SCREENING, AND SET GUIDELINES FOR CLOSURE OF USQ ON FLAM GAS TANKS. (SAFETY

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Milestone No.: Milestone Seq: 1110-00-0205 TPA MS NO.:
Title: DESIGN AND INSTALL A PERMANENT MIXER PUMP IN 241-SY-101
Planning Date Target Date Decrement Date Level: HQ Keyword:
3/31/1995 3/31/1995 PTS: N SMS: N
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health: Y
Description:
DESIGN, PROCURE, FABRICATE AND INSTALL A PERMANENT MIXER PUMP IN TANK 241-SY-101.
(SAFETY INITIATIVE 2E)

Milestone No.: Milestone Seq: 1110-00-0150 TPA MS NO.:
Title: INSTALL GAS MON. EQUIP. IN REMAINING POTENTIALLY FLAMMABLE GAS TK
Planning Date Target Date Decrement Date Level: HQ Keyword:
4/28/1995 4/28/1995 PTS: N SMS: N
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health: Y
Description:
DESIGN, FAB, AND INSTALLATION OF STANDARD HYDROGEN MONITORING SYSTEMS ON THE
REMAINING POTENTIALLY FLAMMABLE GAS TANKS; PREPARATION OF ALL ASSOCIATED FIELD FOR
PACKAGES; READINESS REVIEWS; AND SITE PREPARATION. (SAFETY INITIATIVE 2H)

Milestone No.: Milestone Seq: 1110-00-0085 TPA MS NO.: M-40-02
Title: UPGRADE TEMPERATURE MONITORING CAPABILITIES IN FERROCYANIDE TANKS
Planning Date Target Date Decrement Date Level: FO Keyword:
4/30/1995 4/30/1995 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
INSTALL AND OPERATE UPGRADED TEMPERATURE MONITORING CAPABILITIES IN FERROCYANIDE
TANKS.

Milestone No.: Milestone Seq: 1110-00-0050 TPA MS NO.:
Title: SAMPLE AND CHARACTERIZE REMAINING SUSPECT TANKS
Planning Date Target Date Decrement Date Level: HQ Keyword:
6/30/1995 6/30/1995 PTS: N SMS: N
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: N Safety and Health: Y
Description:
REPRESENTATIVE VAPOR SAMPLES WILL BE COLLECTED AND ANALYZED. ANALYSIS SHALL BE DONE
BY GC/FID, GC/MS STANDARD LAB PRACTICE, OSHA ANALYTICAL, OR NIOSH METHODS. (SAFETY
INITIATIVE 2o)

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Milestone No.: Milestone Seq: 1110-00-0105 TPA MS NO.: M-40-04
Title: COMPLETE REMOVAL OF FLOATING ORGANIC LAYER FROM TANK 241-C-103
Planning Date Target Date Decrement Date Level: FO Keyword:
6/30/1995 6/30/1995 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE REMOVAL OF THE FLOATING ORGANIC LAYER FROM TANK 241-C-103.

Milestone No.: Milestone Seq: 1110-00-0115 TPA MS NO.: M-40-07
Title: COMMENCE OPERATION OF A VAPOR TREATMENT SYSTEM IN TANK 241-C-103
Planning Date Target Date Decrement Date Level: FO Keyword:
6/30/1995 6/30/1995 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
PROVIDE A REPORT DOCUMENTING VAPOR TREATMENT SYSTEM OPERATIONAL TEST PROCEDURE RESULTS AND COMMENCE PERMITTED OPERATION OF A VAPOR TREATMENT SYSTEM FOR TANK 241-C-103.

Milestone No.: Milestone Seq: 1110-00-0165 TPA MS NO.:
Title: COMPLETE CONTINGENCY COOLING TESTS IN HIGH-HEAT TANK 241-C-106
Planning Date Target Date Decrement Date Level: HQ Keyword:
6/30/1995 6/30/1995 PTS: N SMS: N
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
A SAFETY ALTERNATIVE PROCESS TEST WILL BE CONDUCTED IN HIGH-HEAT TANK 241-C-106.
(SAFETY INITIATIVE 2X)

Milestone No.: Milestone Seq: 1110-00-0155 TPA MS NO.:
Title: REPLACE VENT. FAN IN SY FARM TO FURTHER REDUCE SPARK POTENTIAL
Planning Date Target Date Decrement Date Level: HQ Keyword:
8/31/1995 8/31/1995 PTS: N SMS: N
Driver Name: FED Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health: Y
Description:
DESIGN, FAB, TEST AND DELIVERY OF INTRINSICALLY SAFE FAN; AND INSTALLATION OF REPLACEMENT FAN IN THE K-1 PRIMARY EXHAUSTER FOR THE 241-SY TANK FARM. (SAFETY INITIATIVE 2K)

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Milestone No.: Milestone Seq: 1110-00-0175 TPA MS NO.: M-40-05
Title: COMPLETE SAFETY ALTERNATIVE TEST IN HIGH-HEAT TANK 241-C-106
Planning Date Target Date Decrement Date Level: FO Keyword:
9/30/1995 9/30/1995 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
CONDUCT A SAFETY ALTERNATIVE TEST IN HIGH-HEAT TANK 241-C-106 TO REDUCE AND
ESTABLISH THE COOLING LIQUID AT A MINIMUM LEVEL.

Milestone No.: Milestone Seq: 1110-00-0100 TPA MS NO.: M-40-03
Title: PERFORM VAPOR CHARACTERIZATION OF ALL FERROCYANIDE WATCH LIST TKS
Planning Date Target Date Decrement Date Level: FO Keyword:
11/30/1995 11/30/1995 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
PERFORM QUANTITATIVE VAPOR CHARACTERIZATION TO INCLUDE VOLATILE ORGANICS,
INORGANICS, ACID GASES, AND WATER FOR ALL FERROCYANIDE TANKS ON THE WATCH LIST AS OF
9/93.

Milestone No.: Milestone Seq: 1110-00-0120 TPA MS NO.: M-40-08
Title: PERFORM VAPOR CHARACTERIZATION FOR ALL ORGANIC WATCH LIST TANKS
Planning Date Target Date Decrement Date Level: FO Keyword:
11/30/1995 11/30/1995 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
PERFORM QUANTITATIVE VAPOR CHARACTERIZATION TO INCLUDE VOLATILE ORGANICS,
INORGANICS, ACID GASES, AND WATER FOR ALL ORGANIC WATCH LIST TANKS.

Milestone No.: Milestone Seq: 1110-00-0185 TPA MS NO.: M-40-10
Title: COMPLETE VAPOR SPACE MON. FOR ALL FLAM. GAS GENERATING TANKS
Planning Date Target Date Decrement Date Level: FO Keyword:
1/31/1997 1/31/1997 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
DESIGN, PROCURE, AND FABRICATE STANDARD HYDROGEN MONITORING SYSTEMS FOR ALL
UNREVIEWED SAFETY QUESTION FLAMMABLE GAS GENERATING TANKS.

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Milestone No.: Milestone Seq: 1110-00-0180 TPA MS NO.: M-40-09
Title: CLOSE ALL USQ'S FOR DOUBLE SHELL AND SINGLE SHELL TANKS
Planning Date Target Date Decrement Date Level: FO Keyword:
9/30/1998 9/30/1998 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
FOR EACH USQ (IDENTIFIED AS OF 9/93) DATA WILL BE COLLECTED AND SAFETY DOCUMENTATION, INCLUDING NEW OPERATING SAFETY ENVELOPES AND APPROPRIATE WORK CONTROLS, WILL BE SUBMITTED FOR APPROVAL.

Milestone No.: Milestone Seq: 1110-00-0195 TPA MS NO.: M-40-12
Title: RESOLVE NUCLEAR CRITICALITY SAFETY ISSUE
Planning Date Target Date Decrement Date Level: FO Keyword:
9/30/1999 9/30/1999 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
RESOLVE THE POTENTIAL FOR NUCLEAR CRITICALITY SAFETY ISSUE BY PROVIDING SUFFICIENT MONITORING, ANALYSIS, AND REVISION OF APPROPRIATE SAFETY DOCUMENTATION.

Milestone No.: Milestone Seq: 1110-00-0170 TPA MS NO.: M-40-00
Title: MITIGATE/RESOLVE TNK SAFETY ISS FOR HIGH PRIORITY WATCH LTS TANKS
Planning Date Target Date Decrement Date Level: FO Keyword:
9/30/2001 9/30/2001 PTS: N SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
WHEN MITIGATION ACTIVITIES HAVE BEEN IMPLEMENTED IN ALL WATCH LIST TANKS TO ENSURE SAFE STORAGE OF WASTE DURING THE INTERIM PERIOD UNTIL RETRIEVAL FOR TREATMENT AND/OR DISPOSAL OPERATIONS BEGIN.

NARRATIVE

LAST UPDATE: 04-27-1994 TIME: 10:14:52

Technical Scope Summary(Limit 15 line or less):

This ADS addresses waste tank safety issues concerning Hanford Site Watch List tanks. The technical scope, order of magnitude cost estimates, and the schedule for mitigating and resolving waste tank safety issues are addressed. In addition, the following is discussed: 1) a description of waste tank safety issues; 2) milestones for completion of work; 3) the strategy and logic for resolving safety issues; 4) work descriptions by

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funding year; and 5) planning assumptions.

Technical Scope Detail(Limit 104 lines or less):

The Waste Tank Safety Program (WTSP) was established in mid-1990 to address the hazards associated with storage of radioactive mixed waste in the large underground radioactive waste storage tanks at the Hanford Site. The WTSP serves as the focal point for identification and resolution of selected high-priority waste tank safety issues: 1) twenty-five tanks with significant potential to generate and release flammable gases (hydrogen and nitrous oxide); 2) twenty tanks contain greater than 1,000 g-moles of ferrocyanide; and 3) ten tanks contain organic chemicals (exceeding 10 weight percent sodium acetate equivalent) mixed with sodium nitrate/nitrite. These tanks have the potential for runaway reactions which could result in the release of high-level waste. These tanks comprise the Watch List and are subject to operating restrictions in and around them to minimize the possibility of an unsafe event occurring. In addition, there are specific issues with each. They are: 1) one tank is known to have a separable organic phase (floating liquid layer); 2) one tank has a heat generation rate greater than 100,000 Btu/hr that requires periodic water additions to prevent waste temperatures from exceeding the 300 degrees F operating limit; and 3) one tank does not meet the tank farm operating specifications for hydroxide ion (OH) concentration of 0.3 moles per liter; the low OH condition can potentially cause stress corrosion cracking.

Between July 1987 and May 1992 there were sixteen odor exposure events occurred, resulting in medical first aid and lost time incidents to employees. The exposures are thought to be organic in nature, and due to the flammability of many organic compounds, operational restrictions and safety precautions are in place on several of the tank farms.

Additional waste sampling must be completed to confirm the results of analyses. Also, other waste tank safety issues may be discovered, including, but not limited to, potential issues on 50 smaller miscellaneous tanks in the 200 Areas as these tanks are characterized and evaluated.

An initial goal of the WTSP is to ensure safe storage of waste during the interim period until retrieval for treatment and/or disposal operations begin. A key step toward achieving this goal is to carry out safety evaluations and propose corrective action strategies for mitigating and/or resolving the hazards. The WTSP consists of eleven activities to achieve near-term and long-range goals. These activities are: (1) Technical Integration and Planning; (2) Hydrogen Mitigation; (3) Waste Tank Ferrocyanide Safety Program; (4) Waste Tank Flammable Gas Safety Program; (5) Waste Tank Organic Safety Program; (6) Waste Tank High-Heat Safety Program; (7) Miscellaneous Underground Storage Tanks; (8) Tank Vapor Issue Resolution; (9) Waste Tank Nuclear Criticality; (10) Other Waste Tank

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Safety Issues (inactive); and (11) Waste Tank Hydroxide Control.

Key relationships with other program elements include: 1) the Tank Farm Operations and Maintenance for pumping single shell tanks (SSTs), operating equipment following demonstration testing, structural evaluations, evaluation of miscellaneous tanks, and obtaining tank farm readings for final safety basis; 2) the Characterization Program for core sampling and sample analysis; 3) the Retrieval Program for retrieval of waste, and a future facility for treatment of waste; and 4) the Upgrades Program for in tank instrumentation and controls and a new tank farm for storage of diluted and/or retrieved waste.

Safety issue resolution will be completed in a priority order. Tanks with the higher risk will be evaluated and mitigated first. The logic involves a problem definition phase followed by three optional paths leading to resolution of the safety issue for a tank, or group of tanks, by either controlling or eliminating the hazard. The logic elements for the completion of work are: (1) evaluate and define the problem; (2) in-tank resolution without treatment; (3) in-tank resolution with treatment; and (4) resolution out-of-tank with or without treatment. The path followed is ultimately a function of whether the waste requires treatment and where the waste treatment takes place.

The problem definition phase consists of reviewing historical records; procuring laboratory and waste monitoring equipment; developing analytical methods; conducting simulant waste studies; obtaining and analyzing waste samples; interpreting characterization and monitoring data; developing predictive models; and performing safety and environmental analyses. Recommendations for resolution of the unreviewed safety questions (USQs) will be made.

The in-tank resolution without treatment phase consists of developing, procuring, and installing additional equipment to continuously monitor tank parameters (temperature, pressure, gas concentration, surface level), which is necessary for most tanks to complete problem definition; and for some tanks, may also be adequate to resolve the safety issue. If not, corrective action plans will be prepared and implemented to control the hazard.

The in-tank resolution with treatment (mitigation) phase consists of moisture controls, mixer pumps, sonic or perhaps ultrasonic agitation, heating and dilution, closed loop cooling, and vapor treatment. The scope of this phase consists of concept development, design, fabrication, installation, testing and demonstration of the equipment.

The out-of-tank with or without treatment (remediation) phase, if required is not within the scope of this ADS.

Based on the resultant work of this ADS the following will be done: 1) the
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safety envelope redefined; 2) the operating procedures modified; 3) the control limits established; and 4) the documentation completed for recommendation of safety issue resolution. Operation of mitigation and/or monitoring equipment beyond testing/operational verification and equipment turnover to tank farm operations is not within the scope of this ADS,

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

In FY 1992, analyses of 241-SY-101 core samples were completed, a final report on crust burn was issued, an implementation plan for resolution of the flammable gas USQ was prepared, and a high sensitivity mass spectrometer for gas analysis was procured. A Multi-functional Instrument Tree for monitoring temperature, pressure and gas was installed in 241-SY-101; concepts for mitigation were evaluated; and a mixer pump system, designed to promote continuous release of gas, was fabricated for in-tank testing. Nine more ferrocyanide tanks were connected to the Tank Monitor and Control System and four new thermocouple trees were installed. Flammability vapor space sampling from four tanks, an auger surface sample from one tank, and core samples from two tanks were obtained and analyzed. Initial results from tank 241-C-112 indicate less ferrocyanide than predicted, less energetic behavior than anticipated, and a moisture content around 50 percent. Preliminary sampling of vapors in 241-C-103 was conducted to address concerns with sampling and analytical methodologies. A report on methods of chemical analysis for organic waste constituents in radioactive materials was issued; and the high-heat program plan was updated to reflect the new approach to significantly accelerate the definition of hazards associated with tank 241-C-106.

In FY 1993, flammability vapor sampling of additional ferrocyanide tanks and installation of six thermocouple trees was completed. Development for in-tank moisture monitoring was initiated, development of a system for ferrocyanide speciation was initiated, a resolution plan for the USQ was issued and four ferrocyanide tanks were removed from the Watch List. Installation and testing of 241-SY-101 mitigation mixer pump and Data Acquisition and Control System, installation and operation of a high sensitivity mass spectrometer for gas analysis, and a hazard assessment for 241-SY-103 were completed. Procurement and installation of a high-resolution, high mass spectrometer for organic analyses and defining criteria for the organic tanks Watch List was completed. Equipment design and fabrication for caustic addition to 241-AN-107 was initiated; preparatory activities for initiation of a process test in high-heat 241-C-106 and vapor space sampling and characterization of 241-C-103; and implementation of a Noxious Odor Advisory System pilot program were also completed. The FY 1994 workscope includes developing a programmatic risk assessment model and the approval of a broad-based environmental assessment. Flammable gas workscope includes mitigation testing in 241-SY-101; all tasks necessary to vapor, auger and core sample 241-SY-103 and 241-AW-101; and installation of gas monitors on all 5 remaining DSTs. Ferrocyanide activities include recommendations and safety basis documentation for USQ closure for all ferrocyanide tanks; and development

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of criteria and upgrade temperature monitoring for remaining ferrocyanide tanks. Vapor resolution workscope includes enhancing analysis capability for SUMMA canisters at PNL; completing vapor sampling and characterization of 241-C-103; completing an EEA for treatment of 241-C-103 vapor space; and design, fab and installation of a tank vapor flow monitor on 241-C-103. Organic workscope includes sampling and safety evaluation of liquid organic USQ closure of 241-C-103 (floating organic layer); program plan for organic tanks; and safety criteria based on laboratory tests with waste surrogates. Other scope includes beginning a process test in 241-C-106; and completing installation of a caustic injection and mixing system in 241-AN-107.

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

The FY 1995 flammable gas workscope includes closure of the USQ for 241-SY and AW farm tanks; installing a mitigation pump system in 241-SY-101 and testing an alternative concept; vapor and core sampling of the three 241-AN farm tanks; development and deployment of a retained gas sampler; completing 241-SY farm ventilation system upgrades; completing installation of multi-functional instrument trees in remaining double shell tanks, and completing gas monitoring upgrades on all remaining single-shell tanks. Ferrocyanide workscope includes completing flammability vapor sampling and installation of thermocouple trees in all tanks; and recommending safety issue resolution for 4 tanks; initial installation of moisture monitoring equipment; and complete core sampling of ferrocyanide tanks. Organic workscope includes temperature and pressure monitoring upgrades in organic Watch List tanks; equipment installation and removal of the tank 241-C-103 organic layer; and initiating kinetic/thermodynamic studies with simulated and actual waste. Vapor activities include vapor sampling and characterization of remaining suspect tanks (including all ferrocyanide and organic tanks) and commence operation of a vapor treatment system in tank 241-C-103. Other scope includes completing the process test in high-heat tank 241-C-106; and completing caustic mixing operations in tank 241-AN-107; issuing a programmatic risk assessment report for all waste tank safety issues; and initiating safety screening sampling and monitoring of miscellaneous tanks.

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. The delta change from the President's budget is \$2,810K, resulting in a new total of \$82,389K. These adjustments may required a FY 1995 budget amendment.

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

The FY 1996 flammable gas workscope includes closure of the USQ for 241-AN farm tanks; synthetic waste studies (gas phase reactions, gas generation, phase equilibria, shear strength) and modeling; transfer of organic analysis methods development; completing vapor sample analysis and retained gas sampling for double shell tanks, and completing video camera

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installations in double-shell tanks. Ferrocyanide workscope includes obtaining DOE approval to resolve the safety issue for the first 4 ferrocyanide tanks; complete installation of a neutron probe, moisture monitoring of ferrocyanide tanks; and core sample data interpretation/safety documentation of ferrocyanide tanks. Organic workscope includes demonstration of moisture monitoring and control in one or more organic Watch List tanks; and treatment and disposal of the organic layer from 241-C-103. Flammable gas mitigation workscope includes operating and testing the 241-SY-101 mixer pump and mitigation pump systems for tanks 241-AW-101, 241-AN-103, 241-AN-104, 241-AN-105, and 241-SY-103. Other scope includes design and installation of a caustic injection system in 241-AZ-102, work on resolving the criticality safety issue, program closeout and technical transfer to the characterization program of the Waste Tank Vapor Resolution Program, and continuing safety screening sampling and installation of monitoring equipment in miscellaneous tanks.

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

The FY 1997-2000 workscope includes completion of design/install/test of mitigation pump systems in the 241-AN farm; closing all USQs (identified as of September 1993) for DSTs and SSTs; recommend and obtain DOE approval for the resolution of the safety issue for the remaining ferrocyanide tanks; completing vapor space monitoring, evaluation and definition, technology development, and ventilation and monitoring upgrades for all flammable gas tanks, and resolving the safety issue for flammable gas SSTs; complete resolution of the organic tanks safety issue and continue mitigation of organic Watch List tanks via moisture monitoring and control; resolving the high-heat tanks safety issue; resolution of safety issues for miscellaneous underground tanks; resolve nuclear criticality issue; and mitigate hydroxide consumption issue in tanks 241-AZ-102 and 241-AN-102.

Impacts/Assumptions(Limit 42 lines or less):

(1) Major waste tank safety issues have been identified and plans are in place for resolving these issues. No new major safety issue and/or concerns will be identified that require diversion of resources. (2) Safety issues will be mitigated and/or resolved. Resolution of safety issues for some tanks may be delayed if out-of-tank treatment is required. (3) Waste tank safety issue resolution activities shall be based on continued in-situ safe storage of the waste until such time that the waste is retrieved for treatment and/or disposal. Safe interim storage shall support continued operations, waste retrieval, characterization, pretreatment, vitrification of high-level and low-level waste fractions, and other cleanup activity operational requirements. (4) The Waste Tank Safety Program (WTSP) shall fund developmental instrumentation, modular ventilation exhausters, and mitigation upgrades, as required, for all Watch List tanks. Tank Farm Upgrades (ADS 1120) shall fund non-developmental and infrastructure upgrades, and Characterization ADS (1130) will fund gas monitoring and analysis for Watch List tanks. (5) SSTs and DSTs requiring characterization

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to address safety issues shall be identified in a timely manner. The Characterization Program (ADS 1130) will fund the base cost of analyses performed to characterize wastes in accordance with Washington State Department of Ecology criteria, to meet requirements of DNFSB Recommendation 93-5, and also the cost for special safety-related analyses. The WTSP shall fund specific analyses to interpret the characterization data as the data relate to resolution of tank safety issues. All Watch List tanks will be characterized by September 1995. (6) There will be no required breakthroughs in technology, however, considerable lab research may be necessary to resolve waste tank safety issues. Technology applications shall be identified, and research, development, demonstration, test and evaluation funds shall be available as needs are identified. (7) There shall be no major discoveries related to structural fitness of waste tanks that require an accelerated approach to close a safety issue. (8) A new tank farm (Project W-236a) will be completed to support timely remediation of waste tank safety issues. (9) Priorities shall be established consistent with the legal requirements of protecting human health, safety and the environment. (10) Development of analytical techniques and evaluation of mechanisms for the WTSP will be integrated with the activities of TDPO. (11) The broad-based Environmental Assessment, completed in fiscal year 1994, covers field work activities. In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment and rate adjustment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Supporting Documents(Limit 5 lines or less):

Legal drivers are as follows: Public Law 101-510, DNFSB 90-7, Tri-Party Agreement Milestone M-40-00, 29 CFR 1910, 40 CFR 265, WAC 173-303, DOE 5480.10, DOE 5480.21, DOE 5480.22, DOE 5480.23, DOE 5480.24, DOE 5480.4B, DOE 5480.5, DOE 5483.1B, and DOE 5820.2A.

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 were submitted under separate cover.

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DESCRIPTION OF REGULATORY DRIVERS

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Operations Office: RL ID No.: 1120- 0 Revision Date: 1/19/1992
 ADS Title: TANK FARM UPGRADES
 WBS No.: 1.3.7.2.4 Category: WM Appr.:
 Project Title: TANK FARM UPGRADES Facility/WAG: TANK FARMS
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: THOMSON, JD Phone: 509-373-9243
 O.O. Manager: GERTON, RE Phone: 509-376-9106
 H.Q. Manager: GRIFFITH, AR Phone: 301-903-7120
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 45 TRU: TRU MIX: LLW: MLLW: 11 HAZ: 1 SANT: SNF:

REGULATORY DRIVERS

CAA: Y CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: N NEPA: N
 DOE: Y IAG: N OSHA: Y ORD: N ST : Y 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	28,880	17,657		A	0	0	0	0
CE	5,155	6,409		B	0	0	0	0
GPP	2,000	5,596		C	0	0	0	0
LI	0	0		D	0	0	0	0
				E	14,497	17,697	17,697	17,697
TOTAL	36,035	29,662		F	1,706	6,527	6,527	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	16,203	24,224	24,224	17,697

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	11,771
CE	2,726
GPP	1,706
LI	0
TOTAL	16,203

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	14,099	13,617	13,904	12,412	7,554
CE	3,598	6,105	6,572	5,031	3,635
GPP	6,527	6,822	6,822	6,822	6,822
LI	0	0	0	0	0
TOTAL	24,224	26,544	27,298	24,265	18,011

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	14,099	13,617	13,904	12,412	7,554
CE	3,598	6,105	6,572	5,031	3,635
GPP	6,527	6,822	6,822	6,822	6,822
LI	0	0	0	0	0
TOTAL	24,224	26,544	27,298	24,265	18,011

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: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: OA				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: TANK FARMS MAJOR MAINTENANCE UPG							
APPROP: D							
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D
EW3130010	28,880	20,300		0	0	0	0
35EW31301	5,155	6,300		0	0	0	0
39EW31301	0	0		0	0	0	0
39EW31301	0	0		0	0	0	0
TOTAL	34,035	26,600		14,497	20,100	20,100	20,100

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	11,771
35EW31301	2,726
39EW31301	0
39EW31301	0
TOTAL	14,497

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	16,500	14,873	12,899	13,646	8,993
35EW31301	3,600	5,701	5,213	4,729	3,699
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	20,100	20,574	18,112	18,375	12,692

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	16,500	14,873	12,899	13,646	8,993
35EW31301	3,600	5,701	5,213	4,729	3,699
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	20,100	20,574	18,112	18,375	12,692

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Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP					FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: OB					DECREMENT	TARGET	PLAN	IMM RISK
TITLE: TANK FARM UPGRADE PROJECTS - OPE								
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	1,706	6,527	6,527	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
TOTAL	2,000	5,596		TOTAL	1,706	6,527	6,527	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	0
35EW31301	0
39EW31301	1,706
39EW31301	0
TOTAL	1,706

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	0	0	0	0	0
35EW31301	0	0	0	0	0
39EW31301	6,527	6,822	6,822	6,822	6,822
39EW31301	0	0	0	0	0
TOTAL	6,527	6,822	6,822	6,822	6,822

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	0	0	0	0	0
35EW31301	0	0	0	0	0
39EW31301	6,527	6,822	6,822	6,822	6,822
39EW31301	0	0	0	0	0
TOTAL	6,527	6,822	6,822	6,822	6,822

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Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP						FY96 DRIVER CATEGORY						
SUB-DESC: PROGRAM: EM SUBACT: OC						DECREMENT	TARGET	PLAN	IMM RISK			
TITLE: UPGRADES PRODUCTIVITY CHALLENGE												
APPROP: D												
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D	E	F	G	H	I
EW3130010	0	-2,643		0	0	0	0	0	-2,403	-2,403	0	-2,403
35EW31301	0	109		0	0	0	0	0	0	0	0	0
39EW31301	0	0		0	0	0	0	0	0	0	0	0
39EW31301	0	0		0	0	0	0	0	0	0	0	0
TOTAL	0	-2,534		0	0	0	0	0	-2,403	-2,403	0	-2,403

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	0
35EW31301	0
39EW31301	0
39EW31301	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	-2,401	-1,256	1,005	-1,234	-1,439
35EW31301	-2	404	1,359	302	-64
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	-2,403	-852	2,364	-932	-1,503

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	-2,401	-1,256	1,005	-1,234	-1,439
35EW31301	-2	404	1,359	302	-64
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	-2,403	-852	2,364	-932	-1,503

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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 _____
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1120-00-0010 TPA MS NO.: _____
Title: LABEL AN AND SY TANK FARMS
Planning Date Target Date Decrement Date Level: FO Keyword: CR
9/30/1993 9/30/1993 PTS: N SMS: N
Driver Name: ORD Driver Reference: DOE ORDER 5480.19, CHAPTER 18
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
LABEL AN AND SY TANK FARMS IN COMPLIANCE WITH DOE ORDER 5480.18, CHAPTER 18

Milestone No.: _____ Milestone Seq: 1120-00-0025 TPA MS NO.: _____
Title: COMPLETE COMPRESSOR UPGRADES 241-U TANK FARM
Planning Date Target Date Decrement Date Level: CNTR Keyword: O
9/30/1993 5/27/1994 PTS: N SMS: N
Driver Name: DOE Driver Reference: DOE ORDERS
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
COMPELTE COMPRESSOR UPGRADES AT 241-U TANK FARM

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1120-00-0005 TPA MS NO.: NONE
Title: MOTOR CONTROL CENTER FOR CR CONTROL ROOM - RESTORED
Planning Date Target Date Decrement Date Level: FO Keyword:
9/20/1993 7/29/1994 PTS: N SMS: N
Driver Name: DOE Driver Reference: ORD
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: Current Year Workplan: Safety and Health: N
Description:
RESTORATION OF THE CR CONTROL ROOM MOTOR CONTROL CENTER

Milestone No.: Milestone Seq: 1120-00-0015 TPA MS NO.:
Title: FIVE COMPRESSORS INSTALLED
Planning Date Target Date Decrement Date Level: FO Keyword: CR
8/26/1994 8/26/1994 PTS: Y SMS: Y
Driver Name: ORD Driver Reference: DOE ORDERS
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
INSTALL FIVE COMPRESSORS (TANK FARMS SX, U, T, A, AND CR (AIR DRYER ONLY IN CR)).

Milestone No.: Milestone Seq: 1120-00-0020 TPA MS NO.:
Title: S EVAPORATOR ALARM UPGRADES COMPLETED
Planning Date Target Date Decrement Date Level: FO Keyword: O
4/25/1995 4/25/1995 PTS: N SMS: N
Driver Name: ORD Driver Reference: DOE ORDERS
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
S EVAPORATOR ALARM UPGRADES COMPLETE

NARRATIVE

LAST UPDATE: 05-02-1994 TIME: 09:29:35

Technical Scope Summary(Limit 15 line or less):

This activity provides upgrades to 18 tank farm facilities in the 200 East and 200 West Areas located on the Hanford Site.

Technical Scope Detail(Limit 104 lines or less):

The Hanford Site currently has 177 radioactive waste storage tanks with 49

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small catch tanks. Although the design life of these tanks was approximately 20 years, the current average tank age life is over 38 years. After many decades of underfunding and major increases in requirements, a significant number of the tank farms require major hardware restoration and infrastructure upgrades to meet current DQE operating expectations. There are five different tank designs. These tanks range from 55,000 gallons in operation tank size to 1,140,000 gallon capacity. This ADS provides for modification and replacement of major plant systems development of infrastructure elements that are not with in the base safe case and facility improvements.

Tank Farm Upgrades are ongoing and will be completed by the year 2005.

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

The following major maintenance tasks are complete: U Farm Alarm Panel Upgrade, BX/BY modular compressor design media, 701-SX HVAC design media, and 271-U Control Room HVAC design media.

The following Conduct of Operations tasks are complete: Develop the field verification program scope, filed verify the first fifty of 150 drawings for the year, development of the cross site transfer line program plan, development of the 216-A-40 Retention Basin project plan, review and revise 60 plant operating procedures, develop two operator round sheets, review 10 administrative procedures, award IWR for preparation of the design basis reconstitution program plan, release material evaluation engineering process procedure, release a transfer pump procurement specification, issue request for transfer pump procurement specification, issue request for transfer pump proposal, release transfer pump development program Quality Assurance Program Plan, revise disposal strategic plan options study, release FDC for long-length equipment disposal design, and release overall test plan for long-length equipment. In-Tank Instrumentation activities completed: Installed a new buoyancy type level gauge (Enraf 854 ATG) in Tank S-107, and completed installation design for expansion of the Tank Monitor and Control System (TMACS) to S and SX Farms.

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

Major maintenance activities will include performance of upgrades to diesel generators, alarm panel (Safety Initiative), control rooms, resolve tank farm site electrical assessment issues, liquid waste minimization, and compressed air system (Safety Initiative) Configuration management activities will include developing a tank farm configuration management plan, preparing upgrades tank farm operating procedures, field verifying essential and support drawings. Long length contaminated equipment disposal activities will include: retrieval equipment fabrication and testing, retrieval equipment operating procedures, transport/storage container Safety Analysis Report for Packaging, transport/storage container definitive design, transport equipment definitive design, transport equipment procurement, design and construction of an empty container

~~NARRATIVE Continued~~

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NARRATIVE Continued

storage yard and the Process Path document. Engineering Tank Farm Hardware activities will include Definitive Design completion, fabrication of prototype pumps, completion of the Acceptance Test Procedures, and receipt of the pumps. In Tank Instrumentation activities will be done on the watch list tanks include the following: installation of new temperature vapor probes (TVP) and multi-functional instrument trees will continue and will be connect to TMACS as they are installed. These provide tank temperature profiles as well as capability for vapor sampling and pressure sensing. The Standard Hydrogen monitoring System (SHMS) will be installed on the remaining hydrogen watch list tanks (Safety Programs) and connected to TMACS. Additional upgrades of temperature monitoring will include testing and repair of existing temperature element wiring and connect to the TMACS. Installation of the new buoyancy type level gauge will be extended to additional double shell tanks as well as single shell tanks with surface liquid. The new gauge is a replacement for the reel type conductivity gauge. It will operate on both solids and liquids, does not require electrical conductivity, and eliminates the need for instrument air purge. The Hand Held Data Acquisition (HDAT) for tank farms will be extended to additional farms for performing operator rounds. HDAT replaces traditional manual data collection and recording with a portable computer utilizing bar code technology. It provides data screening at the input point and electronically transfers the information to the data repository eliminating the key punch operations. In addition, other instrumentation such as contact alarms, tank pressure, and new level gauges will be connected to TMACS.

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes redistribution of Richland's FY 1995 Congressional Budget request. The delta change from the President's budget is -\$11,328 K, resulting in a new total of \$29,662 K. These adjustments may require a FY 1995 budget amendment.

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

Decrement Level activities

Activities will include resolution of site electrical assessment issues, continuing development of a configuration management plan, and continued upgrade of tank farm operating procedures. In tank instrumentation (TMACS) will be installed in the remaining tank farms. Long length contaminated equipment activity: Transport/storage container fabrication and testing. Engineered Tank Farm Hardware activities: complete qualification testing and procure four (4) pumps. \$16,203 K

Target/Planning Level

HDAT mitigation	700 K
Consolidation of alarm panel upgrades	700 K
Diesel generator upgrades	421 K
Compressed Air System Upgrades	700 K
GPP Definition for Facilities Upgrades	3,485 K

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GPP Definition for Electrical Upgrades	700 K	
GPP Definition for Mechanical Upgrades	3,315 K	
Total Increment	10,021 K	
TARGET FUNDING TOTAL:		\$26,224 K

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

Major Maintenance and Configuration Management activities will include upgrades to diesel generators, resolution of tank farm site electrical assessment issues, and compressed air system upgrades, upgrades to tank farm operating procedures, field verification of essential and support drawings, general drawing field verifications, development of an integrated tank farm design basis query system, procurement of 4 additional pumps, continued develop of engineered hardware, expansion of the TMACS. The existing computer Automated Surveillance System (CASS) will be retired (replaced by TMACS). The level gauge replacement will continued for any remaining tanks requiring continuous level monitoring.

Impacts/Assumptions(Limit 42 lines or less):

The safety analysis being performed for the waste tanks will establish the minimum functional requirements for safety related equipment. It is assumed that the existing equipment capabilities and original design requirements are consistent with the new safety analysis assumptions. Where significant inconsistencies exist additional equipment modifications may be required which are not funded by this ADS. These issues will be addressed through the change request process.

The Tank Farm Major Maintenance Upgrades program has been prioritized to provide emphasis and support to DOE-HQ/RL concerns for the health, safety, and environmental protection of all hanford Tank Farm employees.

Environmental concerns are also addressed with the additional and/or replacement of exhausters, vent systems, recorders, monitors, etc. Should these activities not be funded, the results would be inadequate control and monitoring of liquid and gaseous effluents and inability to comply with DOE Orders and Federal and State laws.

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the applicate of more efficient processes, or through cost avoidance. The ADS also reflects a rate change for G&A/CSP.

Supporting Documents(Limit 5 lines or less):

NEPA, 40 CFR 1500, Washington State Environmental Policy Act, Washington Administrative Code (WAC) of 1976, Clean Air Act 40 CFR 61, 40 CAR 52 Tiger Team Assessment Findings, DOE Order 5400.1, DOE Order 5400.3, DOE Order 5400.5, DOE-RL 5480.1, DOE Order 5480.5, DOE Order 5481.1B, DOE Order 5820.2A, DOE Order 6430.1A

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government

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Performance Review and Results Act and the National Performance Review were submitted under separate cover.

LAST UPDATE: 05-08-1993 TIME: 11:34:32

DESCRIPTION OF REGULATORY DRIVERS

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 RL-1120-1 - Date: 6/01/1994 Time: 10:32

Operations Office: RL ID No.: 1120- 1 Revision Date: 4/27/1994
 ADS Title: TANK FARMS RADIOLOGICAL SUPPORT FACILITY (W-188)
 WBS No.: 1.3.7.2.24 Category: WM Appr.:
 Project Title: TANK FARMS RADIOLOGICAL Facility/WAG:
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: 25400 TEC:
 Contig: 0
 CNTR Manager: THOMSON, JD Phone: 509-373-9234
 O.O. Manager: SIDPARA, A Phone: 509-376-0933
 H.Q. Manager: GRIFFITH, AR Phone: 301-903-7120
 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: Y 3004U: N TSCA: N CERCLA: N NEPA: Y
 DOE: Y IAG: N OSHA: Y ORD: N ST : Y TRI : N FED : Y 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	299	174	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	684	684	0
TOTAL	299	174	F	0	0	0	0
			G	0	0	0	0
			H	0	0	0	0
			I	0	0	0	0
			TOTAL	0	684	684	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	684	275	431	426	336
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	1,800	11,100	13,300	3,400
TOTAL	684	2,075	11,531	13,726	3,736

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	684	275	431	426	336
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	1,800	11,100	13,300	3,400
TOTAL	684	2,075	11,531	13,726	3,736

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: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER CATEGORY				
SUB-DESC: PROGRAM: EM SUBACT: JJ				DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: Productivity Challenge								
APPROP: D								
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D	E
EW3130010	0	-26		0	0	0	0	0
35EW31301	0	0		0	0	0	0	0
39EW31301	0	0		0	0	0	0	0
39EW31301	0	0		0	0	0	0	0
TOTAL	0	-26		0	-116	-116	0	0
				TOTAL	0	-116	-116	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	0
35EW31301	0
39EW31301	0
39EW31301	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	-116	-25	31	-42	-64
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	-116	-25	31	-42	-64

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	-116	-25	31	-42	-64
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	-116	-25	31	-42	-64

Environmental Management
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Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: OJ				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: Tank Farms Radiological Support							
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
EW3130010	299	200	E	0	800	800	0
35EW31301	0	0	F	0	0	0	0
39EW31301	0	0	G	0	0	0	0
39EW31301	0	0	H	0	0	0	0
			I	0	0	0	0
TOTAL	299	200	TOTAL	0	800	800	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	0
35EW31301	0
39EW31301	0
39EW31301	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	800	300	400	468	400
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	1,800	11,100	13,300	3,400
TOTAL	800	2,100	11,500	13,768	3,800

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	800	300	400	468	400
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	1,800	11,100	13,300	3,400
TOTAL	800	2,100	11,500	13,768	3,800

Environmental Management
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Al06 Cross References

Al06 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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1120-01-0005 TPA MS NO.: N/A
Title: COMPLETE DESIGN FOR PROJECT W-188
Planning Date Target Date Decrement Date Level: CNTR Keyword: O
3/30/1998 3/30/1998 PTS: Y SMS: Y
Driver Name: DOE Driver Reference: DOE ORDER 6430.1A
PRESENT IN Tiger Team: Y Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: Y
Description:
COMPLETE DESIGN FOR PROJECT W-188

Milestone No.: _____ Milestone Seq: 1120-01-0015 TPA MS NO.: N/A, PRO
Title: START CONSTRUCTION, PROJECT W-188
Planning Date Target Date Decrement Date Level: CNTR Keyword: O
4/30/1998 4/30/1998 PTS: Y SMS: Y
Driver Name: DOE Driver Reference: DOE ORDERS
PRESENT IN Tiger Team: Y Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: Y
Description:
START CONSTRUCTION, PROJECT W-188

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1120-01-0010 TPA MS NO.: N/A
Title: COMPLETE CONSTRUCTION OF RADIOLOGICAL SUPPORT FACILITIES
Planning Date Target Date Decrement Date Level: CNTR Keyword: O
6/30/2000 6/30/2000 PTS: Y SMS: Y
Driver Name: DOE Driver Reference: DOE ORDERS
PRESENT IN Tiger Team: Y Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: Y
Description:
COMPLETE CONSTRUCTION OF RADIOLOGICAL SUPPORT FACILITIES

NARRATIVE

LAST UPDATE: 04-27-1994 TIME: 12:16:06

Technical Scope Summary(Limit 15 line or less):

Provides permanent change room facilities at ten locations adjacent to the Tank Farms in the 200 areas to support continued operational requirements and future retrieval/decommissioning efforts.

Technical Scope Detail(Limit 104 lines or less):

These change facilities will bring the tank farm areas in compliance with DOE Orders for safety and contamination control. These facilities will also provide cost effective personnel access control. All utilities and personnel access requirements to support these facilities will be provided by this project.

The definitive design will begin in FY 96, and construction will be completed in FY 2000.

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

FDC, Rev. 2, Complete March 1994
PSE Complete March 1992, CDR March 1994

Conduct Value Engineering Session to attempt to reduce project costs; revise FDC; prepare CDR; prepare NEPA documentation; validate project.

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

Project Planning, project management, initiate project authorization and definitive design.

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of

NARRATIVE Continued

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Richland's FY 1995 Congressional budget request. The delta change from the President's budget is -\$1,665K, resulting in a new total of \$200K. These adjustments may require a FY 1995 budget amendment.

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

Decrement level activities:

Not funded in decrement level. \$ 0 K

Target/Planning Level Activities:

Provide support to start definitive design. \$ 684 K

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

Provide support to complete definitive design, procurement and construction resulting in project completion in FY 2000. Construction will begin in FY 1997 and be completed in FY 2000.

Impacts/Assumptions(Limit 42 lines or less):

There are no change facilities on site that are compliant with DOE safety and design requirements. These change facilities are needed to support construction, retrieval, and decommissioning. The increased worker efficiency afforded by these facilities will allow the cost of the project to be recovered.

The facility shall be designed to comply with the requirements of DOE Order 6430.1A, Hanford Plant Standard, and Standard Design Criteria 4.1 for a Safety Class 3, non-nuclear facility. The design life of the facility shall be thirty years.

In an effort to enhance operating cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance. The ADS also reflects a rate change affecting the adder for G&A/CSP and application of rates to Capital.

Supporting Documents(Limit 5 lines or less):

DOE Order 6430.1A Section 13.68, for design of change facilities DOE Order 5480.10, DOE Order 5480.11
Tiger Team TTA-90-0000-AX.1.2

Performance Measures(Limit 15 lines or less):

Specific performance measures consistent with provisions of the Government

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Performance Review and Results Act and the National Performance Review were submitted under separate cover.

LAST UPDATE: 05-08-1993 TIME: 10:28:19

DESCRIPTION OF REGULATORY DRIVERS

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 RL-1120-2 - Date: 6/01/1994 Time: 10:33

Operations Office: RL ID No.: 1120- 2 Revision Date: 4/27/1994
 ADS Title: TANK FARM VENTILATION UPGRADES (W-030)
 WBS No.: 1.3.7.2.6 Category: WM Appr.:
 Project Title: TANK FARM VENTILATION UP Facility/WAG: TANK FARMS
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: THOMSON, JD Phone: 509-373-9234
 O.O. Manager: SIDPARA, A Phone: 509-376-0933
 H.Q. Manager: GRIFFITH, AR Phone: 301-903-7120
 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: N NEPA: Y
 DOE: Y IAG: N OSHA: N ORD: N ST : Y TRI : Y FED : N FFCA: N
 OTHER 1: N OTHER 2: N OTHER 3: N

Summary Funding Profile

B&R	FY94 APPR	FY95 PRES	FY95 APPR	DECREMENT	FY96 DRIVER CATEGORY			IMM RISK
					TARGET	PLAN		
OE	1,193	870		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	1,000	0		D	0	0	0	0
				E	1,282	1,282	1,282	1,282
TOTAL	2,193	870		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	1,282	1,282	1,282	1,282

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	482
CE	0
GPP	0
LI	800
TOTAL	1,282

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TARGET LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	482	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	800	0	0	0	0
TOTAL	1,282	0	0	0	0

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	482	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	800	0	0	0	0
TOTAL	1,282	0	0	0	0

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: RICHLAND TANK WASTE REMED SYS-NFP						FY96 DRIVER CATEGORY					
SUB-DESC: PROGRAM: EM SUBACT: GG						DECREMENT	TARGET	PLAN	IMM RISK		
TITLE: productivity challenge											
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
EW3130010	0		-130				E	0	-218	-218	-218
35EW31301	0		0				F	0	0	0	0
39EW31301	0		0				G	0	0	0	0
39EW31301	0		0				H	0	0	0	0
							I	0	0	0	0
TOTAL	0		-130				TOTAL	0	-218	-218	-218

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	0
35EW31301	0
39EW31301	0
39EW31301	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	-218	0	0	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	-218	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	-218	0	0	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	-218	0	0	0	0

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Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: OG				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: TANK FARM VENTILATION UPGRADES (
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
EW3130010	1,193	1,000		E	1,282	1,500	1,500
35EW31301	0	0		F	0	0	0
39EW31301	0	0		G	0	0	0
39EW31301	1,000	0		H	0	0	0
			I	0	0	0	0
TOTAL	2,193	1,000		TOTAL	1,282	1,500	1,500

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	482
35EW31301	0
39EW31301	0
39EW31301	800
TOTAL	1,282

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	700	0	0	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	800	0	0	0	0
TOTAL	1,500	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	700	0	0	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	800	0	0	0	0
TOTAL	1,500	0	0	0	0

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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1120-02-0010 TPA MS NO.: M4301T01
Title: W-030, COMPLETE DEFINITIVE DESIGN
Planning Date Target Date Decrement Date Level: Keyword:
7/31/1994 7/31/1994 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE DEFINITIVE DESIGN, W-030

Milestone No.: _____ Milestone Seq: 1120-02-0020 TPA MS NO.: M-43-01A
Title: W-030, START CONSTRUCTION
Planning Date Target Date Decrement Date Level: Keyword:
10/31/1994 10/31/1994 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
START CONSTRUCTION, W-030

MILESTONES Continued

Environmental Management
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MILESTONES Continued

Milestone No.: Milestone Seq: 1120-02-0005 TPA MS NO.: M-43-01B
Title: COMPLETE CONSTRUCTION W-030
Planning Date Target Date Decrement Date Level: FO Keyword:
10/31/1996 10/31/1996 PTS: SMS:
Driver Name: CERCLA Driver Reference: 40 CFR 265, DOE ORDERS
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE CONSTRUCTION OF W-030

Milestone No.: Milestone Seq: 1120-02-0015 TPA MS NO.: M-43-01C
Title: W-030, BEGIN OPERATIONS
Planning Date Target Date Decrement Date Level: FO Keyword:
12/30/1996 12/30/1996 PTS: SMS:
Driver Name: DOE Driver Reference: DOE ORDERS
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
W-030 BEGIN OPERATIONS

NARRATIVE

LAST UPDATE: 04-21-1994 TIME: 14:40:31

Technical Scope Summary(Limit 15 line or less):

This project will provide the essential safety class systems for the AY and AZ Tank Farms, to provide for safe and efficient storage of radioactive liquid high-level waste. Upgrades and improvements will be made to the ventilation and cooling, electrical standby power and instrumentation/control systems. The proposed construction site for this project is within and adjacent to the AY and AZ Tank Farms. The facilities and equipment will be constructed on the west side and adjacent to the AY and AZ Tank Farms, with associated piping and electrical/instrumentation lines extending into them. This project was initiated in FY 1989, and will continue with normal project activities (design, procurement and construction) into FY 1997. Specific activities and actions are described in the project data sheet and the project schedule.

Technical Scope Detail(Limit 104 lines or less):

Systems that will be replaced and/or upgrades are:

Ventilation System - A new buried stainless steel ventilation pipe line

NARRATIVE Continued

Environmental Management
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Date: 6/01/1994 Time: 10:35

~~NARRATIVE Continued~~

will connect the AY and AZ Tank Farms recirculation cooling system to a new ventilation building. The ventilation building will house treatment and filter equipment designed to remove radioactive and hazardous wastes to Department of Energy standards. Equipment in the facility includes a condenser (connected to a new closed loop cooling system including wet cooling towers), high efficiency mist eliminators, high efficiency particulate air filters, heaters, exhaust stack, monitoring equipment and controls. The ventilation building will be comprised of a reinforced concrete structure (approximately 3,600 square feet) that will comply with safety class 2 design criteria, and an instrument/control room that will be designed to meet the Uniform Building Code.

Cooling System - a recirculation cooling system will be provided for each AY and AZ tank. The recirculation cooling system will consist of a condenser (with closed loop cooling), moisture separator and fan. Each recirculation cooling system building will be comprised of a reinforced concrete structure (approximately 400 sq. ft.) that will comply with Safety Class 2 design criteria.

Standby Power System - Designated critical safety control systems (i.e., primary ventilation, selected controls, etc.) will be provided with standby power from a generator located in the safety class 2 portion of the new Generator/Compressor/Service Building (total building approximately 840 square feet).

Instrumentation/Control System - The new instrument/control room will house the monitor/control system for the new ventilation system.

Utilities - Utility service will be extended to the project site for use by the facilities. Electrical power, standby electrical power, raw water, and instrument air will be utilized in their normal operation.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):
Definitive design reached 100% in FY 1994.

Site preparation construction completed FY 1993.

Complete definitive design, complete procurement, and initiate construction activities. This includes engineering support, RPT/operator support, and overall program integration.

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

Provide a continuance of the construction and program integration activities.

Based on an assessment of required workscope and projects outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland' FY 1995 congressional Budget request. The delta change from the

~~NARRATIVE Continued~~

Environmental Management
FY96 Field Submission
Activity Data Sheet

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NARRATIVE Continued

President's budget is -\$730 K, resulting in a new total of \$1,000 K. These adjustments may require a FY 1995 budget amendment.

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

Continue construction, initiate startup activities and provide program integration.

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

Complete construction and have system operational.

Impacts/Assumptions(Limit 42 lines or less):

The AY and AZ Tank Farms are required for continued storage of high-level radioactive waste. This project is also required prior to initiating 101-AZ retrieval process testing schedule under ADS 1210.

Waste inventories in the AY and AZ Tank Farms are planned beyond the year 2000.

The current process cooling water of approximately 250,000,000 gallons per year, which is currently discharged to the soil column, is to be discontinued to comply with the congressionally directed 'DOE Plan and Schedule to Discontinue Disposal of Contaminated Liquids into the Soil Column at the Hanford Site.'

Assumptions for operating expense increases:

Full-time PIC in farm throughout construction; four dedicated HPTs throughout construction; two dedicated operators; assuming projects will be responsible for OTPs, operating procedures, training procedures and maintenance procedures. Note: Schedule revised per Change Request #79 extending project completion to 2nd quarter, 1997.

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Supporting Documents(Limit 5 lines or less):

DOE Order 5820.2A; 40 CFR 265 Resource Conservation and Recovery Act DOE Order 6430.1A DOE Order 5480.11. DOE Order 5400.3; DOE Order 5400.4; DOE Order 5480.9; DOE Order 5481.1B; DOE-EV-1830; TPA M-43-01-T01; M-43-01-A; M-43-01-B; M-43-01-C

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 were

NARRATIVE Continued

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~~NARRATIVE Continued~~
submitted under separate cover.

LAST UPDATE: 04-13-1993 TIME: 17:16:41

~~DESCRIPTION OF REGULATORY DRIVERS~~

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Environmental Management
 FY96 Field Submission
 Activity Data Sheet

Page: 1
 RL-1120-4 - Date: 6/01/1994 Time: 10:35

Operations Office: RL ID No.: 1120- 4 Revision Date: 4/27/1994
 ADS Title: REPLACEMENT OF THE CROSS SITE TRANSFER SYSTEM (W-058)
 WBS No.: 1.3.7.2.18 Category: WM Appr.:
 Project Title: CROSS-SITE TRANSFER SYST Facility/WAG: TANK FARMS
 Installation: HANFORD CID: RL10930 ZOVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: THOMSON, JD Phone: 509-373-9234
 O.O. Manager: SIDPARA, A Phone: 509-376-0933
 H.Q. Manager: GRIFFITH, AR Phone: 301-903-7120
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 100 TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: Y CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: N NEPA: N
 DOE: Y IAG: N OSHA: N ORD: N ST : Y TRI : Y FED : Y 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	463	696		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	6,500	18,910		D	0	0	0	0
				E	18,406	18,406	18,406	18,406
TOTAL	6,963	19,606		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	18,406	18,406	18,406	18,406

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	1,111
CE	0
GPP	0
LI	17,295
TOTAL	18,406

Environmental Management
 FY96 Field Submission
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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	1,111	1,282	539	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	17,295	0	0	0	0
TOTAL	18,406	1,282	539	0	0

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	1,111	1,282	539	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	17,295	0	0	0	0
TOTAL	18,406	1,282	539	0	0

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: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: HH				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: PRODUCTIVITY CHALLENGE							
APPROP: D							
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D
EW3130010	0	-104		0	0	0	0
35EW31301	0	0		0	0	0	0
39EW31301	0	0		0	0	0	0
39EW31301	0	0		0	0	0	0
TOTAL	0	-104		0	-189	-189	-189

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	0
35EW31301	0
39EW31301	0
39EW31301	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	-189	-118	39	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	-189	-118	39	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	-189	-118	39	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	-189	-118	39	0	0

Environmental Management
 FY96 Field Submission
 Activity Data Sheet

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Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: OH				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: REPLACEMENT OF THE CROSS SITE TR							
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
EW3130010	463	800	E	18,406	18,595	18,595	18,595
35EW31301	0	0	F	0	0	0	0
39EW31301	0	0	G	0	0	0	0
39EW31301	6,500	18,910	H	0	0	0	0
			I	0	0	0	0
TOTAL	6,963	19,710	TOTAL	18,406	18,595	18,595	18,595

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	1,111
35EW31301	0
39EW31301	0
39EW31301	17,295
TOTAL	18,406

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	1,300	1,400	500	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	17,295	0	0	0	0
TOTAL	18,595	1,400	500	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	1,300	1,400	500	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	17,295	0	0	0	0
TOTAL	18,595	1,400	500	0	0

Environmental Management
FY96 Field Submission
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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1120-04-0020 TPA MS NO.: _____
Title: TRANSMIT NOTICE OF CONSTRUCTION
Planning Date Target Date Decrement Date Level: Keyword:
9/30/1994 9/30/1994 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
TRANSMIT NOTICE OF CONSTRUCTION TO RL

Milestone No.: _____ Milestone Seq: 1120-04-0010 TPA MS NO.: M4307T01
Title: COMPLETE DEFINITIVE DESIGN (W-058)
Planning Date Target Date Decrement Date Level: HQ Keyword: O
8/31/1995 8/31/1995 PTS: N SMS: N
Driver Name: CAA Driver Reference: WAC 173-303, SEC 640,
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
COMPLETE DEFINITIVE DESIGN (W-058)

MILESTONES Continued

Environmental Management
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MILESTONES Continued

Milestone No.: Milestone Seq: 1120-04-0005 TPA MS NO.: M-43-07A
Title: START CONSTRUCTION (W-058)
Planning Date Target Date Decrement Date Level: Keyword:
11/30/1995 11/30/1995 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
START CONSTRUCTION OF W-058

Milestone No.: Milestone Seq: 1120-04-0015 TPA MS NO.: M4307B
Title: COMPLETE CONSTRUCTION (W-058)
Planning Date Target Date Decrement Date Level: FO Keyword: O
8/31/1997 8/31/1997 PTS: N SMS: N
Driver Name: TRI Driver Reference: WAC 173-303, SEC 640
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
COMPLETE CONSTRUCTION (W-058)

Milestone No.: Milestone Seq: 1120-04-0025 TPA MS NO.:
Title: SYSTEM OPERATIONS (W-058)
Planning Date Target Date Decrement Date Level: Keyword:
2/28/1998 2/28/1998 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
SYSTEM OPERATIONS (W-058)

NARRATIVE

LAST UPDATE: 04-22-1994 TIME: 19:51:01

Technical Scope Summary(Limit 15 line or less):

Provide budget support for procurement and definitive design of a new, double encased pipeline, and all associated equipment, connecting the 200 West area to the 200 East area.

This project was initiated in FY 1992 and will be completed in FY 1998. specific activities and schedules are contained in the Title I design

NARRATIVE Continued

Environmental Management
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~~NARRATIVE Continued~~

report and the project plan.

Technical Scope Detail(Limit 104 lines or less):

This pipeline will allow transport of radioactive waste to support retrieval activities, final disposal activities, and continued operation of 200 West facilities. The proposed pipeline is approximately 6.5 miles long, and will have a minimum of 2 pumping stations.

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

The functional design criteria, conceptual design report, preliminary safety evaluation, action description memorandum, Project Plant, Project Management Plant, quality assurance plan, and preliminary safety analysis report, Title I design report are all complete.

Provide support for procurement, definitive design, and the initiation of construction and Title III design/inspection.

Complete NEPA documentation. Initiate Title II design and procurement.

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

This design/inspection support includes review of drawings and overall program integration. Initiate construction activities with onsite construction forces. Bid, Award, and initiate fixed price construction contract with offsite contractor.

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. The delta change from the President's budget is \$2,230 K, resulting in a new total of \$21,800 K. These adjustments may require a FY 1995 budget amendment.

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

Provide support for completion of and continuation of construction and Title III procurement.

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

Accomplish the required project activities associated with construction. This includes a continuance of those activities described in section 05 of this ADS. Construction completion is scheduled for FY 97 and commencement of operations is scheduled for FY 1998.

~~NARRATIVE Continued~~

Environmental Management
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~~NARRATIVE Continued~~

Impacts/Assumptions(Limit 42 lines or less):

Continued need for transfer lines between 200 West and 200 East to support D&D activities.

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

The ADS also reflects a rate change for G&A/CSP.

Supporting Documents(Limit 5 lines or less):

DOE Notice 5400.1, General Environmental Protection Policy Program, DOE Order 5480.1B, Environment, Safety and Health Program for DOE Operations, DOE Order 5820.2A, Radioactive Waste Management, DOE Order 6430.1A, DOE Order 4700.1, RCRA, NEPA, WAC 173-303, TPA M-43-07, M-43-07-T01, M-43-07B, M-43-07C

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 were submitted under separate cover.

LAST UPDATE: 05-08-1993 TIME: 10:32:50

~~DESCRIPTION OF REGULATORY DRIVERS~~

Environmental Management
 FY96 Field Submission
 Activity Data Sheet

Page: 1
 RL-1120-5 - Date: 6/01/1994 Time: 10:36

Operations Office: RL ID No.: 1120- 5 Revision Date: 4/19/1994
 ADS Title: NEW DST TANK FARM (95 LI) (W-260)
 WBS No.: 1.3.7.2.23 Category: Appr.:
 Project Title: NEW DST TANK FARM Facility/WAG:
 Installation: CID: ZOVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: Phone:
 O.O. Manager: Phone:
 H.Q. Manager: Phone:
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

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

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: 3004U: TSCA: CERCLA: NEPA:
 DOE: IAG: OSHA: ORD: ST : TRI : FED : 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
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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
TOTAL	0	0	0	0	0

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
TOTAL	0	0	0	0	0

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
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Budget Detail Profile

DESC:					FY96 DRIVER CATEGORY				
SUB-DESC:	PROGRAM:	SUBACT:	DECREMENT	TARGET	PLAN	IMM RISK			
TITLE:									
APPROP:					0	0	0	0	0
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
	0	0		E	0	0	0	0	0
	0	0		F	0	0	0	0	0
	0	0		G	0	0	0	0	0
	0	0		H	0	0	0	0	0
				I	0	0	0	0	0
TOTAL	0	0		TOTAL	0	0	0	0	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
	0
	0
	0
	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

Environmental Management
FY96 Field Submission
Activity Data Sheet

RL-1120-5 - Date: 6/01/1994 Page: 4
Time: 10:37

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
Title: _____
Transferred in its entirety:
Explanation of 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: 04-19-1994 TIME: 09:08:44

Technical Scope Summary(Limit 15 line or less):

Technical Scope Detail(Limit 104 lines or less):

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

NARRATIVE Continued

Environmental Management
FY96 Field Submission
Activity Data Sheet

RL-1120-5 -

Date: 6/01/1994 Page: 5
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~~NARRATIVE Continued~~

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

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

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

Impacts/Assumptions(Limit 42 lines or less):

Supporting Documents(Limit 5 lines or less):

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 were submitted under separate cover.

LAST UPDATE: 05-08-1993 TIME: 10:36:14

~~DESCRIPTION OF REGULATORY DRIVERS~~

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Environmental Management
 FY96 Field Submission
 Activity Data Sheet

Page: 1
 RL-1120-6 - Date: 6/01/1994 Time: 10:37

Operations Office: RL ID No.: 1120- 6 Revision Date: 4/27/1994
 ADS Title: W-314 TANK FARM UPGRADES RESTORATION/SAFE OPERATIONS
 WBS No.: 1.3.7.2.33 Category: WM Appr.:
 Project Title: TANK FARM UPGRADES RESTO Facility/WAG:
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: THOMSON, JD Phone: 509-373-9234
 O.O. Manager: SIDPARA, A Phone: 509-376-0933
 H.Q. Manager: GRIFFITH, AR Phone: 301-903-7120
 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: N NEPA: Y
 DOE: Y IAG: N OSHA: Y ORD: Y ST : Y TRI : Y FED : Y FFCA: N
 OTHER 1: N OTHER 2: N OTHER 3: N

Summary Funding Profile

B&R	FY94 APPR	FY95 PRES	FY95 APPR		FY96 DRIVER CATEGORY			IMM RISK
					DECREMENT	TARGET	PLAN	
OE	0	13,917		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	27,787	27,787	27,787	27,787
TOTAL	0	13,917		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	27,787	27,787	27,787	27,787

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	7,776
CE	0
GPP	0
LI	20,011
TOTAL	27,787

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	7,776	11,262	17,570	22,195	15,457
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	20,011	54,614	131,222	220,363	205,810
TOTAL	27,787	65,876	148,792	242,558	221,267

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	7,776	11,262	17,570	22,195	15,457
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	20,011	54,614	131,222	220,363	205,810
TOTAL	27,787	65,876	148,792	242,558	221,267

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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 RL-1120-6 - Date: 6/01/1994 Time: 10:37

Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP						FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: FF						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: PRODUCTIVITY CHALLENGE									
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
EW3130010	0	-2,083			E	0	-1,324	-1,324	-1,324
35EW31301	0	0			F	0	0	0	0
39EW31301	0	0			G	0	0	0	0
39EW31301	0	0			H	0	0	0	0
					I	0	0	0	0
TOTAL	0	-2,083			TOTAL	0	-1,324	-1,324	-1,324

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	0
35EW31301	0
39EW31301	0
39EW31301	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	-1,324	-1,038	1,270	-2,205	-2,943
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	-1,324	-1,038	1,270	-2,205	-2,943

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	-1,324	-1,038	1,270	-2,205	-2,943
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	-1,324	-1,038	1,270	-2,205	-2,943

Environmental Management
 FY96 Field Submission
 Activity Data Sheet

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Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER CATEGORY				
SUB-DESC: PROGRAM: EM SUBACT: OF				DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: TF UPGRADES RESTORATION AND SAFE								
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
EW3130010	0	16,000		E	27,787	29,111	29,111	29,111
35EW31301	0	0		F	0	0	0	0
39EW31301	0	0		G	0	0	0	0
39EW31301	0	0		H	0	0	0	0
				I	0	0	0	0
TOTAL	0	16,000		TOTAL	27,787	29,111	29,111	29,111

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	7,776
35EW31301	0
39EW31301	0
39EW31301	20,011
TOTAL	27,787

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	9,100	12,300	16,300	24,400	18,400
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	20,011	54,614	131,222	220,363	205,810
TOTAL	29,111	66,914	147,522	244,763	224,210

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	9,100	12,300	16,300	24,400	18,400
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	20,011	54,614	131,222	220,363	205,810
TOTAL	29,111	66,914	147,522	244,763	224,210

Environmental Management
FY96 Field Submission
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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1120-06-0050 TPA MS NO.: M-430404
Title: W-314A CDR
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:
COMPLETE CONCEPTUAL DESIGN REPORT FOR W-314A

Milestone No.: _____ Milestone Seq: 1120-06-0100 TPA MS NO.: M-430405
Title: W-314A PROJECT DESIGN CRITERIA
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:
COMPLETE PROJECT DESIGN CRITERIA

MILESTONES Continued

Environmental Management
FY96 Field Submission
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~~MILESTONES Continued~~

Milestone No.: Milestone Seq: 1120-06-0135 TPA MS NO.: M-430401
Title: W-314A ENGINEERING STUDY
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:
COMPLETE ENGINEERING STUDY FOR W-314A

Milestone No.: Milestone Seq: 1120-06-0140 TPA MS NO.: M-430402
Title: W-314A FUNCTIONS AND REQUIREMENTS
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:
COMPLETE FUNCTIONS AND REQUIREMENTS FOR W-314A

Milestone No.: Milestone Seq: 1120-06-0145 TPA MS NO.: M-430403
Title: W-314A CDC
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:
COMPLETE CONCEPTUAL DESIGN STATEMENT OF WORK AND CONCEPTUAL DESIGN CRITERIA

Milestone No.: Milestone Seq: 1120-06-0010 TPA MS NO.:
Title: W-314A, COMPLETE PROJECT SAFETY EVALUATION
Planning Date Target Date Decrement Date Level: Keyword:
3/31/1996 3/31/1996 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE APPROVAL OF PROJECT SAFETY EVALUATION FOR W-314A, TANK FARM INTEGRATED
UPGRADES

~~MILESTONES Continued~~

Environmental Management
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MILESTONES Continued

Milestone No.: Milestone Seq: 1120-06-0025 TPA MS NO.:
Title: W-314A, QUALITY ASSURANCE PROJECT PLAN
Planning Date Target Date Decrement Date Level: Keyword:
3/31/1996 3/31/1996 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE QUALITY ASSURANCE PROJECT PLAN FOR W-314A, TANK FARM INTEGRATED UPGRADES

Milestone No.: Milestone Seq: 1120-06-0020 TPA MS NO.:
Title: W-314A, ADVANCED CONCEPTUAL DESIGN REPORT
Planning Date Target Date Decrement Date Level: Keyword:
9/30/1996 9/30/1996 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE PRELIMINARY ADVANCED CONCEPTUAL DESIGN REPORT (ACDP) FOR W-314A, TANK FARM INTEGRATED UPGRADES

Milestone No.: Milestone Seq: 1120-06-0005 TPA MS NO.:
Title: W-314A, COMPLETE 60% REVIEW OF CDR
Planning Date Target Date Decrement Date Level: Keyword:
11/30/1996 11/30/1996 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
CONDUCT REVIEW OF THE CONCEPTUAL DESIGN REPORT (CDR) AT 60% COMPLETION FOR W-314A, TANK FARM INTEGRATED UPGRADES

Milestone No.: Milestone Seq: 1120-06-0065 TPA MS NO.: M-430301
Title: W-314B, SST VENTILATION UPGRADES NEEDS ANALYSIS
Planning Date Target Date Decrement Date Level: Keyword:
3/31/1997 3/31/1997 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE THE SINGLE SHELL TANK VENTILATION UPGRADES NEEDS ANALYSIS FOR W-314B

MILESTONES Continued

Environmental Management
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MILESTONES Continued

Milestone No.: Milestone Seq: 1120-06-0035 TPA MS NO.: M-430201
Title: W-314B, ENGINEERING STUDY
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2002 6/30/2002 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE AND ISSUE PROJECT ENGINEERING STUDY AND SCOPE STATEMENT FOR W-314B, DST
VENTILATION UPGRADE

Milestone No.: Milestone Seq: 1120-06-0040 TPA MS NO.: M-430202
Title: W-314B FUNCTIONS & REQUIREMENTS
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2002 6/30/2002 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE AND ISSUE FUNCTIONS AND REQUIREMENTS FOR W-314B

Milestone No.: Milestone Seq: 1120-06-0045 TPA MS NO.: M430203
Title: W-314B, CDC
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2002 6/30/2002 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE CONCEPTUAL DESIGN STATEMENT OF WORK AND CONCEPTUAL DESIGN CRITERIA FOR W-
314B

Milestone No.: Milestone Seq: 1120-06-0055 TPA MS NO.: M-430204
Title: W-314B CDR
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2002 6/30/2002 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE CONCEPTUAL DESIGN REPORT FOR W-314B

MILESTONES Continued

Environmental Management
FY96 Field Submission
Activity Data Sheet

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MILESTONES Continued

Milestone No.: Milestone Seq: 1120-06-0060 TPA MS NO.:
Title: W-314B, PROJECT DESIGN CRITERIA
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2002 6/30/2002 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE PROJECT DESIGN CRITERIA FOR W-314B

Milestone No.: Milestone Seq: 1120-06-0070 TPA MS NO.: M-430501
Title: W-314C ENGINEERING STUDY
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2004 6/30/2004 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE ENGINEERING STUDY FOR W-314C

Milestone No.: Milestone Seq: 1120-06-0075 TPA MS NO.: M-430502
Title: W-314C, F&R
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2004 6/30/2004 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE FUNCTIONS AND REQUIREMENTS FOR W-314C

Milestone No.: Milestone Seq: 1120-06-0080 TPA MS NO.: M-430503
Title: W-314C CDC
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2004 6/30/2004 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE CONCEPTUAL DESIGN STATEMENT OF WORK AND CONCEPTUAL DESIGN CRITERIA

MILESTONES Continued

Environmental Management
FY96 Field Submission
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MILESTONES Continued

Milestone No.: Milestone Seq: 1120-06-0085 TPA MS NO.: M-430504
Title: W-314C CDR
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2004 6/30/2004 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE CONCEPTUAL DESIGN REPORT FOR W-314C

Milestone No.: Milestone Seq: 1120-06-0090 TPA MS NO.: M-430505
Title: W-314C PROJECT DESIGN CRITERIA
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2004 6/30/2004 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE PROJECT DESIGN CRITERIA

Milestone No.: Milestone Seq: 1120-06-0095 TPA MS NO.: M-430601
Title: W-314D, TF ELECTRICAL UPGRADE ENGINEERING STUDY
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2005 6/30/2005 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE ENGINEERING STUDY FOR W314D

Milestone No.: Milestone Seq: 1120-06-0115 TPA MS NO.: M-430602
Title: W-314D FUNCTIONS AND REQUIREMENTS
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2005 6/30/2005 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE FUNCTIONS AND REQUIREMENTS FOR W-314D

MILESTONES Continued

Environmental Management
FY96 Field Submission
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MILESTONES Continued

Milestone No.: Milestone Seq: 1120-06-0120 TPA MS NO.: M-430603
Title: W-314D CDC
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2005 6/30/2005 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE CONCEPTUAL DESIGN STATEMENT OF WORK AND CONCEPTUAL DESIGN CRITERIA FOR W-314D

Milestone No.: Milestone Seq: 1120-06-0125 TPA MS NO.: M-430604
Title: W-314D CDR
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2005 6/30/2005 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE CONCEPTUAL DESIGN REPORT FOR W-314D

Milestone No.: Milestone Seq: 1120-06-0130 TPA MS NO.: M-430605
Title: W-314D PROJECT DESIGN CRITERIA
Planning Date Target Date Decrement Date Level: Keyword:
6/30/2005 6/30/2005 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
COMPLETE PROJECT DESIGN CRITERIA FOR W-314D

NARRATIVE

LAST UPDATE: 04-27-1994 TIME: 13:14:26

Technical Scope Summary(Limit 15 line or less):

This activity provides for the integrated planning, project development, and management of the Tank Farm Restoration and Safe Operations MSA (Project W-314), and for the design and construction of work associated with the W-314 upgrades.

NARRATIVE Continued

Environmental Management
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~~NARRATIVE Continued~~

Technical Scope Detail(Limit 104 lines or less):

This MSA includes the following subprojects, aimed at restoring safe and reliable operating system to Hanford's 177 single-shell tanks (SSTs) and double-shell tanks (DSTs):

- o W-314A, Tank Farm Integrated Upgrades
- o W-314E, Central Maintenance Facility
- o W-314F, SST Ventilation Upgrades
- o W-314G, Tank Farm Lighting Upgrades

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

Detailed planning has been performed for the proposed FY 1996 Line Item subproject (W-314A). Preliminary workplans and schedules have been developed for the remaining subprojects. Engineering Studies have been completed for the ventilation, instrumentation, electrical, and transfer systems upgrades. Functions and Requirements documents will be completed and the CDR will be initiated. The project will be presented for design only validation

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

Continue to provide overall MSA planning, management and reporting in accordance with DOE Order 4700.1 and other applicable requirements. Management activities include development of work plans, schedules, cost accounts, and documentation required to support DOE's key decision process. Coordinate and support activities required to validate Project W-314A, Tank Farm Integrated Instrumentation Upgrades.

o W-314A, Tank Farm Integrated Upgrades. Complete CDR. Develop NEPA strategy. Prepare supporting safety documentation. Develop project plan, initiate ACDR work and QAPP.

Develop long range planning for:

- o W-314E, Central Maintenance Facility
- o W-314F, SST Ventilation Upgrades
- o W-314G, Tank Farm Lighting Upgrades

Based on an assessment of required workscope and project outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's Fy 1995 Congressional Budget request. The delta change from the President's budget is \$9,487 K, resulting in a new total of \$13,917 K. These adjustments my-required a FY 1995 budget amendment.

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

Continue to provide overall MSA planning, management, and reporting in accordance with DOE Order 4700.1 and other applicable requirements. Management activities include development of work plans, schedules, cost

~~NARRATIVE Continued~~

Environmental Management
FY96 Field Submission
Activity Data Sheet

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Time: 10:38

NARRATIVE Continued

accounts, and documentation required to support DOE's key decision process. Coordinate and support activities associated with DOE validations for the proposed FY 1996 subproject.

Initiate definitive design activities for W-314A.

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

Continue to provide overall MSA planning, management, and reporting in accordance with DOE Order 4700.1 and other applicable requirements. Management activities include development of work plans, schedules, cost accounts, and documentation required to support DOE's key decision process.

Provide definitive design, procurement, construction, and project management activities on all of the MSA subprojects.

Impacts/Assumptions(Limit 42 lines or less):

Expense funding levels required to support project definition, conceptual design, and associated work for the listed subprojects will be provided as planned to support DOE validation of these subprojects as a FY 1996 capital project.

Capital funding levels required to perform definitive design, procurement, construction, and project management activities for the listed subprojects will be provided as planned.

Expense funding levels required to support the capital project activities (detailed design, procurement, construction, etc.) will be provided as planned to support these activities.

Target funding levels do not support expeditious completion of the Tank Farm Restoration and Safe Operations upgrades. These funding levels will cause a 3-5 year slip in completing the upgrades, with a resultant continuation of high maintenance costs and potential safety hazards pending completion of the tank farm upgrades.

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance. The ADS also reflects a rate change in application of G&A/CSP.

Supporting Documents(Limit 5 lines or less):

DOE Orders 5480-21, 5480.22, 5480.23, 5480.19, 40 CFR 265, 50 CFR 61, WAC 173-303, WAC 173-480, RCRA, NEPA, TPA M-43-04, M-43-04-T05, M-43-04-T07, M-43-04-T08, M-43-04-T10, M-43-04-T11, M-43-04-T12, TPA M-43-02, M-43-02-04, M-43-02-11, TPA M-43-03, TPA M-43-05-T01, 02, 03, 05, 08, 09, 01, 11

NARRATIVE Continued

Environmental Management
FY96 Field Submission
Activity Data Sheet

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Date: 6/01/1994

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NARRATIVE Continued

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 were submitted under separate cover.

LAST UPDATE: 04-27-1993 TIME: 09:11:20

DESCRIPTION OF REGULATORY DRIVERS

Environmental Management
 FY96 Field Submission
 Activity Data Sheet

Page: 1
 RL-1120-7 - Date: 6/01/1994 Time: 10:39

Operations Office: RL ID No.: 1120- 7 Revision Date: 4/27/1994
 ADS Title: W-028 AGING WASTE TRANSFER LINES
 WBS No.: 1.3.7.2.4 Category: WM Appr.:
 Project Title: TANK FARM UPGRADES Facility/WAG:
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: THOMSON, JD Phone: 509-373-9234
 O.O. Manager: SIDPARA, A Phone: 509-376-0933
 H.Q. Manager: GRIFFITH, AR Phone: 301-903-7120
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 100 TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: Y CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: N NEPA: N
 DOE: Y IAG: N OSHA: N ORD: N ST : Y : TRI : N FED : Y 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	338	696		A	0	0	0	0
CE	0	102		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	5,000	3,819		D	0	0	0	0
				E	513	512	512	512
TOTAL	5,338	4,617		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	513	512	512	512

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	513
CE	0
GPP	0
LI	0
TOTAL	513

Environmental Management
 FY96 Field Submission
 Activity Data Sheet

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Page: 2
 Date: 6/01/1994 Time: 10:39

TARGET LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	512	459	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	512	459	0	0	0

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	512	459	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	512	459	0	0	0

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-1120-7 - Date: 6/01/1994 Time: 10:39

Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP						FY96 DRIVER		CATEGORY	
SUB-DESC: PROGRAM: EM SUBACT: MM						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: PRODUCTIVITY CHALLENGE									
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
EW3130010	0	-104			E	0	-88	-88	-88
35EW31301	0	2			F	0	0	0	0
39EW31301	0	0			G	0	0	0	0
39EW31301	0	0			H	0	0	0	0
					I	0	0	0	0
TOTAL	0	-102			TOTAL	0	-88	-88	-88

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	0
35EW31301	0
39EW31301	0
39EW31301	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	-88	-42	0	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	-88	-42	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	-88	-42	0	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	-88	-42	0	0	0

Environmental Management
 FY96 Field Submission
 Activity Data Sheet

Page: 4
 RL-1120-7 - Date: 6/01/1994 Time: 10:39

Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: OM				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: AGING WASTE TRANSFER LINE PROJEC							
APPROP: D							
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D
EW3130010	338	800		0	0	0	0
35EW31301	0	100		0	0	0	0
39EW31301	0	0		0	0	0	0
39EW31301	5,000	3,819		0	0	0	0
TOTAL	5,338	4,719		513	600	600	600

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	513
35EW31301	0
39EW31301	0
39EW31301	0
TOTAL	513

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	600	501	0	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	600	501	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	600	501	0	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	600	501	0	0	0

Environmental Management
FY96 Field Submission
Activity Data Sheet

RL-1120-7 - Date: 6/01/1994 Page: 5
Time: 10:40

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 1210 1
Title: W-028, Aging Waste Transfer Lines
Transferred in its entirety: Y
Explanation of Change:

MILESTONES

Milestone No.: _____ Milestone Seq: 1120-07-0025 TPA MS NO.: _____
Title: W-028, TRANSMIT NOTICE OF CONSTRUCTION
Planning Date Target Date Decrement Date Level: Keyword:
9/30/1994 9/30/1994 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
TRANSMIT NOTICE OF CONSTRUCTION TO RL FOR W-030

Milestone No.: _____ Milestone Seq: 1120-07-0010 TPA MS NO.: _____
Title: INITIATE W-028 CONSTRUCTION
Planning Date Target Date Decrement Date Level: Keyword:
5/01/1995 5/01/1995 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

MILESTONES Continued

Environmental Management
FY96 Field Submission
Activity Data Sheet

RL-1120-7 - Date: 6/01/1994 Page: 6
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MILESTONES Continued

Milestone No.: Milestone Seq: 1120-07-0005 TPA MS NO.:
Title: COMPLETE W-028 DEFINITIVE DESIGN
Planning Date Target Date Decrement Date Level: FO Keyword:
6/30/1995 6/30/1995 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1120-07-0015 TPA MS NO.:
Title: COMPLETE W-028 CONSTRUCTION
Planning Date Target Date Decrement Date Level: Keyword:
12/31/1996 12/31/1996 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

Milestone No.: Milestone Seq: 1120-07-0020 TPA MS NO.:
Title: COMPLETE W-028 PROJECT CLOSEOUT ACTIVITIES
Planning Date Target Date Decrement Date Level: Keyword:
6/30/1997 6/30/1997 PTS: SMS:
Driver Name: Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:

NARRATIVE

LAST UPDATE: 04-27-1994 TIME: 13:17:36

Technical Scope Summary(Limit 15 line or less):

Project 90-D-172, W-028, Aging Waste Transfer Line, will design and construct new waste transfer lines linking the 241-A Tank Farm system with planned treatment facilities, to provide feed for vitrification, B Plant to support cleanout of contaminated B Plant equipment and facilities, and the Initial Pretreatment Module. This project will replace some of Hanford's single containment waste lines with state-of-the-art pipe-in-pipe waste

NARRATIVE Continued

Environmental Management
FY96 Field Submission
Activity Data Sheet

RL-1120-7 -

Date: 6/01/1994 Page: 7
Time: 10:40

~~NARRATIVE Continued~~

lines for pretreatment and vitrification missions. These lines are needed to avoid potential health, safety, and environmental impacts during the transfer of tank wastes.

Technical Scope Detail(Limit 104 lines or less):

Provide a waste transfer system from the aging-waste facilities to the Multi-Function Waste Tank Facility with compliance cross site transfer lines, diversion boxes and leak detection system.

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

All project-related documentation for W-028, with the exception of Definitive Design, has been completed. Documentation includes the Engineering Study, Function Design Criteria, Conceptual Design Report; Definitive Design was initiated in FY 1990. Design criteria will be modified to be consistent with the scope changes instituted in support of the TWRS. Definitive design will be re-started in FY 1994. Procurement activities will be initiated during FY 1994. The requirements of this project have been re-evaluated because of the decision not to use B-Plant for pretreatment of tank wastes, and due to the Secretary of Energy's decision to create the Tank Waste Remediation System (TWRS). The routing and design of this line is now based on the revised needs of the TWRS and other planned transfer line upgrades being considered, and has been integrated with project W-058, Cross Site Transfer System. The delay in completion of this project will meet the anticipated need date and assure construction is consistent with revised transfer line needs.

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

Continue definitive design and procurement. Initiate construction and inspection.

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. This delta change from the President's budget is \$101 K, resulting in a new total of \$4,595 K. These adjustments may require a FY 1995 budget amendment.

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

Continue construction and procurement activities.

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

Complete all project activities.

Impacts/Assumptions(Limit 42 lines or less):

~~NARRATIVE Continued~~

Environmental Management
FY96 Field Submission
Activity Data Sheet

RL-1120-7 - Date: 6/01/1994 Page: 8
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NARRATIVE Continued

New transfer lines to B Plant are required to support D&D activities.

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance. The ADS also reflects a rate change in the application of G&A/CSP.

Supporting Documents(Limit 5 lines or less):

DOE Notice 5400.1, General Environmental Protection Policy Program DOE Order 5480.1B, Environment, Safety and Health Program for DOE Operations DOE Order 5820.2A, Radioactive Waste Management; DOE Order 6430.1A, General Design Criteria; DOE Order 4700.1, Project Management System

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 were submitted under separate cover.

LAST UPDATE: 04-22-1993 TIME: 15:13:06

DESCRIPTION OF REGULATORY DRIVERS

Environmental Management
 FY96 Field Submission
 Activity Data Sheet

RL-1120-8 -

Date: 6/01/1994

Page: 1
 Time: 10:40

Operations Office: RL ID No.: 1120- 8 Revision Date: 4/19/1994
 ADS Title: L-091 200E OFFICE FACILITY
 WBS No.: 1.3.7.2.4 Category: WM Appr.:
 Project Title: TANK FARM UPGRADES Facility/WAG:
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: Thomson, JD Phone: 509-373-9234
 O.O. Manager: Covey, JE Phone: 509-376-1457
 H.Q. Manager: Griffith, AR Phone: 301-903-7120
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

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

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: 3004U: TSCA: CERCLA: NEPA:
 DOE: IAG: OSHA: ORD: ST : TRI : FED : 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	134	0		A	0	0	0	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	1,200	0		D	0	0	0	0
				E	0	0	0	0
TOTAL	1,334	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-1120-8 -

Page: 2
 Date: 6/01/1994 Time: 10:40

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
TOTAL	0	0	0	0	0

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
TOTAL	0	0	0	0	0

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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Time: 10:41

Al06 Cross References

Al06 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 1260 4
Title: L-091 200E Office Facility
Transferred in its entirety: Y
Explanation of Change:

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: 04-19-1994 TIME: 09:24:14

Technical Scope Summary(Limit 15 line or less):

This Activity Data Sheet (ADS) supports construction of a new general purpose office facility to support Tank Waste Remediation System (TWRS) operations at the Hanford Site.

Technical Scope Detail(Limit 104 lines or less):

NARRATIVE Continued

Environmental Management
FY96 Field Submission
Activity Data Sheet

RL-1120-8 -

Date: 6/01/1994

Page: 5
Time: 10:41

~~NARRATIVE Continued~~

The new 200 East Office Facility project (Project L-091) includes construction of a 70,000 square-foot office building, as well as associated utilities, parking facilities, and landscaping. The 200 East Office Facility will be located within Hanford's 200 Area plateau. This project is required to help meet the projected growth of personnel in the 200 Areas to support environmental restoration and waste management activities and to reduce dependence upon non-government owned leased facilities.

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

The Engineering Study was completed in FY 1990. The Functional Design Criteria (FDC) and Conceptual Design Report (CDR) were both completed in FY 1992. The project was validated as a FY 1994 Line Item construction project in FY 1992. Initiated definitive design January 1994.

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

Project L-091 is not funded in outyears.

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

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

Impacts/Assumptions(Limit 42 lines or less):

Supporting Documents(Limit 5 lines or less):

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 were submitted under separate cover.

LAST UPDATE: 05-08-1993 TIME: 08:43:31

Environmental Management
FY96 Field Submission
Activity Data Sheet

RL-1120-8 -

Date: 6/01/1994

Page: 6
Time: 10:41

DESCRIPTION OF REGULATORY DRIVERS

Environmental Management
 • FY96 Field Submission
 Activity Data Sheet

Page: 1
 RL-1130-0 - Date: 6/01/1994 Time: 10:41

Operations Office: RL ID No.: 1130- 0 Revision Date: 5/11/1992
 ADS Title: WASTE CHARACTERIZATION
 WBS No.: 1.3.7.2.5 Category: WM Appr.:
 Project Title: WASTE CHARACTERIZATION Facility/WAG: TANK FARMS
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: DEFIGH-PRICE, C Phone: 509-373-2038
 O.O. Manager: CLARK, J. M. Phone: 509-376-2246
 H.Q. Manager: LANG, K Phone: 301-903-7453
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 47 TRU: 42 TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: Y CWA: N SDWA: N RCRA: Y 3004U: N TSCA: N CERCLA: N 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	60,489	72,793		A	85,768	85,768	85,768	85,768
CE	10,800	5,251		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	71,289	78,044		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	85,768	85,768	85,768	85,768

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	79,222
CE	6,546
GPP	0
LI	0
TOTAL	85,768

Environmental Management
 FY96 Field Submission
 Activity Data Sheet

Page: 2
 RL-1130-0 - Date: 6/01/1994 Time: 10:41

TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	79,222	65,241	58,497	49,440	33,308
CE	6,546	5,051	4,274	2,477	2,002
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	85,768	70,292	62,771	51,917	35,310

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	79,222	65,241	58,497	49,440	33,308
CE	6,546	5,051	4,274	2,477	2,002
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	85,768	70,292	62,771	51,917	35,310

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

RL-1130-0 -

Date: 6/01/1994

Page: 3
 Time: 10:41

Budget Detail Profile

DESC: WASTE CHARACTERIZATION						FY96 DRIVER CATEGORY				
SUB-DESC: PROGRAM: EM SUBACT: OA						DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: TECHNICAL INTEGRATION & PLANNING										
APPROP: D										
					A	99,264	99,264	99,264	99,264	
					B	0	0	0	0	
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0	
					D	0	0	0	0	
EW3120074	65,284	83,689			E	0	0	0	0	
35EW31207	10,800	5,162			F	0	0	0	0	
39EW31207	0	0			G	0	0	0	0	
39EW31207	0	0			H	0	0	0	0	
					I	0	0	0	0	
TOTAL	76,084	88,851			TOTAL	99,264	99,264	99,264	99,264	

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3120074	92,714
35EW31207	6,550
39EW31207	0
39EW31207	0
TOTAL	99,264

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120074	92,714	71,257	54,267	54,354	39,651
35EW31207	6,550	4,717	3,390	2,328	2,038
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	99,264	75,974	57,657	56,682	41,689

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120074	92,714	71,257	54,267	54,354	39,651
35EW31207	6,550	4,717	3,390	2,328	2,038
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	99,264	75,974	57,657	56,682	41,689

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Budget Detail Profile

DESC: WASTE CHARACTERIZATION						FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: OB						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: TECHNOLOGY DEVELOP & APPLIED ENG									
APPROP: D									
					A	-13,496	-13,496	-13,496	-13,496
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW3120074	-4,795	-10,896			E	0	0	0	0
35EW31207	0	89			F	0	0	0	0
39EW31207	0	0			G	0	0	0	0
39EW31207	0	0			H	0	0	0	0
					I	0	0	0	0
TOTAL	-4,795	-10,807			TOTAL	-13,496	-13,496	-13,496	-13,496

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3120074	-13,492
35EW31207	-4
39EW31207	0
39EW31207	0
TOTAL	-13,496

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120074	-13,492	-6,016	4,230	-4,914	-6,343
35EW31207	-4	334	884	149	-36
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	-13,496	-5,682	5,114	-4,765	-6,379

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120074	-13,492	-6,016	4,230	-4,914	-6,343
35EW31207	-4	334	884	149	-36
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	-13,496	-5,682	5,114	-4,765	-6,379

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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 1130 0
Title: WASTE CHARACTERIZATION
Transferred in its entirety:
Explanation of Change:
NO CHANGE

MILESTONES

Milestone No.: _____ Milestone Seq: 1130-00-0175 TPA MS NO.: M-44-03
Title: SUBMIT 3 TANK CHARACT REPORTS FOR INITIAL EVALUATION AND APPROVAL
Planning Date Target Date Decrement Date Level: FO Keyword: S
10/31/1993 10/31/1993 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
GENERATE AND ISSUE 3 TANK CHARACTERIZATION REPORTS (TCR). THESE TCRS WILL INTEGRATE
HISTORICAL KNOWLEDGE CONCERNING DSTS AND SSTS WITH ANALYTICAL AND STATISTICAL DATA
ANALYSIS FROM THE CHARACTERIZATION EFFORT.

Milestone No.: _____ Milestone Seq: 1130-00-0060 TPA MS NO.: M-44-07
Title: COMPLETE ALL FY92/93 CORE SAMPLE ANAL & COMP VALID OF RESULT DATA
Planning Date Target Date Decrement Date Level: FO Keyword: S
3/31/1994 11/18/1993 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
TRANSMITTAL FROM WHC TO US ENVIRONMENTAL PROTECTION AGENCY (EPA), STATE OF
WASHINGTON DEPARTMENT OF ECOLOGY (ECOLOGY) AND US DEPARTMENT OF ENERGY RICHLAND
OPERATIONS OFFICE (RL) VALIDATED DATA FROM ANALYSIS OF SST CORE SAMPLES OBTAINED IN

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Milestone No.: Milestone Seq: 1130-00-0135 TPA MS NO.: M-44-04
Title: INPUT CHARACTERIZATION INFORMATION FROM THREE HLW TANKS IN TCD
Planning Date Target Date Decrement Date Level: FO Keyword: S
1/31/1994 1/28/1994 PTS: Y SMS: Y

Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N

Description:
COMPLETE INPUT OF CHARACTERIZATION INFORMATION FOR THREE HIGH LEVEL WASTE TANKS INTO ELECTRONIC DATABASE(S).

Milestone No.: Milestone Seq: 1130-00-0170 TPA MS NO.:
Title: ISSUE IN-SITU CORE BIT INSTRUMENTATION PROGRAM PLAN
Planning Date Target Date Decrement Date Level: FO Keyword: S
2/18/1994 2/18/1994 PTS: N SMS: Y

Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N

Description:
THIS A JOINT WHC/SNL PROJECT TO PROVIDE A CORE-DRILLING INSTRUMENTATION CAPABILITY TO DIRECTLY MONITOR, DURING OPERATION, THE DRILL-BIT TEMPERATURE.

Milestone No.: Milestone Seq: 1130-00-0165 TPA MS NO.:
Title: LOAD PROJECTED TWRS CHARACTER NEEDS AND ONSITE CAPACITY IN MODEL
Planning Date Target Date Decrement Date Level: FO Keyword: S
2/15/1994 2/28/1994 PTS: N SMS: Y

Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N

Description:
REPORT COMPARING PROJECTED TWRS ANALYTICAL NEEDS TO THE AVAILABLE LABORATORY CAPACITY AT THE WHC-222-S AND PNL-ACL LABORATORIES., THIS REPORT WILL IDENTIFY POSSIBLE PROBLEM AREAS AND SUGGEST ALTERNATIVES.

Milestone No.: Milestone Seq: 1130-00-0005 TPA MS NO.:
Title: SAMPLING/ANALYSIS/TANK CHARACTERIZATION REPORT SCHEDULE
Planning Date Target Date Decrement Date Level: HQ Keyword: S
3/31/1994 3/31/1994 PTS: N SMS: Y

Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N

Description:
A PLAN WHICH INTEGRATES SCHEDULES FOR SAMPLING, WASTE ANALYSIS AND TANK CHARACTERIZATION REPORTS

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Milestone No.: Milestone Seq: 1130-00-0145 TPA MS NO.: M-44-01A
Title: SUBMIT A DRAFT COPY OF THE TWRS TANK WASTE ANALYSIS PLAN (TWAP)
Planning Date Target Date Decrement Date Level: FO Keyword: S
5/31/1994 5/31/1994 PTS: Y SMS: Y

Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N

Description:
PREPARE AND DELIVER TO THE APPROPRIATE REGULATORY AGENCIES THE DRAFT OF THE TANK WASTE ANALYSIS PLAN (TWAP) FOR REVIEW AS REQUIRED. THE TWAP SPECIFIES TANKS TO SAMPLE AND WHAT ANALYSIS ARE REQUIRED BASED ON DATA QUALITY OBJECTIVE (DQO).

Milestone No.: Milestone Seq: 1130-00-0075 TPA MS NO.:
Title: NOMINAL WASTE TYPE COMPOSITION DOCUMENT
Planning Date Target Date Decrement Date Level: FO Keyword: S
8/01/1994 8/01/1994 PTS: N SMS: Y

Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N

Description:
DEVELOP AND ISSUE A REPORT PRESENTING THE NOMINAL WASTE TYPE COMPOSITIONS OF THE VARIOUS HANFORD SITE TANK WASTE TYPES. THESE WASTE TYPES WILL BE ESTABLISHED BASED UPON HISTORICAL PROCESS RECORDS, WASTE STREAM SAMPLES, AND CHEMICAL MODELING

Milestone No.: Milestone Seq: 1130-00-0150 TPA MS NO.: M-44-02A
Title: SUBMIT ANNUAL UPDATE OF TANK WASTE ANALYSIS PLAN TO EPA & ECOLOGY
Planning Date Target Date Decrement Date Level: FO Keyword: S
8/31/1994 8/31/1994 PTS: Y SMS: Y

Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N

Description:
PREPARE AND DELIVER TO THE APPROPRIATE REGULATORY AGENCIES THE ANNUAL UPDATE TO THE TANK WASTE ANALYSIS (TWAP) FOR APPROVAL AS REQUIRED. THE TWAP SPECIFIES TANKS TO SAMPLE AND WHAT ANALYSIS ARE REQUIRED BASED ON DATA QUALITY OBJECTIVE (DQO).

Milestone No.: Milestone Seq: 1130-00-0155 TPA MS NO.:
Title: DEMONSTRATION OF IN SITU CHARACTERIZATION
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/15/1994 9/15/1994 PTS: N SMS: Y

Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N

Description:
DESIGN, FABRICATE AND INSTALL NECESSARY MODIFICATIONS OF CORE SAMPLING TRUCK EQUIPMENT FOR THE DEMONSTRATION OF AN IN SITU CHARACTERIZATION SENSOR. MODIFICATIONS WILL ACCOMMODATE THE DEPLOYMENT OF A COPPER FOIL ACTIVATION DEVICE.

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Milestone No.: Milestone Seq: 1130-00-0160 TPA MS NO.:
Title: DEMONSTRATE IR MOISTURE DETECTION IN HOT CELL
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/23/1994 9/23/1994 PTS: N SMS: Y
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
THIS WHC PROJECT WILL PROVIDE THE METHODS AND EQUIPMENT TO REMOTELY DETECT AND
QUANTIFY MOISTURE IN THE UNDERGROUND STORAGE TANKS USING INFRARED SPECTROSCOPY.

Milestone No.: Milestone Seq: 1130-00-0010 TPA MS NO.:
Title: OBTAIN 3 CORE SAMPLES FROM 3 DSTS USING THE PUSH MODE SAMP METHOD
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/29/1994 9/29/1994 PTS: N SMS: Y
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
THREE DST CORE SAMPLES WILL BE COLLECTED AND DELIVERED TO THE ANALYICAL LABORATORIES
FOR ANALYSIS IN FY 1994. ONE CORE SAMPLE WILL BE TAKEN FROM EACH OF THE FOLLOWING
TANKS: AY-102, SY-103, AW-101. CONTINGENCY TANKS WILL BE UTILIZED.

Milestone No.: Milestone Seq: 1130-00-0020 TPA MS NO.:
Title: OBTAIN 13 SST CORE SAMPLES FROM 6 SSTS USING ROTARY MODE METHOD
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/29/1994 9/29/1994 PTS: N SMS: Y
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
THIRTEEN SST CORE SAMPLES WILL BE COLLECTED AND DELIVERED TO THE ANALYTICAL
LABORATORIES FOR ANALYSIS IN FY 1994. CORE SAMPLES WILL BE COLLECTED FROM EACH OF
THE FOLLOWING TANKS: C-106, BY-104, BY-105, U-111, U-106. CONTINGENCY TANKS WILL BE

Milestone No.: Milestone Seq: 1130-00-0025 TPA MS NO.:
Title: OBTAIN 8 SST CORE SAMPLES FROM 3 SST USING PUSH MODE METHOD
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/29/1994 9/29/1994 PTS: N SMS: Y
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
EIGHT SST CORE SAMPLES WILL BE COLLECTED AND DELIVERED TO THE ANALYTICAL
LABORATORIES FOR ANALYSIS IN FY 1994. CORE SAMPLES WILL BE TAKEN FROM EACH OF THE
FOLLOWING TANKS: C-111, C-103, C1-08. CONTINGENCY TANKS WILL BE UTILIZED.

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Milestone No.: Milestone Seq: 1130-00-0035 TPA MS NO.:
Title: OBTAIN 12 AUGER SURFACE SAMPLES FROM 12 WASTE TANKS
Planning Date Target Date Decrement Date Level: Keyword: S
9/29/1994 9/29/1994 PTS: N SMS: Y
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
TWELVE AUGER SAMPLES WILL BE COLLECTED TO AUGMENT CORE SAMPLING CAPABILITIES AND SUPPORT ACCELERATED PRIORITY ONE SCREENING OF WASTE TANKS. CONTINGENCY TANKS WILL BE UTILIZED.

Milestone No.: Milestone Seq: 1130-00-0055 TPA MS NO.:
Title: PROCURE AND RECEIVE TWO PAS-1 TRANSFER CASKS
Planning Date Target Date Decrement Date Level: Keyword: S
9/29/1994 9/29/1994 PTS: N SMS: Y
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
PROCURE AND RECEIVE TWO PAS-1 TRANSFER CASKS ON SITE.

Milestone No.: Milestone Seq: 1130-00-0085 TPA MS NO.:
Title: HISTORICAL TANK LAYERING MODELS
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1994 9/30/1994 PTS: N SMS: Y
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
DEVELOP SEDIMENTATION AND TANK LAYERING MODELS USING DETAILED WASTE TRANSACTION ANALYSIS. THESE LAYERING MODELS WILL BE ORGANIZED BY THE TANK FARM QUADRANT. LAYERING MODELS FOR EACH TANK IN THE NE AND SW QUADRANTS WILL BE PROVIDED TO WHC

Milestone No.: Milestone Seq: 1130-00-0140 TPA MS NO.: M-44-06
Title: COMPLETE DATA LOADING OF 20 TANKS DATA IN TO ELECTRONIC DATABASE
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1994 9/30/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
LOAD 20 TANKS WORTH OF CHARACTERIZATION DATA IN THE TANK CHARACTERIZATION DATABASE (TCD).

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Milestone No.: Milestone Seq: 1130-00-0180 TPA MS NO.: M-44-05
Title: ISSUE 20 TANK CHARACTERIZATION REPORTS/ENTER DATA INTO TCD
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1994 9/30/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:
COMPLETE AND PUBLISH REPORTS DOCUMENTING TANK CHARACTERISTICS FOR 20 HIGH LEVEL
WASTE TANKS AND INPUT DATA INTO AN ELECTRONIC DATABASE(S).

Milestone No.: Milestone Seq: 1130-00-0070 TPA MS NO.:
Title: DIRECT DRILL BIT TEMPERATURE MONITORING
Planning Date Target Date Decrement Date Level: FO Keyword: S
1/31/1995 1/31/1995 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
PROVIDE DIRECT MONITORING OF THE CORE SAMPLER DRILL BIT TEMPERATURE. THIS WILL
COMPLETE FIELD DEPLOYMENT AND TESTING OF A DIRECT DRILL BIT TEMP MONITORING DEVICE.
SANDIA HAS COMPLETED THE PRELIMINARY DESIGN AND IS DEVELOP A FULL SIZE PROTOTYPE

Milestone No.: Milestone Seq: 1130-00-0080 TPA MS NO.:
Title: HISTORICAL TANK CONTENT ESTIMATE REPORT - NW & SE QUADRANTS
Planning Date Target Date Decrement Date Level: FO Keyword: S
3/31/1995 3/31/1995 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
COMPLETE HISTORICAL TANK CONTENT ESTIMATE REPORTS FOR THE NORTHWEST AND SOUTHEAST
QUADRANTS OF TANKS. THESE CONTENT ESTIMATES WILL BE BASED ON QUANTITATIVE
TRANSACTIONS ANALYSIS, LAYERING MODELS, NOMINAL WASTE TYPE COMP, & HISTORICAL SAMPLE

Milestone No.: Milestone Seq: 1130-00-0090 TPA MS NO.: M-44-01B
Title: SUBMIT A DRAFT COPY OF THE TWRS TANK WASTE ANALYSIS PLAN (TWAP)
Planning Date Target Date Decrement Date Level: FO Keyword: S
5/31/1995 5/31/1995 PTS: Y SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
PREPARE AND DELIVER TO THE APPROPRIATE REGULATORY AGENCIES THE DRAFT OF THE TANK
WASTE ANALYSIS PLAN (TWAP) FOR REVIEW AS REQUIRED. THE TWAP SPECIFIES TANKS TO
SAMPLE AND WHAT ANALYSIS ARE REQUIRED BASED ON DATA QUALITY OBJECTIVE (DQO).

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Milestone No.: Milestone Seq: 1130-00-0040 TPA MS NO.: M-44-02B
Title: SUBMIT ANNUAL UPDATE OF TANK WASTE ANALYSIS PLAN TO EPA & ECOLOGY
Planning Date Target Date Decrement Date Level: FO Keyword: S
8/31/1995 8/31/1995 PTS: Y SMS: N
Driver Name: TRI Driver Reference: RCRA, CAA
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

PREPARE AND DELIVER TO THE APPROPRIATE REGULATORY AGENCIES THE ANNUAL UPDATE TO THE TANK WASTE ANALYSIS (TWAP) FOR APPROVAL AS REQUIRED. THE TWAP SPECIFIES TANKS TO SAMPLE AND WHAT ANALYSIS ARE REQUIRED BASED ON DATA QUALITY OBJECTIVE (DQO).

Milestone No.: Milestone Seq: 1130-00-0015 TPA MS NO.: M-44-08
Title: ISSUE 30 TANK CHARACTERIZATION REPORTS/ENTER DATA INTO TCD
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1995 9/30/1995 PTS: Y SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

COMPLETE AND PUBLISH REPORTS DOCUMENTING TANK CHARACTERISTICS FOR 30 HIGH LEVEL WASTE TANKS AND INPUT DATA INTO AN ELECTRONIC DATABASE(S).

Milestone No.: Milestone Seq: 1130-00-0095 TPA MS NO.: M-44-01C
Title: SUBMIT A DRAFT COPY OF THE TWRS TANK WASTE ANALYSIS PLAN (TWAP)
Planning Date Target Date Decrement Date Level: FO Keyword: S
5/31/1996 5/31/1996 PTS: Y SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

PREPARE AND DELIVER TO THE APPROPRIATE REGULATORY AGENCIES THE DRAFT OF THE TANK WASTE ANALYSIS PLAN (TWAP) FOR REVIEW AS REQUIRED. THE TWAP SPECIFIES TANKS TO SAMPLE AND WHAT ANALYSIS ARE REQUIRED BASED ON DATA QUALITY OBJECTIVE (DQO).

Milestone No.: Milestone Seq: 1130-00-0115 TPA MS NO.: M-44-02C
Title: SUBMIT ANNUAL UPDATE OF TANK WASTE ANALYSIS PLAN TO EPA & ECOLOGY
Planning Date Target Date Decrement Date Level: FO Keyword: S
8/31/1996 8/31/1996 PTS: Y SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

PREPARE AND DELIVER TO THE APPROPRIATE REGULATORY AGENCIES THE ANNUAL UPDATE TO THE TANK WASTE ANALYSIS (TWAP) FOR APPROVAL AS REQUIRED. THE TWAP SPECIFIES TANKS TO SAMPLE AND WHAT ANALYSIS ARE REQUIRED BASED ON DATA QUALITY OBJECTIVE (DQO).

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Milestone No.: Milestone Seq: 1130-00-0050 TPA MS NO.: M-44-09
Title: ISSUE 40 TANK CHARACTERIZATION REPORTS/ENTER DATA INTO TCD
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1996 9/30/1996 PTS: Y SMS: N

Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:
COMPLETE AND PUBLISH REPORTS DOCUMENTING TANK CHARACTERISTICS FOR 40 HIGH LEVEL
WASTE TANKS AND INPUT DATA INTO AN ELECTRONIC DATABASE(S).

Milestone No.: Milestone Seq: 1130-00-0100 TPA MS NO.: M-44-01D
Title: SUBMIT A DRAFT COPY OF THE TWRS TANK WASTE ANALYSIS PLAN (TWAP)
Planning Date Target Date Decrement Date Level: FO Keyword: S
5/31/1997 5/31/1997 PTS: Y SMS: N

Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:
PREPARE AND DELIVER TO THE APPROPRIATE REGULATORY AGENCIES THE DRAFT OF THE TANK
WASTE ANALYSIS PLAN (TWAP) FOR REVIEW AS REQUIRED. THE TWAP SPECIFIES TANKS TO
SAMPLE AND WHAT ANALYSIS ARE REQUIRED BASED ON DATA QUALITY OBJECTIVE (DQO).

Milestone No.: Milestone Seq: 1130-00-0120 TPA MS NO.: M-44-02D
Title: SUBMIT ANNUAL UPDATE OF TANK WASTE ANALYSIS PLAN TO EPA & ECOLOGY
Planning Date Target Date Decrement Date Level: FO Keyword: S
8/31/1997 8/31/1997 PTS: Y SMS: N

Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:
PREPARE AND DELIVER TO THE APPROPRIATE REGULATORY AGENCIES THE ANNUAL UPDATE TO THE
TANK WASTE ANALYSIS (TWAP) FOR APPROVAL AS REQUIRED. THE TWAP SPECIFIES TANKS TO
SAMPLE AND WHAT ANALYSIS ARE REQUIRED BASED ON DATA QUALITY OBJECTIVE (DQO).

Milestone No.: Milestone Seq: 1130-00-0065 TPA MS NO.: M-44-10
Title: ISSUE 40 TANK CHARACTERIZATION REPORTS/ENTER DATA INTO TCD
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1997 9/30/1997 PTS: Y SMS: N

Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:
COMPLETE AND PUBLISH REPORTS DOCUMENTING TANK CHARACTERISTICS FOR 40 HIGH LEVEL
WASTE TANKS AND INPUT DATA INTO AN ELECTRONIC DATABASE(S).

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Milestone No.: Milestone Seq: 1130-00-0105 TPA MS NO.: M-44-01E

Title: SUBMIT A DRAFT COPY OF THE TWRS TANK WASTE ANALYSIS PLAN (TWAP)

Planning Date Target Date Decrement Date Level: FO Keyword: S
5/31/1998 5/31/1998 PTS: Y SMS: N

Driver Name: TRI Driver Reference:

PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

PREPARE AND DELIVER TO THE APPROPRIATE REGULATORY AGENCIES THE DRAFT OF THE TANK WASTE ANALYSIS PLAN (TWAP) FOR REVIEW AS REQUIRED. THE TWAP SPECIFIES TANKS TO SAMPLE AND WHAT ANALYSIS ARE REQUIRED BASED ON DATA QUALITY OBJECTIVE (DQO).

Milestone No.: Milestone Seq: 1130-00-0125 TPA MS NO.: M-44-02E

Title: SUBMIT ANNUAL UPDATE OF TANK WASTE ANALYSIS PLAN TO EPA & ECOLOGY

Planning Date Target Date Decrement Date Level: FO Keyword: S
8/31/1998 8/31/1998 PTS: Y SMS: N

Driver Name: TRI Driver Reference:

PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

PREPARE AND DELIVER TO THE APPROPRIATE REGULATORY AGENCIES THE ANNUAL UPDATE TO THE TANK WASTE ANALYSIS (TWAP) FOR APPROVAL AS REQUIRED. THE TWAP SPECIFIES TANKS TO SAMPLE AND WHAT ANALYSIS ARE REQUIRED BASED ON DATA QUALITY OBJECTIVE (DQO).

Milestone No.: Milestone Seq: 1130-00-0030 TPA MS NO.: M-44-11

Title: ISSUE 30 TANK CHARACTERIZATION REPORTS/ENTER DATA INTO TCD

Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1998 9/30/1998 PTS: Y SMS: N

Driver Name: TRI Driver Reference:

PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

COMPLETE AND PUBLISH REPORTS DOCUMENTING TANK CHARACTERISTICS FOR 30 HIGH LEVEL WASTE TANKS AND INPUT DATA INTO AN ELECTRONIC DATABASE(S).

Milestone No.: Milestone Seq: 1130-00-0110 TPA MS NO.: M-44-01F

Title: SUBMIT A DRAFT COPY OF THE TWRS TANK WASTE ANALYSIS PLAN (TWAP)

Planning Date Target Date Decrement Date Level: FO Keyword: S
5/31/1999 5/31/1999 PTS: Y SMS: N

Driver Name: TRI Driver Reference:

PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

PREPARE AND DELIVER TO THE APPROPRIATE REGULATORY AGENCIES THE DRAFT OF THE TANK WASTE ANALYSIS PLAN (TWAP) FOR REVIEW AS REQUIRED. THE TWAP SPECIFIES TANKS TO SAMPLE AND WHAT ANALYSIS ARE REQUIRED BASED ON DATA QUALITY OBJECTIVE (DQO).

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1130-00-0130 TPA MS NO.: M-44-02F
Title: SUBMIT ANNUAL UPDATE OF TANK WASTE ANALYSIS PLAN TO EPA & ECOLOGY
Planning Date Target Date Decrement Date Level: FO Keyword: S
8/31/1999 8/31/1999 PTS: Y SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:
PREPARE AND DELIVER TO THE APPROPRIATE REGULATORY AGENCIES THE ANNUAL UPDATE TO THE TANK WASTE ANALYSIS (TWAP) FOR APPROVAL AS REQUIRED. THE TWAP SPECIFIES TANKS TO SAMPLE AND WHAT ANALYSIS ARE REQUIRED BASED ON DATA QUALITY OBJECTIVE (DQO).

Milestone No.: Milestone Seq: 1130-00-0045 TPA MS NO.: M-44-12
Title: ISSUE 14 TANK CHARACTERIZATION REPORTS/ENTER DATA INTO TCD
Planning Date Target Date Decrement Date Level: FO Keyword: S
9/30/1999 9/30/1999 PTS: Y SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:
COMPLETE AND PUBLISH REPORTS DOCUMENTING TANK CHARACTERISTICS FOR 30 HIGH LEVEL WASTE TANKS AND INPUT DATA INTO AN ELECTRONIC DATABASE(S).

Milestone No.: 2716 Milestone Seq: 1130-00-0185 TPA MS NO.: M-44-00
Title: ISSUE TANK CHARACTERIZATION REPORTS FOR ALL 177 HLW TANKS
Planning Date Target Date Decrement Date Level: FO Keyword:
9/30/1999 9/30/1999 PTS: Y SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:
ISSUE TANK CHARACTERIZATION REPORTS (TCRs) BASED ON PROCESS KNOWLEDGE, PRIOR CHAR DATA, AND VALIDATED EMPIRICAL DATA ACQUIRED AFTER MAY 1989 FOR 177 HANFORD HIGH LEVEL WASTE (HLW) TANKS.

NARRATIVE

LAST UPDATE: 04-23-1994 TIME: 14:44:49

Technical Scope Summary(Limit 15 line or less):

This activity encompasses all aspects of sampling and analysis of single-shell tank (SST) and double-shell tank (DST) waste including core, supernate, auger, and vapor samples with the primary objective to provide required characterization data to support the safe storage, retrieval, treatment, processing and final disposal of Hanford tank waste.

Characterization requirements are established through a formal data quality

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objective (DQO) process which will be accelerated and targeted as a phased strategy consistent with TWRS scheduled program needs. In addition, historical process and sampling data are being compiled and analyzed to provide a best 'historical' estimate of tank contents. This is being combined with post 1989 analytical data to present a 'best estimate' of tank contents. This will be reported both in reports and via a networked database. Technology needed to support near term characterization as well as hardware needs are covered in this activity.

Technical Scope Detail(Limit 104 lines or less):

This activity consists of five sub-activities: Technical Integration and Planning; Technology Development and Applied Engineering; Field Sampling and Measurement; Analytical Integration; and, Data Evaluation and Reporting. In FY 1995, characterization needs of SST and DST waste are integrated to support the safe storage and disposal of all tank waste. As a first priority, tank waste characterization activities provide information necessary for the overall safe management and control of activities and systems associated with these Watch List Tanks. All characterization data acquired may also be used to support the systems engineering studies and to assess the various National Environmental Policy Act/Environmental Impact Statement (NEPA/EIS) and Resource Conservation and Recovery Act (RCRA) closure plans for disposal of the waste within the SST operable units. Technical Integration and Planning covers using a systems engineering approach to set priorities for sampling and issuing detailed sampling plans (Tri-Party Agreement annual milestone). External reviews are also covered here. Development of improved instrumentation and methods for remote hot cell characterization, field sampling, and selective in-situ and potential in-process applications, will be done to meet Tank Waste Remediation System (TWRS) tank characterization needs. Onsite laboratory upgrades, including new and improved analytical methods, will continue with the objectives to increase laboratory capacity and improve quality performance. The laboratory upgrades program and operations management system will be reevaluated and aligned with the changing TWRS characterization strategy as new technologies (e.g., remote hot cell and in-situ) are developed and deployed, and requirements are reduced. Program element requirements for characterization will be developed through the DQO process and incorporated into the Tank Waste Analysis Plan and the Tank Characterization Plans. The Tank Characterization Plans will be used to direct sampling and laboratory activities. All tank sampling (vapor, auger, supernate, and cores) will be taken by this activity as will the replacement of equipment (samplers, casks, etc.) needed to support tank sampling. All tank analyses (vapor, liquid, solids) will be covered by this activity, as will issuance of analytical reports. Safety screening results will be published 45 days after receipt of material at lab. As required by the Tri-Party Agreement, detailed reports will be due 176 or 216 days after sampling. Historical processing and analytical data will be evaluated and a tank contents estimate (by layers of material in a tank) will be made and documented. Technical staff will combine the historical

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estimates with recent (post 1989) lab analyses and will issue 'best technical estimates' in Tank Characterization Reports (all 177 tanks to be evaluated by 1999 per Tri-Party Agreement). Characterization data will be maintained both in written report format and via networked electronic database. This electronic database (tank characterization database) will be made available to all key data users, on-site and off-site.

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

1) Finalized and issued the Recommendation 93-05 Implementation Plan (DOE/RL 94-0001) responding to the Defense Nuclear Facilities Safety (DNFSB) Recommendation 93-05. The Implementation Plan received Westinghouse Hanford Company and Department of Energy - Richard Operations Management approval on January 12, 1994 and was transmitted by DOE-HQ to Board on January 21, 1994; 2) Completed loading data from three high level waste tanks into the Tank Characterization Database (TCD). This was accomplished on January 13, 1994 and fulfills the Tri-Party Agreement Milestone M-44-04; 3) Distributed a Tank Waste Remediation System (TWRS) Data Quality Objective (DQO) Strategy Document and a DQO Process Guidance Document to the TWRS Program element managers on January 11, 1994; 4) Issued a draft upgrade plan for the Idaho National Engineering Laboratory (INEL) on January 14, 1994; 5) Completed installation of the heated vapor sampling assembly in tank 241-C-103 and obtained a vapor sample through the new assembly; 6) Completed safety review of twelve existing Single-Shell Tank (SST) data packages. Discovered an exotherm in SST 241-B-202 and numerous low pH conditions in other tanks; 7) Completed the 241-C-106 High Heat Data Quality Objective (DQO) effort on January 19, 1994; 8) Tank Characterization Database information was made accessible offsite on January 28, 1994; 9) Version 1.0 of the Laboratory Information Management System was released at the 222-S Laboratory on January 31, 1994; 10) Total Organic Carbon (TOC) equipment was installed and procedures signed-off completing the technology transfer of the Pacific Northwest Laboratories TOC procedures to the 222-S Laboratory; 11) Completed the Waste Status Transaction Record Summaries and the Tank Layering Models for the Northeast Quadrant; 12) The Waste Status and Transaction Record Summary documents for the northeast and southwest quadrants of the Hanford Site have been received from Los Alamos National Laboratories (LANL); 13) The Tank Waste Remediation System laboratory (TWRS) capacity needs assessment was completed by loading projected TWRS characterization needs and onsite capacities into the laboratory capacity and utilization model; 14) The Safety Screening and Rotary Core Vapor Sampling Data Quality Objective document was issued as a supporting document in February 1994; 15) The Advanced Hot Cell Analytical Technologies Project Management Plan was issued on February 25, 1994; 16) Completed analysis and data validation for all prior year SST core samples. This was accomplished on November 10, 1993 and fulfills Tri-Party Agreement Milestone M-44-07.

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

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Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. The delta change from the President's budget is \$15,611K, resulting in a new total of \$88,851K. These adjustments may require a FY 1995 budget amendment.

The sampling and analysis of Watch List and non-Watch List core, supernate, auger, and vapor samples will be planned consistent with a systems engineering evaluation and on-site laboratory capacity to process samples. The Technical Integration and Planning Subactivity will continue to provide technical and administration oversight as well as Systems Engineering and Quality Assurance support. The Technology Development and Applied Engineering Subactivity will include continued design and fabrication of a sampling system for measuring void fraction within the waste layers of gas-generating tanks and design of a sampling system that will retrieve representative wastes from the bottom 1.5 inches of waste tanks. Support for onsite analytical laboratories including technology and methodology development will continue. The Field Sampling and Measurement Subactivity will continue administrative, operations, and materials procurement support required to take push-mode and rotary mode core, vapor, supernate, and auger samples. The integrated sampling schedule will be updated and maintained. Samples will be taken and transported to laboratories for analysis. The Analytical Integration Subactivity will provide the planning and analytical requirements to the supporting analytical laboratories for samples recovered from waste tanks. These instructions will be administered through the Tank Waste Analysis Plan and the Tank Characterization Plans. In addition, data generated during analysis will be collected in a data package, validated, and placed in the administrative record. This subactivity also encompasses continued operation of the 340 Facility, some laboratory upgrades, and laboratory readiness activities. The Data Evaluation and Reporting Subactivity includes establishing Data Quality Objectives (DQO), evaluating historical and analytical data, and upgrading/maintaining the electronic database containing tank characterization information. During FY 1995 this subactivity will continue the preparation of DQO documents, issue Tank Characterization Reports consistent with TPA and DNFSB commitments, and complete data loading into the Tank Characterization database.

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

The sampling and analysis of Watch List and non-Watch List core, supernate, auger, and vapor samples will be planned consistent with a systems engineering evaluation and on-site laboratories capacity to process samples. The Technical Integration and Planning Subactivity will continue to provide technical and administration oversight as well as Systems Engineering and Quality Assurance support. The Technology Development and Applied Engineering Subactivity will focus on applying commercial technologies to a radioactive environment to support gathering tank in situ data for retrieval and analytical data requested for pretreatment and

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disposal that do not presently exist. The Field Sampling and Measurement Subactivity will continue administrative, operations, and materials procurement support required to take push-mode core, rotary mode core, vapor, supernate, and auger samples. The integrated sampling schedule will be updated and maintained. Samples will be taken and transported to laboratories for analysis. The Analytical Integration Subactivity will provide the planning and analytical requirements to the supporting analytical laboratories for samples recovered from waste tanks. These instructions will be administered through the Tank Waste Analysis Plan and the Tank Characterization Plans. In addition, data generated during analysis will be collected in a data package, validated, and placed in the administrative record. This subactivity also encompasses some laboratory upgrades, and laboratory readiness activities. The Data Evaluation and Reporting Subactivity includes establishing Data Quality Objectives (DQO), evaluating historical and analytical data, and upgrading/maintaining the electronic database containing tank characterization information. Safety screening and evaluation of key 'bounding' tanks for pretreatment will be the prime focus.

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

The sampling and analysis of Watch List and non-Watch List core, supernate, auger, and vapor samples will be planned consistent with a systems engineering evaluation and on-site laboratories capacity to process samples. The Technical Integration and Planning Subactivity will continue to provide technical and administrative oversight as well as Systems Engineering and Quality Assurance support. The Technology Development and Applied Engineering Subactivity will focus on implementation of commercial technology that reduces operating costs. The Field Sampling and Measurement Subactivity will continue administrative, operations, and materials procurement support required to take push-mode core, rotary mode core, vapor, supernate, and auger samples. Samples will be taken and transported to a laboratory for analysis. The Analytical Integration Subactivity will provide the planning and analytical requirements to the supporting analytical laboratories for samples recovered from waste tanks. These instructions will be administered through the Tank Waste Analysis Plan and the Tank Characterization Plans. In addition, data generated during analysis will be collected in a data package, validated, and placed in the administrative record. The Data Evaluation and Reporting Subactivity includes establishing Data Quality Objectives (DQO), evaluating historical and analytical data, and upgrading/maintaining the electronic database containing tank characterization information. The focus will be primarily on pretreatment, retrieval, and disposal characterization needs from 1997 on.

Impacts/Assumptions(Limit 42 lines or less):

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a low unit

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rate, or the application of more efficient processes, or through cost avoidance. Also, G & A rate upgrades have been included.

ASSUMPTIONS:

1) Responsibility for all vapor sampling field work, sample analysis, data management will transfer to the TWRS Characterization Program in FY 1995; 2) Only those tanks designated as suspect based upon a history of vapor exposure to workers and the remainder of C Farm tanks not listed in other categories and Watch List, and organic, will be tank vapor source sampled/characterized; 3) Primarily Watch List tanks will be sampled as designated by the integrated sampling schedule; 4) nominal sampling capacities are approximately - 24 cores/year, 1 PM crew, 1 PM truck; 5) nominal sampling capacities are approximately - 24 cores/year, 2 RM crew, 1 RM truck; 6) Waste processing (ie. Pretreatment, Retrieval) will require core sampling services through final tank disposition; 7) All sampling necessary for Tri-Party Agreement (TPA) characterization needs completed by FY 1999; 8) A total of 2 vapor sampling crews will be available for all vapor sampling for FY 1995; 9) Laboratory upgrades and readiness activities will be fully funded through ADS 7100 starting in FY 1997.

Supporting Documents(Limit 5 lines or less):

Hanford Federal Facility Agreement and Consent Order, Fourth Amendment, January 1994; DOE Notice 5400.1 - General Environmental Protection Policy Program (all); Recommendation 93-5 Implementation Plan, DOE/RL 94-0001, January 1994; DOE Order 5820.2A 'Radioactive Waste Management'.

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 were submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

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Operations Office: RL ID No.: 1140- 0 Revision Date: 3/04/1992
 ADS Title: CORRECTIVE ACTIVITIES - WT SAFETY AND OPERATIONS
 WBS No.: 1.3.7.2.7 Category: Appr.:
 Project Title: CORRECTIVE ACTIVITIES-W. Facility/WAG: TANK FARMS
 Installation: HANFORD CID: RL10930 ZOVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: HALVERSON, TW Phone: 509-373-3661
 O.O. Manager: GERTON, RE Phone: 509-376-9106
 H.Q. Manager: GRIFFITH, AR Phone: 301-903-7120
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 100 TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: Y 3004U: TSCA: CERCLA: NEPA:
 DOE: IAG: OSHA: ORD: ST : Y TRI : FED : 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
TOTAL	0	0	0	0	0

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
TOTAL	0	0	0	0	0

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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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1140-00-0010 TPA MS NO.: M-27-06
Title: ISSUE DST INTEGRITY ASSESSMENT FINAL REPORT (241-SY TANK FARM)
Planning Date Target Date Decrement Date Level: CNTR Keyword:
1/01/1995 6/30/1996 PTS: SMS:
Driver Name: ST Driver Reference: WAC-173-303-640(2)(A)
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
ISSUE DST INTEGRITY ASSESSMENT FINAL REPORT (241-SY TANK FARM)

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Milestone No.: Milestone Seq: 1140-00-0025 TPA MS NO.: M-27-06
Title: ISSUE DST INTEGRITY ASSESSMENT FINAL REPORT (241-SY TANK FARM)
Planning Date Target Date Decrement Date Level: CNTR Keyword:
1/01/1995 6/30/1996 PTS: SMS:
Driver Name: ST Driver Reference: WAC-173-303-640(2)(A)
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
ISSUE DST INTEGRITY ASSESSMENT FINAL REPORT (241-SY TANK FARM)

~~NARRATIVE~~

LAST UPDATE: 04-06-1994 TIME: 17:36:08

Technical Scope Summary(Limit 15 line or less):

Technical Scope Detail(Limit 104 lines or less):

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

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

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

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

Impacts/Assumptions(Limit 42 lines or less):

Supporting Documents(Limit 5 lines or less):

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 were submitted under separate cover.

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LAST UPDATE: 03-21-1993 TIME: 09:51:18

01. TECHNICAL SCOPE

Provide interim status compliance actions for DST and SST tank farm units to achieve compliance with RCRA requirements (40CFR 265 Subparts B, D and J). This includes: Preparation of the DST compliance assessment audits; prepare RCRA training program to train cognizant engineers, managers and policy makers, and maintain training qualifications for RCRA regulations and response plans; prepare RCRA response plans for natural hazards, hazardous materials and mixed waste spills, radioactive material spills, and if required, criticality and explosive materials/munitions; prepare RCRA plans for prevention of recurring fires and explosives, and facility emergencies; prepare DST inspection plan, inspection implementation plan, and conduct inspections in compliance with RCRA regulations; petition for inspection relief of inaccessible tank features; and interim status compliance corrective actions workscope added from facility assessments made during 1989.

The integrity assessments are required under the RCRA for all tank systems that store hazardous wastes. Specific Tank Farm Project facilities for which performance of an integrity assessment must be addressed include: Double-Shell Tank System; 242-A Evaporator Facility; Single-Shell tank system (NOTE: No Integrity Assessment will be performed on SSTs, it will only be addresses).

The performance of an integrity assessment on a tank system is not generally a complex evolution. Radiological and design concerns make performance of this task on the Tank Farm Project facilities more unique. Major tasks that will be addressed in the various integrity assessments include: Design standard comparison; Waste characteristics, compatibility and corrosion protection; Leak testing (including Ultrasonic Testing); Inspections.

The completion of these integrity assessments will ensure that the tank systems are fit for use. The assessment will also identify what ongoing integrity assessment program is required for continued operations. The results of the assessments will be approved by the operator of the facility as well as certification by an independent, qualified registered professional engineer.

An integrity assessment will not be performed on the Single-Shell Tank system as this facility is no longer receiving waste and is pursuing closure. Tasks are being performed to comply with the RCRA requirements for dispositioning an unfit for use tank system.

02. ACT. COMP TO DATE

Completed DST Interim Status Compliance Corrective Actions (with the exception of tank issues which are currently under negotiations) by December 21, 1990 to meet Tri-Party Agreement (TPA) Milestone M-23-12. This effort includes completion of target dates for inspection plan, training

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plan, contingency plan and waste analysis plan.

Completed 242-A Evaporator Interim Status Compliance Corrective Actions by December 31, 1990 to meet TPA milestone M-23-13. This effort includes completion of target dates for inspection plan, training plan, contingency plan and waste analysis plan.

Completed Waste Analysis Plans for the DSTs, SSTs and 242-A Evaporator by December 31, 1990 to meet TPA Milestone M-23-03/04. Completed Integrity Assessment Plan for the first DST Farm (241-AW Tank Farm) including incorporation of Washington Department of ecology comments by March 31, 1991.

Negotiate a TPA Milestone (proposed Milestone M-27-05) to address corrective action schedule for DST integrity assessments. Begin performance of integrity assessment work on DSTs towards completion of the Integrity Assessment Plan to the negotiated TPA Milestone.

03. CUR YR FY93 DESC

Negotiate a TPA Milestone (proposed Milestone M-27-06) to address corrective the action schedule for 242-A Evaporator integrity assessments. Complete Integrity Assessment Report for the 242-A Evaporator to the negotiated TPA Milestone.

The major tasks that were initiated in FY 1990 and scheduled to be completed in early FY 1995 and will be performed as part of the assessments include:

(1) INTEGRITY ASSESSMENT PLANNING - An integrity assessment plan (IAP) will be written for each of the following discrete portions of the DST system:

- 241-AW Tank Farm (Completed 9/90)
- Double Contained Receiver Tanks (Completed 3/91)
- 241-AN Tank Farm
- 241-AP Tank Farm
- 241-AY/AZ Tank Farms
- 241-SY Tank Farm

(2) DESIGN STANDARD - STRUCTURAL INTEGRITY ASSESSMENT - A comparison will be performed of the original facility design standards against the current design standards for a similar facility. Technical differences will be dispositioned through engineering analysis of the variances or through upgrades to the facilities.

(3) WASTE CHARACTERISTICS, COMPATIBILITY AND CORROSION REVIEW - Data on waste characterization, tank system age, and tank system materials will be compiled. An evaluation will be performed to determine the compatibility of the system with respect to the existing waste. An assessment will also be performed concerning the corrosion potential within the waste stream environment. This assessment will involve comparing the materials utilized in the system with the waste stream and its environment. (4) LEAK TESTING AND EXAMINATIONS - Leak testing of a 1M gallon DST containing radioactive mixed waste is not practical. The primary and secondary tanks will be

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visually inspected through the use of Closed Circuit Television (CCTV). Ultrasonic Testing (UT) will also be utilized to examine for wall thickness and cracks. Both the CCTV and UT will be performed by inserting equipment into the annulus space of the DST. This type of inspection has not been performed to date on the Hanford Site and will involve offsite procurement, equipment development and testing. A leak evaluation will also be performed through a review of operational monitoring records. The DSTs are monitored on a continuous basis by several leak detection methods. These represent an ongoing leak evaluation of the tank system.

04. BUD YR FY94 DESC

No workscope planned in FY 1994 and beyond in this Activity Data Sheet. See ADS 1100-N1 for outyear workscope relating to this ADS. Milestone initiated in this ADS will be completed in ADS 1100-N1, Tank Farm Operations and Maintenance.

05. PLN YR FY95 DESC

None.

06. OUT YR FY96-99 DESC

None.

07. KEY ASSUMPTIONS

Funding, integrity assessment equipment, facilities, personnel, technical skills, and the supporting infrastructure needed to complete the DST mission will be available when required. Obtaining Washington Department of Ecology (WDOE) agreement on a reasonable date for completing integrity assessments.

08. KEY ISSUES AND UNCLER

The state regulation for tank systems requires 100% assessment of the existing tank systems integrity. This is not possible with the Hanford tank farm system as some areas are inaccessible. A negotiation an agreement with the State of Washington on what will be acceptable still needs to be finalized.

09. REG DRVS/SCOPE/CONSE

1) Hanford Federal Facility Agreement and Consent Order Milestones M-23-03, M-23-06, M-23-12, and M-23-13 (TPA)
2) WAC 173-303-640 Dangerous Waste Regulations, Tank Systems 3) 40 CFR 265.191(a) Integrity Assessments Requirements 4) WM/CF-3 Potential Environmental Hazards from Storage of Radioactive Waste at Tank Farms (Tiger Team Finding)

The Single-Shell Tanks, Double-Shell Tanks and the 242-A Evaporator are all classified as Treatment, Storage and Disposal (TSD) waste management units and are operated under the Interim Status provisions of RCRA. under the authority of RCRA, the State of Washington Department of Ecology has promulgated Dangerous waste Regulations (WAC 173-303). These regulations

~~NARRATIVE Continued~~

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NARRATIVE Continued

incorporate the provisions of RCRA and provide the regulatory direction for the management of dangerous wastes in the State of Washington. These regulations are applicable to hazardous portion of the wastes stored in the various facilities of the Tank Farms Project.

The provisions for integrity assessments of tank systems is provided in WAC 173-303-640(2)(a): 'For each existing tank system, the owner or operator must determine that the tank system is not leaking or is unfit for use. Except as provided in (b) of this subsection, the owner or operator must obtain and keep on file at the facility a written assessment reviewed and certified by an independent, qualified registered professional engineer, in accordance with WAC 173-303-810(13)(a), that attests to the tank system's integrity by January 12, 1988, for underground tanks that do not meet the requirements of subsection (4) of this section and that cannot be entered for inspection, or by January 12, 1990, for all other tank systems.' The provision for an ongoing integrity assessment program for tank systems is addressed in WAC 173-303-640(2)(e): 'The owner or operator must develop a schedule for conducting integrity assessments over the life of the tank to ensure that the tank retains its structural integrity and will not collapse, rupture, or fail. The schedule must be based on results of past integrity assessments, age of the tank system, materials of construction, characteristics of the waste, and any other relevant factors.'

These Washington State requirements are derived from the RCRA requirements for integrity assessments in 40CFR265.191(a).

10. LEGAL NOT IN TARGET

None.

11. MGMT PRAC NOT IN TAR

None.

DESCRIPTION OF REGULATORY DRIVERS

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DESCRIPTION OF REGULATORY DRIVER

incorporate the provisions of RCRA and provide the regulatory direction for the management of dangerous wastes in the State of Washington. These regulations are applicable to hazardous portion of the wastes stored in the various facilities of the Tank Farm Project.

The provisions for integrity assessments of tank systems is provided in WAC 173-203-640(2)(a): For each existing tank system, the owner or operator must determine that the tank system is not leaking or is under repair. Except as provided in (b) of this subsection, the owner or operator must obtain and keep on file at the facility a written assessment reviewed and certified by an independent, qualified registered professional engineer, in accordance with WAC 173-203-610(1)(a), that attests to the tank system's integrity by January 15, 1988, for underground tanks that do not meet the requirements of 1988. For underground tanks that cannot be assessed for inspection, the owner or operator must develop a program for tank systems in accordance with WAC 173-203-640(2)(a) and will not ensure that the tank retains its structural integrity and will not collapse, rupture, or fail. The schedule must be based on results of past integrity assessments, age of the tank system, materials of construction, characteristics of the waste, and any other relevant factors.

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These Washington State requirements are derived from the RCRA requirements for integrity assessments in 40CFR191(a).

10. LEGAL NOT IN TABLE
None

11. MONITORING NOT IN TABLE
None

DESCRIPTION OF REGULATORY DRIVER

Environmental Management
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RL-1150-0 - Date: 6/01/1994

Operations Office: RL ID No.: 1150- 0 Revision Date:
 ADS Title: WASTE TANK SAFETY - NEW FACILITY PLANNING
 WBS No.: 1.3.7.2.2 Category: Appr.:
 Project Title: TANK SAFETY & OPERATIONS Facility/WAG:
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: Phone:
 O.O. Manager: Phone:
 H.Q. Manager: Phone:
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

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

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: 3004U: TSCA: CERCLA: NEPA:
 DOE: IAG: OSHA: ORD: ST : TRI : FED : 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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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
TOTAL	0	0	0	0	0

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
TOTAL	0	0	0	0	0

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
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Budget Detail Profile

DESC: SUB-DESC: TITLE: APPROP:	PROGRAM:	SUBACT:	FY96 DRIVER	CATEGORY	DECREMENT	TARGET	PLAN	IMM RISK
			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
	0	0		E	0	0	0	0
	0	0		F	0	0	0	0
	0	0		G	0	0	0	0
	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
	0
	0
	0
	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

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

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DESCRIPTION OF REGULATORY DRIVERS

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DESCRIPTION OF REGULATORY DELIVERABLE

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Operations Office: RL ID No.: 1200- 0 Revision Date: 5/30/1992
 ADS Title: PROGRAM MANAGEMENT AND ADMINISTRATION
 WBS No.: 1.3.7.2.8 Category: WM Appr.:
 Project Title: TANK WASTE REMEDIATION P Facility/WAG:
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: SCHLAUDER, WJ Phone: 509-373-3001
 O.O. Manager: HIGGINS, EW Phone: 509-376-2536
 H.Q. Manager: ROBERSON, G Phone: 301-903-7170
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

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

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: Y 3004U: TSCA: CERCLA: NEPA: Y
 DOE: Y IAG: OSHA: ORD: ST : Y TRI : Y FED : 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	42,812	44,315		A	42,541	42,541	42,541	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	42,812	44,315		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	42,541	42,541	42,541	0

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	42,541
CE	0
GPP	0
LI	0
TOTAL	42,541

Environmental Management
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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	42,541	43,017	50,978	43,372	41,294
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	42,541	43,017	50,978	43,372	41,294

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	42,541	43,017	50,978	43,372	41,294
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	42,541	43,017	50,978	43,372	41,294

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: TANK DISPOSAL PROGRAM						FY96 DRIVER CATEGORY									
SUB-DESC: PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK						
TITLE: TWRS Program Management and Inte															
APPROP: D															
B&R	FY94	APPR	FY95	PRES	FY95	APPR	A	B	C	D	E	F	G	H	I
EW3120075		0	50,949				42,541	0	0	0	0	0	0	0	0
35EW31207		0	0				0	0	0	0	0	0	0	0	0
39EW31207		0	0				0	0	0	0	0	0	0	0	0
39EW31207		0	0				0	0	0	0	0	0	0	0	0
TOTAL		0	50,949				42,541	0	0	0	0	0	0	0	0
							TOTAL	42,541	49,786	49,786	0	0	0	0	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3120075	42,541
35EW31207	0
39EW31207	0
39EW31207	0
TOTAL	42,541

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120075	49,786	46,983	47,292	47,683	49,157
35EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	49,786	46,983	47,292	47,683	49,157

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120075	49,786	46,983	47,292	47,683	49,157
35EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	49,786	46,983	47,292	47,683	49,157

Environmental Management
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Budget Detail Profile

DESC: TANK DISPOSAL PROGRAM					FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: AB					DECREMENT	TARGET	PLAN	IMM RISK
TITLE: Productivity Challenge								
APPROP: D								
B&R	FY94 APPR	FY95 PRES	FY95 APPR					
				A	0	-7,245	-7,245	0
				B	0	0	0	0
				C	0	0	0	0
				D	0	0	0	0
EW3120075	42,812	-6,634		E	0	0	0	0
35EW31207	0	0		F	0	0	0	0
39EW31207	0	0		G	0	0	0	0
39EW31207	0	0		H	0	0	0	0
				I	0	0	0	0
TOTAL	42,812	-6,634		TOTAL	0	-7,245	-7,245	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3120075	0
35EW31207	0
39EW31207	0
39EW31207	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120075	-7,245	-3,966	3,686	-4,311	-7,863
35EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	-7,245	-3,966	3,686	-4,311	-7,863

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3120075	-7,245	-3,966	3,686	-4,311	-7,863
35EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
39EW31207	0	0	0	0	0
TOTAL	-7,245	-3,966	3,686	-4,311	-7,863

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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1200-00-0085 TPA MS NO.: M-09-00
Title: M-09-02 Submit to Ecology SST Closure Plan
Planning Date Target Date Decrement Date Level: Keyword:
10/02/2002 PTS: SMS:
Driver Name: _____ Driver Reference: _____
PRESENT IN Tiger Team: Program Execution Guidance: _____
Roadmap: Current Year Workplan: Safety and Health: _____
Description: _____

Milestone No.: _____ Milestone Seq: 1200-00-0090 TPA MS NO.: N/A
Title: Issue TWRS EIS & ROD
Planning Date Target Date Decrement Date Level: HQ Keyword:
1/31/1996 PTS: Y SMS: Y
Driver Name: N/A Driver Reference: n/a
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: 1200-00-0100 TPA MS NO.: N/A
Title: Change Control
Planning Date Target Date Decrement Date Level: HQ Keyword:
10/01/1993 PTS: Y SMS: Y
Driver Name: N/A 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: 1200-00-0035 TPA MS NO.: N/A
Title: Issue TWRS SEIS and ROD
Planning Date Target Date Decrement Date Level: HQ Keyword:
12/31/1995 12/31/1995 PTS: Y SMS: Y
Driver Name: DOE 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: 04-27-1994 TIME: 11:32:22

Technical Scope Summary(Limit 15 line or less):

The primary goal of the Program Management Administration function is to ensure that the Tank Waste Remediation System (TWRS) program is adequately defined and planned in order to effectively manage the program. This activity provides support for a multitude of TWRS-wide activities that do not otherwise fit into another program element. Included are Business and Baseline Management, Environment, Safety, Health and Quality Assurance activities (ESH&QA) activities, Resource Conservation and Recovery Act (RCRA) Permit, Environmental Impact Statement (EIS) Management, TWRS-level Systems Engineering, Pacific Northwest Laboratory (PNL) Technology Management Support, U.S. Department of Energy, Richland Operations Office (RL) Technical and Administrative Support, and Project Integration. In addition, a variety of other administrative and technical activities are included.

Technical Scope Detail(Limit 104 lines or less):

The following defines the work content and associated deliverables for the areas identified above.

Business Management provides the required collection and tracking of cost

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information and performance measures, funds management, monthly reporting of progress and general financial activities needed to responsibly manage a \$600M program.

Business/Baseline Management provides implementation and maintenance of: The Program Management Plan (PMP), including all chapters and annexes. The PMP summarizes how the TWRS will be managed including role and responsibilities; Management System definitions and integration flows; Schedule/Cost Baselines including assumptions, constraints, deliverables, logics, master summary and operating schedules, multi-year cost baselines, key crosscut information, Work Breakdown Structure (WBS) dictionaries, milestones logs, etc.

Environmental, Health, Safety, and Quality Assurance provides integration and self-assessment of ESH&QA activities conducted within the TWRS are provided under this element. Self-assessment helps to ensure compliance with ESH&QA Management Plans and regulations. Additionally, coordination of activities related to the Hanford Facility Federal Agreement and Consent Order (Tri-Party Agreement), development of National Environmental Protection Agency (NEPA) documentation and permitting strategies are included in this activity area.

RCRA Permit Implementation provides resources for the management and implementation of the RCRA permit.

Environmental Impact Statement (EIS) provides for collection of technical information needed to prepare the EIS, conducting public scoping hearings on the TWRS EIS and funds for the EIS preparation contract. Systems Engineering includes analyses of system structures under a variety of technical cost and schedule conditions which can be used as a basis for selection among architectures. This activity will maintain databases and analytical capability to support the development and implementation of the TWRS Program. Functional, technical, and design baseline data will be produced from the program-level analyses provided in this element along with an initial and continuing strategic analysis at the program level. PNL Technology and Program Office is responsible to develop and manage the TWRS Integrated Technology Program. This work involves the coordination of all TWRS technology needs to establish priorities, identification and establishment of the technology groups for the various functional areas, and the selection, evaluation, and integration of the technical development activities assigned to all TWRS performing organizations.

Project Integration will coordinate project validation activities and change control administration, provide management system assessments per DOE Order 4700.6A, update the TWRS Master Plan, and develop and implement the Management System.

Readiness Review Management serves as the independent element in the readiness review process for starting/restart of facilities or activities as required by DOE 5480.31.

Reengineering and Total Quality Management activity is to reduce the cost of doing business. This function is implementing cost reduction initiatives identified as a Profile II, a structured approach to identifying low value activities.

Training and Qualification activity is to support the development of the

~~NARRATIVE Continued~~

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annual Staffing Plan and individual Qualification and Training Plans for WHC TWRS managerial and technical staff as required by the Defense Nuclear Facilities Safety Board (DNFSB) 92-4 Implementation Plan.

Communications and Building Management provides division level communications, administration, employee recognition and building administration.

Public Involvement Management provides planning and management of public involvement on mandatory issues.

Information Resources Management (IRM) function will establish and maintain a TWRS centralized information resources management system including computer databases, Document Control and Records Management and serves as the single source of information to ensure consistency and repeatability.

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

The following activities have been completed:

The TWRS Functions and Requirements Document were issued and a System Requirements Review completed. This constitutes the technical baseline. Excellent progress is now being made on the Management System documentation necessary for qualification as a Major System Acquisition (MSA). The Cost and Schedule Baselines have been prepared and submitted to RL for review.

The Program Plan (PP), Program Management Plan (PMP) and the Program Management System Description (PMSD) are all in draft form. The PMSD annexes have all been written and are in the review/comment resolution phase. The Integrated Technology Plan (ITP) and the Systems Engineering Management Plan (SEMP) were issued for review and comment.

The Systems Engineering Working Procedures (SEWP) were issued. Training WHC TWRS employees in the systems engineering process is essentially complete.

The Environment, Safety and Quality Management Plans were prepared and issued for approval.

Completed selection of the TWRS EIS contractor.

The WHC TWRS first Staffing Analysis was completed and the Staffing Plan issued.

Data Verification Plan.

Systems Engineering Management Plan.

CURRENT YEAR (FY 1994) DESCRIPTION

The TWRS Program management and Administrative objectives and goals for FY 1994 are principally focused toward implementation of functions and requirements for the TWRS Program. The technical baseline has been established in terms of program technical requirements and is being integrated into the overall Hanford Site mission through the Integrated Planning Process. Specific activities include:

Performance of the overall financial management functions for the TWRS Program.

Completion of the TWRS PP, PMP, Program Management System Description (PMSD), and the FY 1996 Five Year Plan.

Completion of the systems engineering management goals of implementing the systems engineering training program and publication of several of the systems engineering-related plans to include: The TWRS PP, the TWRS SEMP,

~~NARRATIVE Continued~~

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the TWRS Functions and Requirements Document, and the TWRS ITP. Execution of the Baseline Management elements including preparation FY 1995 Multi Year Plans, monthly publication of the Performance Tracking System and Site Management Systems reports, and presentation of the Monthly Management Performance Reviews.

Coordinate and integrate the TWRS Environmental, Safety and Health compliance activities and interface with DOE and Ecology to assure timely and accurate communication on regulatory issues. Coordinate public scoping hearings on the TWRS EIS. Prepare an Environmental, Safety, Health and Total Quality Management Annexes and Integrating Procedures for the RL Program Management System Descriptions. Coordinate Tri-party Agreement related activities and provide program-level regulatory planning and assessment support.

Finalization of the TWRS Environmental Compliance Program Plan, the TWRS NEPA Compliance Strategy Plan, and the TWRS EIS background data packages.

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

The Planning Case adequately funds activities needed to be fully compliant with Tri-Party Agreement and other higher directives. However, some activities with potential for indirect impacts were left unfunded. Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget Request. The delta change from the President's budget is (\$5,971K), resulting in a new total of \$44,315K. These adjustments may require a FY 1995 budget amendment.

Specific activities planned for the various elements of Program Management and Administration are:

Program/Baseline Management:

The scope of this program element supports the development and maintenance of the multi-year baseline which is fully documented in the Program Management Plan. Additionally, this work includes overview functions to assure consistency of consolidated data to all reporting entities. RCRA

Permit Implementation:

Implements the final Hanford Facility RCRA permit. Compliance is required with terms and conditions of RCRA Permit 30 days after issuance.

Environmental, Health, Safety, and Quality Assurance:

Provide for overall integration and oversight of ESH&QA activities conducted by the TWRS program to assure compliance is achieved. A schedule and logic will be established that addresses WHC ES&H audit activities.

Systems Engineering:

TWRS Strategic Planning and Systems Integration includes analyses of system structures under a variety of technical cost and schedule conditions which can be used as a basis for selection among architectures. This activity will maintain databases and analytical capability to support the development and implementation of the TWRS Program.

PNL Technology and Program Office:

PNL has been assigned the responsibility to develop and manage the TWRS Integrated Technology Program.

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Environmental Impact Statement:

Gather engineering data and prepare technical documents to support the TWRS-EIS contractor and the issuance of the ROD.

Projects Integration:

The Project Integration area of Program Management and Integration will coordinate project validation activities and change control administration.

Readiness Review Management:

Manages the formal ORR for all TWRS activities.

Reengineering & Support:

Continue prosecution of productivity initiatives, development of annual staffing plan, Qualification and Training plans, and the Acquisition Plan.

Communications and Building Management:

Provides division-level communications, administration, employee recognition, and building administration.

Public Involvement:

Provides limited planning for mandatory public-level public-involvement activities.

Information Resources Management:

Provides for the establishment and maintenance of a TWRS centralized information resources management system.

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

The planning case adequately funds activities needed to be compliant with Tri-Party Agreement and other higher directives, however some activities with the potential for indirect impacts are left unfunded.

Program/Baseline Management:

Continue activities as described under technical content and FY 1995 description. Maintain the TWRS Program Plan and Program Management Plan and maintain and control the program baseline as technology is developed and deployment decisions are made.

RCRA Permit Implementation:

Continue RCRA permit implementation and modifications as described in the technical content and FY 1995 description. Continue management of TWRS permits and issuance of supporting documentation.

Environmental, Health, Safety, and Quality Assurance:

Continue activities described under technical content and the FY 1995 description. Coordinate ESH&QA activities and provide required support to meet TWRS EIS commitments.

Systems Engineering:

Continue activities as described under technical content and FY 1995 description.

PNL Technology and Program Office:

Continue activities described under technical content and FY 1995 description.

Projects Integration:

Continue activities as described under technical content and FY 1995 description.

Readiness Review Management:

Continue to manage the formal Operational Readiness Review (ORR) for all

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TWRS activities as described in the technical content and FY 1995 description.

Reengineering and Support:

Continue prosecution of productivity initiatives, development of annual staffing plan, Qualification and Training plans, and the Acquisition Plan as described in the technical content and FY 1995 description. Training and Qualification:

Continue activities as described in the technical content in the FY 1995 description.

Communications and Building Management:

Continues to provide division-level communications, administration, employee recognition, and building administration as described in the technical content and FY 1995 description.

Public Involvement:

Continues to provide limited planning for mandatory public-level involvement activities as described in the technical content and FY 1995 description.

Information Resources Management:

Continues to provide for maintenance of a TWRS centralized information resources management system including computer databases, document control, records management, and the Scientific Engineering Computing Center as described in the technical content and FY 1995 description.

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

Program/Baseline Management:

Continue to support the maintenance of management systems and the multi-year baseline as described in the technical content and the FY 1995 description.

Environmental, Health, Safety, and Quality Assurance:

Continue to coordinate ESH&QA activities and permitting modifications with DOE and Ecology as described in the technical content and FY 1995 description.

Systems Engineering:

Continue to analyze system structures under a variety of technical cost and schedule conditions which can be used as a basis for selection among architectures as described in the technical content and FY 1995 description.

PNL Technology and Program Office:

Continue work involving the coordination of all TWRS technology needs for the various functional areas and the selection, evaluation, and integration of the technical development activities as described in the technical content and FY 1995 descriptions.

Environmental Impact Statement:

Support final response to comments on the TWRS EIS and issuance of the Record of Decision (ROD) and preparation of the Mitigation Action Plan.

Projects Integration:

Continue activities as described in the technical content and the FY 1995 description.

Readiness Review Management:

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Continue activities as described in the technical content and the FY 1995 description.

Reengineering and Support:

Continue activities as described in the technical content and the FY 1995 description.

Training and Qualification:

Continue activities as described in the technical content and the FY 1995 description.

Communications and Building Management:

Continue activities as described in the technical content and the FY 1995 description.

Public Involvement:

Continue activities as described in the technical content and the FY 1995 description.

Information Resources Management:

Continue activities as described in the technical content and the FY 1995 description.

Impacts/Assumptions(Limit 42 lines or less):

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate through the application of more efficient processes, or through cost avoidance.

Supporting Documents(Limit 5 lines or less):

National Environmental Policy Act of 1969 (NEPA), Hanford Federal Facility and Consent Agreement, Resource Conservation and Recovery Act of 1976 (RCRA), DOE Order 4140.1, DOE Order 4700.1, DOE Order 5440.1E, DNFSB Recommendation 92-4, 10 CFR 1021; 10 CFR 1022, Washington State Environmental Policy Act, WAC 197-11, 232-12, 332-30, 332-41.

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 were submitted under separate cover.

DESCRIPTION OF REGULATORY DRIVERS

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DOE:

Various DOE Orders provide and /or implement best management practices for policy and guidance to TWRS Program Management. The work scope, cost, and schedule are a direct result of conforming to these various orders.

NEPA R:

Application of NEPA to the sub project activities is to ensure that potential impact of assessments and cleanup activities are identified.

RCRA:

RCRA provides Ecology enforcement authority for those units managing, treating, storing, or disposing of hazardous waste under RCRA.

ST:

There are various other state regulations and requirements that pertain to waste management, environmental, and administrative issues.

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TRI:

The Tri Party Agreement, an agreement and schedule between DOE, EPA and Ecology, provides guidance for various activities related to the cleanup and closure of past waste and processing sites at Hanford.

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Operations Office: RL ID No.: 1210- 0 Revision Date: 4/27/1994
 ADS Title: WASTE RETRIEVAL
 WBS No.: 1.3.7.2.9 Category: WM Appr.:
 Project Title: WASTE RETRIEVAL (94-D-40 Facility/WAG: 200 areas
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: MEYER, GA Phone: 509-372-3683
 O.O. Manager: BL NICOLL Phone: 509-376-6006
 H.Q. Manager: MOCKNICK, J Phone: 301-903-5028
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

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

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: 3004U: TSCA: CERCLA: NEPA:
 DOE: IAG: OSHA: ORD: ST : TRI : FED : 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	11,855	17,656		A	2,337	26,824	26,824	0
CE	200	509		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	12,055	18,165		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	2,337	26,824	26,824	0

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	1,837
CE	500
GPP	0
LI	0
TOTAL	2,337

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	26,324	30,214	70,497	62,399	86,525
CE	500	0	0	0	0
GPP	0	0	0	0	0
LI	0	10,700	21,100	22,100	18,200
TOTAL	26,824	40,914	91,597	84,499	104,725

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	26,324	30,214	70,497	62,399	86,525
CE	500	0	0	0	0
GPP	0	0	0	0	0
LI	0	10,700	21,100	22,100	18,200
TOTAL	26,824	40,914	91,597	84,499	104,725

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: RICHLAND TANK WASTE REMED SYS-NFP						FY96 DRIVER CATEGORY									
SUB-DESC: PROGRAM: EM SUBACT: AA						DECREMENT	TARGET	PLAN	IMM RISK						
TITLE: SST RETRIEVAL PROJECT															
APPROP: D															
B&R	FY94	APPR	FY95	PRES	FY95	APPR	A	B	C	D	E	F	G	H	I
EW3130010	0		0				0	500	500						
35EW31301	200		509				0	0	0						
39EW31301	0		0				0	0	0						
39EW31301	0		0				0	0	0						
TOTAL	200		509				0	500	500						

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	0
35EW31301	0
39EW31301	0
39EW31301	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	0	0	0	0	0
35EW31301	500	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	10,700	21,100	22,100	18,200
TOTAL	500	10,700	21,100	22,100	18,200

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	0	0	0	0	0
35EW31301	500	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	10,700	21,100	22,100	18,200
TOTAL	500	10,700	21,100	22,100	18,200

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Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: ZZ				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: RETRIEVAL							
APPROP: D							
			A	2,337	26,324	26,324	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
			D	0	0	0	0
EW3130010	11,855	17,656		E	0	0	0
35EW31301	0	0		F	0	0	0
39EW31301	0	0		G	0	0	0
39EW31301	0	0		H	0	0	0
			I	0	0	0	0
TOTAL	11,855	17,656		TOTAL	2,337	26,324	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	1,837
35EW31301	500
39EW31301	0
39EW31301	0
TOTAL	2,337

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	26,324	30,214	70,497	62,399	86,525
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	26,324	30,214	70,497	62,399	86,525

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	26,324	30,214	70,497	62,399	86,525
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	26,324	30,214	70,497	62,399	86,525

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Al06 Cross References

Al06 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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1210-00-0025 TPA MS NO.: _____
Title: Validate the SST Test Facility Project
Planning Date Target Date Decrement Date Level: CNTR Keyword:
3/01/1994 3/01/1994 PTS: N SMS: N
Driver Name: TRI Driver Reference: TPA
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description: _____

Milestone No.: _____ Milestone Seq: 1210-00-0010 TPA MS NO.: _____
Title: Release final Phase 2 SST Leak Report
Planning Date Target Date Decrement Date Level: CNTR Keyword:
3/31/1994 3/31/1994 PTS: N SMS: N
Driver Name: TRI Driver Reference: TPA
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description: _____

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MILESTONES Continued

Milestone No.: Milestone Seq: 1210-00-0065 TPA MS NO.:
Title: Complete CDR for Long Reach Arm Manipulator (LRM)
Planning Date Target Date Decrement Date Level: CNTR Keyword:
3/31/1994 3/31/1994 PTS: N SMS: N
Driver Name: TRI Driver Reference: TPA
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1210-00-0115 TPA MS NO.:
Title: Complete FDS and 50 Lites Pilot Scale Retrieval System Tests
Planning Date Target Date Decrement Date Level: CNTR Keyword:
9/02/1994 9/02/1994 PTS: N SMS: N
Driver Name: TRI Driver Reference: TPA
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1210-00-0015 TPA MS NO.:
Title: Issue Solid Waste Handling Engineer Study
Planning Date Target Date Decrement Date Level: CNTR Keyword:
9/30/1994 9/30/1994 PTS: N SMS: N
Driver Name: TRI Driver Reference: TPA
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1210-00-0080 TPA MS NO.:
Title: Reach Decision to Proceed with the Sub-Surface Barrier Demo.
Planning Date Target Date Decrement Date Level: Keyword:
1/31/1995 1/31/1995 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
Issue a letter documenting decision on whether to proceed with a sub-scale demonstration.

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Milestone No.: Milestone Seq: 1210-00-0120 TPA MS NO.:
Title: Start Conceptual Design and Complete NEPA Documentation
Planning Date Target Date Decrement Date Level: CNTR Keyword:
9/02/1995 9/02/1995 PTS: N SMS: N
Driver Name: TRI Driver Reference: TPA
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1210-00-0030 TPA MS NO.:
Title: Complete Definitive Design for the SST Test Facility
Planning Date Target Date Decrement Date Level: CNTR Keyword:
9/30/1996 9/30/1996 PTS: N SMS: N
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:

Milestone No.: Milestone Seq: 1210-00-0040 TPA MS NO.:
Title: Submit annual updates to SST Retrieval Sequence Document.
Planning Date Target Date Decrement Date Level: Keyword:
9/30/1996 9/30/1996 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
Submit the Single-Shell Tank Retrieval Sequence Document that defines the Tank Selection Criteria, Tank Selection Rationale, Reference Retrieval Methods for each tank, and the Estimated Retrieval Schedules.

Milestone No.: Milestone Seq: 1210-00-0100 TPA MS NO.:
Title: Complete Preliminary Concept Dev. for Selected Alternat. System
Planning Date Target Date Decrement Date Level: CNTR Keyword:
9/30/1996 9/30/1996 PTS: N SMS: N
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:

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Milestone No.: Milestone Seq: 1210-00-0070 TPA MS NO.:
Title: Complete Definitive Design Site Support for LRM
Planning Date Target Date Decrement Date Level: CNTR Keyword:
12/31/1997 12/31/1997 PTS: N SMS: N
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:

Milestone No.: Milestone Seq: 1210-00-0020 TPA MS NO.:
Title: Issue Advanced Leak Study Report
Planning Date Target Date Decrement Date Level: CNTR Keyword:
7/30/1998 7/30/1998 PTS: N SMS: N
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:

Milestone No.: Milestone Seq: 1210-00-0140 TPA MS NO.:
Title: Submit annual update of SST Sequence Document for Ecology Approv.
Planning Date Target Date Decrement Date Level: Keyword:
9/30/1998 9/30/1998 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
Submit an updated Single-Shell Retrieval Sequence Document to DOE-RL for approval by Ecology.

Milestone No.: Milestone Seq: 1210-00-0075 TPA MS NO.:
Title: Complete LRM Placement and Site Construction
Planning Date Target Date Decrement Date Level: CNTR Keyword:
4/30/1999 4/30/1999 PTS: N SMS: N
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:

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Milestone No.: Milestone Seq: 1210-00-0105 TPA MS NO.:
Title: Complete Testing and Evaluation of Selected Alternative Systems
Planning Date Target Date Decrement Date Level: CNTR Keyword:
9/30/1999 9/30/1999 PTS: N SMS: N
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:

Milestone No.: Milestone Seq: 1210-00-0145 TPA MS NO.:
Title: Submit annual updates of SST Sequence Documents for Ecology Aprv.
Planning Date Target Date Decrement Date Level: Keyword:
9/30/1999 9/30/1999 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
Submit annual update of Single-Shell Retrieval Sequence Document to DOE-RL for Ecology approval.

Milestone No.: Milestone Seq: 1210-00-0110 TPA MS NO.:
Title: Complete Second Generation Arm Based System Development and Test
Planning Date Target Date Decrement Date Level: CNTR Keyword:
10/30/1999 10/30/1999 PTS: N SMS: N
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:

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Milestone No.: Milestone Seq: 1210-00-0150 TPA MS NO.:
Title: Submit annual updates of SST Sequence Document for Ecology Approv
Planning Date Target Date Decrement Date Level: Keyword:
9/30/2000 9/30/2000 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
Submit annual update of Single-Shell Tank Retrieval Sequence Document for Ecology approval.

NARRATIVE

LAST UPDATE: 04-27-1994 TIME: 12:47:01 .

Technical Scope Summary(Limit 15 line or less):

Provide integration of waste retrieval activities; including program element management, planning, retrieval technology and applied engineering development, systems engineering, and retrieval support activities. Perform system definition tasks; including functions and requirements, engineering and trade studies, criteria development, initial NEPA and safety documentation, conceptual designs, and tank closure requirements. Establish and administer projects to install retrieval systems in Double Shell Tanks (DST), Single Shell Tanks (SST), and Miscellaneous Underground Storage Tanks (MUST). Perform startup testing and readiness reviews on completed projects. Operate the retrieval systems to transfer DST waste to permit storage volume of retrieved wastes for other waste storage tanks and supply waste to treatment and disposal facilities. Interchange concepts and information with other TWRS program elements to support resolution of safety issues, obtain necessary waste characterization data, and definition of upgrades necessary to support retrieval.

Technical Scope Detail(Limit 104 lines or less):

The waste retrieval program element is responsible for retrieving waste from Underground Storage Tanks (USTs) to the degree required for tank closure. To this end activities are necessary to mobilize and remove waste from the USTs and enable transport of the waste to various facilities for storage, treatment, or disposal; conduct all activities necessary to develop and demonstrate methodologies to retrieve the waste; and retrieve the waste contained in double-shell tanks (DSTs), single-shell tanks (SSTs), and the designated miscellaneous underground storage tanks (MUSTs). Included is the design, installation, and operation of the equipment required to remove waste from the USTs, the related upgrades and/or replacement of the tank farm infrastructure and local transfer lines not provided by the Tank Farm Upgrades Program (ADS 1120) when required to support retrieval. Priority is given to resolution of tank safety issues.

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This ADS provides regulatory requirements assessments; system engineering determination of functions and requirements for USTs waste retrieval; engineering trade studies to evaluate retrieval and tank closure options; engineering development of techniques for mobilizing, conditioning waste for transfer, and containment; system definition for projects to install waste retrieval systems; conduct waste retrieval operations; residual waste assessments looking at immobilizing and confining residual waste in tanks; and performance assessment to demonstrate near-term and long-term performance of engineered disposal systems.

Incorporated as part of this ADS is the

- integration of waste retrieval activities, including program element management, planning, retrieval technology development, systems engineering, and retrieval support activities;
- the engineering and development required to support waste retrieval;
- identifying the waste characterization data requirements, review of waste characterization data, general laboratory testing, bench scale testing, equipment development for DST and SST retrieval equipment development and demonstration, computer modeling, technology integration with the retrieval projects, establishing initial design basis, resolving design and concept development issues, integrating the technology with the retrieval projects;
- other non-project specific mixer pump development for DST retrieval; - sluicing and ARM based waste retrieval systems enhancements and alternatives;
- the evaluation of technologies to minimize the environmental impact due to waste tank remediation and underground waste leak mitigation, e.g., leak detection instrumentation and sub-surface barriers;
- the performance of project definition tasks, including:
 - formal engineering studies,
 - criteria development,
 - NEPA and safety documentation,
 - functional design requirements, and
 - conceptual designs;
- the preparation of tank closure plans, and supporting engineering development, technology development, and performance assessment relative to waste tank closure.

Specific areas where retrieval system definitions underway are providing for training of retrieval operations and maintenance staff and testing of SST and DST retrieval systems; providing the waste retrieval systems necessary to complete retrieval of wastes from tank 241-C-106, following sluicing operations in tank 241-C-106 installed under the 106-C sluicing project, deployment of long-reach manipulators; providing the basis for the SST Closure Demonstration by defining basis for design, procurement, construction and startup of retrieval systems and supporting systems necessary to meet TPA milestone M-45-04, 'Initial SST Retrieval Systems' and retiring retrieval facilities and turn over to ER for closure; and

~~NARRATIVE Continued~~

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~~NARRATIVE Continued~~

providing design basis for facilities and equipment to retrieve wastes from MUSTs.

Also included is the operation of the retrieval systems to transfer waste to provide tank storage volume and supply waste to treatment and disposal facilities. And as part of the retrieval function is the section to provide equipment to retrieve quantities of tank waste suitable for pilot scale pretreatment process development tests, and for treatment (HLW and LLW) waste form qualification.

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

Establish retrieval logic networks, schedules, and cost estimates; issue FY 1994 integrated waste retrieval program plan. Provide systems engineering inputs to the TWRs program baseline documents. Issue final technical development strategy and complete technical evaluation of improved mixer pump concepts for DST retrieval. Complete construction and acceptance testing of the 1/4-scale test facility. Complete draft procurement specifications input for long-reach manipulator retrieval system. Submit documentation to the State to fulfill the M-45-01 Tri-Party Agreement milestone. Prepare the functions and requirements for the small volume retrieval system and procure SRS small volume sampler. Define the testing and training requirements for SST retrieval. Complete the feasibility study for sub-surface barrier application.

Tank closure work scope in FY 1994 includes development of logics, schedules, and cost estimates for closure, preparation of responses to Ecology comments on the draft documents relating to closure that were prepared to support TPA negotiations in FY 1993, assessment of status of previous engineering studies and regulatory analysis relating to SST closure, and development of preliminary parameters upon which to base performance assessment of tanks to be closed with residual waste (including allocation of any site-wide risk-based performance criteria). Initiate integration activities with EM-40 program relative to tank closure.

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

Prepare waste retrieval inputs to ADS, MYPP, and Fiscal Year Work Plan. Manage preparation of retrieval logic networks, schedules, and cost estimates. Prepare Cost Account Authorizations consistent with detailed schedules. Support external reviews. Update Retrieval Program Plan.

A Test Plan and Test Procedure will be written for the 1996 process test of the mixer pump retrieval system to be installed in Tank 241-AZ-101. To ensure that information on mixer pump performance will be monitored, documented and fed back as data points into the mobilization and uniformly tasks and follow-on retrieval projects.

Work will continue on the alternate/enhanced technologies program to

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identify, develop, and evaluate new, advanced approaches to retrieving wastes from SSTs. Develop & evaluate feasibility of arm based retrieval technologies; Identify, develop, and evaluate end effectors and conveyance systems applicable to C-106 arm based retrieval; and Identify, develop, and evaluate enhancements to the reference SST retrieval technologies. With the selected high shear retrieval system a test plan will be developed for 1/4-scale testing.

Trade studies will be performed for the retrieval function. A CDR will be prepared based on the functions and requirements for training and testing retrieval systems. Support will be provided for the TWRS baseline flowsheet, updates to the tank sequence will be done to address emergent changes.

Award Contract to LRM System vendor to complete conceptual design of a long reach manipulator system. Initiate Advanced conceptual design of support systems for installations of the LRM at Tank 241-C-106.

An engineering trade study will be conducted to continue identification and evaluation of alternatives for disposal of residual waste in SSTs, DSTs, and MUSTs that was started in the draft 1991 study, WHC-EP-0405. A regulatory requirements assessment will be conducted, building on the FY 1993 draft study, WHC-EP-0630, and laying out a strategy for resolving existing regulatory uncertainty. Continue integration activities with EM-40 program. The SST Closure Work Plan will be updated to reflect the TWRS technical strategy for tank waste disposal.

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. The delta change from the President's budget is \$5,995K, resulting in a new total of \$18,165K. These adjustments may require a FY 1995 budget amendment.

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

Prepare waste retrieval inputs to ADS, MYPP, Fiscal Year Work Plan. Manage preparation of retrieval logic networks, schedules, and cost estimates. Prepare Cost Account Authorizations consistent with detailed schedules. Support external reviews.

For the Decrement Case all workscope beyond the program definition, planning, and integration within this ADS is curtailed, the following workscope is for the Target Case.

Technology development activities supporting Tank Waste Retrieval Projects and retrieval of high shear strength sludge such as sludge mobilization, slurry uniformity, aerosol/vapor generation and slurry transport will be continued. Work will continue to Develop & evaluate feasibility of arm based retrieval technologies in support of future arm based retrieval

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~~NARRATIVE Continued~~

projects; identify, develop, and evaluate end effectors and conveyance systems applicable to future arm based retrieval projects; identify, develop, and evaluate enhancements and alternatives to the reference SST retrieval technologies. Test support and data evaluation will be provided for the NCAW retrieval process test beginning in FY 1996. Emphasis will be upon investigating enhanced/alternative technologies to the point that commercial development can be pursued. Forces will be on technologies development for support of SST Waste Retrieval activities.

Functions and requirements documents will be developed for waste retrieval from SST tanks for the tank farm closure demonstration project. DST/SST/MUST retrieval sequence will be revised to address emergent changes.

LRM prototype development and evaluation testing will be started. The site support CDR to install the LRM system at Tank 241-C-106 will be completed. The design of production unit long reach manipulator system will be started. Site Support Definitive Design will be completed. Site equipment to support installation of long reach manipulator will be delivered and installed.

Building on the two-dimensional deterministic performance assessment completed in FY 1995, a two-dimensional probabilistic performance assessment will be conducted for SSTs closed with varying amounts of residual waste, taking credit for in-tank waste immobilization concepts and protective barriers, relative to applicable performance parameters. Selected candidate concepts for immobilizing and confining waste in SSTs will be further evaluated, including preliminary definition of concepts for field testing on tank mockups using simulated waste. Continue integration activities with ER-40 program. The SST Closure Work Plan will be updated to reflect evolution of the strategy for SST closure.

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

Prepare waste retrieval inputs to ADS, MYPP, Fiscal Year Work Plan. Manage preparation of retrieval logic networks, schedules, and cost estimates. Prepare Cost Account Authorizations consistent with detailed schedules.

Technology development activities supporting Tank Waste Retrieval Projects and retrieval of high shear strength sludge such as sludge mobilization, slurry uniformity, aerosol/vapor generation and slurry transport will be continued; along with the demonstration and evaluation of arm based retrieval technologies feasibility in support of future arm based retrieval projects; demonstrate and evaluate end effectors and conveyance systems applicable to future arm based retrieval projects; and develop and evaluate enhancements alternatives to the reference SST retrieval technologies.

Emphasis will be upon investigating enhanced/alternative technologies to the point that commercial development can be pursued. Forces will be on

~~NARRATIVE Continued~~

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NARRATIVE Continued

technologies development for support of SST Waste Retrieval activities.

Functions and requirements documents will continue to be developed for waste retrieval from SST/DST and MUST tanks for the tank farm closure demonstration project.

LRM prototype development and evaluation testing will continue. The design of production unit long reach manipulator system will continue.

Establish a baseline TWRS position on degree of waste retrieval required to close SSTs, based on results of performance assessment, and interactions with regulatory authorities and EM-40 program. Complete evaluate alternatives for in-place disposal of residual waste in underground storage tanks, and select the preferred candidate(s) for technology development and demonstration. Award contract for conducting field demonstration of tank waste immobilization, confinement, and subsidence-prevention, and conduct test. Present results of performance assessment and field testing to regulators. Reach consensus with regulators on criteria and methodology for tank closure. The SST Closure Work Plan will be updated to reflect evolution of the strategy for SST closure.

Impacts/Assumptions(Limit 42 lines or less):

The Decrement Case suspends all work scope except program definition, planning, and integration. Serious programmatic continuity results from the Decrement Case, such as delay in DST retrieval project design, no improvements in reliability to current DST baseline systems; delay of the 1st Generation ARM SST Retrieval system and TPA Milestone M-45-03; delay of TPA M-45-04, providing the initial SST retrieval systems, and the necessary project upgrades; delay in performing the DST mixing process tests; essentially the retrieval effort only performs work on the Tanks 241-C-106 and 241-SY-101 retrieval systems.

At the Target Case, the amount of residual waste that will be allowed to remain in SSTs, DSTs, and MUSTs for in-place disposal will depend on analysis of the long-term performance of disposal systems, and ability to demonstrate compliance with applicable regulations. Disposal of the hazardous waste component of residual wastes will be subject to Washington State Department of Ecology regulation under WAC 173-303. Disposal of the radioactive component of residual wastes will be subject to NRC and DOE regulation as high-level, low-level, and/or TRU waste. Accordingly, a high degree of uncertainty presently exists pertaining to closure requirements, retrieval technology development required to meet closure requirements, and engineering development of techniques required for immobilization and confinement of residual waste.

Current federal and state regulations do not require sub-surface barriers for the operation and closure of the Hanford SSTs. Sub-surface barriers may be required by the regulators as a condition of continued waste storage in SSTs or as a condition of permitting sluicing retrieval of waste from SSTs. Installations of sub-surface barriers may impact closure options,

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schedules, and costs, particularly is the barriers must be removed during closure. Target funding supports the TPA milestone, M-45-07, Complete Evaluation and demonstration testing of subsurface barriers by 9/97, and the Grumbly Safety Initiative to start sub-surface barrier demonstration testing by 10/95.

Outyear target budgets may require a re-sequencing of Project W-211 tank priorities, with the Decrement Case focus on mitigation of Tank 241-SY-101 only.

Funding from the TD program (EM-50) is required to evaluate, develop, and demonstrate technologies; primarily for the ARM systems. If this work is not performed, plans for retrieval projects will be impacted. The TD program will not support all required demonstration functions. Supplemental WM (EM-30) funding is required for limited field implementation of TD develop technologies, as well as for the evaluation and development of retrieval systems unique to Hanfords SST's.

Supporting Documents(Limit 5 lines or less):

Retrieval Program Document File: e.g., F&R Documents, Supplemental Design Requirements Document, Conceptual Design Reports, Engineering and Trade Studies, TWRS Baseline, Planning Documents, etc. Tri-Party Agreement, Hanford Federal Facility Agreement and Consent Order, Milestones M-45-00:07.

Performance Measures(Limit 15 lines or less):

Use the milestones identified last year, plus:

Award procurement of 1st Generation manipulator retrieval system - 7/95
Perform Conceptual Design for 1st Generation Manipulator System- 7/95
Design Only Validation for 1st Generation Manipulator System- 3/95 Get Key Decision #0, Justification of New Start for 1st Generation Manipulator System - 7/95
Complete Conceptual Design and Conceptual Design Report for 1st Generation Manipulator System- 1/96
Perform Advanced Conceptual Design and component testing for 1st Generation Manipulator System- 3/96

LAST UPDATE: 05-07-1993 TIME: 14:07:19

01. TECHNICAL SCOPE
02. ACT. COMP TO DATE
03. CUR YR FY93 DESC
04. BUD YR FY94 DESC
05. PLN YR FY95 DESC
06. OUT YR FY96-99 DESC
07. KEY ASSUMPTIONS
08. KEY ISSUES AND UNCER
09. REG DRVS/SCOPE/CONSE

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- 10. LEGAL NOT IN TARGET
- 11. MGMT PRAC NOT IN TAR

~~DESCRIPTION OF REGULATORY DRIVERS~~

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Page: 1
 Date: 6/01/1994 Time: 10:49

Operations Office: RL ID No.: 1210- 1 Revision Date: 4/21/1994
 ADS Title: DST STORAGE AGING WASTE TRANSFER LINES
 WBS No.: 1.3.7.2.4 Category: Appr.:
 Project Title: TANK FARM UPGRADES Facility/WAG: 200 Areas
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: HARMON, HD Phone: 509-373-4724
 O.O. Manager: GERTON, RE Phone: 509-376-9106
 H.Q. Manager: MOCKNICK, J Phone: 301-903-5028
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 100 TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: CWA: N SDWA: N RCRA: 3004U: N TSCA: N CERCLA: N NEPA: N
 DOE: IAG: N OSHA: N ORD: N ST : TRI : N FED : 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
TOTAL	0	0	0	0	0

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
TOTAL	0	0	0	0	0

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:					FY96 DRIVER CATEGORY			
SUB-DESC:	PROGRAM:	SUBACT:	DECREMENT	TARGET	PLAN	IMM	RISK	
TITLE:								
APPROP:					0	0	0	0
			A	0	0	0	0	0
			B	0	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0	0
				D	0	0	0	0
	0	0		E	0	0	0	0
	0	0		F	0	0	0	0
	0	0		G	0	0	0	0
	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
	0
	0
	0
	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

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: 04-27-1994 TIME: 11:11:10

Technical Scope Summary(Limit 15 line or less):

Technical Scope Detail(Limit 104 lines or less):

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

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

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

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

Impacts/Assumptions(Limit 42 lines or less):

Supporting Documents(Limit 5 lines or less):

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 were submitted under separate cover.

LAST UPDATE: 05-06-1993 TIME: 07:29:39

01. TECHNICAL SCOPE

Project 90-D-172, W-028, Aging Waste Transfer Lines, will design and construct new waste transfer lines linking the 241-A Tank Farm system with planned treatment facilities to provide feed for vitrification; B Plant to provide the support cleanout of contaminated B Plant equipment and facilities; and to potentially link the Initial Pretreatment Module. This project will replace some of Hanford's single containment waste lines with state-of-the-art pipe-in-pipe waste lines for pretreatment and vitrification missions. These lines are needed to avoid potential health, safety, and environmental impacts during the transfer of tank wastes.

02. ACT. COMP TO DATE

All project related documentation for W-028, with the exception of Definitive Design, has been completed. Documentation includes the Engineering Study, Functional Design Criteria, and Conceptual Design Report; Definitive Design was initiated in FY 1990.

03. CUR YR FY93 DESC

Definitive Design will be re-started in FY 1993. The requirements of this project have been re-evaluated because of the decision not to use B-Plant for pretreatment of tank wastes, and due to the Secretary of Energy's decision to create the Tank Waste Remediation System (TWRS). The routing and design of this line is now based on the revised needs of the TWRS and other planned transfer line upgrades being considered, and has been

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integrated with project W-058 (ADS 1120-04, Replacement of Cross Site Transfer System). The delay in completion of this project will meet the anticipated need date and assure construction is consistent with revised transfer line needs.

04. BUD YR FY94 DESC

Definitive Design activities will continue during FY 1994. Procurement activities will be initiated during FY-94. Design criteria will be modified to be consistent with the scope changes instituted in support of the TWRS.

05. PLN YR FY95 DESC

Planning year workscope is covered in ADS 1120-07.

06. OUT YR FY96-99 DESC

Outyears workscope is covered in ADS 1120-07.

07. KEY ASSUMPTIONS

New transfer lines to B Plant are required to support D&D activities.

08. KEY ISSUES AND UNCER

09. REG DRVS/SCOPE/CONSE

DOE Notice 5400.1, General Environmental Protection Policy Program DOE Order 5480.1B, Environment, Safety and Health Program for DOE Operations
DOE Order 5820.2A, Radioactive Waste Management
DOE Order 6430.1A, General Design Criteria
DOE Order 4700.1, Project Management System
Washington Administrative Code, WAC 173-303, Dangerous Waste Regulations

TPA milestone M-03 will not be met if this subactivity is not funded because there would be no means to transport wastes to HWVP. This would also violate the Hanford Defense Waste EIS Record of Decision.

Project W-028 also supports TPA Milestone M-31, Additional Double Shell Tank Capacity.

10. LEGAL NOT IN TARGET

11. MGMT PRAC NOT IN TAR

~~NARRATIVE Continued~~

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DESCRIPTION OF REGULATORY DRIVERS

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Page: 1
 Date: 6/01/1994 Time: 10:50

Operations Office: RL ID No.: 1210- 2 Revision Date: 4/27/1994
 ADS Title: 101-AZ RETRIEVAL SYSTEM PROJECTS (W-151)
 WBS No.: 1.3.7.2 Category: WM Appr.:
 Project Title: TANK WASTE REMEDIATION S Facility/WAG: 200 Areas
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: MEYER, GA Phone: 509-372-3683
 O.O. Manager: BL NICOLL Phone: 509-376-6006
 H.Q. Manager: MOCKNICK, J Phone: 301-903-5028
 Auxilliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 33 TRU: 33 TRU MIX: 33 LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: N CWA: N SDWA: N RCRA: 3004U: N TSCA: N CERCLA: N NEPA: N
 DOE: IAG: N OSHA: N ORD: N ST : N TRI : 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	1,021	1,392		A 0	256	256	0
CE	500	2,035		B 0	0	0	0
GPP	0	0		C 0	0	0	0
LI	2,000	5,000		D 0	0	0	0
				E 0	0	0	0
TOTAL	3,521	8,427		F 0	0	0	0
				G 0	0	0	0
				H 0	0	0	0
				I 0	0	0	0
				TOTAL 0	256	256	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	256	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	256	0	0	0	0

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	256	0	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	256	0	0	0	0

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: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: AD				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: W-151 Tank 101-AZ Waste Retrieval							
APPROP: D							
B&R	FY94 APPR	FY95 PRES	FY95 APPR	A	B	C	D
EW3130010	1,021	1,392		0	0	256	256
35EW31301	500	2,035		0	0	0	0
39EW31301	0	0		0	0	0	0
39EW31301	2,000	5,000		0	0	0	0
TOTAL	3,521	8,427		0	0	256	256

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	0
35EW31301	0
39EW31301	0
39EW31301	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	256	0	0	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	256	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	256	0	0	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	256	0	0	0	0

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Al06 Cross References

Al06 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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1210-02-0005 TPA MS NO.: _____
Title: Complete W-151 Definitive Design
Planning Date Target Date Decrement Date Level: FO Keyword:
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: Y Safety and Health: N
Description:

Milestone No.: _____ Milestone Seq: 1210-02-0010 TPA MS NO.: _____
Title: Complete Construction for W-151
Planning Date Target Date Decrement Date Level: CNTR Keyword:
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: Y Safety and Health: N
Description:
Complete construction and equipment placement ready for system readiness review.

MILESTONES Continued

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~~MILESTONES Continued~~

Milestone No.: Milestone Seq: 1210-02-0015 TPA MS NO.: M-02-04
Title: Start W-151 NCAW Retrieval Process Test
Planning Date Target Date Decrement Date Level: FO Keyword:
12/31/1996 12/31/1996 PTS: N SMS: N
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 Milestone #M-02-04, start double shell tank NCAW retrieval system process test (1210-2).

~~NARRATIVE~~

LAST UPDATE: 05-02-1994 TIME: 11:11:03

Technical Scope Summary(Limit 15 line or less):

This activity is to demonstrate mixer pump operation and sludge mobilization of NCAW waste in Tank 241-AZ-101, to develop equipment and procedures for removal of tank internal components, to obtain test data on tank parameters during mixer pump operations, and evaluate in-tank sludge washing for pretreatment. Mixer pumps are identified as the baseline retrieval technology for DSTs. Information obtained during this first demonstration of mixer pump operations will validate the basis for subsequent DST retrieval activities. Operation of mixer pumps in Tank 101-AZ will start the double-shell tank NCAW process test in FY 1997.

Technical Scope Detail(Limit 104 lines or less):

This project (92-D-177 [W-151, 101-AZ Retrieval System]) will install two 300 hp mixer pumps and associated control systems in Tank 241-AZ-101; a waste transfer pump will be purchased but not installed. These two pumps are to mobilize the solids as a process test with actual Hanford tank waste. Tank 101-AZ contains approximately 970,000 gallons of Neutralized Current Acid Waste (NCAW) including approximately 55,000 gallons of settled solids. The retrieval process includes suspending the tank solids in the liquid using high-volume liquid mixer pumps for waste mobilization.

The process test will evaluate the mixer pumps as the technology to suspend solids for future removal. Each mixer pump draws in slurry from the bottom of the tank and discharges the fluid horizontally through two opposing 18 inches from the bottom of the tank. Simultaneously, the nozzle assemble rotates slowly to sweep the entire projection area of the tank bottom. Equipment which must be present during mixer pump operation, such as thermocouples and dry wells, will be strengthened or redesigned to withstand the expected pump forces produced by the pump discharge. Additional monitoring and control systems will be installed to measure

~~NARRATIVE Continued~~

Environmental Management
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Activity Data Sheet

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Date: 6/01/1994

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~~NARRATIVE Continued~~

performance of the mixer pumps and Tank 101-AZ operation. Systems will be developed to denominate the existing equipment as it is removed from the tank and placed into burial containers (the 42' flex receiver).

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

Long lead procurements (e.g., mixer pumps) started in prior years will continued throughout the year. Completed construction will include electrical and utility upgrades. Completed engineering will include all definitive designs on retrieval system components plus a SARP for burial/storage of retrieved hardware from Tank 101-AZ. New work will include initiation of bid and contract award for burial/storage boxes.

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

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. The delta change from the President's budget is \$3,321K, resulting in a new total of \$8,426K. These adjustments may require a FY 1995 budget amendment.

Started will be personnel training for hardware retrieval operation; construction of tank modification; and removal, replacement, and disposal of specific in-tank hardware. Mixer pumps will be delivered and installed. SARPs will be completed and equipment removal activities will be started. The project informal readiness reviews will also be started.

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

Tank and infrastructure modifications necessary for testing the mixer pumps sludge mobilization system will be completed. Preparation of test program operating procedures.

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

Readiness review completed and process conducted in FY 1997.

Impacts/Assumptions(Limit 42 lines or less):

Tank 241-AZ-101 solids are representative of Hanford tank sludges. Two mixer-pumps are adequate for sludge mobilization.

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unite rate, or the application of more efficient processes, or through cost avoidance.

Supporting Documents(Limit 5 lines or less):

~~NARRATIVE Continued~~

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NARRATIVE Continued

Project Document File: e.g., Functional Design Criteria, Supplemental Design Requirements Document, Conceptual Design Report, Quality Assurance Project Plan, Project Management Plan, etc.

Performance Measures(Limit 15 lines or less):

Complete W-151 Definitive Design 06/30/94
Complete Construction of W-151 9/30/95
Start W-151 NCAW Retrieval Process Test 12/31/96

ADS ID: 121002

LAST UPDATE: 05-08-1993 TIME: 09:00:00

01. TECHNICAL SCOPE
02. ACT. COMP TO DATE
03. CUR YR FY93 DESC
04. BUD YR FY94 DESC
05. PLN YR FY95 DESC
06. OUT YR FY96-99 DESC
07. KEY ASSUMPTIONS
08. KEY ISSUES AND UNCER
09. REG DRVS/SCOPE/CONSE
10. LEGAL NOT IN TARGET
11. MGMT PRAC NOT IN TAR

DESCRIPTION OF REGULATORY DRIVERS

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RL-1210-3 - Date: 6/01/1994

Operations Office: RL ID No.: 1210- 3 Revision Date: 4/27/1994
 ADS Title: W-211, INITIAL TANK RETRIEVAL SYSTEMS
 WBS No.: 1.3.7.2.25 Category: WM Appr.:
 Project Title: INITIAL TANK RETRIEVAL S Facility/WAG:
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: MEYER, GA Phone: 509-372-3683
 O.O. Manager: BL NICOLL Phone: 509-376-6006
 H.Q. Manager: MOCKNICK, J Phone: 301-903-5028
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

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

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: 3004U: TSCA: CERCLA: NEPA:
 DOE: IAG: OSHA: ORD: ST : TRI : FED : 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	1,996	1,867		A	19,209	19,209	19,209	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	7,000	7,455		D	0	0	0	0
				E	0	0	0	0
TOTAL	8,996	9,322		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	19,209	19,209	19,209	0

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	1,666
CE	0
GPP	0
LI	17,543
TOTAL	19,209

Environmental Management
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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	1,666	2,747	2,695	2,365	2,688
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	17,543	24,000	21,500	22,600	24,700
TOTAL	19,209	26,747	24,195	24,965	27,388

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	1,666	2,747	2,695	2,365	2,688
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	17,543	24,000	21,500	22,600	24,700
TOTAL	19,209	26,747	24,195	24,965	27,388

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
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Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP					FY96 DRIVER		CATEGORY	IMM RISK
SUB-DESC: PROGRAM: EM SUBACT: AE					DECREMENT	TARGET	PLAN	
TITLE: W-211, Initial Tank Retrieval Sys								
APPROP: D								
				A	19,209	19,209	19,209	0
				B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0	0
				D	0	0	0	0
EW3130010	1,996	1,867		E	0	0	0	0
35EW31301	0	0		F	0	0	0	0
39EW31301	0	0		G	0	0	0	0
39EW31301	7,000	7,455		H	0	0	0	0
				I	0	0	0	0
TOTAL	8,996	9,322		TOTAL	19,209	19,209	19,209	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	1,666
35EW31301	0
39EW31301	0
39EW31301	17,543
TOTAL	19,209

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	1,666	2,747	2,695	2,365	2,688
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	17,543	24,000	21,500	22,600	24,700
TOTAL	19,209	26,747	24,195	24,965	27,388

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	1,666	2,747	2,695	2,365	2,688
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	17,543	24,000	21,500	22,600	24,700
TOTAL	19,209	26,747	24,195	24,965	27,388

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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1210-03-0015 TPA MS NO.: _____
Title: Complete Conceptual Design For W-211
Planning Date Target Date Decrement Date Level: CNTR Keyword:
2/28/1994 2/28/1994 PTS: N SMS: N
Driver Name: TRI Driver Reference: TPA
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:

Milestone No.: _____ Milestone Seq: 1210-03-0020 TPA MS NO.: _____
Title: Complete Title I Design On W-211 Package 1
Planning Date Target Date Decrement Date Level: CNTR Keyword:
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: Y Safety and Health: N
Description:

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1210-03-0025 TPA MS NO.:
Title: Complete Title II Design On W-211 Package 1
Planning Date Target Date Decrement Date Level: CNTR Keyword:
6/30/1996 6/30/1996 PTS: N SMS: N
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:

Milestone No.: Milestone Seq: 1210-03-0030 TPA MS NO.:
Title: Operational Readiness Complete For 101-SY Retrieval
Planning Date Target Date Decrement Date Level: CNTR Keyword:
12/31/1997 12/31/1997 PTS: N SMS: N
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:

Milestone No.: Milestone Seq: 1210-03-0035 TPA MS NO.:
Title: Operational Readiness Complete For 102-AY Retrieval
Planning Date Target Date Decrement Date Level: CNTR Keyword:
6/30/1998 6/30/1998 PTS: N SMS: N
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:

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1210-03-0040 TPA MS NO.:
Title: Operational Readiness Complete For W-211 Package 2
Planning Date Target Date Decrement Date Level: CNTR Keyword:
6/30/1999 9/30/2005 PTS: N SMS: N
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:

NARRATIVE

LAST UPDATE: 04-27-1994 TIME: 12:55:33

Technical Scope Summary(Limit 15 line or less):

Project W-211, Initial Tank Retrieval Systems, includes design, procurement, and construction of waste retrieval systems for ten double-shell tanks (DST). This project will provide mixer pumps to mobilize the tank contents, and transfer pumps for removal of the waste. Ancillary equipment and facility systems modifications will also be provided to support the retrieval and transfer of waste from the storage tanks. The retrieval of tank waste is driven by the urgency to remediate tanks safety issues, meet TPA milestones to proceed with the processing and disposal of Hanford waste, and to support the management of available tank storage space.

Technical Scope Detail(Limit 104 lines or less):

The scope of Project W-211 is split into three major packages. The first package includes tanks 101-SY, 102-SY, and 101-AW and is scheduled to initiate design in FY 1994. The second package includes tanks 103-AN, 104-AN, 105-AN, and 106-AN and is scheduled to initiate design in FY 1999 under the planning case funding level. The third package includes tanks 102-AZ, 102-AY, and 101-AP and is scheduled to initiate design in FY 2003 under the planning case funding level. This tank sequence is subject to program priorities, but is based on remediating the Watch List Tanks (hydrogen gas generation) first, Packages 1 and 2.

Project activities will be limited to providing retrieval upgrades for three tanks, Package 1. Work would proceed on providing retrieval systems for the remaining seven tanks after the ADS window, in FY 2001.

The project is to install high horsepower mixer pumps to mobilize solids in the tanks, associated control system, and a waste transfer pump. A new substation and underground duct banks will be provided, except for the

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~~NARRATIVE Continued~~

AY/AZ complex. Tank internal components, such as thermocouple trees and dry wells, will be replaced with higher strength equipment to withstand the forces induced by the mixer pumps. Additional monitoring and control systems will be installed to measure performance of the mixer pumps and tank operation. Remote decontaminated equipment and disposable contaminated equipment will be packaged for storage and disposal as solid waste. Dilution transfer system will be installed for removal of the tank contents, and equipment will be provided as required to remove excess heat generated by the mixer pumps.

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

A Project Activities Plan document (WHC-SD-W211-PAP-001) was completed on May 5, 1992, for the use in the validation of FY 1994 funding. An engineering Study (WHC-SD-W211-ES-001) was issued on November 3, 1992. The Project W-211 Justification of Mission Need was approved on January 19, 1993, representing completion of Key Decision 0.

The functional design criteria document (WHC-SD-W211-FDC-001) was approved on August 16, 1993. The project has completed two Conceptual Design Reports (CDR), the first WHC-SD-W211-CDR-001 for the retrieval system for tank 241-SY-101 was completed on September 14, 1993. The second CDR WHC-SD-W211-CDR-002 which covered the retrieval systems for the other nine tanks was approved on February 25, 1994.

The conceptual design and supporting preliminary safety evaluation documentation was completed for 101-SY to support Key Decision 1 and OMB reviews. Conceptual design on the remaining nine tanks was completed on February 28, 1994. A SA for the entire project is on going as well as permitting and NEPA activities. Other activities include technology studies related to the Package 1 tanks and development of the project management structure (i.e. Project Plan, PMP, QAPP, etc.). The Title 1 Design will start as soon as KD-1 approval is obtained. The design activity has a six month duration and was scheduled to start on January 4, 1994.

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

Title II design and advanced procurement will be conducted for Tank 241-SY-101. The project Safety Assessment Documentation will be concluded. Permitting activities will continue. Other technology studies will be on going. Other activities include: drawing configuration, verification, and site investigation.

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. The delta change from the President's budget is (\$12,438K), resulting in a new total of \$9,322K. These adjustments may require a FY 1995 budget amendment.

~~NARRATIVE Continued~~

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~~NARRATIVE Continued~~

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

All work will be placed on hold. For the Planning Case, Title II design will be completed for Tank 241-SY-101 and initiated for Tank 241-SY-103. Advanced procurement for Tanks 101-SY and 103-SY will be on going. Upon key decision three onsite construction activities will be initiated for Tank 101-SY. Other activities to include permitting, safety assessments, drawing configuration, and site investigation work will continue for out year tank work.

Growth in FY 1996 is attributed to the Title II design, advanced procurement, and construction activity for the Package I retrieval systems.

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

All work will be placed on hold. For the Planning Case, Title II design, construction, permitting, and safety assessment documentation will be completed for Package I. Operational readiness activities will be completed for Tank 101-SY retrieval system.

Impacts/Assumptions(Limit 42 lines or less):

The target level funding profile will not support the development of the Retrieval systems planned for the double shell tanks that are on the flammable gas safety watch list. The target level funding would cause a major impact on the construction of the retrieval system for Tank 101-SY. This would slip the schedule on remediation of the safety issue associated with Tank 101-SY. The following Planning Case milestones would be delayed 4 years:

Complete Title II Design on W-211 Package 1	10/03/98
Complete Operational Readiness Review for 101-SY waste Retrieval	7/20/98
Complete Operational Readiness Review for 103-SY waste Retrieval	10/26/99

Resolution of tank waste safety issues will require actions from this activity. Double-shell slurry and double-shell slurry feed tanks will require removal of solids prior to transfer of other waste types into these Pretreatment and tanks. The LLWVP Facilities will start-up in 2004 and the HLWVP Facility will start-up in 2009.

Mixer pumps will perform adequately to remove wastes form the tanks included in this project.

Changes in the tank retrieval sequence can be accommodated within project schedule and cost estimate contingencies.

~~NARRATIVE Continued~~

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NARRATIVE Continued

The NEPA Documentation for Tanks 101-SY, 103-SY, and 104-AN will be covered under the MWTF-EIS and the remaining tanks are to be covered under the TWRS-EIS.

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unite rate, or the application of more efficient processes, or through cost avoidance.

Supporting Documents(Limit 5 lines or less):

Project Document File: e.g., Functional Design Criteria, Supplemental Design Requirements Document, Conceptual Design Report, Quality Assurance Project Plan, Project Management Plan, etc.

Performance Measures(Limit 15 lines or less):

Complete Title I Design on W-211 Package 1	9/30/94
Complete Title II Design on W-211 Package 1, 101-SY	9/30/95
Initiate Advanced Procurement Package 1, 101-SY	10/3/94

LAST UPDATE: 05-08-1993 TIME: 09:14:08

01. TECHNICAL SCOPE
02. ACT. COMP TO DATE
03. CUR YR FY93 DESC
04. BUD YR FY94 DESC
05. PLN YR FY95 DESC
06. OUT YR FY96-99 DESC
07. KEY ASSUMPTIONS
08. KEY ISSUES AND UNCER
09. REG DRVS/SCOPE/CONSE
10. LEGAL NOT IN TARGET
11. MGMT PRAC NOT IN TAR

DESCRIPTION OF REGULATORY DRIVERS

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 RL-1210-4 - Date: 6/01/1994 Time: 10:53

Operations Office: RL ID No.: 1210- 4 Revision Date: 4/27/1994
 ADS Title: W-320 106-C SLUICING
 WBS No.: 1.3.1.1.3 Category: WM Appr.:
 Project Title: WASTE MIN. PLANNING (DEF Facility/WAG: 200East
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: MEYER, GA Phone: 509-372-3683
 O.O. Manager: BL NICOLL Phone: 509-376-6006
 H.Q. Manager: MOCKNICK, J Phone: 301-903-5028
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 33 TRU: 33 TRU MIX: 33 LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: N CWA: N SDWA: N RCRA: 3004U: N TSCA: N CERCLA: N NEPA: N
 DOE: IAG: N OSHA: N ORD: N ST : N TRI : 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	22,059	18,962	A	10,168	10,168	10,168	0
CE	2,500	610	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	24,559	19,572	F	0	0	0	0
			G	0	0	0	0
			H	0	0	0	0
			I	0	0	0	0
			TOTAL	10,168	10,168	10,168	0

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	10,168
CE	0
GPP	0
LI	0
TOTAL	10,168

Environmental Management
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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	10,168	1,373	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	10,168	1,373	0	0	0

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	10,168	1,373	0	0	0
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	0	0
TOTAL	10,168	1,373	0	0	0

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: RICHLAND TANK WASTE REMED SYS-NFP						FY96 DRIVER		CATEGORY	
SUB-DESC: PROGRAM: EM SUBACT: AM						DECREMENT	TARGET	PLAN	IMM RISK
TITLE: W-320, 106-C Sluicing									
APPROP: D									
					A	10,168	10,168	10,168	0
					B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR		C	0	0	0	0
					D	0	0	0	0
EW3130010	22,059	18,962			E	0	0	0	0
35EW31301	2,500	610			F	0	0	0	0
39EW31301	0	0			G	0	0	0	0
39EW31301	0	0			H	0	0	0	0
					I	0	0	0	0
TOTAL	24,559	19,572			TOTAL	10,168	10,168	10,168	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	10,168
35EW31301	0
39EW31301	0
39EW31301	0
TOTAL	10,168

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	10,168	1,373	0	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	10,168	1,373	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	10,168	1,373	0	0	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
TOTAL	10,168	1,373	0	0	0

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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1210-04-0015 TPA MS NO.: _____
Title: Complete Program Management Documentation For Project W-320
Planning Date Target Date Decrement Date Level: CNTR Keyword:
4/01/1994 4/01/1994 PTS: N SMS: N
Driver Name: TRI Driver Reference: TPA
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description: _____

Milestone No.: _____ Milestone Seq: 1210-04-0020 TPA MS NO.: _____
Title: Complete Definitive Design For Project W-320
Planning Date Target Date Decrement Date Level: CNTR Keyword:
2/01/1995 2/01/1995 PTS: N SMS: N
Driver Name: TRI Driver Reference: TPA
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description: _____

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1210-04-0025 TPA MS NO.:
Title: Complete Long Lead Procurement For Project W-320
Planning Date Target Date Decrement Date Level: CNTR Keyword:
4/01/1995 4/01/1995 PTS: N SMS: N
Driver Name: TRI Driver Reference: TPA
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: Y Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1210-04-0030 TPA MS NO.:
Title: Complete Construction On Project W-320
Planning Date Target Date Decrement Date Level: CNTR Keyword:
8/01/1996 8/01/1996 PTS: N SMS: N
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:

Milestone No.: Milestone Seq: 1210-04-0035 TPA MS NO.:
Title: Initiate Retrieval Of Waste From Tank 241-C-106
Planning Date Target Date Decrement Date Level: CNTR Keyword:
12/01/1996 12/01/1996 PTS: N SMS: N
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:

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1210-04-0005 TPA MS NO.:
Title: Initiate Sluicing Retrieval of C-106.
Planning Date Target Date Decrement Date Level: Keyword:
10/31/1997 10/31/1997 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: Program Execution Guidance:
Roadmap: Current Year Workplan: Safety and Health:
Description:
Issue a letter Documenting the start of Tank 241-C-106 Retrieval.

NARRATIVE

LAST UPDATE: 04-27-1994 TIME: 12:56:30

Technical Scope Summary(Limit 15 line or less):

The Tank 241-C-106 Sluicing Project provides the facilities and equipment to demo retrieval of the first Single Shell Tank (SST). Tank 241-C-106 is a 530,000 gal capacity SST located in the C-Tank Farm in the 200E Area of the Hanford Site. The tank was first put into use in 1947. In the late 1960's Tank 241-C-106 received approx. 132,000 gal of high-heat waste. In 1971, temperatures in excess of 99°C (210°F) were observed in the tank. The plan in response to the Wyden Amendment identified Tank 241-C-106 as the fourth priority 1 safety issue. Mobilization and removal of the heat-generating sludge in Tank 241-C-106 will resolve the high-heat safety issue in this SST. The Tank 241-C-106 Sluicing Project will use tank-to-tank sluicing, an existing tech. This process will provide the earliest resolution of the high-heat safety issue. Removal of the heat-generating sludge allows cooling waste additions to cease. After sluicing, Tank 241-C-106 can be placed in a safe, interim stabilized state.

Technical Scope Detail(Limit 104 lines or less):

This activity will provide the facilities and equipment to demonstrate retrieval of the first Single Shell Tank (SST). Tank 241-C-106 is a 530,000 gallon capacity SST located in the C-Tank Farm in the 200 East Area of the Hanford Site. The tank has been used for radioactive waste storage since 1947.

Between mid-1963 and mid-1969 Tank 2410C-106 received approximately 132,000 gallons of high-heat waste, including neutralized Plutonium-Uranium Extraction (PUREX) high-level waste and strontium-bearing solids from the strontium and cesium recovery program. In 1971, temperatures in excess of 99°C (210°F) were observed in the tank, The current decay heat generation rate has been calculated at (approx. 110,000Btu/hr). To prevent the sludge from drying out and the tank from overheating, approximately 6,000 gallons

NARRATIVE Continued

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of cooling water are added to the tank each month. Tank 241-C-106 was withdrawn from active service in 1979 and is categorized as sound (i.e., not known to be leaking).

Public law 101-510 Section 3137 (Wyden Amendment), passed in November 1990, directs the Secretary of Energy to resolve and report to Congress on all the safety issues concerning waste tanks at Hanford. The waste tanks with a serious potential for release of high-level nuclear waste must have action plans for resolution of safety concerns. In response to the Wyden Amendment, "A Plan to Implement Remediation of Waste Tank Safety Issues at the Hanford Site," WHC-SP-0697 (September 1991), was submitted to the DOE-HQ as part of the report to congress. The plan identified a list of 23 Hanford Site waste tank safety issues. The high-heat waste stored in tank 241-C-106 is the fourth priority 1 safety issue in the report to Congress.

The Hanford Federal Facility Agreement and Consent Order (Washington State Department of Ecology, et al., 1989), also known as the Tri-Party Agreement, includes milestones to demonstrate SST retrieval. Milestone M-45-03A, "Initiate Sluicing Retrieval of 106-C," "October 1997, requires waste retrieval from Tank 241-C-106 as the initial phase of SST closure. From the Tri-Party Agreement compliance baseline the project schedule was accelerated by one year to implement the Grumbly safety initiative for retrieving the waste from 106-C, to start October 1996.

Mobilization and removal of the heat-generating sludge in Tank 241-C-106 will resolve the high-heat safety issue in this SST. Tank-to-tank sluicing, an existing technology, involves injection of large quantities of low pressure (150psi) water into the SST through two spray nozzles. The water dislodges the sludge and forms a slurry that is pumped from the SST to a double-shell receiver tank (DST). The heavy solids will settle in the DST and the lighter supernatant will be recirculated as sluicing liquid back to the SST. This process will provide the earliest closure of the high-heat safety issue. Removal of the heat-generating sludge allows cooling waste additions to cease.

This will allow operations to place Tank 241-C-106 in a safe, interim stabilized state. Additional retrieval operations can proceed using alternate technology, as required, to achieve the designated Tri-Party Agreement M-45-T01 Milestone goal of 99% waste retrieval.

This project scope includes:

- Engineering Studies;
- Tank inspections and structural analysis;
- FDC completion;
- Field walkdowns/existing equipment removal;
- NEPA documentation;
- Permitting documentation;
- Validation;

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- DST modifications and equipment additions;
- Safety documentation;
- Definitive Design;
- Procurement and Construction;
- System turnover, start-up testing and ORR's.

Act. Comp. to Date/Current Year (FY 1994) Desc.(Limit 52 lines or less):
The NEPA (EA) documentation will be approved.

The definitive design will continue throughout the year with initiation of long lead procurement of the HVAC, transfer and retrieval systems.

The SST Part A permit will be developed, reviewed and approved by DOE, and submitted to Ecology for review and approval. In addition, the DST Part B permit modification will also be initiated.

The Project Management documentation will be completed including all required reviews and approvals, and submitted to DOE-RL for review/approval.

The PSE and PSEL documentation will be issued upon incorporation of all comments. The SAR work will continue throughout the year, including development of the DST FSAR, which will be initiated.

The CAA permit application will be submitted for approval from EPA, Ecology, and DOE.

The old equipment from Tanks 241-C-106 and 241-AY-102 will be removed and disposed.

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

Approval of the RCRA SST Part A modification will be obtained, and modification of the RCRA SAT Part B permit application for the transfer system will be completed.

Definitive design of the transfer, HVAC, and retrieval systems will be completed along with the initiation of construction of these systems, Long-Lead procurement items associated with the transfer, HVAC, and retrieval systems will be completed to support the ongoing construction of these systems.

The Tank analysis work in support of the safety documentation will be completed.

The SAR documentation will be completed, reviewed, and comments incorporated and issued; including the addendum to the DST FSAR.

~~NARRATIVE Continued~~

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Planning documentation for operational start-up, including training of personnel, and readiness reviews will be initiated.

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. The delta change from the President's budget is (\$1,263K), resulting in a new total of \$19,572K. These adjustments may require a FY 1995 budget amendment.

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

The construction activities associated with the transfer, HVAC, and retrieval systems will be completed. The ATP for the above systems will be performed. Operations will continue their preparation for retrieval operations; which includes operator training, readiness reviews, and performing OTP's.

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

All operational activities associated with preparation for retrieval of the waste will be completed (FY 1997).

The initiation of retrieving waste from Tank 241-C-106 will commence, thus meeting TPA milestone M-45-03A and the early resolution of the Tank 106-C safety initiative (10/96).

Impacts/Assumptions(Limit 42 lines or less):

Regulators must concur with the RCRA Part A permit and tank closure planning.

The current schedule for this project assumes that an EA will be the required NEPA documentation. If an EIS is required, it is assumed that the scope will be covered under ADS 1200.

Safety documentation for this project will consist of PSE, PSEL, and limited scope safety analysis.

All of the W-320 project scope is a combination of expense and CENRTC funding. Retrieval operations are expected to be completed within one year of start-up. Any equipment which has beneficial use after completion of radioactive operations will be capitalized at that time.

The Tank 241-C-106 retrieval demonstration will provide equipment design and operational data that can be used for the initial tank farm demonstration.

Additional issues associated with Project W-320 include the potential of tank leaking during the sluicing operation the implementation of leak

~~NARRATIVE Continued~~

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detection along with surface and/or subsurface barriers; and tank closure in relationship with TPA Milestone M-45-00.

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unite rate, or the application of more efficient processes, or through cost avoidance.

Supporting Documents(Limit 5 lines or less):

Project Document File: e.g., Functional Design Criteria, Supplemental Design Requirements Document, Conceptual Design Report, Quality Assurance Project Plan, Project Management Plan, etc.

Performance Measures(Limit 15 lines or less):

Start Construction	8/31/94
Complete Definitive Design For Project W-320	12/31/94 Begin
Readiness Review	4/01/95 Complete
Construction on Project W-320	3/31/96 Initiate Retrieval of
Waste From Tank 241-C-106	10/31/96

LAST UPDATE: 05-08-1993 TIME: 09:36:10

01. TECHNICAL SCOPE
02. ACT. COMP TO DATE
03. CUR YR FY93 DESC
04. BUD YR FY94 DESC
05. PLN YR FY95 DESC
06. OUT YR FY96-99 DESC
07. KEY ASSUMPTIONS
08. KEY ISSUES AND UNGER
09. REG DRVS/SCOPE/CONSE
10. LEGAL NOT IN TARGET
11. MGMT PRAC NOT IN TAR

DESCRIPTION OF REGULATORY DRIVERS

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Operations Office: RL ID No.: 1220- 0 Revision Date: 5/31/1992
 ADS Title: PRETREATMENT
 WBS No.: 1.3.7.2.10 Category: WM Appr.:
 Project Title: WASTE PRETREATMENT Facility/WAG: .200 Areas
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: MILLER, WC Phone: 509-372-0255
 O.O. Manager: ANTONEN, JH Phone: 509-376-7591
 H.Q. Manager: MARK, D Phone: 301-903-5028
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

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

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: 3004U: TSCA: CERCLA: NEPA:
 DOE: IAG: OSHA: ORD: ST : TRI : FED : 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	24,315	23,505		14,702	22,150	22,150	0	
CE	0	0		0	0	0	0	
GPP	0	0		0	0	0	0	
LI	0	0		0	0	0	0	
				0	0	0	0	
TOTAL	24,315	23,505		0	0	0	0	
				0	0	0	0	
				0	0	0	0	
				0	0	0	0	
				0	0	0	0	
				TOTAL	14,702	22,150	22,150	0

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	14,702
CE	0
GPP	0
LI	0
TOTAL	14,702

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	22,150	26,147	39,730	26,905	18,594
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	6,954	3,192
TOTAL	22,150	26,147	39,730	33,859	21,786

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	22,150	26,147	39,660	26,905	18,594
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	0	0	0	6,954	3,192
TOTAL	22,150	26,147	39,660	33,859	21,786

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
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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1220-00-0085 TPA MS NO.: _____
Title: Revise Pretreatment Technology Plan for New TWRS Strategy
Planning Date Target Date Decrement Date Level: CNTR Keyword: T
3/31/1994 3/31/1994 PTS: N SMS: N
Driver Name: _____ Driver Reference: _____
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: _____ Milestone Seq: 1220-00-0175 TPA MS NO.: M-50-03A
Title: Define Additional Milestones for Waste Pretrmnt-Sludge Separation
Planning Date Target Date Decrement Date Level: FO Keyword: T
9/30/1994 9/30/1994 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
Development of a schedule leading to the decision whether advanced sludge separation processes are required. Based on this schedule, additional milestones will be proposed to lead to the completion of Milestone M-50-03.

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1220-00-0065 TPA MS NO.: M-50-03
Title: Issue Report on Current Status of Tank Waste Enhanced Sludge Wash
Planning Date Target Date Decrement Date Level: FO Keyword: T
10/31/1994 10/31/1994 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

Report on Hanford progress in Enhanced Sludge Washing. Plan will be issued that defines the tests to be performed on Hanford tank sludges. And laboratory tests on Hanford sludges will be presented with expected impacts on HLW Vitrification.

Milestone No.: Milestone Seq: 1220-00-0025 TPA MS NO.: M-50-01
Title: Issue Reports on Cesium Removal with Resorcinol and Cs-100 Resins
Planning Date Target Date Decrement Date Level: FO Keyword: T
12/31/1994 12/31/1994 PTS: N SMS: N
Driver Name: TRI Driver Reference: TRI Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

This milestone will be satisfied when the progress reports for cesium removal performance of Resorcinol and Cs-100 Resins on multiple feeds are completed, and together with the associated flowsheets are transmitted to DOE-RL.

Milestone No.: Milestone Seq: 1220-00-0070 TPA MS NO.: M-02-T07
Title: Initiate Settling Tests for NCAW In-Tank Solids Washing
Planning Date Target Date Decrement Date Level: FO Keyword: T
12/31/1994 12/31/1994 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri-Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

Milestone No.: Milestone Seq: 1220-00-0080 TPA MS NO.:
Title: Revise Pretreatment Technology Plan Based on FY 1994 Experience
Planning Date Target Date Decrement Date Level: CNTR Keyword: T
3/31/1995 3/31/1995 PTS: N SMS: N
Driver Name: Driver Reference:
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: 1220-00-0075 TPA MS NO.:
Title: Complete Construction of Cold Continuous Solvent Extraction Unit
Planning Date Target Date Decrement Date Level: CNTR Keyword: T
9/30/1995 9/30/1995 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0090 TPA MS NO.:
Title: Complete Piloting of Ion Exchange Process For Cesium Removal
Planning Date Target Date Decrement Date Level: CNTR Keyword: T
9/30/1995 9/30/1995 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0160 TPA MS NO.: M-50-03
Title: Submit Report Summarizing Testing of Enhanced Sludge Washing
Planning Date Target Date Decrement Date Level: FO Keyword: T
9/30/1995 9/30/1995 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
Perform testing of enhanced sludge washing and related tank waste sludge pretreatment methods using actual waste samples. Document and issue results of testing completed to date. Report on preliminary immobilization sequences and

Milestone No.: Milestone Seq: 1220-00-0165 TPA MS NO.: M-50-03
Title: Submit Report Summarizing Testing of Enhanced Sludge Washing
Planning Date Target Date Decrement Date Level: FO Keyword: T
9/30/1996 9/30/1996 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
Perform testing of enhanced sludge washing and related tank waste sludge pretreatment methods using actual tank waste. Issue results of testing completed to date. Report will also document preliminary immobilization sequences and blending

MILESTONES Continued

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Milestone No.: Milestone Seq: 1220-00-0170 TPA MS NO.: M-50-03
Title: Submit Report Summarizing The Testing of Enhanced Sludge Washing
Planning Date Target Date Decrement Date Level: FO Keyword: T
9/30/1997 9/30/1997 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:
Perform testing of enhanced sludge washing and related tank waste sludge pretreatment methods using actual waste. Issue results of testing completed to date. Document preliminary immobilization sequences and blending strategies.

Milestone No.: Milestone Seq: 1220-00-0010 TPA MS NO.: M-50-04
Title: Submit Conceptual Design of HLW Pretreatment Facility
Planning Date Target Date Decrement Date Level: FO Keyword: T
3/31/1998 3/31/1998 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:
This milestone will be satisfied with the transmittal of the contractor approved Conceptual Design Report (CDR) for the HLW Pretreatment Facility incorporating RL comments.

Milestone No.: Milestone Seq: 1220-00-0060 TPA MS NO.: M-50-03
Title: Complete Evaluation of Enhanced Sludge Washing
Planning Date Target Date Decrement Date Level: FO Keyword: T
3/31/1998 3/31/1998 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:
Performance of sludge washing and related tank waste sludge pretreatment methods will be evaluated to determine if these processes will be capable of satisfying criteria which will be established by the three parties prior to the milestone date.

Milestone No.: Milestone Seq: 1220-00-0015 TPA MS NO.: M-50-04
Title: Initiate Definitive Design of HLW Pretreatment Facility
Planning Date Target Date Decrement Date Level: FO Keyword: T
11/30/1998 11/30/1998 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:
This milestone will be satisfied when work is initiated on definitive design for the HLW Pretreatment Facility.

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MILESTONES Continued

Milestone No.: Milestone Seq: 1220-00-0115 TPA MS NO.:
Title: Complete Technetium Removal Conceptual Design
Planning Date Target Date Decrement Date Level: FO Keyword: T
8/31/1996 9/30/1999 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0095 TPA MS NO.:
Title: Complete Technetium Removal Requirements Analysis
Planning Date Target Date Decrement Date Level: CNTR Keyword: T
9/30/1996 9/30/2000 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0100 TPA MS NO.:
Title: Complete Nitrate Removal Requirements Analysis
Planning Date Target Date Decrement Date Level: CNTR Keyword: T
9/30/1995 9/30/2000 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0105 TPA MS NO.:
Title: Complete Organic Destruction Requirements Analysis
Planning Date Target Date Decrement Date Level: CNTR Keyword: T
9/30/1998 9/30/2000 PTS: N SMS: N
Driver Name: Driver Reference:
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: 1220-00-0120 TPA MS NO.:
Title: Complete Strontium Removal Conceptual Design
Planning Date Target Date Decrement Date Level: FO Keyword: T
2/29/1996 3/31/2001 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0130 TPA MS NO.:
Title: Complete Nitrate Removal Conceptual Design
Planning Date Target Date Decrement Date Level: FO Keyword: T
8/31/1994 4/30/2001 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0020 TPA MS NO.: M-50-04
Title: Start Construction of HLW Pretreatment Facility
Planning Date Target Date Decrement Date Level: FO Keyword: T
6/30/2001 6/30/2001 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
This milestone will be satisfied with the transmittal of Section 1 of Official
Acceptance of Construction (OAC) for the HLW Pretreatment Facility to DOE-RL.

Milestone No.: Milestone Seq: 1220-00-0110 TPA MS NO.:
Title: Complete Strontium Removal Requirements Analysis
Planning Date Target Date Decrement Date Level: CNTR Keyword: T
9/30/1996 9/30/2001 PTS: N SMS: N
Driver Name: Driver Reference:
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: 1220-00-0125 TPA MS NO.:
Title: Complete Organic Destruction Conceptual Design
Planning Date Target Date Decrement Date Level: FO Keyword: T
9/30/1999 9/30/2001 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0135 TPA MS NO.:
Title: Complete Technetium Removal Preliminary Design
Planning Date Target Date Decrement Date Level: FO Keyword: T
9/30/1998 4/30/2002 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0045 TPA MS NO.:
Title: Initiate Sludge Washed Feed Prep. for HWVP Bench Scale Melter
Planning Date Target Date Decrement Date Level: FO Keyword: T
3/31/1998 4/30/2003 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0040 TPA MS NO.:
Title: Comp. Sludge Treatment Process Option & Alt. for Further Dev.
Planning Date Target Date Decrement Date Level: CNTR Keyword: T
10/31/1995 7/31/2003 PTS: N SMS: N
Driver Name: Driver Reference:
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: 1220-00-0145 TPA MS NO.:
Title: Complete Nitrate Removal Preliminary Design
Planning Date Target Date Decrement Date Level: FO Keyword: T
8/31/1997 3/31/2004 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0140 TPA MS NO.:
Title: Complete Strontium Removal Preliminary Design
Planning Date Target Date Decrement Date Level: FO Keyword: T
9/30/1999 9/30/2004 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0180 TPA MS NO.: M-50-02
Title: Start Hot Operations of LLW Pretreatment Facility
Planning Date Target Date Decrement Date Level: FO Keyword: T
12/31/2004 12/31/2004 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
This milestone will be satisfied when the Operational Testing Report (OTR) for the LLW Pretreatment Facility Module 1 has been approved by DOE-RL and radioactive waste is transferred into the facility.

Milestone No.: Milestone Seq: 1220-00-0050 TPA MS NO.: M-02
Title: Begin Sludge Wash Operations
Planning Date Target Date Decrement Date Level: FO Keyword: T
9/30/1997 9/30/2005 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri-Party Agreement
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: 1220-00-0150 TPA MS NO.:
Title: Complete Nitrate Removal Detailed Design
Planning Date Target Date Decrement Date Level: FO Keyword: T
8/31/1999 3/31/2006 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0155 TPA MS NO.:
Title: Complete In-Tank Washing of 106-C Waste
Planning Date Target Date Decrement Date Level: HQ Keyword: T
12/31/1998 4/30/2007 PTS: N SMS: N
Driver Name: Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1220-00-0185 TPA MS NO.: M-50-04
Title: Start Hot Operations of HLW Pretreatment Facility
Planning Date Target Date Decrement Date Level: FO Keyword: T
6/30/2008 6/30/2008 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
This milestone will be satisfied when the Operational Testing Report (OTR) for the
HLW Pretreatment Facility has been approved by DOE-RL and radioactive waste is
transferred into the facility.

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Milestone No.: Milestone Seq: 1220-00-0005 TPA MS NO.: M-50-00
Title: Complete Pretreatment Processing of Hanford Tank Waste
Planning Date Target Date Decrement Date Level: FO Keyword: T
12/31/2028 12/31/2028 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Pary Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

This milestone will be satisfied when the Pretreatment Tank Waste processing is complete, the plants are shut down and the facilities are transferred to the Environmental Restoration Program for decommissioning.

~~NARRATIVE~~

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Technical Scope Summary(Limit 15 line or less):

The purpose of waste pretreatment is to separate Hanford tank waste into two streams; (1) a low-level radioactive waste stream containing the bulk of the chemicals for vitrification in the Low Level Waste (LLW) vitrification facility, and (2) a high-level radioactive waste stream containing the bulk of the radionuclides for vitrification in the High Level Waste (HLW) vitrification facility. This ADS provides the technical integration and planning; systems definition; technology development and applied engineering; high-level waste pretreatment; and pretreatment facility operations required to separate Hanford tank waste into HLW and LLW fractions. Low level waste pretreatment facility design, construction and startup is included in the scope of ADS 1280, W-236B Initial Pretreatment Module. Also included in the scope of ADS 1280 is the facility design, fabrication, construction, startup and operation of a hot testing capability for pretreatment.

Technical Scope Detail(Limit 104 lines or less):

Pretreating tank waste involves separating tank waste into a HLW/transuranic (TRU) fraction, a LLW fraction, and a reusable materials fraction. This function can be broken down into three subfunctions: (1) Pretreat sludge/solids, (2) Pretreat supernatant, and (3) Blend high activity streams.

The integration of waste pretreatment activities, including program element management, planning, and pretreatment support activities are included in this ADS. Program element management includes the development of baseline plans, schedules and budgets and for program business management activities.

A major portion of this ADS provides for technology development,

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evaluation, selection and demonstration required to support the pretreatment functions. This includes performing laboratory studies with both simulant waste and actual waste; performing bench-scale tests for input to process design; development of process flowsheets, equipment and systems for incorporation into facility design; evaluating technology options for feeds to LLW and HLW immobilization facilities; developing technologies to the point where selections for more advanced development can be made; and evaluating tank waste characterization data, updating flowsheets and developing process operating strategies.

Another main area of this ADS involves system definition. This includes the development of the engineering bases for pretreatment projects, ensuring NEPA and other regulatory compliance, producing project functions and requirements, conducting trade studies to assist with program/project decisions, and conducting engineering studies. This is being accomplished through the use of systems engineering with other TWRS program elements and other DOE programs. Work being performed in this area includes the development of systems models, allowing parametric and sensitivity analysis of functions and requirements; establishment of quantitative requirements for pretreatment processes; recommendations for early pretreatment to allow for needed tank space; a water reuse study; facilities alternative report and an addendum to the facilities alternatives report covering foreign technology; assessment of a bench-scale melter; and a workshop report identifying TWRS hot/cold pilot plant needs.

This ADS also includes activities to develop the facilities required to provide pretreated HLW feed to the HLW immobilization facility. This includes facility design, construction, and startup; and technology application for HLW pretreatment. HLW pretreatment may require an advanced sludge washing process, an organic destruction process, a strontium removal (acid) process, a sludge leaching process and/or a sludge sorption process. Facilities to house and safely confine these processes are required as well as utility and offgas systems to operate the processes.

Ongoing waste pretreatment operations to separate high-level and transuranic wastes from low-level wastes is also provided for in this ADS. The product streams from these operations provide feed for the LLW and HLW immobilization facilities. Included in this activity are operating, maintenance and support staff necessary to operate the waste pretreatment facilities and equipment. In addition, during the design and construction of the new facilities, planning, design input and review, staffing, preparation of operating and maintenance procedures and training of staff are provided. Also, routine operations after startup are provided for.

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

Technology development has progressed to laboratory and plant scale testing of sludge washing, batch and continuous laboratory testing of cesium ion exchange, laboratory testing of solvent extraction processes, and proof of

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principle testing of a proposed intermediate processing alternative (chrome leaching). Inspection and consultation on facility concepts and features for domestic radiochemical processing as input to future facilities has been completed. Preliminary concepts for a number of pretreatment facilities have been prepared including a British Nuclear Fuels Limited (BNFL) concept.

An engineering study evaluating pretreatment facilities alternatives will be issued. Tests on cesium, strontium, and technetium removal by ion exchange using synthetic waste will be performed. And optimization studies of cesium removal using cold simulants of CC and NCAW will be conducted. Laboratory testing of ion exchange resins will continue. Laboratory testing of actual SST wastes will be initiated. Continue organic and ferrocyanide destruction studies. Continue solvent extraction testing and perform both process laboratory studies on actual waste and corrosion studies on synthetic waste. Continue batch laboratory-scale testing to verify modeling of NCAW sludge settling. Continue preparations for the in-tank settling test and process test in Tank 241-AZ-101, including preparation of test procedures, procurement, and installation of instrumentation and equipment.

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

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. The delta change from the President's budget is \$5,190K, resulting in a new total of \$23,505K. These adjustments may require a FY 1995 budget amendment.

Program management will continue to integrate waste pretreatment activities, including program element management, planning, and pretreatment support activities.

Pretreatment systems definition continues with engineering studies, development of functions & requirements and development of the engineering basis for pretreatment projects. Work will begin on developing functions and requirements for LLW, HLW, and in-tank processing pretreatment processes and facilities, including facility studies for both HLW and LLW. Continue identification and performance of engineering studies in support of conceptual and advanced conceptual design of LLW and HLW pretreatment facilities, preparation of a process and facility functional design criteria for HLW, and engineering support will be provided for the evaluation and implementation of in-tank washing. Work will continue to identify alternate facility configuration options for LLW and HLW pretreatment and vitrification processes. Process studies will continue and process flowsheets will be prepared for pretreatment of tank wastes to provide feed streams to the LLW and HLW vitrification plants and for removing either radionuclides or chemicals from supernatant.

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Technology and applied engineering continues to provide technology development, evaluations, selection and demonstrations required to support pretreatment functions. Studies continue on in-tank processing processes, focusing on sludge washing, sludge separations from solutions, and alkaline and acid leaching. Data from these test will be used in trade studies that determine the acceptability of enhanced sludge washing. Continue strontium and technetium removal using ion exchange and precipitation tests. Evaluation of cesium resin technologies for the removal of cesium using ion exchange will also continue. The development of technologies for destruction of organic complexants for LLW processing only will continue and is scheduled for completion. No work will be carried out for organic destruction for safety issue resolution or for treatment of sludge for potential HLW vitrification requirements. Work will be initiated to evaluate thermal and non-thermal technologies for reconstituting tank sludges in order to remove inorganic chemical species from the feed to the HLW vitrification facility.

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

Decrement Level Activities:

The integration of waste pretreatment activities, including program element management, planning, and pretreatment support activities continues within program management. Program element management includes development of baseline plans, schedules and budgets for waste pretreatment; development and characterization of data; quality assurance, safety and external reviews including DOE review committees, regulators, and oversight groups; and also support to technology working groups and oversight committees.

\$ 2,984K

Continue with pretreatment systems definition activities to develop functions and requirements for LLW (\$617K), HLW (\$441K), and in-tank processing (\$565K) pretreatment processes and facilities, including engineering studies, process and facility design criteria and technology development needs for all three pretreatment processes. Also, engineering support during the conceptual and advanced conceptual phases of LLW and HLW facilities design will continue.

\$ 1,623K

The study of alternate facility configuration options for LLW and HLW pretreatment and vitrification processes continues. Included in this study are design advantages and disadvantages of the various options and recommended preferred options. In addition, assessments of specific systems, subsystems, and component implementations will be conducted to optimize plant performance and adapt to changing operating conditions. Evaluation of alternative methods of sludge washing will be included in this study in FY 1996.

\$ 1,837K

Work also continues on the preparation of process flowsheets to provide feed streams to the LLW and HLW vitrification plants and for removing

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radionuclides or chemicals from supernatant liquids or sludges. Ongoing pretreatment technology development work, will be followed to ensure that the information needed for the process studies and process flowsheets is obtained. \$ 1,834K

Studies also continue on cesium removal from alkaline solutions by IX, using laboratory batch and column tests of candidate IX resins with simulated waste and laboratory scale column tests using actual wastes. \$ 3,100K

Studies continue on in-tank processing processes to develop and evaluate various solid liquid separations alternatives, including, separation of sludge from solutions, sludge washing, and alkaline and acid leaching. Data from these test will be used in trade studies that determine the acceptability of enhanced sludge washing. Studies will be conducted with half the samples as planned. \$ 6,392K

Decrement Level Total: \$17,770K

Productivity commitment and incorporation of new G&A rate changes. (\$ 3,068K)

Decrement Level Funding Total: \$14,702K

Target/Planning Level Activities:

Additional technology work scope for the separation of radionuclides, and evaluation of solid liquid separations will continue. Specifically, strontium and technetium removal by ion exchange using batch and column tests with simulated wastes. Column tests using actual wastes with candidate IX resins will be performed in the laboratory. Carrier precipitation laboratory tests using actual wastes will be performed to investigate the removal of TRU from alkaline supernatant (\$3,800K); and complete support of in-tank processing studies on sludge washing, alkaline and acid leaching, and sludge separations (\$4,000). \$ 7,800K

Work will continue on the evaluation of thermal and non-thermal technologies for reconstituting tank sludge. Large scale equipment tests of calcination processes will be used to evaluate thermal reconstitution of sludge using synthetic waste. While non-thermal reconstitution processes (acidification and reneutralization) of sludge will be evaluated using laboratory scale tests with actual waste. \$ 2,200K

Target/Planning Level Total: \$28,279K

Productivity commitment and incorporation of new G&A rate changes. (\$ 6,129K)

Target/Planning Level Funding Total: \$22,150K

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

Technology and engineering activities described in the planning year will continue. Several activities are planned for completion in this period, to include the evaluation of cesium ion exchange resins in FY97; the studies on the separation of radionuclides, strontium, technetium and TRU removal in FY99; and work on the development and evaluation of sludge treatment alternatives in FY98. In addition, activities associated with technology development of other LLW processes will be initiated in FY97. These include, nitrate destruction which would be used to generate a caustic soda stream to be recycled for alkaline leaching; alternative approaches to decontaminate the salts in the waste so the salts could be disposed of directly or by vitrification; and evaporation to concentrate process streams.

System definition activities described in the planning year will continue with the LLW, and HLW pretreatment process and facility functions and requirements scheduled for completion in FY98. In addition organic destruction will be revisited in FY99 in order to evaluate technical options for organic destruction for LLW and HLW feeds.

Activities associated with the HLW pretreatment facility will be initiated in this period with the HLW pretreatment facility conceptual design activities and preliminary safety evaluation scheduled for completion in FY98 and FY99. In addition, work associated with Title I design will be initiated in FY99. Preparation of the preliminary safety analysis report will be initiated in FY99. This includes preparation of a safety analysis work plan, reviews, comment incorporation and document revisions. Other permitting activities associated with the HLW pretreatment facility will also begin in FY99. This includes the preparation of all required permits, air permits, Part A and Part B RCRA permits and miscellaneous reviews, permits and approvals. Permitting plans and strategy will be developed.

Ongoing waste pretreatment operations activities will be initiated in FY97. Specifically preparation for, and, startup activities associated with in-tank processing. This includes support of the in-tank processing demonstration in Tank 101-AZ. Flowsheets, test plans and specifications will be developed and instrumentation reviews, readiness reviews and general engineering analysis reviews will be conducted. This supports the startup of the in-tank processing demonstration in Tank 101-AZ in FY99 and starting demonstrations in one or two other tanks.

Impacts/Assumptions(Limit 42 lines or less):

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance. Funding levels incorporate new G & A rate updates.

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TWRS systems engineering provides input for the alternate facility options studies and TWRS Functions and Requirements are available the beginning of FY95 to support the HLW, LLW, and in-tank processing process and facility functions and requirement development.

Pilot-scale testing for removal of strontium, TRU and technetium from alkaline solutions and of cesium IX resins using actual waste will not be required.

Actual waste required to perform batch and column tests and sludge washing and acid leaching will be provided by other program elements. Process testing is required to support planning of implementation of in-tank washing.

Sludge washing and alkaline leaching will be implemented and therefore technology development continues after 03/98 to implement this sludge treatment. First sludges to be washed will be NCAW.

Organic destruction for safety issue resolution will not be needed, organic destruction of sludge will not be needed, and organic complexant destruction can be delayed since only a limited number of DSTs have complexants.

HLW pretreatment facility includes sludge washing and caustic leach processes. The CDR and ACDR for HLW pretreatment facility is complete and Key Decision 1 and 2 are received to proceed with facility design.

Due to TWRS funding profiles, definitive design of HLW pretreatment facility is delayed until October 1998. It is assumed that advanced conceptual design proceeds at a slow rate throughout.

EM-50 will fund work to develop a compact evaporator system and fund work to develop the 'clean salt' process until it is evaluated.

Supporting Documents(Limit 5 lines or less):

Hanford Federal Facility Agreement and Consent Order, Tri-Party Agreement (TPA), Milestones: M-50-00; Record of Decision For Disposal of Hanford Defense High-Level Transuranic and Tank Waste, Federal Register V53(7.2), pp. 12449-12453,

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 were submitted under separate cover.

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01. TECHNICAL SCOPE
02. ACT. COMP TO DATE
03. CUR YR FY93 DESC
04. BUD YR FY94 DESC
05. PLN YR FY95 DESC
06. OUT YR FY96-99 DESC
07. KEY ASSUMPTIONS
08. KEY ISSUES AND UNCER
09. REG DRVS/SCOPE/CONSE
10. LEGAL NOT IN TARGET
11. MGMT PRAC NOT IN TAR

DESCRIPTION OF REGULATORY DRIVERS

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Operations Office: RL ID No.: 1220- 1 Revision Date:
 ADS Title: W-332 PILOT PLANT HOT TEST FACILITY
 WBS No.: 1.3.7.2.29 Category: Appr.:
 Project Title: HOT TEST FACILITY PILOT Facility/WAG:
 Installation: HANFORD CID: RL10930 ZOVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: Phone:
 O.O. Manager: Phone:
 H.Q. Manager: Phone:
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

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

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: 3004U: TSCA: CERCLA: NEPA:
 DOE: IAG: OSHA: ORD: ST : TRI : FED : 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

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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
TOTAL	0	0	0	0	0

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
TOTAL	0	0	0	0	0

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:					FY96 DRIVER CATEGORY				
SUB-DESC:	PROGRAM:	SUBACT:	DECREMENT	TARGET	PLAN	IMM RISK			
TITLE:									
APPROP:					0	0	0	0	0
			A	0	0	0	0	0	0
			B	0	0	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0	0	0
	0	0		D	0	0	0	0	0
	0	0		E	0	0	0	0	0
	0	0		F	0	0	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		TOTAL	0	0	0	0	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
	0
	0
	0
	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

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: 04-27-1994 TIME: 11:10:24

Technical Scope Summary(Limit 15 line or less):

Technical Scope Detail(Limit 104 lines or less):

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

NARRATIVE Continued

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

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

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

Impacts/Assumptions(Limit 42 lines or less):

Supporting Documents(Limit 5 lines or less):

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 were submitted under separate cover.

LAST UPDATE: 05-05-1993 TIME: 08:50:53

01. TECHNICAL SCOPE
02. ACT. COMP TO DATE
03. CUR YR FY93 DESC
04. BUD YR FY94 DESC
05. PLN YR FY95 DESC
06. OUT YR FY96-99 DESC
07. KEY ASSUMPTIONS
08. KEY ISSUES AND UNCER
09. REG DRVS/SCOPE/CONSE
10. LEGAL NOT IN TARGET
11. MGMT PRAC NOT IN TAR

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DESCRIPTION OF REGULATORY DRIVERS

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Operations Office: RL ID No.: 1230- 0 Revision Date: 4/27/1994
 ADS Title: LOW LEVEL WASTE DISPOSAL PROGRAM
 WBS No.: 1.3.7.2.11 Category: WM Appr.:
 Project Title: LLW DISPOSAL (94-RL-XXX) Facility/WAG:
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: MURKOWSKI, RJ Phone: 509-373-3885
 O.O. Manager: ERICKSON, L Phone: 509-376-6406
 H.Q. Manager: HENNESSEY, J Phone: 301-903-7132
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: TRU: TRU MIX: LLW: MLLW: 100 HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: Y 3004U: TSCA: CERCLA: NEPA:
 DOE: IAG: OSHA: ORD: Y ST : TRI : Y FED : 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	32,569	45,102		A	0	0	0	0
CE	400	509		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	32,969	45,611		F	0	0	0	0
				G	0	0	0	0
				H	20,812	42,185	42,185	0
				I	0	0	0	0
				TOTAL	20,812	42,185	42,185	0

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	19,813
CE	999
GPP	0
LI	0
TOTAL	20,812

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TARGET LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	41,186	33,329	53,042	60,835	69,582
CE	999	847	1,116	942	870
GPP	0	0	0	0	0
LI	0	5,343	32,430	83,065	121,558
TOTAL	42,185	39,519	86,588	144,842	192,010

FTEs	FY94	FY95			
Direct	115	114			
Indirect	85	84			
Federal	0	0			
FTEs	FY96	FY97	FY98	FY99	FY00
Direct	118	148	207	258	295
Indirect	87	110	153	191	218
Federal	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)					
B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	41,186	33,329	53,042	60,835	69,582
CE	999	847	1,116	942	870
GPP	0	0	0	0	0
LI	0	5,343	32,430	83,065	121,558
TOTAL	42,185	39,519	86,588	144,842	192,010

FTEs	FY94	FY95			
Direct	115	114			
Indirect	85	84			
Federal	0	0			
FTEs	FY96	FY97	FY98	FY99	FY00
Direct	118	148	207	258	295
Indirect	87	110	153	191	218
Federal	0	0	0	0	0

Environmental Management
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Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP						FY96 DRIVER CATEGORY					
SUB-DESC: PROGRAM: EM SUBACT: AC						DECREMENT	TARGET	PLAN	IMM RISK		
TITLE: Low Level Waste Disposal Program											
APPROP: D											
						A	B	C	D	E	
						0	0	0	0	0	
						0	0	0	0	0	
B&R	FY94	APPR	FY95	PRES	FY95	APPR	C	D	E	F	
EW3130010	32,569		45,102				0	0	0	0	
35EW31301	400		509				0	0	0	0	
39EW31301	0		0				0	0	0	0	
39EW31301	0		0				20,812	42,185	42,185	0	
						0	0	0	0	0	
TOTAL						32,969	45,611	20,812	42,185	42,185	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	19,813
35EW31301	999
39EW31301	0
39EW31301	0
TOTAL	
	20,812

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	41,186	33,329	53,042	60,835	69,582
35EW31301	999	847	1,116	942	870
39EW31301	0	0	0	0	0
39EW31301	0	5,343	32,430	83,065	121,558
TOTAL					
	42,185	39,519	86,588	144,842	192,010

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	41,186	33,329	53,042	60,835	69,582
35EW31301	999	847	1,116	942	870
39EW31301	0	0	0	0	0
39EW31301	0	5,343	32,430	83,065	121,558
TOTAL					
	42,185	39,519	86,588	144,842	192,010

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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: WM-CF-3 Date: 7/18/90
Title: LACK OF INTEGRITY ASSESSMENTS & COMPLIANT SECONDARY CONTAINMENT

FY95-99 ADS Cross References

ADS #: RL 1230 0
Title: NO CHANGE
Transferred in its entirety:
Explanation of Change:

MILESTONES

Milestone No.: _____ Milestone Seq: 1230-00-0035 TPA MS NO.: TDD93003
Title: Issue WHC/PNL approved performance assessment for HQ review
Planning Date Target Date Decrement Date Level: HQ Keyword: D
3/31/1993 10/05/1993 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT - 1/25/94
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: _____ Milestone Seq: 1230-00-0040 TPA MS NO.: TDD94116
Title: Complete GTF Standby Plan
Planning Date Target Date Decrement Date Level: FO Keyword: D
1/28/1994 1/30/1994 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT - 1/25/94
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: 1230-00-0060 TPA MS NO.: TDD94150
Title: Submit justification of mission needs to RL
Planning Date Target Date Decrement Date Level: FO Keyword: D
2/01/1994 1/31/1994 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT - 1/25/94
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1230-00-0010 TPA MS NO.: M-60-01A
Title: Define and Issue LLW Sim.Recipe for Initial Melter Tests
Planning Date Target Date Decrement Date Level: HQ Keyword: D
5/31/1994 5/31/1994 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT - 1/25/94
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
Developing simulants will be defined using flowsheets and tank characteristics data. Simulant recipes will be developed. Laboratory testing will be employed. Procedures supplied.

Milestone No.: Milestone Seq: 1230-00-0055 TPA MS NO.: TDD94123
Title: Issue Low-Level Waste Disposal Program Management Plan
Planning Date Target Date Decrement Date Level: FO Keyword: D
5/31/1994 5/31/1994 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT - 1/25/94
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1230-00-0005 TPA MS NO.: M-60-01
Title: Begin Low-Level Waste Melter Testing with Simulants
Planning Date Target Date Decrement Date Level: HQ Keyword: D
9/30/1994 9/30/1994 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT - 1/25/94
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
Evaluate proposal(s) and award, contracts using ranking criteria developed for vendor testing. Award contracts for multiple supplier(s) and start pilot testing with first selected vendor.

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MILESTONES Continued

Milestone No.: Milestone Seq: 1230-00-0025 TPA MS NO.: TDD94124
Title: Prepare draft Part A permit application
Planning Date Target Date Decrement Date Level: FO Keyword: D
9/30/1994 9/30/1994 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT - 1/25/94
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1230-00-0045 TPA MS NO.: TDD94139
Title: Complete the Emergency Restart Plan
Planning Date Target Date Decrement Date Level: FO Keyword: D
9/30/1994 9/30/1994 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT - 1/25/94
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1230-00-0050 TPA MS NO.: TDD94141
Title: Submit WHC approved F&R Document for review and approval
Planning Date Target Date Decrement Date Level: FO Keyword: D
9/30/1994 9/30/1994 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT - 1/25/94
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Milestone No.: Milestone Seq: 1230-00-0015 TPA MS NO.: M-60-02
Title: Complete Melter Feasibility and System Operational Tests
Planning Date Target Date Decrement Date Level: HQ Keyword: D
6/30/1996 6/30/1996 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT - 01/25/94
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:

Completion of melter testing with simulants and a report in the form of a supporting document with a recommendation of the melter system for Low-Level Waste Vitrification Facility. Target funding may put this milestone at risk.

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MILESTONES Continued

Milestone No.: Milestone Seq: 1230-00-0030 TPA MS NO.: M-60-03
Title: Conceptual Design Report/Definitive Design
Planning Date Target Date Decrement Date Level: HQ Keyword: D
11/30/1996 11/30/2002 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT - 1/25/94
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

Submit conceptual design and initiate definitive design of the LLW vitrification facility. This milestone will have a similar impact on M-60-05 and may have impact on M-60-00.

Milestone No.: Milestone Seq: 1230-00-0020 TPA MS NO.: M-60-04
Title: Initiate Construction
Planning Date Target Date Decrement Date Level: HQ Keyword: D
12/31/1997 12/30/2003 PTS: Y SMS: N
Driver Name: TRI Driver Reference: TRI-PARTY AGREEMENT - 01/25/94
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N

Description:

Initiate construction of the LLW vitrification facility. This milestone will have a similar impact on M-60-05 and may have impact on M-60-00.

NARRATIVE

LAST UPDATE: 04-28-1994 TIME: 12:31:55

Technical Scope Summary(Limit 15 line or less):

The Low-Level Waste Disposal Program (LLWDP) is planning to vitrify the low-level portion of the Hanford tank waste and dispose on site, in a retrievable form. The primary goals of the LLWDP are to: 1) Manage, develop, and implement a low-level waste (LLW) immobilization process to include the design, construction, operation, closure, and post closure of the LLW vitrification processing and disposal facilities as outlined in the Federal Facility Agreement and Consent Order (Tri-Party Agreement) and, 2) deactivate the Grout Facilities to cold standby during FY 1994. Management of Tank Waste Remediation Systems (TWRS) Program and Hanford Site interfaces (technology development, engineering, environmental compliance, project issues, and public involvement) are critical to the successful implementation of this treatment and disposal action. Commercially available melter and process technology and methodology will be sought and applied as appropriate in the design, construction, and operation of the LLW facilities.

Technical Scope Detail(Limit 104 lines or less):

Plan and implement the business/budget/planning documents to support the

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LLWDP.

Prepare and obtain approval of LLW Key Decision documents. Define, plan and prepare trade studies required for scoping of facilities and processes for LLW treatment and disposal.

Plan and determine melter selection, glass formulation, disposal systems, glass durability needs and waste feed specifications.

Provide information to support the preparation of the preliminary, interim and final Performance Assessments (PA) and compliance documentation (permits, safety documentation).

Provide staff, training, and operations of the LLW Vitrification Facility. Plan and manage the Low-Level Waste Vitrification Plant Project design (conceptual design, Title I, II, and III), construction, and testing/startup.

Proceed with deactivation of the Grout Facilities and maintain the facilities in cold standby as specified by the January 25, 1994 TPA. Maintain, as contingency, the capability to restart the Grout facilities within a two year window to mitigate tank safety issues.

Maintain compliance with the Grout Facilities Standby Plan. This plan details the checklist for deactivation, surveillance, and monitoring activities, as well as the standby/restart organization.

Prior year activities and milestones have been in support of the Grout Disposal Program. The recently renegotiated Tri-Party Agreement has required that this work be suspended and redirected to the development and implementation of a program that will successfully treat the low level waste fraction of the SST and DST waste through a vitrification process.

Activities include:

LLW VITRIFICATION

Prepare business documents (Fiscal Year Work Plans (FYWP), Activity Data Sheets (ADS), Baseline Development).

Prepare Program Management Plan at the program element level (level 4).

Prepare and maintain LLWDP Public Involvement Plan.

Complete the development of simulants and the selection of a reference melter for the vitrification facility (M-60-02).

Develop process design parameters and input to design and operations preparations.

Develop glass formulations for LLW, culminating with the selection of the preferred waste form.

Develop a feed specification for pretreated LLW feed (this feed will be delivered by the TWRS Pretreatment Program).

Complete the Facility Configuration Options Study (M-60-03-TI).

Complete the TWRS site selection study and establish environmental baseline.

Complete the preliminary, interim, and final PA as required. Complete the LLW Functions & Requirements (F&R) and process flowsheets. Complete disposal facilities concepts study.

Prepare closure plans.

Complete conceptual design and Title I, II, and III design (M-60-03).

Construction of vitrification facility (M-60-04) and disposal facilities.

Complete LLW PSAR and FSAR for review and final approval. Prepare and

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submit permit applications (RCRA, Clean Air Act (CAA), Water, etc) to the Environmental Protection Agency (EPA) and other State and local agencies, as applicable.

Complete NEPA analyses for issuance of Record of Decision (ROD). GROUT FACILITIES DEACTIVATION

Issue Grout Facilities FSAR to file.

Transmit waste tank AP-102 Data Package to DOE-RL (grout feed for vault 102).

Transmit WHC/PNL approved Grout Treatment Facilities Performance Assessment (PA) to RL.

Complete candidate waste feed tank (AP-105, AP-106) analysis. Issue Phosphate-Sulfate Waste (PSW) grout vault Cold Cap Report. Complete Grout Facilities Standby Plan (WHC-SD-WM-SSP-005). Complete Emergency Grout Startup Plan

Transfer Grout projects/equipment/vehicles to other WHC organizations as outlined in the Standby Plan.

Maintain the Grout Facilities until turnover to the new custodian is complete.

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

Current year funding provides for: the preparation, revision, and issuance of the FY 1994 Work Plan, development and issuance of FY 1995 Work Plan, development of TWRS baseline documentation, and development and issuance of FY 1996 ADS (1230).

Develop a LLW Public Involvement Plan for interaction with the public on emerging issues/decisions. Provide for miscellaneous programmatic Quality Assurance and Safety support. Maintain interface with TWRS systems engineering for LLW program element. Grout Facilities will be maintained in cold standby condition.

Support the preparation of the TWRS LLW, HLW, and Pretreatment facilities Configuration Options Study. Prepare needed trade studies resulting from the TWRS Systems Engineering process. Prepare a LLW F&R document for DOE Review. Develop LLW disposal systems alternatives. Initiate LLW PA activities including planning and guidance to the program. Conduct preliminary LLW Vitrification Facility sighting studies. Develop compliance documentation strategies. Place contracts for melter testing, simulant development and documentation, lab analysis, and contract melter selection panel. Initiate feed specifications, glass formulation, and integrated process systems (feed systems, off gas, product handling) studies. Develop data base for LLW to determine users, need and hardware for waste forms, melters, criteria, etc. Prepare documentation on need, if any, for pilot plant.

Completed an architect-engineer/construction management (AECM) acquisition strategy. A Request for Proposal (RFP) for conceptual design (CD) was published in the Commerce Business Daily. The AECM Selection Board was established; evaluation/selection criteria were developed. Proposals will be received from AECM teams, and proposal evaluations initiated.

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

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. The delta change from the President's budget is \$(9,350K), resulting in a new total of \$45,611K. These adjustments may require a FY 1995 budget amendment.

Prepare and issue business documentation (FYWP, ADS, Baseline). Maintain/update a LLW Public Involvement Plan for interaction with public on the emerging issues/decisions. Maintain program element interface with TWRS systems engineering activities. Provide for miscellaneous programmatic Quality Assurance and Safety support. Grout Facilities will be maintained in cold standby condition.

Continue needed trade studies to support program objectives and provide input to the LLW facility conceptual design. Update LLW process flowheets. Continue evaluation of disposal facility options as needed. Initiate disposal site characterization and baseline activities. Start preparation of interim PA and data generation for final PA.

Complete the Part A permit for submittal to DOE-RL and the State Department of Ecology (WDOE). Initiate discussions with Ecology and EPA concerning the treatment, storage, and disposal concepts for the LLW vitrification processing facility. Discussions are intended to focus on interpretation of regulations as they pertain to facility concepts, product quality demonstration, waste analysis and process control.

Review the outcomes of the facility option study, disposal facility options study, melter evaluations, preconceptual designs, F&R documents, and other work impacting disposal, to assess impacts upon program permits. This effort will update the permit compliance plan to reflect the latest design and operating philosophy against current regulations. Monitor changes in regulations and stay abreast of current program plans and designs.

Prepare flowsheets, resource requirements, dose impacts, and economic costs for low level waste treatment processes in the TWRS EIS. Provide clarification and response to questions from the EIS contractor for the LLW portion of processing and impacts as the contractor prepares the EIS. Scoping of the EIS and provide program input to scope issues. Monitor issues and activities during preparation of the EIS that may impact the LLW vitrification program.

Review engineering studies for facility options, disposal options, and various trade studies to determine the hazards classification for the Low Level Waste vitrification program. Review preconceptual and conceptual design information to prepare a preliminary safety analysis. This work builds from prior Hazard Classification work and is required to be completed prior to initiation of construction. Continue melter testing. Continue glass formulation based on melter testing and characterization results. Continue interacting with the Pretreatment Program for LLWVP feed requirements. Proceed with efforts on disposal systems, matrix for glass and waste forms. Quality verification work will focused on waste form,

~~NARRATIVE Continued~~

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disposal systems and refractory. Continue data base development. The contract for CD will be issued the first quarter of FY 1995, and a major portion of the CD for the LLWVP Project will be completed in FY 1995.

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

Receipt of Decrement funding will provide for minimum operations: Preparation and issuance of FY 1997 Work Plan, maintenance/update of TWRS baseline documentation, and development and issuance of FY 1998 ADS (Five Year Plan). Maintain/update a LLW Public Involvement Plan for interaction with public on emerging issues/decisions. Maintain program element interface with TWRS systems engineering activities.

Provide for miscellaneous programmatic Quality Assurance and Safety support. Grout Facilities will be maintained in cold standby condition. Complete the LLW disposal site characterization and baseline. Update process flowsheet to reflect reference waste form and melter selection. Support trade studies as required. Support preparation and review of NEPA documentation.

Select reference melter, feed specification, and glass formulation. Support Title I design.

Continue glass formulation work based on tank characterization information. Develop waste form, matrix, and disposal system on a technical defensible concept. Determine requirements for pilot plant supporting the design effort. At this reduced funding level, it is important to note that there will be minimal effort on conceptual design, and the AECM staff will be reduced by a minimum of 75%, which will have a 1 1/2 to 2 years impact to TPA M-60-03, M-60-14, M-60-05 and possibly M-60-00).

The receipt of funding incremental to the Decrement case will allow for: The Conceptual Design Report will include process flowsheets, conceptual master construction schedule, definitive design criteria, and a bottoms-up cost estimate. Advanced conceptual design conducted the balance of the fiscal year will further refine the design documents including schedules and costs estimates. The CDR to be completed in the second quarter of FY 1996 to support the request for Key decision 1 and 2. (\$9.4M) Project management of Conceptual Design and selection of a AE/CM for the Title I, II, III and construction of LLWVP. (\$2.0M)

Develop methodology and plan for media handling and provide for internal and external design review of program documents. (\$2.4M)

Continue data generation and analysis for the PA and preparation of draft interim/preliminary/final PA. (\$5.0M)

Development of environmental permitting and safety documentation efforts will continue. (\$.6M)

Preliminary staffing of the base Operations organization to support design and documentation activities, to include procedures, training plan, and support to Projects. (\$2.0M)

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

Activities in support of Program planning such as the preparation and issuance of FY 1998-2000 Work Plans, maintenance/update of TWRS baseline

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documentation, and development and issuance of FY 1999-2001 ADS 1230 will continue. Maintain/update a LLW Public Involvement Plan for interaction with public on emerging issues/decisions. Maintain program element interface with TWRS systems engineering activities. Provide for miscellaneous programmatic Quality Assurance and Safety support. Grout Facilities will be maintained in cold standby condition. During this period, the decision will need to be made as to when the Grout Facilities will be transitioned to Decontamination and Decommissioning Program. Issue interim PA. Complete data gathering and analysis for supporting completion of preliminary PA and final PA. Support outside reviews of the PA. Provide inputs to compliance documentation and permit applications. Issue preliminary and final approved PAs. Provide special studies, reviews, and technical analysis of project design developments. Establish and maintain technical bases for the LLW program. Perform miscellaneous trade studies as required. Operations staffing, preparation of operations documentation, and support to design and construction schedule will continue. Preliminary design (Title I) will be completed. Detailed design (Title II) and construction will be initiated. The (PSAR) will be issued. Clean Air Act permits will be issued. Complete melter selection process. Continue developing integrated process systems for feed, off gas, and glass handling. Development of glass formulation will continue as characterization information is gained from tanks. Testing on waste forms matrix and disposal system materials will continue to ensure they are compatible and meet PA requirements. Non-vitrifiable product stabilization activities will concentrate on items identified during melter testing.

Impacts/Assumptions(Limit 42 lines or less):

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance.

Assumptions include: separations/pretreatment (Cs/Sr removal) start-up by December 2004 will provide adequate feed available for LLW Vitrification startup. Pretreatment will provide a continuous feed product which meets LLW feed criteria to ensure long term waste form performance. The LLW Vitrification Facility (Project W-378) will be a lightly shielded facility to be constructed by December 2003 with 24 hour operations beginning in June 2005 using continuously feed pretreated waste. The Grout Facilities will be maintained in standby as a contingency method for freeing DST space until new DSTs are available. The LLW Vitrification Facility will contain two parallel vitrification lines, with a planned capacity of 200 metric tons per day production. Rough order of magnitude estimate of capital costs is \$500 Million, which will be revised, if necessary, upon completion of the Facility Options Report. The facility will be designed based upon results of vendor testing of simulants, lab and bench-scale testing of radioactive waste samples, and cold testing of facility components. A hot pilot plant will not be required for verification of design concept. The vitrification facility will use high throughput melter(s), developed for application in the glass industry. Completion of the conceptual design

~~NARRATIVE Continued~~

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~~NARRATIVE Continued~~

report by November 1996 and completion of phase 1 melter vendor tests by June 1996 must be completed to support the start of design. The TWRS EIS must also be approved and the ROD issued to support start of definitive design (11/96). During the development and implementation of the LLWDP, no waivers for regulatory (DOE Orders, CFRs, WACs, etc) requirements are anticipated or requested. It is also required that budget authority (B/A) will support this aggressive schedule and capital cost increases/decreases may be required as additional engineering documentation/estimates are completed. The vitrified LLW will be placed in an onsite near-surface disposal system in a manner that will allow for retrieval for placement elsewhere (for up to 50 years from the time of emplacement) should that become necessary. All gaseous effluents will be treated prior to release from the facility of generation. Each melter will be replaced every four years during a planned outage. Production rates will be reduced accordingly. Basis for costs estimates were previously estimated HWVP (deemed related to LLW) work, Technology Development Program Office (TDPO) work planning/expertise, engineering judgements and WHC-EP-0616, Rev 0, 'Technical Options Report'. The public will accept near term waste form and barrier performance data for extrapolation to long term performance.

Supporting Documents(Limit 5 lines or less):

Hanford Federal Facility Agreement and Consent Order (TPA), M-60-00; WAC-173-303, 'Dangerous Waste Regulation', (WAC-173-303-140 and WAC 173-303-640), 40CFR 268, 40CFR 265, subpart J, and 40CFR 265.196; Dangerous Waste Part B Permit issued by EPA and Ecology; and DOE Orders as required by the WHC contract with DOE (4700.1, 5820.2A, etc.).

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 were submitted under separate cover.

~~DESCRIPTION OF REGULATORY DRIVERS~~

ORD:

DOE Order 5820.2A, and others as required.

~~DESCRIPTION OF REGULATORY DRIVERS Continued~~

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DESCRIPTION OF REGULATORY DRIVERS Continued

RCRA:

40 CFR 286, WAC 173-303, etc. Wastes stored in DSTs are subject to LDR requirements, see body of ADS for full list of RCRA drivers.

TRI:

Hanford Federal Facility Agreement and Consent Order (TPA), M-01,
"Complete 14 grout campaigns of DST wastes by December 1996 and maintain
currency with feed thereafter."

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Operations Office: RL ID No.: 1240- 0 Revision Date:
 ADS Title: HIGH LEVEL WASTE DISPOSAL
 WBS No.: 1.3.7.2.16 Category: WM Appr.:
 Project Title: FACILITY OPERATIONS Facility/WAG:
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: Powell, RW Phone: 509-376-9618
 O.O. Manager: Sanders, GH Phone: 509-376-6888
 H.Q. Manager: Hennessey, JE Phone: 301-903-7191
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 100 TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: Y CWA: Y SDWA: RCRA: Y 3004U: N TSCA: N CERCLA: N NEPA: Y
 DOE: Y IAG: OSHA: Y ORD: ST : Y TRI : Y FED : Y 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	13,969	11,916		A	832	20,737	20,737	0
CE	0	3,561		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	13,969	15,477		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	832	20,737	20,737	0

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	832
CE	0
GPP	0
LI	0
TOTAL	832

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	16,798	24,810	41,337	30,094	29,827
CE	3,939	2,938	2,849	0	0
GPP	0	0	0	0	0
LI	0	0	0	26,539	78,415
TOTAL	20,737	27,748	44,186	56,633	108,242

FTEs	FY94	FY95				
Direct	20	0				
Indirect	15	0				
Federal	0	0				
FTEs	FY96	FY97	FY98	FY99	FY00	
Direct	34	52	88	129	194	
Indirect	25	38	65	95	144	
Federal	0	0	0	0	0	

PLANNING LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	16,798	24,810	41,337	30,094	29,827
CE	3,939	2,938	2,849	0	0
GPP	0	0	0	0	0
LI	0	0	0	26,539	78,415
TOTAL	20,737	27,748	44,186	56,633	108,242

FTEs	FY94	FY95				
Direct	20	0				
Indirect	15	0				
Federal	0	0				
FTEs	FY96	FY97	FY98	FY99	FY00	
Direct	34	52	88	129	194	
Indirect	25	38	65	95	144	
Federal	0	0	0	0	0	

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Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER CATEGORY				
SUB-DESC: PROGRAM: EM SUBACT: XX				DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: High Level Waste Disposal								
APPROP: D								
				A	832	20,737	20,737	0
				B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0	0
				D	0	0	0	0
EW3130010	13,969	11,916		E	0	0	0	0
35EW31301	0	3,561		F	0	0	0	0
39EW31301	0	0		G	0	0	0	0
39EW31301	0	0		H	0	0	0	0
				I	0	0	0	0
TOTAL	13,969	15,477		TOTAL	832	20,737	20,737	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	832
35EW31301	0
39EW31301	0
39EW31301	0
TOTAL	832

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	16,798	24,810	41,337	30,094	29,827
35EW31301	3,939	2,938	2,849	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	26,539	78,415
TOTAL	20,737	27,748	44,186	56,633	108,242

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	16,798	24,810	41,337	30,094	29,827
35EW31301	3,939	2,938	2,849	0	0
39EW31301	0	0	0	0	0
39EW31301	0	0	0	26,539	78,415
TOTAL	20,737	27,748	44,186	56,633	108,242

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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

MILESTONES

Milestone No.: _____ Milestone Seq: 1240-00-0005 TPA MS NO.: M-51-01
Title: ALTERNATIVE CONCEPTS REPORT
Planning Date Target Date Decrement Date Level: FO Keyword: T
12/31/1994 12/31/1994 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance:
Roadmap: Current Year Workplan: N Safety and Health:
Description:
Provide report on evaluation of alternative concepts for treatment and disposal of high-level Hanford tank wastes.

Milestone No.: _____ Milestone Seq: 1240-00-0010 TPA MS NO.: M-51-02
Title: SELECT REFERENCE MELTER
Planning Date Target Date Decrement Date Level: FO Keyword: T
9/30/1998 9/30/1998 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance:
Roadmap: Current Year Workplan: N Safety and Health:
Description:
Identify melter systems for evaluation as candidates for use in a Hanford HLW vitrification facility. Issue a report that provides the basis to proceed into Preliminary Design.

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1240-00-0020 TPA MS NO.: M-51-03

Title: INITIATE HOT OPERATIONS

Planning Date Target Date Decrement Date Level: FO Keyword: T
12/31/2009 12/31/2009 PTS: Y SMS: Y

Driver Name: TRI Driver Reference:

PRESENT IN Tiger Team: N Program Execution Guidance:
Roadmap: Current Year Workplan: N Safety and Health:

Description:

Complete all activities necessary to begin hot operation of the HLW vitrification facility.

Milestone No.: Milestone Seq: 1240-00-0015 TPA MS NO.: M-51-00

Title: HLW Vitrification Complete

Planning Date Target Date Decrement Date Level: FO Keyword: T
12/31/2028 12/31/2028 PTS: Y SMS: Y

Driver Name: TRI Driver Reference:

PRESENT IN Tiger Team: N Program Execution Guidance:
Roadmap: Current Year Workplan: N Safety and Health:

Description:

Complete vitrification and packaging of all Hanford Site HLW and TRU waste stored in double-shelled tanks and single shell tanks.

NARRATIVE

LAST UPDATE: 04-27-1994 TIME: 13:08:58

Technical Scope Summary(Limit 15 line or less):

This activity involves immobilization and packaging of all high-level wastes (HLW) and transuranic (TRU) wastes stored in tanks at the Hanford Site for final disposal in a federal repository. It also includes overpacking and packaging Sr and Cs capsules currently stored in a basin at WESF for final disposal in a federal repository. The goal of this activity is to complete immobilization/packaging of all HLW, TRU waste, and Sr/Cs capsules in an acceptable form for disposal by CY 2028. The packaged wastes will be stored at Hanford in a HLW storage facility until a repository is available for final disposal. This activity currently includes design, construction, permitting, and operation of government vitrification and storage facilities; however, a plan from the Environmental Corporation of America (ECA) for privatization of HLW vitrification will be evaluated in FY 1994 and a recommendation will be provided to the State of Washington Department of Ecology and the U. S. Environmental Protection Agency to satisfy TPA milestone M-51-01-T01.

Technical Scope Detail(Limit 104 lines or less):

This activity is divided into five elements to address TWRS requirements to

NARRATIVE Continued

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~~NARRATIVE Continued~~

immobilize and dispose of the HLW and TRU waste portions of the Hanford Site tank wastes.

Technical Integration and Planning:

Plan, direct and integrate all work within the HLW Program Element and integrate HLW activities with other TWRS Program Element activities. Interface with the PNL Technology Development Program Office (TDPO) in all HLW activities requiring PNL technology development support.

Technology Development and Applied Engineering:

Develop, evaluate and address the TWRS requirements for processing and disposing of the HLW fraction of DSTs and SSTs. Provide the technology development and engineering activities that support development, design, permitting, start-up and operation of a high-capacity HLW vitrification facility. Evaluate and provide a recommendation for the ECA plan for privatization of HLW vitrification. Includes an evaluation of all candidate melter systems to ensure that the best melter technology is selected for Title I (Preliminary) design. The work in this activity element addresses TPA milestones M-51-01, M-51-02, M-51-01-T01, M-51-00, M-51-00-T01.

Facility Operations:

Work required to assist in development of a plant startup plan and operations related to requirements/physical definition, startup of the plant, performance of integrated qualification testing of the process and facility systems to assure the plant is ready to initiate hot operations, operation of the plant, and preparation of the plant for turnover to the Decontamination and Decommissioning activity when the HLW immobilization mission is complete.

Operations activities span four time phases: 1) preturnover; 2) startup and operability testing; 3) operations with non-radioactive simulants and 4) hot operations. The work in this activity element addresses TPA milestone M-51-03.

System Definition:

Integrates the HLW systems engineering studies with the site-wide systems engineering activity. Participate in integrated tank waste processing studies. Perform trade studies to evaluate design options and to define facility design features and disposal system options. Prepare project criteria documents. The work in this activity addresses TPA milestones M-51-00-T01, M-51-00-T02, M-51-00.

HLW Facility:

~~NARRATIVE Continued~~

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~~NARRATIVE Continued~~

This activity element includes all work associated with conceptual design, definitive design, facility construction, equipment procurement and installation, safety/regulatory/permitting document preparation, and construction acceptance testing of the HLW Vitrification facility and the HLW storage facility. Also includes A/E contracting and management, construction contracting and management, and technology/applied engineering and management. The work in this activity element addresses TPA milestones M-51-00-T01, M-51-00-T02, M-51-00-T03, and M-51-00-T04, and M-51-00.

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

Prepared draft report on an evaluation of the ECA concept for privatization of the HLW vitrification process.

Closed the WHC Resident Engineering Office at Fluor.

Completed the preliminary laboratory feed processing scoping studies comparing alternate reductants to formic acid

Completed construction of the TWRS Office Building

Issued the HWVP Deferral Plan, Rev. 0

Issue draft HLW Disposal Strategy Document.

Issue initial TWRS Feed Processability Assessment Report.

Provide results of ECA Proposal Evaluation to RL.

Issue FY 95 HLW Technology Development Requirements to PNL TDPO.

Report on alternative melter candidate assessment decision.

Document process operation and equipment alternatives survey.

Issue HLW vitrification facility design alternatives evaluation plan.

Complete Conceptual Design Plan and estimates for vitrification plant conceptual design.

Issue TWRS Plan for obtaining DOE-RW acceptance for alternative waste forms.

Document evaluation of alternative container and initial design requirements.

Complete all activities required to closeout the HWVP Project in an orderly manner.

~~NARRATIVE Continued~~

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NARRATIVE Continued

Complete all documentation and storage of all HWVP Project files for future reference/use by the TWRS Program.

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

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. The delta change from the President's budget is \$7511K, resulting in a new total of \$15,477K. These adjustments may require a FY 1995 budget amendment.

Target and Planning Case Workscope:

Perform HLW Program Management Activities: Provide program planning, HLW strategy, preparation of Program Element budget, schedule, WBS and plans, and change control. Interface with other Program Elements.

\$1,200K

Select Melter Candidates and Perform HLW Melter Testing and Evaluation:

Conduct testing, including vendor testing, with bench-scale melters for selection of two melter systems for further testing, evaluation and development as candidates for the HLW vitrification facility.

\$5,200K

Perform Initial Glass Formulation: Develop and evaluate waste glass formulation based on HLW composition definition to support melter testing/evaluation, process/equipment development/testing, pre-project systems trade studies, and preparation for conceptual design.

\$2,000K

Perform HLW Process/Equipment Development and Testing: Identify, test and evaluate alternative process/equipment options to support melter system development testing and as preparation for conceptual design.

\$2,900K

Perform Initial Feed/Process Development: Develop feed processes/chemistry in support of process/equipment development.

\$1,200K

Perform Feed Specs/Processability Assessment: Provide assessment of the acceptability of waste glasses, limits on key components and estimated volume of glass.

\$ 600K

Prepare HLW Process and Facility Scope and Requirements: Develop HLW facilities scope and prepare functions and requirements for a HLW vitrification facility as preparation for conceptual design.

\$1,400K

Prepare HLW Process and Facility Concepts: Perform trade studies on size and type of waste package (canister, cask, etc.), TRU waste disposal options melter system options, facility configuration concepts,

NARRATIVE Continued

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~~NARRATIVE Continued~~

process/product control, and confinement systems.

\$2,500K

Prepare Waste Form Description Documentation: Determine acceptability of waste form to the repository.

\$ 200K

Productivity Challenge

(\$1,723K)

Target and Planning Case Total

\$15,477K

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

Decrement Case Workslope:

Perform HLW Program Management Activities: Provide program planning, HLW strategy, preparation of Program Element budget, schedule, WBS and plans, and change control. Interface with other Program Elements.

\$1,000K

Productivity Challenge

(\$168K)

Decrement Case Total

\$832K

Target and Planning Case Workslope:

Technical Integration and Planning: Planning and integration with PNL TDPO.

\$ 300K

Select Melter Candidates and Perform HLW Melter Testing and Evaluation: Conduct testing, including vendor testing, with bench-scale melters for selection of two melter systems for further testing, evaluation and development as candidates for the HLW vitrification facility.

\$8,600K

Perform Initial Glass Formulation: Develop and evaluate waste glass formulation based on HLW composition definition to support melter testing/evaluation, process/equipment development/testing, pre-project systems trade studies, and preparation for conceptual design.

\$2,100K

Perform HLW Process/Equipment Development and Testing: Identify, test and evaluate alternative process/equipment options to support melter system development testing and as preparation for conceptual design.

\$3,100K

Perform Initial Feed/Process Development: Develop feed processes/chemistry in support of process/equipment development.

\$1,400K

Perform Feed Specs/Processability Assessment: Provide assessment of the acceptability of waste glasses, limits on key components and estimated volume of glass.

~~NARRATIVE Continued~~

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~~NARRATIVE Continued~~

\$ 700K

Prepare HLW Process and Facility Scope and Requirements: Develop HLW facilities scope and prepare functions and requirements for a HLW vitrification facility as preparation for conceptual design.

\$1,400K

Prepare HLW Process and Facility Concepts: Perform trade studies on size and type of waste package (canister, cask, etc.), TRU waste disposal options melter system options, facility configuration concepts, process/product control, and confinement systems.

\$4,500K

Prepare Waste Form Description Documentation: Determine acceptability of waste form to the repository.

\$ 400K

Manage Project: Support preparation for Key Decision 0.

\$ 100K

Productivity Challenge

(\$2,863K)

Target and Planning Case Total

\$20,737K

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

Target and Planning Case Workslope:

Technical Integration and Planning: Provide program planning, HLW strategy, preparation of Program Element budget, schedule, WBS and plans, and change control. Interface with other Program Elements.

Complete melter evaluation and reference melter selection (TPA M-51-02).

Complete pre-conceptual trade studies and alternatives evaluation.

Begin glass container product qualification testing.

Complete conceptual and advanced conceptual design for a HLW vitrification facility (TPA M-51-03-T01).

Begin reference melter system development testing.

Begin design feed processability assessment and continue glass formulation and process development.

Begin HLW permitting and safety/health documentation and continue waste form qualification documentation.

Begin HLW facility definitive design (TPA M-51-03-T02).

~~NARRATIVE Continued~~

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NARRATIVE Continued

Impacts/Assumptions(Limit 42 lines or less):

In an effort to enhance cost efficiencies, this ADS reflects a productivity commitment which achieves the same workscope at a lower unit rate, or the application of more efficient processes, or through cost avoidance. The second TDD is where this productivity commitment is reflected. This TDD also reflects G&A rate updates.

Facility is government designed, constructed, and operated

Adequate development/demonstration of high-capacity vitrification systems is completed in time to support facility design

Two vitrification system candidates will be selected for further testing and conceptual design

The accepted waste package is monolithic glass in a larger, unqualified container

The selected reference melter system is one of the two candidates and a modified or new pilot-scale system is needed for further testing

The HLW vitrification facility is standalone with a footprint 25% larger than HWVP

Prototype full-scale vitrification system testing will not be required

Treatment of failed equipment is a responsibility of the HLW Program

Ten basic blended HLW feed types will require qualification

A reduction of funding to the decrement level in FY96 will delay the HLW program by 2-3 years. Of the nine HLW TPA milestones (M-51-XX) only the alternative concepts report (M-51-01) and the ECA proposal evaluation (M-51-01-T01) can be met.

Supporting Documents(Limit 5 lines or less):

DOE Order 5820.2A; 10 CFR 60; DOE Order 4700.1; TPA Milestone M-51-01; TPA Milestone M-51-02; TPA Milestone M-51-03-T01; TPA Milestone M-51-03-T02; TPA Milestone M-51-01-T01.

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 were submitted under separate cover.

NARRATIVE Continued

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DESCRIPTION OF REGULATORY DRIVERS

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Page: 1
 RL-1240-1 - Date: 6/01/1994 Time: 10:59

Operations Office: RL ID No.: 1240- 1 Revision Date: 5/27/1992
 ADS Title: VITRIFICATION
 WBS No.: 1.3.7.2.12 Category: Appr.:
 Project Title: HLW DISPOSAL (88 D-173) Facility/WAG: TREATMENT
 Installation: HANFORD CID: RL10930 ZOVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: SMITH, RA Phone: 509-376-8041
 O.O. Manager: BROWN, RW Phone: 509-376-7391
 H.Q. Manager: HENNESSEY, J Phone: 301-903-7191
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 100 TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: Y CWA: SDWA: RCRA: Y 3004U: TSCA: CERCLA: NEPA: Y
 DOE: IAG: OSHA: Y ORD: Y ST : TRI : Y FED : 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
TOTAL	0	0	0	0	0

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
TOTAL	0	0	0	0	0

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: SUB-DESC: TITLE: APPROP:	PROGRAM:	SUBACT:	FY96 DRIVER CATEGORY			
			DECREMENT	TARGET	PLAN	IMM RISK
			A	0	0	0
			B	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	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
TOTAL	0	0		TOTAL	0	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
	0
	0
	0
	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

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A106 Cross References

A106 Number: D-173-A Date:
Title: HANFORD WASTE VITRIFICATION PLANT
Federal Facility Identification:
Region: Assessment:
Status: Progress:

Tiger Team Cross References

Tiger Team Finding Number: Date:
Title: N/A

FY95-99 ADS Cross References

ADS #: RL 1240 1
Title:
Transferred in its entirety:
Explanation of Change:
N/A

MILESTONES

Milestone No.: Milestone Seq: 1240-01-0005 TPA MS NO.: M-03-06
Title: INITIATE INSTALLATION OF VIT BLDG MECH EQUIP AND PIPING
Planning Date Target Date Decrement Date Level: HQ Keyword: T
8/31/1994 1/01/9999 PTS: Y SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
The Target Date is TBD.

Milestone No.: Milestone Seq: 1240-01-0010 TPA MS NO.: M-03-03
Title: COMPLETE VITRIFICATION BLDG AND HWVP DETAILED DESIGN
Planning Date Target Date Decrement Date Level: HQ Keyword: T
12/31/1994 1/01/9999 PTS: Y SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
The Target date is TBD.

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1240-01-0015 TPA MS NO.: M-03-02
Title: COMPLETE HWVP CONSTRUCTION
Planning Date Target Date Decrement Date Level: HQ Keyword: T
6/30/1998 1/01/9999 PTS: Y SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
The Target date is TBD.

Milestone No.: Milestone Seq: 1240-01-0020 TPA MS NO.: M-03-00
Title: INITIATE HWVP OPERATIONS
Planning Date Target Date Decrement Date Level: HQ Keyword: T
12/31/1999 1/01/9999 PTS: Y SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
The Target date is TBD.

Milestone No.: Milestone Seq: 1240-01-0025 TPA MS NO.:
Title: KEY DECISION #4 - APPROVAL TO COMMENCE OPERATION
Planning Date Target Date Decrement Date Level: HQ Keyword: T
12/31/1999 1/01/9999 PTS: N SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
The Target date is TBD.

Milestone No.: Milestone Seq: 1240-01-0030 TPA MS NO.: M-03-07
Title: INITIATE INSTALLATION OF VIT BLDG ELEC AND INSTRUMENT SYSTEM
Planning Date Target Date Decrement Date Level: HQ Keyword: T
11/30/1994 1/01/9999 PTS: Y SMS: N
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
The Target date is TBD.

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1240-01-0035 TPA MS NO.: M-03-05
Title: INITIATE CONSTRUCTION OF THE VITRIFICATION BLDG FOUNDATION
Planning Date Target Date Decrement Date Level: HQ Keyword: T
3/31/1993 1/01/9999 PTS: Y SMS: Y
Driver Name: TRI Driver Reference:
PRESENT IN Tiger Team: N Program Execution Guidance: Y
Roadmap: N Current Year Workplan: Y Safety and Health: Y
Description:
The Target date is TBD.

NARRATIVE

LAST UPDATE: 04-24-1994 TIME: 18:08:39

Technical Scope Summary(Limit 15 line or less):

Technical Scope Detail(Limit 104 lines or less):

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

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

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

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

Impacts/Assumptions(Limit 42 lines or less):

Supporting Documents(Limit 5 lines or less):

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 were submitted under separate cover.

NARRATIVE Continued

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~~NARRATIVE Continued~~

LAST UPDATE: 11-19-1993 TIME: 14:34:32

01. TECHNICAL SCOPE

In accordance with the Defense Waste Management Plan and Hanford Defense Waste Program, the Hanford Waste Vitrification Plant (HWVP) has been established to immobilize liquid high-level defense waste and prepare for shipment to a geologic repository. The HWVP will vitrify pretreated waste into borosilicate glass, cast the glass into stainless steel canisters, and store the canisters until they are shipped to a federal geologic repository.

The current facility design includes a single production line with a capacity of 100 kg of vitrified waste (glass) per hour. The HWVP includes the main process building (Vitrification Building), Canister Storage Building, backup power generation, process steam boiler, feed and liquid waste storage tanks, feed and waste transfer pipelines, bulk chemicals receiving and storage, maintenance, and office facilities.

The HWVP vitrification process is designed to produce glass containing about 75 wt% glass-forming additives and 25 percent waste oxides. Waste feed is transferred as a slurry to the HWVP via underground, encased transfer lines. The feed is concentrated by evaporation and mixed with glass frit, along with chemical additives, and internally recycled waste to yield a concentrated melter feed slurry. The plant is designed to handle a wide range of alkaline feed slurries produced at Hanford. A large feed evaporation and liquid waste handling capacity is provided.

02. ACT. COMP TO DATE

The following items have been completed:

- 1) Submitted the Resource Conservation Recovery Act (RCRA) Part B application on July 28, 1989,
- 2) Key Decision No. 2 - Approval by Energy Systems Acquisition Advisory Board (ESAAB) in January 1990,
- 3) Selected General Construction Contractor on December 4, 1989, 4) Architect/Engineer commenced Detailed Design on January 15, 1990, 5) Preliminary Design (Bottoms-up) Cost Estimate completed in April 1990, 6) Preliminary Design Completed in September 1990, 7) Project Management Plan approved in November 1990,
- 8) Submitted Preliminary Safety Analysis Report to DOE-HQ for approval in June 1991,
- 9) Submitted RCRA Part B application, Revision 2, on October 1, 1991, 10) Preliminary Design cost estimate revision F completed in July 1991, 11) Key decision 3A approved to commence site preparation. 12) Initiated construction; was received in April, 1992. 13) PSAR approved by DOE-HQ for site preparation construction in March, 1992.
- 14) ESAAB approval for Key decision 3B was received in December, 1992. 15) Excavation for canister storage building foundation was completed in February, 1993.
- 16) Awarded contracts for construction of the Canister Storage building and operations administration building in February/March, 1993.

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03. CUR YR FY93 DESC

The Architect/Engineer is continuing with Detailed Design and has completed the design packages to support the construction of the site utilities, the canister storage building and the Operations Administration Building (OAB). Design is proceeding on the Vitrification Building, other site-support facilities, and equipment procurement packages. Site development construction activities will continue and construction of the Canister Storage Building and the OAB will be initiated. Project Management, Technology Development and Regulatory Compliance activities will proceed in accordance with the approved FY 1993 work plans.

04. BUD YR FY94 DESC

Based on a reassessment of required workscope and projected constrained outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1994 Congressional Budget Request and reflects an ADS total of \$54.3M. Additional adjustments may be required as a result of regulator and stakeholder discussions on the distribution of Richland's FY 1994 budget. These adjustments will require an FY 1994 budget amendment.

All detailed design and construction activities will cease except those required to support construction of the OAB and site utilities. Project termination of all HWVP Project activities would be completed. All design media would be turned over to RL and the design organization would be disbanded. All construction subcontracts would be terminated, subcontractors will demobilize, and the General Construction Contractor management team would be disbanded. The Westinghouse Hanford Company and RL-HWVP Project Offices would also be disbanded and personnel reassigned. Project technology activities will be transitioned to scope planned in the new technical strategy, which will be carried forward in FY 1995 under ADS 1240-0.

05. PLN YR FY95 DESC

All record processing activities would be completed, files archived, and project records turned over to RL.

06. OUT YR FY96-99 DESC

No activities planned for the out years.

07. KEY ASSUMPTIONS

The FY 1994 President's Budget for this ADS does not support any of the current regulatory compliance requirements and commitments. As a result, incremental funding of \$191.3M is needed and assumed in FY 1994 for the Planning case. All Planning Case milestones and narrative (for all years) assume that this incremental funding level is received in FY 1994.

Project termination directions to all HWVP Project participants will be

~~NARRATIVE Continued~~

Environmental Management
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given prior to October 1, 1993 to meet the Target Case.

The total estimated cost (TEC) and total project cost (TPC) are based on the planning case, as presented in the Validation Review in Richland on 4-22-93. The TEC and TPC associated with the Target Case is unavailable at this time.

08. KEY ISSUES AND UNCER

The timeliness of the decision to terminate HWVP Project will directly affect the ability to closeout HWVP contracts in an efficient manner within the funding constraints.

09. REG DRVS/SCOPE/CONSE

HWVP is an integral part of the HWD-EIS and the Tri-Party Agreement. The Target funding level would require high-level waste to remain as is in the double-shell tanks and would violate the intent of the Tri-Party Agreement as well as RCRA requirements. It will also result in a violation of the RCRA regulations, which do not allow indefinite storage of hazardous waste. A new approach to solve the tank waste issues, based on current regulatory requirements, would have to be devised, agreed to with the regulators, and be implemented.

10. LEGAL NOT IN TARGET

The Target funding violates the TPA Advise and Consent Order as currently written. The FY 1994 President's Budget for this ADS does not support any of the current regulatory compliance requirements and commitments. As a result, incremental funding of \$191.3M is needed and assumed in FY 1994 for the Planning Case. All Planning Case milestones and narrative (for all years) assume that this incremental funding level is received in FY 1994.

11. MGMT PRAC NOT IN TAR

None.

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DESCRIPTION OF REGULATORY DRIVERS

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Date: 6/01/1994

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 Time: 11:01

Operations Office: RL ID No.: 1270- 0 Revision Date: 5/27/1992
 ADS Title: MULTI-PURPOSE STORAGE COMPLEX
 WBS No.: 1.3.7.2.22 Category: Appr.:
 Project Title: MULTI-PURPOSE PROCESSING Facility/WAG: STORAGE
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: WOLFE, BA Phone: 509-376-1150
 O.O. Manager: BROWN, RW Phone: 509-376-7391
 H.Q. Manager: MARK, D Phone: 301-903-7132
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

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

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: 3004U: TSCA: CERCLA: NEPA:
 DOE: IAG: OSHA: ORD: ST : TRI : FED : 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
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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
TOTAL	0	0	0	0	0

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
TOTAL	0	0	0	0	0

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:							FY96 DRIVER CATEGORY			
SUB-DESC:	PROGRAM:	SUBACT:				DECREMENT	TARGET	PLAN	IMM RISK	
TITLE:										
APPROP:										
B&R	FY94	APPR	FY95	PRES	FY95	APPR	A	0	0	0
							B	0	0	0
							C	0	0	0
							D	0	0	0
							E	0	0	0
							F	0	0	0
							G	0	0	0
							H	0	0	0
							I	0	0	0
TOTAL							TOTAL	0	0	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
	0
	0
	0
	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

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Al06 Cross References

Al06 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
Title: _____
Transferred in its entirety: _____
Explanation of 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

Environmental Management
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DESCRIPTION OF REGULATORY DRIVERS

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Environmental Management
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Operations Office: RL ID No.: 1270- 1 Revision Date:
 ADS Title: W-303 MULTIPURPOSE PROCESSING AND STORAGE COMPLEX
 WBS No.: 1.3.7.2.22 Category: Appr.:
 Project Title: MULTI-PURPOSE PROCESSING Facility/WAG: STORAGE
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: WOLFE, BA Phone: 509-372-3543
 O.O. Manager: BROWN, RW Phone: 509-376-7391
 H.Q. Manager: TSENG, JC Phone: 301-903-7171
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 100 TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: 3004U: TSCA: CERCLA: NEPA:
 DOE: Y IAG: OSHA: ORD: ST : TRI : FED : 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
TOTAL	0	0	0	0	0

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
TOTAL	0	0	0	0	0

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:					FY96 DRIVER CATEGORY			
SUB-DESC:	PROGRAM:	SUBACT:	DECREMENT	TARGET	PLAN	IMM	RISK	
TITLE:								
APPROP:					0	0	0	0
			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	0		E	0	0	0	
	0	0		F	0	0	0	
	0	0		G	0	0	0	
	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
	0
	0
	0
	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

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A106 Cross References

A106 Number: _____ Date: _____
Title: N/A
Federal Facility Identification: _____
Region: _____ Assessment: _____
Status: _____ Progress: _____

Tiger Team Cross References

Tiger Team Finding Number: _____ Date: _____
Title: N/A

FY95-99 ADS Cross References

ADS #: RL 1270 1
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____
NEW ADS

MILESTONES

Milestone No.: _____ Milestone Seq: 1270-01-0010 TPA MS NO.: N/A
Title: KEY DECISION 1 - APPROVAL OF NEW START
Planning Date Target Date Decrement Date Level: HQ Keyword: O
4/30/1994 4/30/1997 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:

Milestone No.: _____ Milestone Seq: 1270-01-0015 TPA MS NO.: N/A
Title: KEY DECISION 2 - APPROVAL TO COMMENCE DETAILED DESIGN
Planning Date Target Date Decrement Date Level: HQ Keyword: O
9/30/1994 1/01/9999 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: Y
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
Target Completion Date is TBD.

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1270-01-0020 TPA MS NO.: N/A
Title: KEY DECISION 3 - APPROVAL TO COMMENCE CONSTRUCTION
Planning Date Target Date Decrement Date Level: HQ Keyword: 0
6/30/1995 1/01/9999 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
Target Completion Date is TBD.

Milestone No.: Milestone Seq: 1270-01-0025 TPA MS NO.: N/A
Title: KEY DECISION 4 - APPROVAL TO COMMENCE OPERATION
Planning Date Target Date Decrement Date Level: HQ Keyword: 0
9/30/1996 1/01/9999 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
Target Completion Date is TBD.

NARRATIVE

DESCRIPTION OF REGULATORY DRIVERS

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Operations Office: RL ID No.: 1280- 0 Revision Date: 5/31/1992
 ADS Title: MULTI-FUNCTION WASTE REMEDIATION FACILITY
 WBS No.: 1.3.7.2.17 Category: WM Appr.:
 Project Title: MULTI-FUNCTION WASTE REM Facility/WAG: 200 AREAS
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR Manager: SIANO, MA Phone: 509-376-1580
 O.O. Manager: BROWN, RW Phone: 509-376-7391
 H.Q. Manager: MARK, D Phone: 301-903-7132
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

HLW: 100 TRU: TRU MIX: LLW: MLLW: HAZ: SANT: SNF:

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: 3004U: TSCA: CERCLA: NEPA:
 DOE: Y IAG: OSHA: ORD: ST : TRI : Y FED : 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	19,467	22,257		A	126,343	148,848	148,828	0
CE	0	0		B	0	0	0	0
GPP	0	0		C	0	0	0	0
LI	45,660	93,750		D	0	0	0	0
				E	0	0	0	0
TOTAL	65,127	116,007		F	0	0	0	0
				G	0	0	0	0
				H	0	0	0	0
				I	0	0	0	0
				TOTAL	126,343	148,848	148,828	0

DECREMENT LEVEL (Dollars in Thousands)

B&R	FY 96 DECR LEVEL
OE	3,397
CE	0
GPP	0
LI	122,946
TOTAL	126,343

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TARGET LEVEL (Dollars in Thousands)

B&R Cat.	FY96	FY97	FY98	FY99	FY00
OE	3,456	3,875	11,700	9,414	6,220
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	145,392	152,365	156,819	85,914	88,552
TOTAL	148,848	156,240	168,519	95,328	94,772

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	3,436	3,875	11,700	9,414	6,220
CE	0	0	0	0	0
GPP	0	0	0	0	0
LI	145,392	152,365	156,819	85,914	88,552
TOTAL	148,828	156,240	168,519	95,328	94,772

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: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER		CATEGORY		
SUB-DESC: PROGRAM: EM SUBACT: AA				DECREMENT	TARGET	PLAN	IMM RISK	
TITLE: W-236A Multi-Function Waste Tank								
APPROP: D								
				A	109,617	110,105	110,105	0
				B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0	0
				D	0	0	0	0
EW3130010	2,467	1,050		E	0	0	0	0
35EW31301	0	0		F	0	0	0	0
39EW31301	0	0		G	0	0	0	0
39EW31301	35,660	83,975		H	0	0	0	0
				I	0	0	0	0
TOTAL	38,127	85,025		TOTAL	109,617	110,105	110,105	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	492
35EW31301	0
39EW31301	0
39EW31301	109,125
TOTAL	109,617

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	980	930	1,380	935	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	109,125	112,675	69,615	0	0
TOTAL	110,105	113,605	70,995	935	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	980	930	1,380	935	0
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	109,125	112,675	69,615	0	0
TOTAL	110,105	113,605	70,995	935	0

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Budget Detail Profile

DESC: RICHLAND TANK WASTE REMED SYS-NFP				FY96 DRIVER CATEGORY			
SUB-DESC: PROGRAM: EM SUBACT: ZZ				DECREMENT	TARGET	PLAN	IMM RISK
TITLE: IPM budget							
APPROP: D							
			A	16,726	38,743	38,723	0
			B	0	0	0	0
B&R	FY94 APPR	FY95 PRES	FY95 APPR	C	0	0	0
			D	0	0	0	0
EW3130010	17,000	21,207		E	0	0	0
35EW31301	0	0		F	0	0	0
39EW31301	0	0		G	0	0	0
39EW31301	10,000	9,775		H	0	0	0
				I	0	0	0
TOTAL	27,000	30,982		TOTAL	16,726	38,743	0

DECREMENT LEVEL (Dollars in Thousands)

B&R CODE	FY96 DECR LEVEL
EW3130010	2,905
35EW31301	0
39EW31301	0
39EW31301	13,821
TOTAL	16,726

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	2,476	2,945	10,320	8,479	6,220
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	36,267	39,690	87,204	85,914	88,552
TOTAL	38,743	42,635	97,524	94,393	94,772

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
EW3130010	2,456	2,945	10,320	8,479	6,220
35EW31301	0	0	0	0	0
39EW31301	0	0	0	0	0
39EW31301	36,267	39,690	87,204	85,914	88,552
TOTAL	38,723	42,635	97,524	94,393	94,772

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A106 Cross References

A106 Number:

Date:

Title: N/A

Federal Facility Identification:

Region:

Assessment:

Status:

Progress:

Tiger Team Cross References

Tiger Team Finding Number: N/A

Date:

Title: N/A

FY95-99 ADS Cross References

ADS #: RL 1280 0

Title: 1280

Transferred in its entirety:

Explanation of Change:

N/A

MILESTONES

Milestone No.: Milestone Seq: 1280-00-0005 TPA MS NO.: N/A
Title: Key Decision 2 - Start Detailed Design (W-236A)
Planning Date Target Date Decrement Date Level: HQ Keyword: S
1/31/1994 1/31/1994 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:

Milestone No.: Milestone Seq: 1280-00-0010 TPA MS NO.: N/A
Title: Key Decision 3 - Approval to Commence Construction (W-236A)
Planning Date Target Date Decrement Date Level: HQ Keyword: S
6/30/1995 6/30/1995 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:

MILESTONES Continued

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MILESTONES Continued

Milestone No.: Milestone Seq: 1280-00-0075 TPA MS NO.: N/A
Title: Complete W-236A Definitive Design
Planning Date Target Date Decrement Date Level: HQ Keyword: S
1/15/1996 1/15/1996 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:

Milestone No.: Milestone Seq: 1280-00-0020 TPA MS NO.: M-50-01
Title: Submit Conceptual Design and Initiate Definitive Design LLW Fac.
Planning Date Target Date Decrement Date Level: FO Keyword: T
12/31/1996 12/31/1996 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
This milestone will be satisfied when the contractor approved LLW Pretreatment Facility Module 1 Conceptual Design Report incorporating RL comments is submitted for approval to RL and work is initiated on definitive design.

Milestone No.: Milestone Seq: 1280-00-0025 TPA MS NO.: M-50-01
Title: Start Construction of LLW Pretreatment Facility
Planning Date Target Date Decrement Date Level: FO Keyword: T
11/30/1998 11/30/1998 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
This milestone will be satisfied when construction is started on the LLW Pretreatment facility module 1.

Milestone No.: Milestone Seq: 1280-00-0085 TPA MS NO.: M-31-00
Title: Provide Additional Storage Tanks, Complete Construction (W-236A)
Planning Date Target Date Decrement Date Level: HQ Keyword: S
10/31/1999 10/31/1999 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: Y
Description:

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Milestone No.: Milestone Seq: 1280-00-0015 TPA MS NO.: N/A
Title: Key Decision 4 - Approval to Commence Operation (W-236A)
Planning Date Target Date Decrement Date Level: HQ Keyword: T
12/31/1999 12/31/1999 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:

Milestone No.: Milestone Seq: 1280-00-0030 TPA MS NO.: M-50-02
Title: Complete Construction of LLW Pretreatment Facility
Planning Date Target Date Decrement Date Level: FO Keyword: T
12/31/2003 12/31/2003 PTS: N SMS: N
Driver Name: TRI Driver Reference: Tri Party Agreement
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: N
Description:
This milestone will be satisfied with the transmittal of Section 1 of Official
Acceptance of Construction (OAC) for the LLW Pretreatment Facility Module 1 to DOE-
RL.

Milestone No.: Milestone Seq: 1280-00-0045 TPA MS NO.: N/A
Title: KEY DECISION 1 - APPROVAL OF NEW START (W-236B)
Planning Date Target Date Decrement Date Level: HQ Keyword: CR
6/30/1994 1/01/9999 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
The Target date is N/A due to the discontinuation of IPM.

Milestone No.: Milestone Seq: 1280-00-0050 TPA MS NO.: N/A
Title: KEY DECISION 2 - APPROVAL TO START DETAILED DESIGN (W-236B)
Planning Date Target Date Decrement Date Level: HQ Keyword: CR
7/31/1995 1/01/9999 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
The Target Date is N/A due to the discontinuation of IPM.

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MILESTONES Continued

Milestone No.: Milestone Seq: 1280-00-0055 TPA MS NO.: N/A
Title: KEY DECISION 3A - APPROVAL TO START PROCUREMENT (W-236B)
Planning Date Target Date Decrement Date Level: HQ Keyword: CR
7/31/1995 1/01/9999 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
The Target Date in N/A due to the discontinuation of IPM.

Milestone No.: Milestone Seq: 1280-00-0060 TPA MS NO.: N/A
Title: KEY DECISION 3B - APPROVAL TO START PHASE I CONSTRUCTION (W-236B)
Planning Date Target Date Decrement Date Level: HQ Keyword: CR
3/31/1996 1/01/9999 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
The target date is N/A due to the discontinuation of IPM.

Milestone No.: Milestone Seq: 1280-00-0065 TPA MS NO.: N/A
Title: KEY DECISION 3C - APPROVAL TO START PHASE II CONST (W-236B)
Planning Date Target Date Decrement Date Level: HQ Keyword: CR
2/28/1997 1/01/9999 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
The Target Date is N/A due to the discontinuation of IPM.

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MILESTONES Continued

Milestone No.: Milestone Seq: 1280-00-0070 TPA MS NO.: N/A
Title: KEY DECISION 4 - APPROVAL TO START OPERATIONS (W-236B)
Planning Date Target Date Decrement Date Level: HQ Keyword: CR
12/31/1999 1/01/9999 PTS: N SMS: N
Driver Name: N/A Driver Reference: N/A
PRESENT IN Tiger Team: N Program Execution Guidance: N
Roadmap: N Current Year Workplan: N Safety and Health: Y
Description:
The Target Date is N/A due to the discontinuation of IPM.

NARRATIVE

LAST UPDATE: 04-28-1994 TIME: 16:36:58

Technical Scope Summary(Limit 15 line or less):

The Secretary's Decision Letter of December 20, 1991, created the Tank Waste Remediation System (TWRS) and directed early implementation of waste processing facilities. These facilities were to be focused on resolving the Tank Safety issues by providing additional waste storage capacity and by destroying the source of the issue and pretreating selected wastes to allow progress towards disposal of the wastes. A new Major System Acquisition (MSA) was created. The Initial Pretreatment Module (IPM), W-236B, would contain the processes and facilities to meet these goals.

Technical Scope Detail(Limit 104 lines or less):

On January 25, 1994, major revisions were made to the Hanford Federal Facility Agreement and Consent Order or Tri-Party Agreement (TPA). The basis for the January 1994 TPA revised the approach for tank waste pretreatment to concentrate on removal of cesium from supernatant liquid streams and treatment of tank sludges by sludge washing and caustic leaching with subsequent treatment of liquids to remove cesium and other identified radionuclides. As a result, the IPM project scope has been modified to reduce the importance of providing organic destruction capabilities for safety remediation, but has increased the priority of providing cesium separations capability. In addition the scope of the project has changed in that the primary focus of the IPM prior to January, 1994 was treatment of the 17 identified watch-list tanks, and the scope after January, 1994 is now the treatment of all 177 waste tanks. Providing organic destruction capabilities for resolution of waste tank safety issues is now being carried as a contingency for implementation only if required by the tank waste safety program.

The workscope in this ADS includes project definition, engineering studies, development of project design criteria, conceptual design, project

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validation, technology development, definitive design, procurement, construction, permitting, safety documentation, NEPA documentation, operations support and system startup, and project management.

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

An engineering study, F&OR document, Architect/Engineer selection, Key decision '0', and 30% completion of the conceptual design have been accomplished for the pre-January 1994 IPM project. For the post-January IPM project a draft F&OR document has been prepared. Also in support of the IPM project, a F&OR document conceptual design report have been completed for the Cesium Demonstration Unit (CDU).

In FY 1994 the Initial Pretreatment Module (IPM) planned deliverables are: conduct definitive studies of potential organic and ferrocyanide destruction processes leading to a single process selection; Complete conceptual design for the cesium demonstration unit (CDU) and initiate Title I design; and initiate conceptual design on the full-scale IPM facility.

Prepare a schedule and cost estimate to support capital funding authorization for the Cesium Demonstration Unit (CDU) in FY 1994 and to support capital authorization for the full-scale IPM facility in FY 1995. Continue Preliminary Design (Title I) for the CDU effort to support the initiation of Detailed Design (Title II).

Initiate IPM Conceptual Design, Action Description Memorandum, continue Applied Technology Development, and preliminary safety evaluation.

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

Based on an assessment of required workscope and projected outyear funding levels, the workscope identified in this ADS assumes a redistribution of Richland's FY 1995 Congressional Budget request. The delta change from the President's budget is (\$6,202K), resulting in a new total of \$21,207K. These adjustments may require a FY 1995 budget amendment.

Target/Planning Level Activities

Continue work and complete conceptual design report for the LLW and HLW pretreatment facilities, complete PSE on the LLW pretreatment facility module 1, initiate work on the advanced conceptual design (ACDR) for these facilities, and initiate the PSE for the LLW pretreatment module 2. Continue with project engineering, project management, safety analysis, and permitting support for these activities. Upon completion of the LLW pretreatment facility CDR, the architectural engineering staff would be maintained and utilized to prepare the ACDR in order to keep project design momentum continuing. In addition, safety evaluations, permitting, and related engineering studies are carried forward in a more aggressive manner

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than in the target case in order to support the earlier completion of the project.

To support design activities for the pretreatment facilities additional applied technology development is needed. Funding is provide to begin a conceptual design for the first phase of additional testing. The design may include in its scope a small stand alone facility, and/or a processing module or series of modules that may be housed in existing facilities as well as in the stand alone facility. The test facilities would include the capability to test pretreatment processes with actual tank wastes on a continuous basis. The test modules would be able to test individual unit operations as well as whole processes as identified in the conceptual design for the Low Level Waste Pretreatment Facility.

Cesium Demonstration Unit design is discontinued.

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

Decrement Level Activities-

Continue advanced conceptual design activities for the LLW pretreatment facility and complete. \$ 1,452K

Initiate title I design for the LLW pretreatment facility. \$ 13,821K

Continue project engineering, project management, safety evaluation, and permitting support for these activities. \$ 1,452K

Decrement Total: \$ 16,726K

Target/Planning Level Activities-

Increased project engineering and management to support the project activities related to the accelerated schedule possible in the planning case. Provide operations support of facility designs and initiation of preparation of operations documentation and training preparation. \$ 4,600K

Complete the Advanced Conceptual Design report for the first LLW pretreatment facility. The LLW pretreatment facility Title I activities would be initiated and carried forward at an accelerated rate with completion in FY97. \$17,594K

Complete the PSE for the LLW pretreatment facility module 2, continue the PSAR for the LLW pretreatment facility module 1, initiate the PSAR for the 2nd module, and initiate the PSE for the HLW pretreatment facility. \$ 1,000K

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Productivity Challenge

(\$ 1,298K)

Target Level Funding Total

\$38,723K

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

Target/Planning Level Case

Planning level activities aggressively work toward meeting the requirements of the TPA. Significant accomplishments for the LLW pretreatment facilities will include completion of Title I design in FY 97, completion of Title II design in FY 1999, and initiation of construction of the first LLW pretreatment facility in FY 1999. Significant accomplishments for the HLW pretreatment facility will include completion of Title I design and initiation of Title II design in FY 2000. The additional testing capabilities to support the design of the Low-Level and High-Level Pretreatment facilities will be brought on line beginning in FY 1997. These testing facilities will satisfy applied technology needs including testing on simulated and actual tank wastes.

Impacts/Assumptions(Limit 42 lines or less):

The LLW and HLW Pretreatment facility conceptual designs are not done simultaneously. In order to support LLW Pretreatment Facility design, additional engineering costs are incurred due to the need to evaluate the effect of solids processing on the LLW pretreatment facility, which will be treating liquids from the sludge (HLW) treatment facility. The HLW pretreatment facility will produce significant quantities of liquids, when compared to existing supernatant liquids currently present in the tank farms, to be treated in the LLW pretreatment facility. For example, it is expected that the sludge washing liquids will contain much cesium. In addition, inconsistent lab-scale testing results indicate that TRU materials may also need to be removed from these liquids.

Only one CDR would be required for both LLW pretreatment facilities. The second facility would be constructed following an additional Title I, and Title II design, not as a duplicate of the first LLW pretreatment facility. In addition, separate permitting would be required for each facility.

The IPM Project would continue to support development of an organic destruction process for safety remediation as a contingency to the tank safety program. It is assumed that this contingency will not be needed and will be dropped in FY 1995.

Cesium separations requirements are driven by producing a stream that will allow the LLW vitrification facility to be a low shielded facility. Removal requirements for other radionuclides will be identified by the LLW vitrification performance assessment.

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HLW facility includes sludge washing and caustic leach processes only. The funding for this facility will be used for additional tank farm needs for in-tank washing or may be utilized to provide a smaller-scale (less than 1,000,000 gallons) sludge washing capability.

A hot test facility to demonstrate process or facility operations is required. Conceptual design of the hot test facility is proceeded by the FY94 hot test facility requirements study. Design will not proceed until the study is complete and has identified a need for hot pilot testing.

Design and construction costs for a cesium demonstration unit are not included. If TWRS strategy indicates that the CDU should go forth as the preferred pretreatment facility strategy, additional Line Item capital funding would be required in FY 95 and 96. In order to support validation the project data sheets (PDS) includes these incremental costs.

Supporting Documents(Limit 5 lines or less):

Hanford Defense Waste Environmental Impact Statement-Record of Decision. 10CFR 260-270, RCRA Hazardous Waste Regulations. National Environmental Policy Act (NEPA). Washington State Environmental Policy Act.

Performance Measures(Limit 15 lines or less):

Tri Party Agreement Milestones: M-50-01 Start Construction of LLW pretreatment facility M-50-02-T01 Complete Construction of LLW pretreatment facility M-50-02 Start hot operations of LLW pretreatment facility M-50-04-T01 Submit conceptual design of HLW pretreatment facility M-50-04-T02 Initiate definitive design of HLW pretreatment facility M-50-04-T03 Start construction of HLW pretreatment facility M-50-04 Start hot operations of HLW pretreatment facility TPA Milestones M-31-00, and M-31-01.

LAST UPDATE: 05-07-1993 TIME: 15:12:21

01. TECHNICAL SCOPE
02. ACT. COMP TO DATE
03. CUR YR FY93 DESC
04. BUD YR FY94 DESC
05. PLN YR FY95 DESC
06. OUT YR FY96-99 DESC
07. KEY ASSUMPTIONS
08. KEY ISSUES AND UNCER
09. REG DRVS/SCOPE/CONSE
10. LEGAL NOT IN TARGET
11. MGMT PRAC NOT IN TAR

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Operations Office: RL ID No.: 1290- 0 Revision Date: 5/28/1992
 ADS Title: WASTE TANK DISPOSAL - NEW FACILITY PLANNING
 WBS No.: 1.3.7.2.26 Category: Appr.:
 Project Title: TWRS-NEW FACILITY PLANNI Facility/WAG:
 Installation: HANFORD CID: RL10930 %OVHD: 18
 For Line Item Project: TPC: TEC:
 Contig: 0
 CNTR- Manager: Phone:
 O.O. Manager: Phone:
 H.Q. Manager: Phone:
 Auxiliary Fields: 1. 2. 3.

WASTE TYPES (% of FY96 Dollars)

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

REGULATORY DRIVERS

CAA: CWA: SDWA: RCRA: 3004U: TSCA: CERCLA: NEPA:
 DOE: IAG: OSHA: ORD: ST : TRI : FED : 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
TOTAL	0	0	0	0	0

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
TOTAL	0	0	0	0	0

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:							FY96 DRIVER CATEGORY		
SUB-DESC:	PROGRAM:	SUBACT:	DECREMENT	TARGET	PLAN	IMM	RISK		
TITLE:									
APPROP:									
			0	0	0	0	0		
			0	0	0	0	0		
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	
	0	0		E	0	0	0	0	
	0	0		F	0	0	0	0	
	0	0		G	0	0	0	0	
	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
	0
	0
	0
	0
TOTAL	0

TARGET LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

PLANNING LEVEL (Dollars in Thousands)

B&R CODE	FY96	FY97	FY98	FY99	FY00
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
TOTAL	0	0	0	0	0

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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
Title: _____
Transferred in its entirety: _____
Explanation of Change: _____

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

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DESCRIPTION OF REGULATORY DRIVERS

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