

0073083

Meeting Minutes Transmittal/Approval
Tri-Party Agreement Milestone Review Meeting
EPA Conference Room
March 25, 1997

From/
Appvl.: _____ Date: _____
Charles A. Hansen, RL
IAMIT Representative

Appvl.: _____ Date: _____
Michael Wilson, Ecology
IAMIT Representative

Appvl.: _____ Date: _____
Doug Sherwood, EPA
IAMIT Representative

Prepared by
Appvl.: _____ Date: _____
W. Russ Brown
Fluor Daniel Hanford, Inc.

Distribution

Alexander, S. M.	Ecology	B5-18	Miera, F. R.	RL	A5-15
Arnold, L. D.	FDH	B2-35	Morrison, R. D.	FDH	B2-35
Blazek, M. L.	ODOE		Sanders, G. H.	RL	A5-15
625 Marion N.E., Salem, OR	97310*		Selby, M. A.	Ecology	B5-18*
Brown, W. R.	FDH	B2-35	Sherwood, D.	EPA	B5-01
D. Dunning	ODOE		Skinnarland, R.	Ecology	B5-18
625 Marion N.E., Salem, OR	97310*		Smith, R. M.	PNNL	K6-96
Hansen, C. A.	RL	S7-41	Thompson, K. M.	RL	H0-12
Holt, R. G.	RL	S7-41	Wilson, M. A.	Ecology	B5-18
Jackson, D. E.	RL	A5-15	Yerxa, J. K.	RL	A7-75
Leja, S	Ecology	B5-18	EDMC		H6-08
Luttrell, S. P.	PNNL	K6-96			

* W/Attachments

MILSTN03.25

Minutes never approved
Add to AIRFOR PURPOSES
OF ATTACHMENTS

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JUN 25 2007
EDMC

Meeting Minutes
TPA Milestone Review Meeting
EPA Conference Room
March 25, 1997

1. M-26-01 LDR Annual Report

Deleted some streams (Attachment 1). Reflects new PHMC Contract.

2. M-18

M-18 Completed WRAP I on March 12, 1997
M-19 Low Level Mixed Waste
M-91 TRU/TRUM
(Attachment 2)

3. M-20-00

Presented by Roger Bowman (Attachment 3) RCRA Part B & Closure Plans.

Moses Jaraysi wished to highlight that 15 units have been closed since the Hanford Permit was issued.

PUREX - Knollmeyer & Beaver must interface. This is a PHMC and BHI interface issue. Transfer of RCRA permitted facilities to BHI is the primary issue (generic) that must be resolved. Costs associated with these transfers is a significant portion of this issue.

Action: DOE must update IAMIT on what DOE is doing about this issue.

4. M-32-00 Waste Tanks/Corrective Action (Attachment 4)

Ana Sherwood presented. Project W-087 may require modifications to existing milestones. Double Shell Tanks "Integrity work date may be in jeopardy if Ecology does not agree with DOE's definition of an IQRPE" according to Mike Wilson, Ecology.

5. M-32-02

M-32-02 Change Control package must be submitted due to funding constraints. Proposed new date for completion is April 1999.

6. Project W-087

Corrective actions for skin contaminations have occurred, following a Type C Investigation. Corrective Actions based on investigation conclusion that a centralized management structure was missing from WHC. RUST is working to rectify this situation.

7. M-24 RCRA GW Wells (Attachment 5)

Marv Furman presented. No issues or action items were identified in this presentation.

8. M-34 Spent Fuel (Attachment 6)

Bob Holt presented. Mike DeWitt, DESH will be helping with Engineering and Cost Analysis.

Bob Holt addressed all Fiscal and Engineering issues associated with SNF Project.

TPA MAJOR MILESTONE MANAGEMENT REVIEW
 WEDNESDAY, MARCH 25, 1997

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE</u>
Russ Brown	FDH-TRAI	376-4026
George Sanders	DOE-RL	376-6888
Kary D. Curved	FDHI-TRAI	376-9115
Yale Jackson	DOE-RL-EAP	376-4851
Ron Skinnarland	Ecology	736-3091
JON YERXA	DOE	376-9628
Mary Lou Blazek	ODCE	303 375-5544
Felicia R. Miera	RL/EAP	373-2589
Steve Alexander	Ecology	736-3045
Ron Smith	PNNL	376-5831
Stan Geja	Ecology	736-3046
Stuart Luttrell	PNNL	376-6023
K. Michael Thompson	RL-AME	373-0750
MIKE WILSON	ECOLOGY	360-401-7150
Doug Sherwood	EPA	376-9529
Charles Hansen	DOE RL	376 7434
Malcolm Delley	Ecology	736-3021
Bob Holt	RL/SFD	376-9989

att. please

AGENDA

TRI-PARTY AGREEMENT MAJOR MILESTONE MANAGEMENT REVIEW
(CHAIRPERSON: D. R. SHERWOOD)

TUESDAY, MARCH 25, 1997

Location: EPA Conference Room
712 Swift Blvd. Richland

<u>TIME</u>	<u>MILESTONE</u>	<u>TITLE</u>	<u>RL DIVISION DIRECTOR</u>	<u>CONTRACTOR MANAGER</u>	<u>PRESENTER</u>
9:00 am	M-26-01	LDR Annual Report	T. K. Teynor	J. A. Winterhalder	R. F. Guercia
	M-18-00	WRAP I	T. K. Teynor	D. E. McKenney	R. F. Guercia
	M-19-00	WRAP II	T. K. Teynor	D. E. McKenney	R. F. Guercia
	M-91-00	Acquistion of Facilities to TSD TRU/TRUM, LLMW and GTC3	T. K. Teynor	D. E. McKenney	R. F. Guercia
10:00am	M-20-00	Part B and Closure Plans	J. E. Rasmussen	S. M. Price	E. M. Mattlin
10:20am	M-32-00	Waste Tanks/ Corrective Action	J. E. Rasmussen	S. M. Price	A. R. Sherwood
10:30am	M-24-00	RCRA Groundwater Wells	R. A. Holten	M. C. Hughes	M. J. Furman
10:40am	M-34-00	Spent Nuclear Fuel	E. D. Sellers	D. J. Watson	R. G. Holt
11:00am	ADJOURN				

LAND DISPOSAL RESTRICTIONS ANNUAL REPORT

M-26-01

WASTE PROGRAMS DIVISION
R. F. Guercia
March 25, 1997

Milestone Description

- M-26-01 Submit an annual Hanford Site LDR Report in accordance with the LDR Plan to cover the period from April 1 through March 31.
- Deliverables Submit the "1997 Hanford Site Land Disposal Restrictions for Mixed Waste" to EPA and Ecology (M-26-01G)
- Schedule Report submitted annually by April 30.

RL Program Manager's Assessment of Contractor Performance

- Satisfactory Performance, on Schedule.

Accomplishments

- Began preparation process for the 1997 report in November 1996.
- Integrated new PHMC subcontractors into document input process.
- Contractor review is complete, RL review nearly complete.

Planned Actions

- Issue the 1997 report in April 1997.

Milestone Assessment - schedule and technical

- On schedule

Non-TPA Regulatory Issues.Potential Impacts on TPA

- None

Budget

- Budget versus cost (\$ in 000's)

	FY 1997 - CUMULATIVE					FY Total
	Oct	Nov	Dec	Jan	Feb	
FYTD Budget	9	18	32	41	46	107
FYTD Cost	7	16	26	35	48	
Spending Variance	2	2	6	6	-2	

Issue/Status

Changes in 1997 Report

- Seven streams deleted from the report
 - PUREX Aging Waste (in DSTs)
 - 4843 Sodium Storage Facility Waste (at CWC)
 - PUREX Ammonia Scrubber Waste (in DSTs)
 - PUREX Process Condensate (in DSTs)
 - Hexone Waste (Incinerated offsite, residuals at CWC)
 - 183-H Solar Evaporator Basins Waste (at CWC)
 - 303-K Stored Waste (at CWC)
- Three new streams added to report
 - B Plant Cell 4 Waste
 - B Plant Containment Building Storage
 - B Plant Organic Waste

Changes in 1997 Report, Continued

- M-90 ILAW and IHLW milestones added
- M-91 TRU and LLW milestones added
- M-92 milestones added to LDR schedules, but no new streams added
 - Cs/Sr Capsules - not yet declared waste (Dec. 1997 permit app.)
 - Unirradiated Uranium - not yet considered waste. Some will be considered for redeployment during M-92 activities.
 - Bulk Sodium - not considered waste. Some to be sold to offsite vendors, proposed TWRS pretreatment uses.
 - Special Case Waste - not yet considered waste, still under evaluation. (324/327 bldg. Material owned by BWHC, other by PNNL).

M-18-00, M-19-00 & M-91-00

WASTE PROGRAMS DIVISION

R. F. Guercia

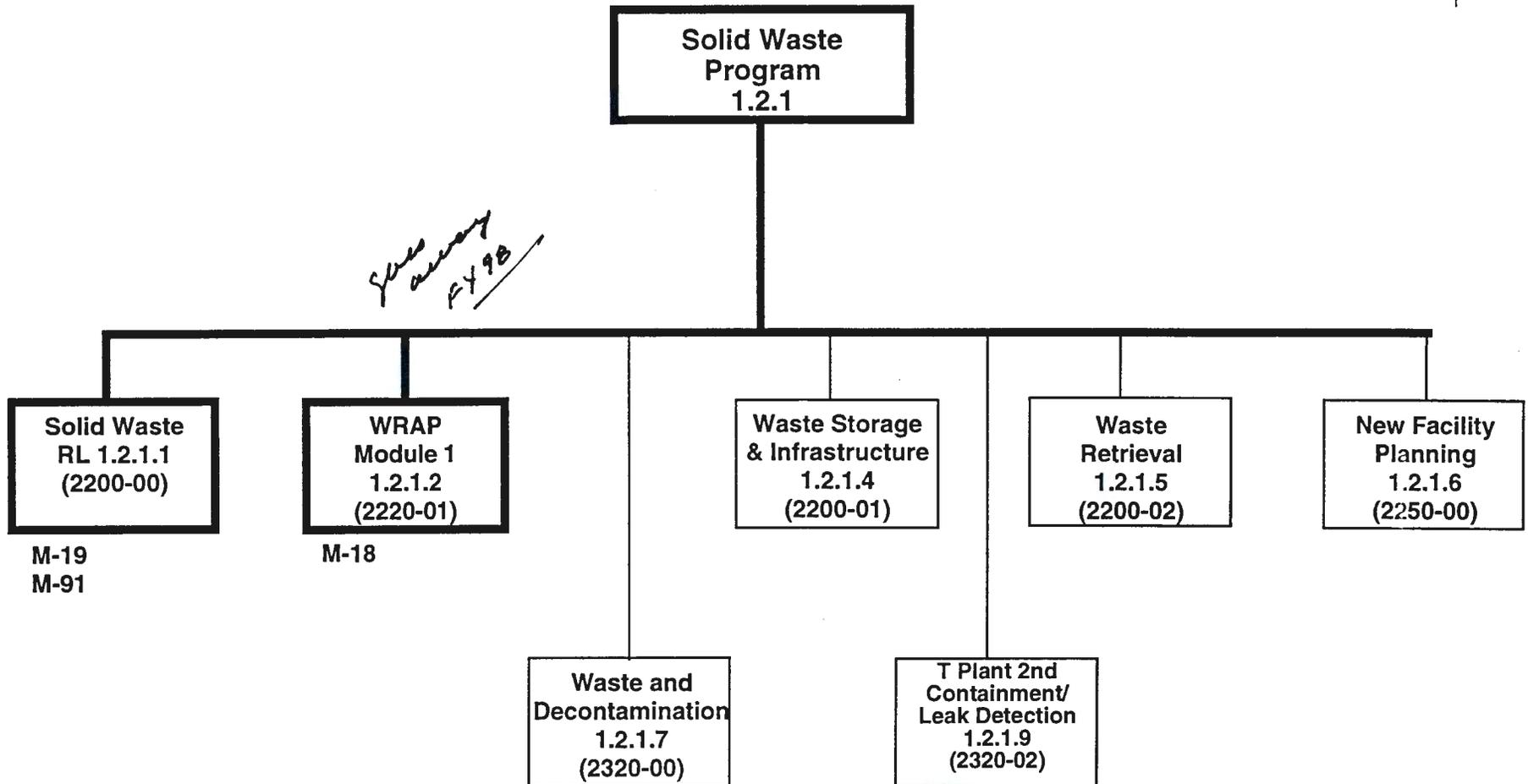
February 1997

TPA MILESTONE REVIEW	RUST FEDERAL SERVICES OF HANFORD INC. 1.2.1 SOLID WASTE PROGRAM	FEBRUARY 1997
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MILESTONE DESCRIPTION

TPA MILESTONE	DESCRIPTION
M-18-00	Complete WRAP Module 1 construction and initiate operations.
M-19-00	<p>Complete treatment and/or direct disposal of at least 1,644 cubic meters of Contact Handled Low Level Mixed Waste already in storage as of October 1, 1995, as well as newly generated Hanford Site low level mixed waste.</p> <p>Cumulative treatment and/or direct disposal rates will be at least 246 cubic meters by the end of FY 2000, 822 cubic meters by the end of FY 2001, and 1,644 cubic meters by the end of FY 2002.</p>
M-91-00	Complete the acquisition of new facilities, modification of existing facilities, and/or modification of planned facilities necessary for storage, treatment/processing, and disposal of all Hanford site TRU/TRUM, LLMW, and GTC3.

Work Breakdown Structure



TPA MILESTONE REVIEW	RUST FEDERAL SERVICES OF HANFORD INC. 1.2.1 SOLID WASTE PROGRAM	FEBRUARY 1997
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MILESTONE SCHEDULE

WBS (ADS)	Baseline Date	FISCAL YEAR 1998												FY 1998			
		OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP				
1.2.1.1. (2200-0) Program Support (MW Treatment)																	(M-19-01-T03) Complete all NEPA requirements related to commerial contract LLMW stabilization → ◇ I

MILESTONE TYPES:

◇ ^M TPA MILESTONE	⊙ DOE-HQ	◇ FORECAST	△ WHC KEY
◇ ^I TPA INTERIM	⊙ ^{FO} DOE-FO	⊙ ^{RL} DOE-RL	

FOOTNOTES:
* indicates current month activity

TPA MILESTONE
REVIEW

RUST FEDERAL SERVICES OF HANFORD INC.
1.2.1 SOLID WASTE PROGRAM

FEBRUARY 1997

MILESTONE EXCEPTION REPORT

FUTURE MILESTONES IN JEOPARDY

<u>Number</u>	<u>Type</u>	<u>Title</u>	<u>Scheduled Date</u>	<u>Forecast Completion Date</u>	<u>Cause/Impact Recovery Plan</u>
M-19-03	TPA	Obtain Ecology decision on the acceptability of the existing solidification treatment of 183H solidified liquids as LDR treatment.	4/30/97	4/30/97	Additional time may be required to complete the analysis of bulging containers.

MILESTONES DUE BUT NOT COMPLETE

N/A

MILESTONES COMPLETED EARLY

N/A

*Ecology
OK
4/30/97*

MILESTONES COMPLETED LATE

N/A

TPA MILESTONE
REVIEW

RUST FEDERAL SERVICES OF HANFORD INC.
1.2.1 SOLID WASTE PROGRAM

FEBRUARY 1997

PROGRAM ACCOMPLISHMENTS

*Final
Action*

WBS
1.2.1.2

M-18-00
WRAP 1 (2336-W FACILITY)

Pre-Operational Environmental Monitoring Report, which establishes the baseline for environmental conditions at the facility, was also completed in September 1996.

The final revision of the WRAP Part A permit was submitted to Washington State Department of Ecology and DOE in September 1996. The revision was approved by Ecology in March 1997.

The first phase of testing the integrated cold-run operational procedure was completed in September 1996.

The RFSH Operational Readiness Review for WRAP 1 was initiated in October 1996 in preparation for declaring readiness to RL.

A WRAP specific training implementation matrix, conduct of operations implementation matrix, and maintenance implementation matrix were completed by RFSH in January 1997.

In February 1997 RFSH proposed concurrent startup of low-level and TRU gloveboxes and has submitted appropriate change request.

RL completed the Readiness Assessment on March 7, 1997 and WRAP 1 startup was authorized on March 12, 1997.

WRAP 1 operations was initiated on March 12, 1997 with drum NDE/NDA. Box NDE/NDA and glove box operation will begin in November/December 1997. TPA Milestone M-18-00 is complete.

TPA MILESTONE
REVIEW

RUST FEDERAL SERVICES OF HANFORD INC.
1.2.1 SOLID WASTE PROGRAM

FEBRUARY 1997

*PART A SIGNED
2/11/97*

PROGRAM ACCOMPLISHMENTS

WBS
1.2.1.3

M-19-00

LOW LEVEL MIXED WASTE TREATMENT

Completed macroencapsulation of 3 Air lances and 3 thermocouples at T Plant in September 1996.

M-19 Milestone Change Request which allows treatment and/or disposal alternatives to WRAP 2A was formally approved in October 1996. The revised TPA Milestone M-19-00 sets requirements for treating and/or disposing of at least 1,644 cubic meters of LLMW by the end of FY 2002. Interim milestones set specific dates for commercial contract award and initiation of treatment, direct disposal progress and NEPA activities.

TPA Milestone M-19-01-T01, "Complete determination of the level of NEPA documentation that will be required for commercial treatment contractor(s)," was completed in October 1996. ✓

TPA Milestone M-19-02, "Complete Sampling/Analysis of Backlog Soils," was completed on schedule in December 1996. ✓

Stabilization of 16 drums of Battelle-Columbus Laboratory (BCL) mixed waste was completed in February 1997. Treatment of this off-site waste was approved in the BCL Site Treatment Plan and agreed to by Ecology. ✓

call have PCB's issue!

TPA MILESTONE
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RUST FEDERAL SERVICES OF HANFORD INC.
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PROGRAM ACCOMPLISHMENTS

WBS
1.2.1.4

M-91-00

FACILITIES FOR STORAGE, TREATMENT/PROCESSING AND DISPOSAL OF TRU/TRUM, LLMW AND GTC3

M-91-09: Project W-112, Enhanced Radioactive and Mixed Waste Storage Facility, Phase V:

The Official Acceptance of Construction (OAC) Part I, which represents construction completion for the entire project was signed by RL in September 1996. OAC part II, representing acceptance for beneficial use for the office and maintenance buildings, was also signed by RL in September and the facilities have been turned over to operations.

Project W-112 was completed in January 1997 and Official Acceptance of Construction (OAC) Part III, representing close-out of all exceptions, was approved and transmitted to FDH.

The sagebrush Compensation Mitigation Action Plan for Project W-112 was completed in February 1997. RL approval of the mitigation plan is required in April 1997 in order to maintain the ability to begin mitigation activities during the Spring of 1997.

TPA MILESTONE
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FEBRUARY 1997

PLANNED ACTIONS

TPA MILESTONE	COMPLETION DATE	DESCRIPTION
M-18-00	TBD	Start up balance of plant including Box NDE/NDA and glove box processing.
M-19-03	4/30/97	Continue discussions with Ecology regarding 183H solidified liquids bulging drums
M-19-00	4/30/97	Macroencapsulate 4 thermocouples. Move 7 thermocouples and 3 air lances to mixed waste trench.
M-19-T02	5/6/97	Complete and issue the Requests for Proposals for commercial non-thermal treatment of mixed waste. Procurement will be for three smaller contracts for treatment of individual waste streams, rather than one large contract as originally envisioned.
M-19-00	7/14/97	Macroencapsulation - Begin compaction at ATG and macroencapsulation at T Plant in June 1997.
M-19-00	9/30/97	Award commercial contract(s) for non-thermal mixed waste treatment.
	9/30/97	Screen backlog soils containers for PCBs and dispose of containers with no detectable PCBs as LLW.
M-91-09	6/30/97	Initiate operations at new Central Waste Complex storage facilities (Project W-112)
M-91-09	6/30/97	Implement sagebrush mitigation plan for Project W-112.

TPA MILESTONE
REVIEW

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EXPENSE COST PERFORMANCE

WBS (ADS)	FY TO DATE					AT COMPLETION					COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE		BAC BCWS	EAC	FYSF (3)	EXPECTED FUNDS FY97 (4)	PROJECTED CARRYOVER WORKSCOPE	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST						
1.2.1.2 WRAP 1 (2220-01)	4.9	4.9	5.3	0.0	-0.4	12.1	12.1				
1.2.1.1 MW TREATMENT (2200-00)	1.4	1.4	0.3	0.0	1.1	4.6	4.6				
TOTAL	6.3	6.3	5.6	0.0	0.7	16.7	16.7				

TPA MILESTONE REVIEW	RUST FEDERAL SERVICES OF HANFORD INC. 1.2.1 SOLID WASTE PROGRAM	FEBRUARY 1997
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EXPENSE COST VARIANCE ANALYSIS

WBS (ADS)	COST VARIANCE (\$.7M)	
1.2.1	<u>(Description and Cause:)</u> The \$1.1 million in Mixed Waste Treatment is due to delay until later in the Fiscal Year for the start of Macroencapsulation and other treatment projects. The \$(0.4) in WRAP 1 is within established limits.	<u>(Impacts and Corrective Action:)</u> No impacts. The funding for Mixed Waste Treatment is still required later in FY 1997.

TPA MILESTONE REVIEW	RUST FEDERAL SERVICES OF HANFORD INC. 1.2.1 SOLID WASTE PROGRAM	FEBRUARY 1997
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EXPENSE SCHEDULE VARIANCE ANALYSIS

WBS (WBS)	SCHEDULE VARIANCE \$0.0M	
1.2.1	<u>(Description and Cause):</u> No current variance.	<u>(Impacts and Corrective Action:)</u>

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CENRTC COST PERFORMANCE

(\$ In Thousands)

WBS (ADS)	PROJECT-TO-DATE					TOTAL B/A	COMMITTED (P/O, W/O)	UNCOMMITTED	COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE					
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST				
1.2.1.2 (2220-01) WRAP Module 1	5.5	5.2	5.7	(0.3)	(0.5)	6.4	0.4	0.3	

TPA MILESTONE REVIEW	RUST FEDERAL SERVICES OF HANFORD INC. 1.2.1 SOLID WASTE PROGRAM	FEBRUARY 1997
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CONSTRUCTION COST PERFORMANCE

(\$ In Millions)

WBS (ADS)	PROJECT TO DATE					AMOUNT AUTH. TO DATE	AT COMPLETION (PROJECT)		COMMENTS
	BUDGETED COST		ACTUAL COST	VARIANCE			TOTAL ESTIMATED COST	PRESENT WORKING ESTIMATE	
	WORK SCHED	WORK PERF	WORK PERF	SCHED	COST				
1.2.1.2 WRAP 1 (2220-01)	53.3	53.3	52.9	0.0	0.4	53.6	53.6	53.6	
1.2.1.4 W-112 (2200-01)	10.5	10.4	9.6	(0.1)	0.8	10.8	10.8	10.8	
TOTAL	63.8	63.7	62.5	(0.1)	1.2	64.4	64.4	64.4	

TPA MILESTONE
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RUST FEDERAL SERVICES OF HANFORD INC.
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CONSTRUCTION SCHEDULE VARIANCE ANALYSIS

WBS (ADS)	SCHEDULE VARIANCE \$(.1M)	
1.2.1	<u>(Description and Cause:)</u> Variance is within established thresholds.	<u>(Impacts and Corrective Action:)</u>

TPA MILESTONE
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CONSTRUCTION COST VARIANCE ANALYSIS

WBS (WBS)	COST VARIANCE \$1.2M	
1.2.1	<u>(Description and Cause:)</u> Variance is within established thresholds.	<u>(Impacts and Corrective Action:)</u>

TPA MILESTONE
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ISSUES

TPA MILESTONE.	DATE IDENT	ISSUE	IMPACT	STATUS
M-19-03	12/96	183H solidified liquids drum bulging problem is preventing Ecology from accepting the existing treatment.	Prevent the direct disposal of 830 cubic meters of solidified waste.	Grout expert is being engaged to evaluate the problem with bulging drums.
M-19-T02	2/97	Shortfall in FY 1998 funding.	There is minimal funding for waste treatment in FY 1998. Could cause the 9/30/97 milestone for award of contract to be missed. Could delay commercial treatment by one year. \$2.75 million is needed to implement planned waste treatment and related procurements.	RL and RFSH are working to identify FY 98 funding from cost savings and/or re-prioritization
M-19-00 ?? ↑	1/97	State Carbonaceous LDR requires combustible debris to be incinerated.	Prevents macroencapsulation of combustible debris (about 75% of Hanford debris).	Discussing with Washington Dept. Of Ecology. May require a waiver request from DOE.

TPA MILESTONE
REVIEW

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FEBRUARY 1997

ISSUES

TPA MILESTONE.	DATE IDENT	ISSUE	IMPACT	STATUS
M-91-10	3/97	The Project Management Plan for LLMW and GTC3 waste needs to be scheduled and funded a year earlier than the present June 1999.	June 1999 is too late to allow sufficient time for planning and implemented various milestones related to LLMW and GTC3 waste management.	An estimate of the resources necessary for completion of this milestone activity is being developed and will be available in April 1997.

**Submit Part B Permit Applications or Closure Plans
for all RCRA TSD Units
Milestone M-20-00**

PROGRAM MANAGER'S ASSESSMENT

WBS	PROJECT ELEMENT	ES & H COMPLIANCE	CUSTOMER	TECHNICAL	SCHEDULE	COST	COMMENTS
1.5.2	Hanford Environmental Management Program	■	■	■	■	■	
1.4.10	Environmental Restoration	□	□	■	□	□	All milestones are on schedule.

LEGEND

RATING GRADIENT SYMBOLS

■	Outstanding	+	Improved from last month
□	Good	--	Worsened from last month
◇	Satisfactory	↑	Improved future outlook
●	Marginal	↓	Worsened future outlook
○	Unsatisfactory		

PERMITS AND CLOSURE PLANS

Milestone M-20-00

E. M. Mattlin

Environmental Assurance, Permits
and Policy Division
U.S. Department of Energy
Richland Operations Office

March 25, 1997

MILESTONE DESCRIPTION

M-20-00 **Submit Part B Permit Applications or closure plans for all RCRA TSD Units (2-00)**

Deliverable(s) **Complete individual TSD unit submittals in accordance with Appendix D Work Schedules**

ACCOMPLISHMENTS (last six months)

Closure Plans

- Started DQO process for 303-K Storage Facility
- Partial closure of the 105-DR Large Sodium Fire Facility accepted by Ecology. Final closure to occur during D&D of the 105-DR Reactor
- Submitted 241-Z Treatment and Storage Tanks Closure Plan on 12/27/96, meeting TPA Milestone M-20-48-A
- Submitted Survey Plot and Notice in Deed for 183-H (1/97)

Hanford Facility RCRA Permit

- Quarterly Class 1 modification package submitted to Ecology in accordance with Permit Condition I.C.3 on 1/7/97
- Comment resolution meetings were held with Ecology on 3/7/97 and 3/12/97 to discuss Ecology's comments on draft Revision 3 of the Hanford Facility Dangerous Waste Permit Application, General Information Portion (DOE/RL 91-28)

ACCOMPLISHMENTS (last six months)

Hanford Facility RCRA Permit (cont'd)

- Submitted Annual Noncompliance Report to Ecology on 3/3/97
- Submitted Annual Dangerous Waste Report to Ecology on 3/3/97
- Submitted Quarterly 183-H Basins Groundwater Monitoring information (2/97)

Part A

- Submitted 5 Hanford Facility Dangerous Waste Part A Permit Application Form 3 revisions for the following units in response to comments received from Ecology
 - 616 Nonradioactive Dangerous Waste Storage Facility (3/4/97)
 - Low-Level Burial Grounds (3/4/97)
 - 222-S Laboratory Complex (3/4/97)
 - 1301-N Liquid Waste Disposal Facility (2/25/97)
 - 1325-N Liquid Waste Disposal Facility (2/25/97)

ACCOMPLISHMENTS (last six months)

Part A (cont'd)

■ Procedural Closures:

- Received final approval for procedural closure of the Biological Treatment Test Facilities
- Received tentative approval for procedural closure of the 332 Storage Facility; completed public comment period 3/17/97
- Received tentative approval for procedural closure of the 324 Sodium Removal Pilot Plant. Public comment period started 3/9/97

Ecology approves before Pub Comment!

Part B

- #### ■ Provided working drafts of Dangerous Waste Part B Permit Applications for the following units to Ecology to support document development:
- Low-Level Burial Grounds (10/96)
 - Central Waste Complex (1/97)

ACCOMPLISHMENTS (last six months)

Part B (cont'd)

- Conducted working group meetings to resolve issues relating to Waste Analysis Plans (WAPs) for units seeking final status

PLANNED ACTIONS (next six months)

Unit-Specific Closure Plans

- Submit closure certification for the following units:
 - 4843 Alkali Metal Storage Facility
 - 3718-F Alkali Metal Storage and Treatment Facility
- Continue work on Revision 1 of 300 Area Waste Acid Treatment System Closure Plan including workshops and submittal of NOD Response Table
- Submit 324 REC/HLV closure plan

PLANNED ACTIONS (next six months)

Unit-Specific Closure Plans (cont'd)

- Continue DQO process for sampling and analysis at the 303-K Storage Facility. Submit Sampling and Analysis Plan for inclusion in Modification C of the Hanford Facility RCRA Permit
- Submit Post Closure Plan for 183-H Solar Evaporation Basins for inclusion in Modification C of the Hanford Facility RCRA Permit.

PLANNED ACTIONS (next six months)

Part A

- Submit revised Hanford Facility Dangerous Waste Part A Permit Application, Form 3s, with "Closed" stamped on front page for the following units:
 - 4843 Alkali Metal Storage Facility
 - 3718-F Alkali Metal Storage and Treatment Facility
 - Biological Treatment Test Facilities
 - 324 Sodium Removal Pilot Plant
 - 332 Storage Facility
- Submit revised Hanford Facility Dangerous Waste Part A Permit Application, Form 3s, for the following units:
 - B Plant Complex, Revision 6
 - Single-Shell Tank System, Revision 5
 - 241-Z Treatment and Storage Tanks, Revision 5
 - 325 Hazardous Waste Treatment Units, Revision 4

*5
NONE*

PLANNED ACTIONS (next six months)

Part A (cont'd)

- Pursue procedural closure for the following units:
 - 221-T Containment Systems Test Facility
 - 1706-KE Waste Treatment System
 - 2727-WA SRE Sodium Storage Buildings
 - 437 Maintenance and Storage Facility

Part B

- Continue NOD workshops with Ecology for the following units:
 - Double-Shell Tank System
 - Liquid Effluent Retention Facility/200 Area Liquid Effluent Treatment Facility
 - 242-A Evaporator

PLANNED ACTIONS (next six months)

Part B (cont'd)

- 325 Hazardous Waste Treatment Units
- Central Waste Complex
- Waste Receiving and Processing Facility 1
- Finalize ^{?? Waste Analysis Plan} (WAP) guidance for mixed waste units seeking final status
- Submit Dangerous Waste Permit Application documentation for the following units for inclusion into Modification C of the Hanford Facility RCRA Permit by 8/1/97:
 - Low-Level Burial Grounds
 - Liquid Effluent Retention Facility/200 Area Liquid Effluent Treatment Facility
 - 242-A Evaporator
 - 325 Hazardous Waste Treatment Units

PLANNED ACTIONS (next six months)

J. G. 5/17

Research, Demonstration, and Development Permit

- Initiate efforts to close activities associated with the Waste Water Pilot Plant Research, Development, and Demonstration Permit

Hanford Facility RCRA Permit

- Submit Quarterly Class 1 modification packages to Ecology in accordance with Permit Condition I.C.3 by 4/10/97, 7/10/97
- Conduct Site-Wide Inspections according to schedule submitted to Ecology
- Resubmit the following permitting documentation by 4/15/97 to reflect the transfer of contractor responsibilities to the PHMC:
 - Hanford Facility Dangerous Waste Permit Application, General Information Portion (DOE/RL 91-28)
 - PUREX Storage Tunnels Part B Permit Application
 - 616 Nonradioactive Dangerous Waste Storage Facility Part B Permit Application

PLANNED ACTIONS (next six months)

Hanford Facility RCRA Permit (cont'd)

- Submit documentation to Ecology for inclusion in Modification C of the Hanford Facility RCRA Permit by 8/1/97 *documents done?*
- Support Modification C of the permit *support*
- Submit Annual Closure Cost Estimate Report to Ecology by 10/31/97
- Revision 4 of the Hanford Facility RCRA Permit becomes effective 12/97
- Marking and mapping of waste pipelines outside the fences of 200 East, 200 West, 300, 400, 100-N, and 100-K Areas that have carried dangerous/mixed waste since 1980. This is to be completed by 9/28/97
- Complete closure actions associated with the 4843 Alkali Metal Storage Facility and 3718-F Alkali Metal Treatment and Storage Area

**Interim Status Dangerous Waste Tank
Systems Hanford Federal Facility
Agreement and Consent Order
Milestone M-32-00**

A. R. Sherwood

March 25, 1997

Milestone Description

"Complete Identified Dangerous Waste Tank Corrective Actions" - September 1999

M-32-00 establishes Tri-Party Agreement compliance schedules for correcting known compliance deficiencies in certain Hanford interim status dangerous waste tank systems while allowing the continued operation of those tank systems.

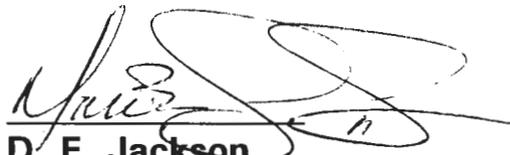
Deliverables and Baseline Schedules

- M-32-01 Complete PFP Actions - Dec 94**
- M-32-02 Complete 219-S Actions - Sept 97**
- M-32-03 Complete T Plant Actions - Sept 99**
- M-32-04 Complete DST Actions - June 94**
- M-32-05 Complete 242-A Evaporator Actions - one month after hot restart**
- M-32-06 Complete 244-AR Actions - prior to restart**
- M-32-07 Complete B Plant Actions - June 96**
- M-32-08 Complete Grout Actions - prior to processing waste**

**Interim Status Dangerous Waste Tank Systems
Milestone M-32-00
Project Manager's Assessment**

Interim Milestone	Description	RCRA Compliance	Customer	Technical	Schedule	Cost
M-32-01	Complete PFP Actions	<input type="checkbox"/>				
M-32-02	Complete 219-S Action	↓	<input type="checkbox"/>	<input type="checkbox"/>	↓	↓
M-32-03	Complete T Plant Actions	<input type="checkbox"/>				
M-32-04	Complete DST Actions	<input type="checkbox"/>				
M-32-05	Complete B Plant Actions	<input type="checkbox"/>				

Legend:
 Good Performance
 ↓ Worsened Future Outlook


D. E. Jackson
 RL Project Manager

3-24-97
Date

Significant Accomplishments (last six months)

219-S (222-S Lab)

- **Project W-178 (tank system upgrades): Completed Phase I pre-acceptance test activities and issued as-built documentation for signature.**
- **Project W-087 (line replacement): Continuing Phase I (piping from 219-S to 244-S) as-built and close out documentation. Completed Phase II primary drain installation into 222-S Service Tunnel T-4's new main header for rooms 2B, 1J, and 1K. Completed plan for resumption of work in the T-7 and T-8 tunnels.**

Significant Accomplishments (cont'd)

T Plant

- **Project W-259 (2706-T upgrades):** Conducted pre-construction activities and equipment mobilization. Started Phase 1 (modification of 2706-T facility) construction.

Double-Shell Tanks

- **Awarded contract to Science Applications International Corporation (SAIC) on September 27, 1996** for ultrasonic (UT) examination of wall sections of a double-shell tank.

Significant Accomplishments (cont'd)

Double-Shell Tanks (cont'd)

- **SAIC performed the UT examination of the DST AW-103 primary tank wall and secondary liner. This was the first UT examination of a DST. Preliminary test report prepared and issued.**
- **Issued the "DST Integrity Assessments Ultrasonic Test Equipment Performance Test Report."**
- **Issued the "Results of the Performance Demonstration Tests on Double-Shell Mockup" Report.**
- **Issued the "Review of Ultrasonic Inspection Status of Hanford Double-Shell Tanks" by sub-TSIP.**

Significant Accomplishments (cont'd)

Double-Shell Tanks (cont'd)

- Performed visual examination of thermocouple tree section removed from DST AZ-101.
- Held meetings between *PHMC??* WHC, DOE-RL and Ecology to discuss the scope of the DST UT examinations, the UT acceptance criteria, and the role of the Tank Structural Integrity Panel.

Significant Planned Activities (next six months)

219-S (222-S Lab)

- **Project W-178 (tank system upgrades): Perform Phase I acceptance test procedure and complete as-built documentation package. Phase II activities on hold until funding is received from Congress.**
- **Project W-087 (line replacement): Start-up and initiate transfers through Phase I piping. Complete Phase II encasement installation in Tunnel T-4. Clean and stabilize T-7/T-8 tunnels to recover from CO₂ blasting.**

Significant Planned Activities (cont'd)

T Plant

- **Project W-259 (2706-T upgrades): Complete construction of new door to 2706-T. Complete utility modifications. Begin preparations for Phase II construction.**

Significant Planned Activities (cont'd)

Double-Shell Tanks

- **Prepare and issue the "DST Waste Transfer Piping/Pit System Integrity Assessment Report".**
- **Prepare and issue integrity assessment report for 244-A Double-Contained Receiver Tank.**
- **Perform leak test of the 244-A Double-Contained Receiver Tank.**
- **Prepare and issue inspection report of thermocouple tree section removed from DST AZ-101.**

Significant Planned Activities (cont'd)

Double-Shell Tanks (cont'd)

- **Complete revision of TWRS DST Waste Transfer System Facility Compliance Plan.**
- **Prepare design evaluation reports for the DST Waste Transfer System catch tanks and double-contained receiver tanks.**
- **Seek additional funding to support DST UT examinations and DST waste transfer system integrity assessment activities.**
- **Continue to conduct meetings with Ecology to establish a mutually agreeable path forward for performance of DST UT examinations.**

Budget/Cost Status

219-S (222-S Lab)

- **Project W-178 (tank system upgrades):**

- Budgeted to date \$2.6M FY97
- Cost to date \$2.5M
- Estimate at completion \$5.1M (with to be proposed project completion date of 4/99) ~ e/r

- **Project W-087 (line replacement):**

- Budgeted to date \$11.4M
- Cost to date \$8.2M
- Estimate at completion undetermined.

How much??
End of April 97?

Budget/Cost Status

T Plant

- **Project W-259 (2706-T upgrades):**
 - **Budgeted to date \$10.7M**
 - **Cost to date \$2.6M (committed additional \$500K)**
 - **Estimate at completion \$10.7M**

Double-Shell Tanks

- **DST system assessments:**
 - **Budgeted to date \$1.7M**
 - **Cost to date \$700K**
 - **Estimate at completion \$2.2M**

Milestone Assessment

- **Milestones Due But Not Complete (next six months)**

c/n *6/24/97*
**M-32-02 - Complete 219-S Tank Interim Status
Actions by September 1997.**

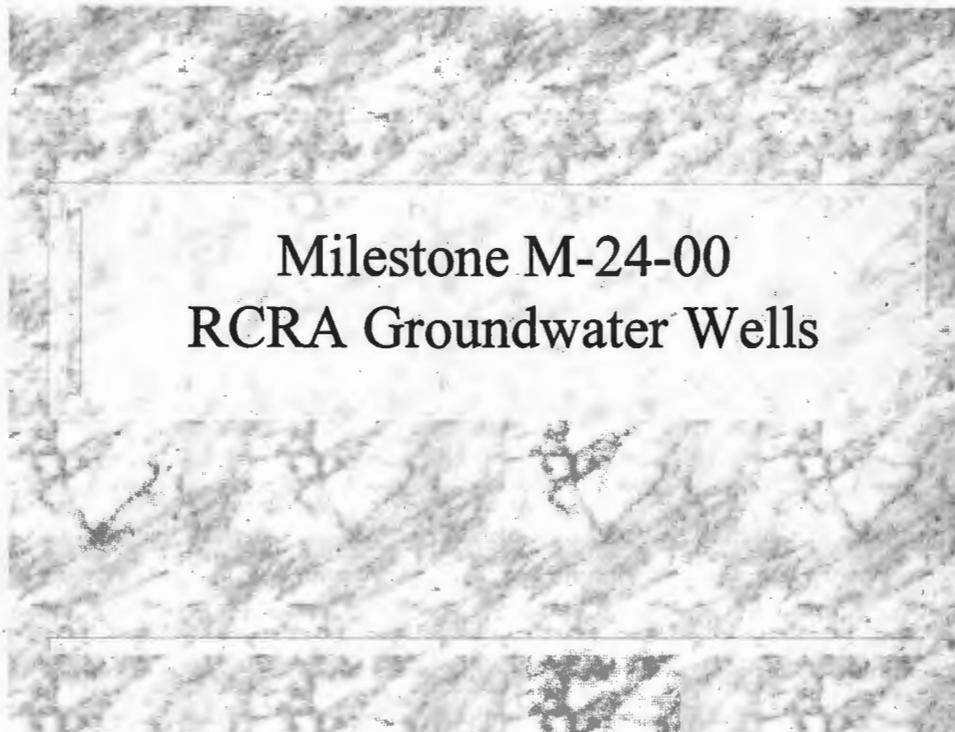
- **Milestones in Jeopardy (beyond six months)**

Issues

219-S/M-32-02 Issues:

Project W-178 - Current funding only allows for the completion of Phase I. Additional funding is planned in 1/98 which will allow for the completion of Phase II by 4/99. A M-32-02 change control package is being drafted as funding availability has been confirmed in FY 98 DOE-HQ guidance.

Project W-087 - Corrective actions from the September 9, 1996 skin contaminations resulted in a 6 month work stoppage in the T-7 and T-8 tunnels. Phase II tie-ins to the hot cells are now projected for completion in December 1997. Preliminary work completion estimates show a significant increase in costs. Options to resolve this are being explored.



Milestone M-24-00 RCRA Groundwater Wells

SIGNIFICANT ACCOMPLISHMENTS LAST THREE MONTHS

- Completed well at PUREX Group Site
- Initiated DQO Process for Hanford Site consolidated groundwater monitoring strategy
- Completed 1996 Annual Groundwater Report
- Completed July-September 1996 Quarterly Report, issued February 26, 1997
- Proposed resolution of groundwater monitoring conflict between RCRA and CERCLA at 183-H
- Strategy developed integrating well decommissioning with cleanup activities
- Three wells decommissioned in March

SIGNIFICANT PLANNED ACTIONS NEXT SIX MONTHS

- Initiate new well construction for Milestone M-24-00
- Continue DQO Process for Hanford Site consolidated groundwater monitoring strategy
- Decommission seven wells, including high-risk well 299-W15-5
- Develop well decommissioning packages for FY 1998

*DECOMMISSIONS
REGULATORY?
W-15-5*

BUDGET/COST STATUS

- Well construction - Capital budget
 - Original budget (199~~8~~³), \$5,347K
 - Spent to date, \$2,851K
 - Remaining budget, \$2,496K
 - Limited expense budget for characterization
- Well decommissioning (Non-TPA regulatory issue)
 - \$266K - Decommission 11 wells/prepare plans
 - \$104K - Decommission 299-W15-5
 - \$327K - Decommission 4 deep wells (Holdback)

ISSUES: S-SX Tank Farm

■ Options

- One well either inside or outside the fence
- Two wells, one inside and one outside the fence

■ Objectives

- Obtain site-specific model parameters
 - Near field location - transport parameters
 - Far field location - physical parameters
- Assess source of groundwater contamination
 - Tank farm vs. associated cribs
 - Tc-99/Uranium ratios
 - Evaluate tc-99 concentrations/dispersion based on model predictions
- Satisfy data needs through an integrated approach for TWRS vadose zone monitoring and RCRA compliant groundwater monitoring

ISSUES: S-SX Tank Farm (cont)

■ Pros

- Cost sharing between RCRA and TWRS
- Obtain information for multiple objectives

■ Cons

- Borehole/well location may not be optimal
- Funding and schedule may be impacted by other programs' requirements
- A well inside the fence will be much more expensive, and thus may be inefficient in relation to separate wells inside and outside

ISSUES (cont)

■ PUREX

- Collect and evaluate data before planning new wells
 - Awaiting Quarterly sample results
 - Flow system changes due to B Pond discharge reductions
 - Water chemistry to differentiate sources of sitewide plumes having their source at these RCRA facilities
 - Preliminary results from drilling indicate tritium up to 50 times lower than regional plume
 - Results may indicate need for additional well(s) to delineate specific sources and contaminant distribution

■ A-AX Tank Farms

- Possible opportunistic well shared with TWRS

ISSUES (cont)

- Water-level trends indicate some wells may be dry by 1998 at T Tank Farms, LERF, S-10, and B Pond
- Replacement wells, deepening, or alternative monitoring will be considered for 1998
- Monitoring plans will be revised accordingly
- Unsealed wells following remedial actions can provide pathways for contaminant movement
- Budget for well maintenance and decommissioning is \$2,000K+ for 1998 and outyears (non-TPA regulatory issue)

Hanford Spent Nuclear Fuel Project

Tri-Party Agreement M-34 Milestone Review



Tom Tebb,
Washington State,
Department of Ecology

Bob Holt,
U. S. Department of Energy,
Richland Operations

March 25, 1997

Significant Activities

- **Preliminary draft of CERCLA removal action EE/CA complete**
- **K West Fuel Lift and Look and Sludge Sampling Campaign completed; resulted in more definitive data for design features of K West Integrated Water Treatment System**
- **Final review of K East Integrated Water Treatment System definitive design completed**
- **1,027 empty fuel canisters in K East cleaned; 924 removed for disposal**



Significant Activities (Continued)

- **K East debris removal (e.g. floating hoses long poles) continues**
- **Rad dose reduction initiative at K East continues; worker dose now consistently below 5.0 mrem/hour**
- **Multi-Canister Overpack 90% Phase 2 design review completed**
- **Concrete pour of vaults two and three of Canister Storage Building completed**



Project Performance Summary

Original Baseline vs. Revised MYWP

	Original MYWP <i>WAC</i>						Revised MYWP <i>DUKE</i>					
	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>Schedule Variance</u>	<u>Cost Variance</u>	<u>BAC</u>	<u>BCWS</u>	<u>BCWP</u>	<u>ACWP</u>	<u>Schedule Variance</u>	<u>Cost Variance</u>	<u>BAC</u>
Expense	38,697	31,872	31,916	(6,825)	(44)	104,428	33,564	33,021	31,916	(543)	1,105	90,282
Capital Equipment	7,345	5,683	6,480	(1,662)	(797)	25,399	6,729	6,631	6,480	(98)	151	24,715
Line Item	<u>28,430</u>	<u>21,233</u>	<u>19,692</u>	<u>(7,197)</u>	<u>1,541</u>	<u>58,672</u>	<u>20,997</u>	<u>20,247</u>	<u>19,692</u>	<u>(750)</u>	<u>555</u>	<u>71,684</u>
TOTAL	74,472	58,788	58,088	(15,684)	700	188,499	61,290	59,899	58,088	(1,391)	1,811	186,681



Permitting and Regulatory Issues

- **K East Basin Fuel Removal Notice of Construction**
 - *Approved by DOH on March 10, 1997*
 - *EPA approval pending*
 - *Submitted to EPA March 4, 1997*
- **K West Basin Fuel Removal Notice of Construction**
 - *Notice of Construction now being phased to support May 1997 Start of Construction Date*
 - *Contractor submittal to RL scheduled for March 28, 1997*
- **Revised date for issuance of EE/CA is March 14, 1997** *now 1 week behind*
- **EPA, Ecology, and RL have met on several occasions to resolve sludge path forward; TWRS now has lead with support from the SNF Project**



Multi-Year Work Plan (MYWP) Approval Status

- **RL's SNF Project Division planned approval date was March 14, 1997**
 - ***Fluor's Project rebaseline resulted in an increase to Total Project Cost of \$98.4M***
 - ***As a result of the increase to Total Project Cost, RL Management determined that a MYWP Change Request should be presented to and approved by RL's Acquisition Executive Advisory Board***
 - ***Contractor resolution of RL comments to MYWP on-going***
- **The earliest available date to meet with Mr. John Wagoner and the RL Acquisition Executive Advisory Board is March 31, 1997**
- **MYWP, the DNFSB 94-1 Change Control Package and authorization approval of Total Project Cost scheduled to be signed on March 31, 1997**



Non-TPA issues with Potential to Impact TPA Milestones

- **Cold Vacuum Drying**
 - *Start of Construction currently on hold*
 - *Adequacy of design for construction - Independent Assessments and Contractor Independent Design Review's (IDRs) complete*
 - *Critical Decision meeting to be scheduled by RL this week to release start of construction*
- **Hot Conditioning System**
 - *A/E QA Program effectiveness is under review*
 - *Equipment procurement cost estimates exceeded engineering estimates*



REPORT ON PERMITS AND ENVIRONMENTAL REGULATORY ISSUES
March 12, 1997

AGENCY	TITLE	TO RL FORECAST ----- ACTUAL	TO REGULATOR FORECAST ----- ACTUAL	AGENCY APPROVAL FORECAST ----- ACTUAL	STATUS/COMMENTS ----- RESTRAINTS
DOH	*CSB RAD AIR PHASE 1	COMPLETE -----	COMPLETE -----	COMPLETE ----- 01-11-96A	----- Restrains: Deck/Remain Concrete Placement
DOH	*CSB RAD AIR PHASE 2	COMPLETE -----	COMPLETE -----	COMPLETE 12-3-96 ----- 12-16-96A	DOH approved this NOC. Permit terms and conditions have been reviewed. An interpretation and implementation strategy has been prepared and routed for internal review prior to meeting with FDH and RL. ----- Restrains: 12-3-96 Deck/Remaining concrete Placement
DOH	*HCS RAD AIR PHASE 1	COMPLETE -----	COMPLETE ----- 08-16-96A	COMPLETE ----- 09-11-96A	----- Restrains:
DOH	*HCS RAD AIR PHASE 2	06-19-97 -----	07-22-97 -----	10-21-97S -----	----- Restrains: 11-17-97S HCS system install 11-17-97S Special Equip/Process Instal
DOH	*CVD RAD AIR PHASE 1	COMPLETE -----	COMPLETE -----	COMPLETE ----- 09-11-96A	----- Restrains:
DOH	*CVD RAD AIR PHASE 2	03-24-97F -----	04-24-97F -----	06-26-97F -----	Internal DESH, RFS, and FDH comments being incorporated. Anticipate delivery to RL by March 24. ----- Restrains: 04-01-97 Equipment Installation/HVAC work

* Indicates permitting activities have been integrated into project schedule with logic ties.

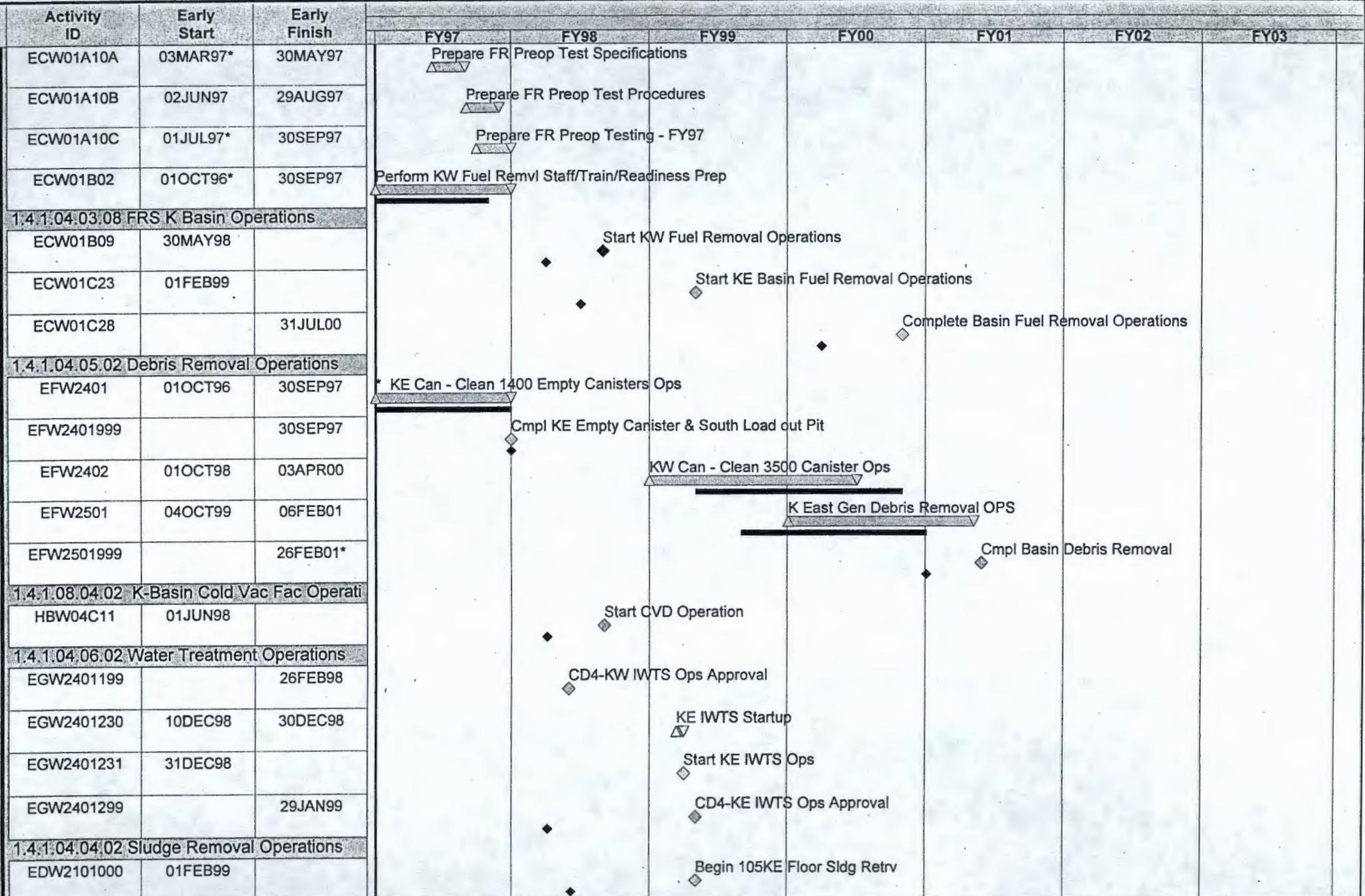
Permitting activities of current interest are shaded.

REPORT ON PERMITS AND ENVIRONMENTAL REGULATORY ISSUES
March 12, 1997

AGENCY	TITLE	TO RL	TO REGULATOR	AGENCY APPROVAL	STATUS/COMMENTS ----- RESTRAINTS
		FORECAST ----- ACTUAL	FORECAST ----- ACTUAL	FORECAST ----- ACTUAL	
EPA	*CSB RAD AIR	COMPLETE -----	COMPLETE -----	COMPLETE ----- 03-05-96A	----- Restrains:
EPA	*CVD RAD AIR	COMPLETE -----	COMPLETE 12-02-96 ----- 11-29-96A	COMPLETE 01-20-97S ----- 01-10-97A	Approved by EPA on January 10, 1997. ----- Restrains: 01-21-97 Start CVD concrete slab 01-20-97 CD-3 01-21-97 Mobilize, Pwr, Util, Backfill
EPA	*HCS RAD AIR	COMPLETE -----	COMPLETE 12-20-96 ----- 12-12-96A	COMPLETE 02-03-97 ----- 01-30-97A	EPA approved on January 30, 1997. ----- Restrains: Start HCS Superstructure
EPA	*KE RAD AIR (FRS,ITWS,CASK L/O)	COMPLETE 01-02-97F ----- 12-31-96A	COMPLETE 02-03-97F ----- 02-14-97A	03-21-97F -----	NOC sent to EPA for review/approval on February 14. ----- Restrains: KE demolition and construction not covered by Corridor 7 mini NOC
EPA	*KW RAD AIR (FRS,ITWS,CASK L/O,DEBRIS)	3-28-97F -----	4-21-97F -----	5-19-97F -----	Will use a version of the DOH phase 1 NOC for submittal to EPA with references to phasing removed. This version is with FDH for review and comment. ----- Restrains: KW upgrades & equipment installation for FRS & Cask loadout not covered by mini NOC for Corridor 7
EPA	*KE/KW SLUDGE PROCESS & LOADOUT AIR PERMIT	01-04-99 -----	02-01-99 -----	10-01-99 -----	----- Restrains: Equip Instal 07-01-99 Removing Sludge from basin & delivery to TWRS. Currently anticipated for after fuel removal. 10-01-99

* Indicates permitting activities have been integrated into project schedule with logic ties.

Permitting activities of current interest are shaded.



Project Start	01OCT92		Early Bar
Project Finish	02OCT17		TA10
Data Date	01OCT96		Progress Bar
Plot Date	20MAR97		Critical Activity

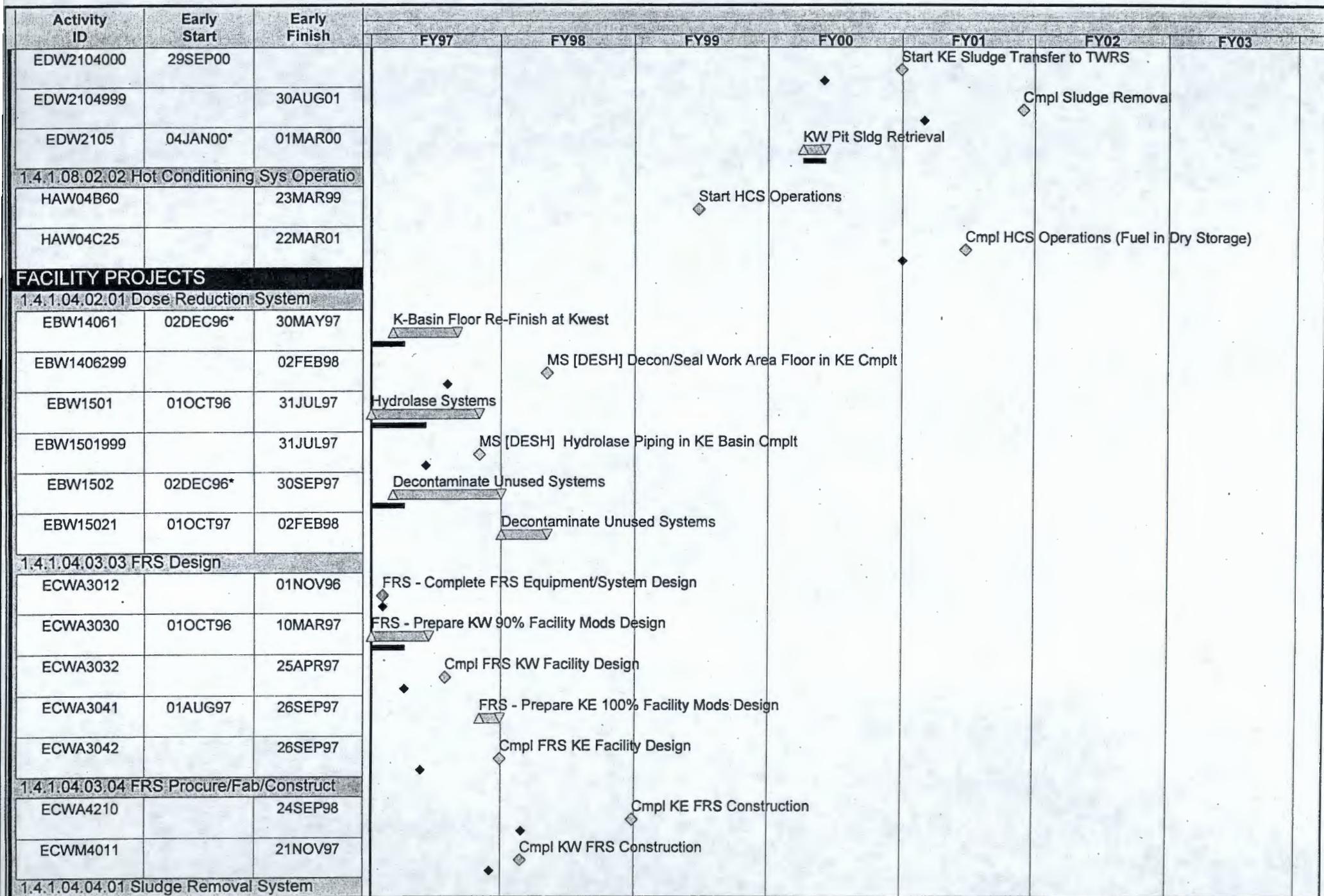
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TA11

**SPENT NUCLEAR FUEL PROJECT
ENHANCED BASELINE
LEVEL 3 SCHEDULE (Holt Select)**



RBAS Rev. 1			
Date	Revision	Checked	Approved



Project Start	01OCT92	▽ Early Bar	TA11
Project Finish	02OCT17	TA10	
Data Date	01OCT96	▬ Progress Bar	
Plot Date	20MAR97	▬ Critical Activity	

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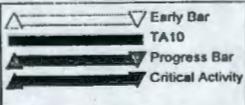
SPENT NUCLEAR FUEL PROJECT
ENHANCED BASELINE
LEVEL 3 SCHEDULE (Holt Select)



RBAS Rev. 1		
Date	Revision	Checked/Approved

Activity ID	Early Start	Early Finish	FY97						FY98						FY99						FY00						FY01						FY02						FY03					
			EDW1205000		30MAY97	Cmpl KE Basin Sldg to TWRS Letter																																						
EDW1205035	09APR97		KE - Issue Can Sludge WSPS to TWRS																																									
EDW1205100		30SEP97	Cmpl KW Sldg to TWRS Acceptance																																									
EDW1205120	17SEP97		KW - Issue Can Sludge WSPS to TWRS																																									
SNF STORAGE																																												
1.4.1.05.01.03 MCO Design																																												
FAWA0252		08APR97	Cmpl MCO Design																																									
1.4.1.05.01.04 MCO Fabrication																																												
FAWA1180		02MAR98	Cmpl Fab & Delivery of First Shipment of MCO																																									
1.4.1.06.01.03 Cask & Transportation Sys Des																																												
FBW001.3		22JAN97	Complete Cask Design																																									
1.4.1.06.01.04 Cask & Transportation Sys Fab																																												
FBW001.5		19JUN98	Cmpl Cask/Trans Fab & Delivery																																									

Project Start 01OCT92
 Project Finish 02OCT17
 Data Date 01OCT96
 Plot Date 20MAR97



TA11

SPENT NUCLEAR FUEL PROJECT
 ENHANCED BASELINE
 LEVEL 3 SCHEDULE (Holt Select)



Date	Revision	Checked	Approved