

PFP Project Managers Meeting  
Federal Building/Room 248  
Richland, Washington

0058884

January 23, 2003  
9:00 a.m. - 11:00 a.m.

Meeting Minutes Transmittal

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The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above dated Project Managers Meeting.

*A. K. Wright*

A. K. Wright, PFP Project Manager, DOE-RL

Date: 2/19/03

*E. M. Mattlin*

E. M. Mattlin, Central Plateau RCA Lead, DOE-RL

Date: 2/19/03

*F. W. Bond*

F. W. Bond, Project Manager,  
Washington State Department of Ecology

Date: 2/19/03

PFP, FH Concurrence:

*A. M. Hopkins*

A. M. Hopkins, Contractor Representative, FH

Date: 2/19/03

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Purpose: Project Managers Meeting

Attachment 1: Agenda & Action Item List

Attachment 2: Attendee List

Attachment 3: M/S Status Sheets

Attachment 4: Residues Repackaging

Attachment 5: 232-Z EE/CA

Attachment 6: PFP Decommissioning Acceleration Planning/PIs

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PFP Project Managers Meeting  
Federal Building/Room 248  
Richland, Washington

January 23, 2003  
9:00 a.m. – 11:00 a.m.

**Distribution:**

D. Bartus	EPA	B5-18
F. W. Bond	Ecology	B5-18
B. L. Charboneau	RL	A6-33
G. Dragseth	RL	A6-33
D. A. Faulk	EPA	T4-04
K. A. Hadley	FH	T5-57
R. E. Heineman	FH	R3-61
A. M. Hopkins	FH	H5-24
J. T. Lilly	FFS	R3-56
E. M. Mattlin	RL	A5-15
B. B. Nelson-Maki	FH	T5-57
R. E. Piippo	FH	A1-14
L. D. Romine	RL	A6-33
C. S. Sutter	FH	T5-50
M. Talbot	FH	K1-05
D. S. Takasumi	FH	R3-56
A. K. Wright	RL	A6-33
J. K. Yerxa	RL	A5-15

ADMINISTRATIVE RECORD (two copies): A1-14

Debbi Isom (two copies): H6-08

Please send comments on distribution list to Rob Piippo, A1-14 (373-3285).

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January 23, 2003  
9:00 a.m. – 11:00 a.m.

**Attachment 1**  
**Agenda and Action Tracking List**

1. Administrative Issues
  - a. Meeting minutes approved from December 18, 2002 PFP PMM.
  - b. Action Tracking Review.
2. PFP Project Item Status – A. Wright deferred to the M/S review and Bob Heineman provided an overview of the project acceleration planning and PIs. (Attachment 6)
3. Milestone status
  - M83-21 SUBMIT TO THE WASHINGTON STATE DEPARTMENT OF ECOLOGY A PFP RESIDUAL CHEMICAL HAZARDS ASSESSMENT AS A PRIMARY DOCUMENT **DUE 12/31/02.**

**Status:** Andrea Hopkins - Complete, Ecology reviewing internally for 45 days due back 2/15/03.
  - M83-30 SUBMIT TO ECOLOGY A CLOSURE PLAN AS A PRIMARY DOCUMENT FOR THE 241-Z WASTE TREATMENT FACILITY (TSD UNIT) AND GLOVEBOX HA-20MB **DUE 7/31/03.**

**Status:** Jerry Johnston – Document preparation is preceding and is on track to meet the M/S due date. Jerry stated that FH, Ecology and RL met to discuss boundary conditions. Rick Bond stated that he still needed to check with others in Ecology.
  - M83-20 SUBMIT FACILITY TRANSITION END POINT CRITERIA DOCUMENT AS A PRIMARY DOCUMENT TO ECOLOGY PURSUANT TO AGREEMENT ACTION PLAN SECTION 8.5.3 **DUE 9/30/03.**

**Status:** Allison Wright – RL reviewed an informal draft and provided comments back to FH.
  - M83-12 –T01 SUBMIT PFP LEGACY PU HOLDUP REMOVAL PLAN TO ECOLOGY **DUE 12/31/03.**

**Status:** Dennis Takasumi- Removal plan at 80% draft stage and going through external subject matter expert review.

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January 23, 2003  
9:00 a.m. – 11:00 a.m.

- **M83-13 COMPLETE REPACKAGING OF PFP RESIDUES AND SHIPMENT TO CENTRAL WASTE COMPLEX DUE 4/30/04.**

**Status:** Caroline Sutter - Residues project remains ahead of schedule. Detailed status presentation provided (Attachment 4).

- **M83-31 DISCONTINUE WASTE DISCHARGES FROM 241-Z TANKS TO TANK FARMS VIA EXISTING LINES DUE 6/30/05.**

**Status:** Jerry Johnston- Cessation of 241-Z services has been coordinated with PFP customers. The interface control document that defines roles and responsibilities for discontinuation of service is approved. A radioactive Air Emission NOC has been submitted to the WDOH. WDOH has deemed the NOC as being incomplete and FH is revising.

- **M83-40 COMPLETE TRANSITION AND DISMANTLEMENT OF THE 232-Z BLDG INCINERATOR TO SLAB-ON-GRADE (PENDING ENVIRONMENTAL DETERMINATION) DUE 9/30/06.**

**Status:** Dennis Takasumi- Project is on schedule and in the planning stage. Safety and environmental documentation is being prepared and is on schedule. Initial D&D activities planned to start approximately 6/03. A detailed status of the scope of the M/S was provided (Attachment 5).

- **M83-14 COMPLETE 100% OF THE LEGACY PU HOLDUP REMOVAL AS DEFINED IN THE LEGACY PU HOLDUP REMOVAL PLAN FOR PFP REQUIRED BY MX-83-12-T01 DUE 9/30/06.**

**Status:** Dennis Takasumi – Legacy removal holdup activities are ongoing. Scope has been accelerated to 9/05 and is undergoing planning.

4. **IPMP Status.** A. Wright – FH stopped working on the IPMP due to new contract modification and revised PIs. The BCR for 2003 scope is due to RL in January. The BCR for the project life cycle is due in June 2003.
5. **Accelerated Decommissioning Presentation** Bob Heineman provided a detailed overview on PFP acceleration planning, performance incentives and where the project is today. PFP is making great progress on meeting the TPA milestones. Funding will be a challenge to

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accomplish all of the '05 acceleration contract commitments. The project is working to accelerate the completion of the current TPA milestones.

6. **M83-40 Detailed status provided.** Dennis Takasumi provided a detailed overview of the 232-Z decontamination and the status of the EE/CA. It was discussed that the project is on a parallel path with RCRA covering the initial portion of D & D which deals with the majority of TRU waste, and the CERCLA, which would cover the remainder of the project including building dismantlement. Rick Bond asked if an EE/CA would be performed for each building. A discussion ensued on the number of EE/CAs that would be needed to support the PFP D & D. Coverage exists under NEPA for planned scope of work and a single transition EA is being developed that will be provided to RL December 2002. The existing EIS provides coverage for cleanup but not D & D removal. The PFP project will have global coverage for D & D work in the EA. The discussion then focused back on the 232-Z EE/CA with Dave Bartus requesting that Dennis Faulk be included in the meetings, and that he be notified of the planned submittal of the 232-Z EE/CA on or before 3/31/03 to assure he can assign resources to the document. The Benton County clean air authority is also involved in the review of the EE/CA which is covered in the regulatory review and coordinated by Ecology. FH public comment coordination is required through Barb Wise.
7. **New Issues - None**
8. **Next Meeting – February 19, 2003, 09:00 to 11:00, Federal Building. Room 248.**

**ACTION TRACKING LIST**

Action	Assignee	Date Established/ Due Date	Status
Contact the Nez Perce regarding interest in providing input to the End Point Criteria document.	R. Bond	September 18, 2002/October 16, 2002	Open Ecology will notify tribes 3/03.
Provide schedules to Rick Bond that Communications is developing for submittals to Native Americans	A. Wright	December 18, 2002	A. Wright provided a copy of the PIs to Rick Bond closing this action 1/23/03
R. Bond to check with Ecology staff on boundary condition for 241-Z closure plan	R. Bond	Jan. 23, 2003	f
Status of M83-20, End Point Criteria	A. Hopkins	September 18, 2002.	Open, draft is going through RL review. Action closed 1/23/03, status as part of M/S review.

PFP Project Managers Meeting Agenda  
Federal Building/Room 248  
Richland, Washington

November 20, 2002  
9:00 a.m. – 11:00 a.m.

**Attachment 2**  
**Attendance List**

Meeting Title: PFP Project Managers Meeting

Date: November 20, 2002

Original included in hard copy

Name	Company	Phone Number
Dave Bartus	EPA	736-5704
Rick Bond	Ecology	736-3007
Ellen Mattlin	DOE/RCA	376-2385
Andrea M. Hopkins	FH	373-5395
Rob E. Piippo	FH/TPA	373-3285
Allison Wright	DOE/PTD	373-7303
Oliver Wang	Ecology	736-3040
Steve Norton	FH	372-3268
Marc Stevenson	FH	376-9668
Dennis Takasumi	PFP	372-0249
Briant Charboneau	DOE/PTB	373-6137
Bob Heineman	FH	372-0151
Dave Bartus	EPA	736-5704
Carolne Sutter	FH	373-2426
George Dragseth	DOE/PTB	372-0750
Clifford E. Clark	DOE/RCA	376-9333
Jerry Johnston	FH	373-2849
Mitzi Miller	EQM	946-4985
Larry Oates	EQM	588-5529

### M83-30

#### Scope

Submit to Ecology a closure plan as a primary document for the 241-Z Waste Treatment Facility (TSD Unit) and Glovebox HA-20MB – Due 7/31/03

#### Status for 241-Z:

- FH, RL, and Ecology met on January 13, 2003 in Room 244B of the Federal Bldg. to review the boundaries of the 241-Z closure plan:
  - A general consensus was reached that the planned approach of using the 241-Z walls to define the closure plan boundaries was supported by the Part A Permit scope definitions
  - Ecology indicated that the planned approach for the interface between the RCRA closure and CERCLA activities made sense but wanted to consider it further. R. Bond indicated that he would get back to FH Environmental with an answer by the January Project Manager Meeting
  - F. Ruck took an action to provide R. Bond with a hard copy of the 1996 241-Z Closure Plan
- Document preparation is proceeding and is on track to meet the due date

#### Status for HA-20MB:

- Document preparation process is on track to meet due date.
- 

### M83-31

#### Scope

Discontinue waste discharges from 241-Z Tanks to Tank Farms via existing lines - Due 6/30/05

#### Status

- Cessation of 241-Z services has been coordinated with PFP customers
    - Operations (Chloride wash campaign, Labs)
    - D&D (241-Z TCO primary user)
    - Cease PFP discharges to 241-Z November, 2004
    - Last PFP waste transfer to Tank Farms April, 2005
    - Remove PFP transfer systems from service by June, 2005
  - Interface Control Document between FH and the DST System to define roles and responsibilities in meeting this milestone was approved on 1/20/03 and will be placed in the document control system (HNF-4486 Rev. 1)
  - A Radioactive Air Emission Notice of Construction (NOC) has been submitted to WDOH.
    - The NOC was declared incomplete by WDOH on 1/6/03. WDOH requested additional information on the calculations for potential to emit
    - A meeting and 241-Z site tour was held with J. Schmidt and F. Adams on 1/14/03. As a result, the NOC will be revised and resubmitted. The 241-Z exhaust stack (296-Z-3) may be reclassified as a major stack through the terminal clean out activities. The NOC resubmittal is targeted for 2/7/03 and may require an EPA evaluation of an alternate monitoring system
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Dennis Takasumi

**M83-40 COMPLETE TRANSITION AND DISMANTLEMENT OF THE 232-Z BLDG  
INCINERATOR TO SLAB-ON-GRADE (PENDING ENVIRONMENTAL  
DETERMINATION) DUE 9/30/06**

1. Project is currently on schedule to complete transition and dismantlement of 232-Z by 9/30/06.
2. Project is currently in the planning phase. Environmental and safety documentation is being prepared and submitted to DOE and the regulators for approval.
3. Environmental & Safety Documentation
  - a. Categorical Exclusion approved by DOE 11/12/02  
NEPA Decision allowing building deactivation
  - b. Radioactive Air Emissions Notice of Construction (NOC) transmitted to Ecology, EPA & WDOH 11/7/02. WDOH & EPA approval requested 12/17/02.  
Working level meetings held with WDOH (12/17-18/02) to resolve questions. Next meeting to be scheduled week of January 27, 2003.
  - c. Criteria Air Emissions New Source Review (NSR) Evaluation transmitted to Ecology 11/5/02
    - 11/19/02 WDOE conditional approval provided
    - 11/21/02 Issues clarified with Steve Lijek (Ecology), revised letter received 12/18/02
  - d. Documented Safety Analysis (DSA) approved by DOE 12/24/02.  
DSA provides hazards analysis and controls for building deactivation and dismantlement to slab-on-grade.
  - e. Engineering Analysis/Cost Evaluation (EE/CA) initiated 10/15/02, plan to transmit to DOE on or before 3/31/03.
4. Initial D&D activities planned to start approximately 6/03

PFP January 23, 2003 PMM  
Jim Lilly  
Legacy Holdup

M83-12-T01

80% COMPLETE  
AHEAD OF SCHED

Scope

Submit PFP Legacy Pu Holdup Removal Plan to Ecology – Due 12/31/03

Status of PFP Legacy Pu Holdup Removal Plan:

- Removal plan at the eighty percent draft stage and will go through an external 'subject-matter-expert' review the end of this month
  - Plan addresses clean out of the SNM necessary in 234-5Z and 236-Z gloveboxes, ducts, transfer lines, PRF Canyon Floor, process vacuum system and other process equipment to reduce the protected area.
  - Determines that the holdup removal quantity and location will be based upon existing SAS NDA values supplemented with current data when available.
  - Plan will address the work methods for removal of the targeted holdup material and provide a tentative work and schedule sequence.
  - Plan will recommend reconfiguration of the existing MBA boundaries to conform to Decommissioning objectives and facilitate removal activities.
  - Plan will address removal activities through disposition via stabilization and packaging 3013 containers, and/or repackaged as TRU waste or residues for CWC as a precursor to Protected Area Reduction and disposal to WIPP.
- Document preparation processes currently on track for a spring '03 submittal to Ecology

M83-14

Scope

Complete 100% of the legacy Pu holdup removal as defined in the legacy Pu holdup plan for PFP required by M-83-12-T01 - Due 9/30/06

2/2 SCHED TRYING TO ACCELERATE

Status

- Legacy holdup removal activities continued this month with crews concentrating on glovebox HC-7C in 234-5Z with a mid-January HC-7C completion.
  - Legacy crew removed the HC-7C glovebox piping, equipment and glass tanks
  - Removal activities have generated over seven -55 gallon containers of WIPP debris that accounts for approximately 500 to 600 grams of Pu
  - Accountability records for Pu removal maintained.
  - Final NDA of HC-7C January 24th
- Legacy field crews staging for 236-Z building MT glovebox holdup removal
  - Installation of new gloves progressing and activities relative to room (zone) isolation from rest of plant.
  - Glovebox holdup removal activities will commence after HEPA filter replacement in early February.
- Documentation for 243-5Z building glovebox HC-9B holdup removal nearing completion for early March start

# Residues Repackaging

January 23, 2003

# Status of Residues Repackaging

- SS&C
  - Completed repackaging of SS&C Dec. 4, 2002.
  - 14 items remain for measurement by calorimetry.
  - Last 5 POCs scheduled to be shipped to CWC January 27, 2003.
  - Expect measurement and shipment of last 14 items by Feb. 1, 2003.

# Status of Residues Repackaging (Continue)

- Oxide/Mixed Oxide (MOX)
  - Initiated repackaging of oxide/MOX on Dec. 11, 2002
  - 170 of 384 items (44%) repackaged.
  - Determined that some items can be measured by SGSAS.
  - 34 items measured. 132 items awaiting measurement
  - 4 awaiting calorimeter

# NDA Equipment

- Room 170 SGSAS
  - Determined some oxide can be measured
  - Current being recalibrated
- Calorimeters
  - Expect qualification of first calorimeter the beginning of February 2003.
  - Expect qualification of second calorimeter by March 2003.

# NDA Equipment (Continue)

- Calorimeters (Continue)
  - Third calorimeter shipped to Hanford next week.
  - Four additional calorimeters expected in March, 2003.
  - Qualification of Room 172 SGSAS for isotopic measurements beginning of February 2003.

# Audits

- Carlsbad Field Office (CBFO) certification audit of calorimeter program scheduled for the week of March 24, 2003
- Hanford recertification audit scheduled for the week of June 16, 2003.

# Future Residue Processing

- Initiate low assay oxide/MOX (<10% Pu) processing in March. (434 items)
- Initiate second group of low assay (10% to 30% Pu) in August. (919)
- Initiate repackaging Group 2 alloys and remaining residues in Nov.
  - 53 Group 2 alloys
  - 8 Combustibles
  - 7 Compounds
  - 18 Miscellaneous

# Goal

- Working to initiate repackaging of Group 2 alloys in March.
- Working to initiate repackaging of miscellaneous residues in September or after Group 2 alloys if preparations are complete.
- Allows completion of Residues Defense Board milestone.

# Potential Feed

- Evaluating remaining vault items which have limited description/information.
- Disposition path for remaining vault items are being finalized.
- Expect to result in additional items for Residues.
- Expect total number for Residues to be low.
- Expect to be covered by current characterization work.

**232-Z EE/CA**

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**January 23, 2003**

**Project Managers Meeting Presentation**

**Contaminated Waste  
Recovery Process Facility**

# 232-Z Facility Description

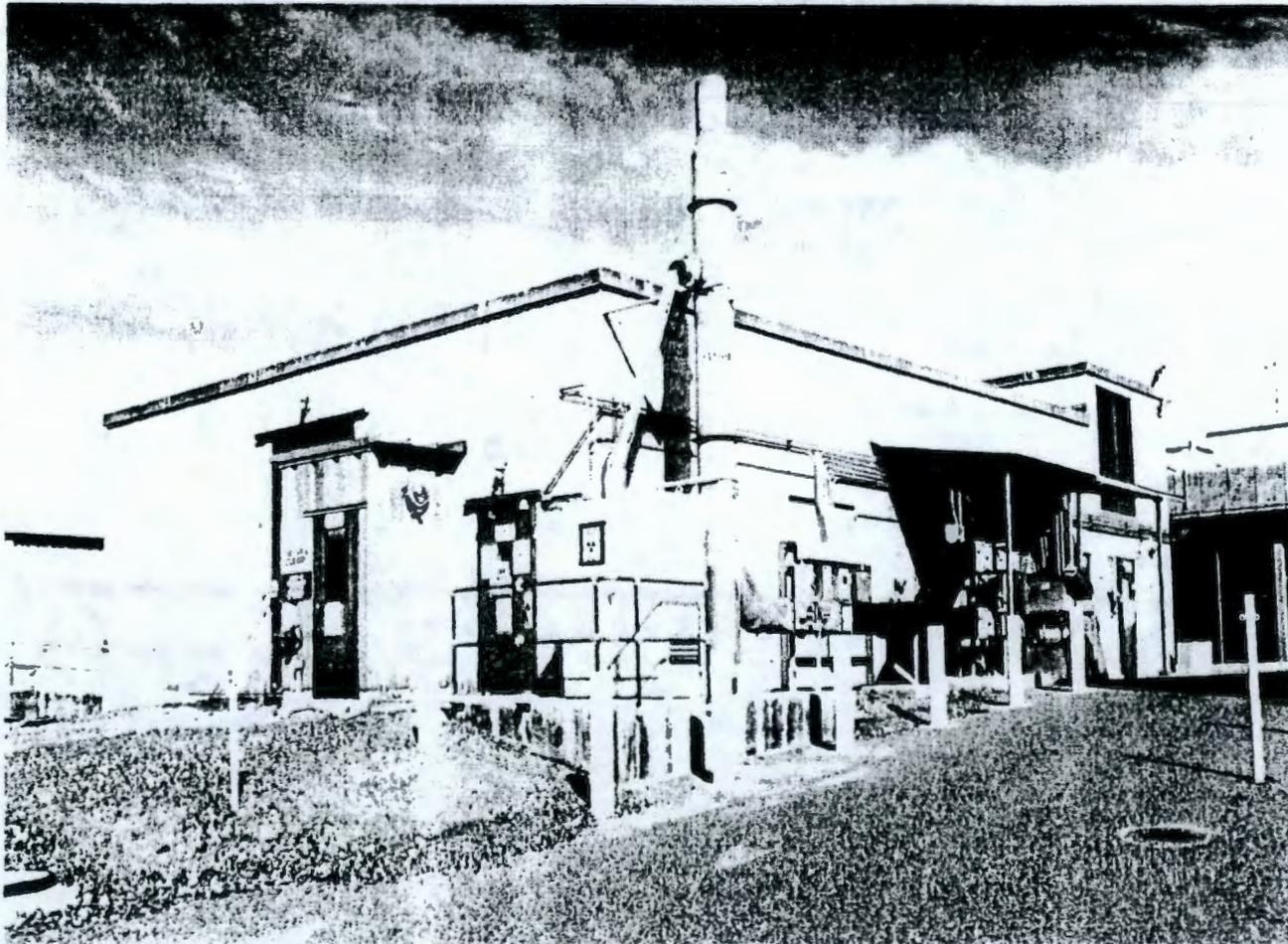
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232-Z

# 232-Z Facility Description

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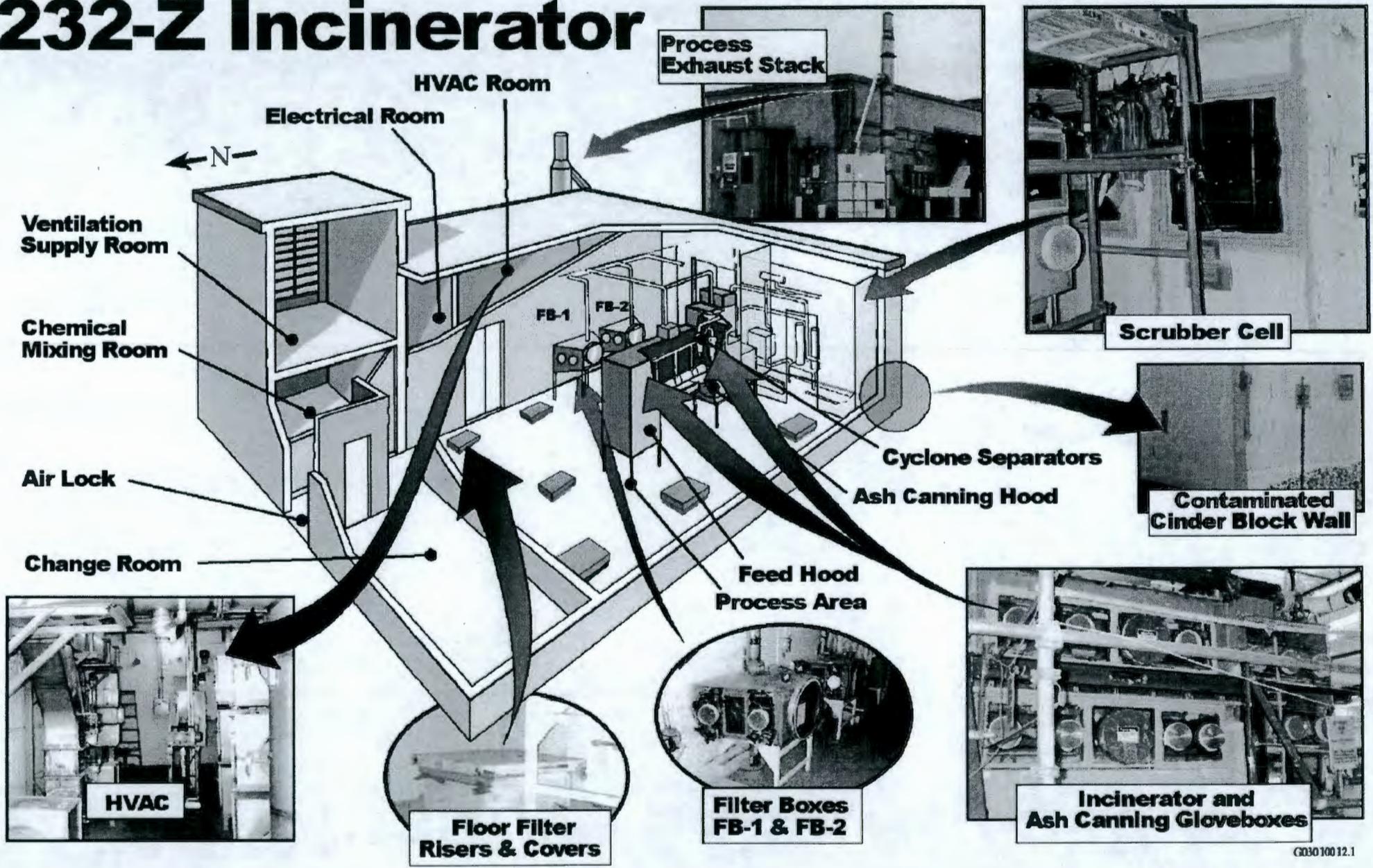


# 232-Z Facility Description

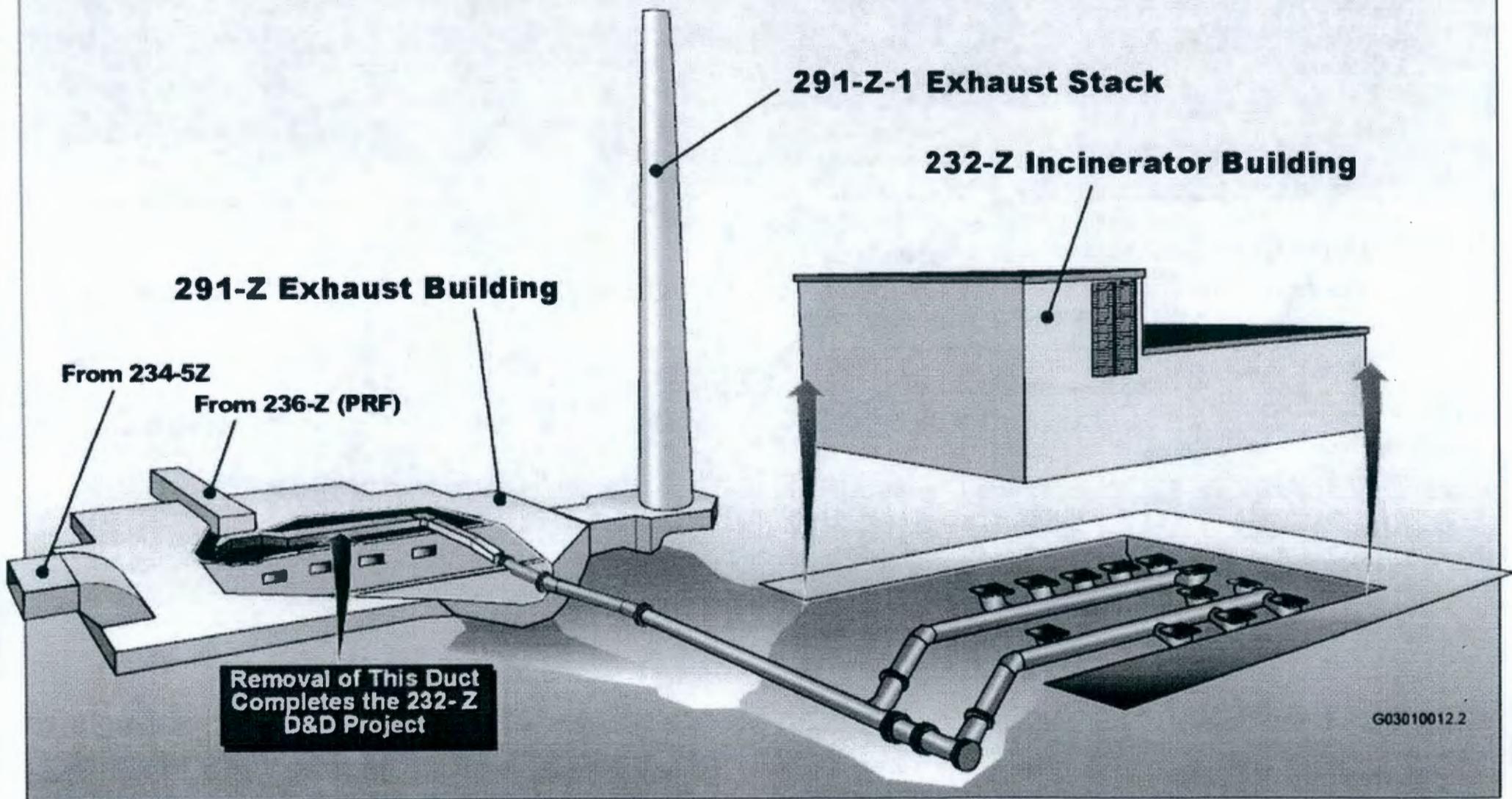
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- 37 feet wide and 57 feet long
- Cinder block walls
- Construction Materials Include:
  - Asbestos cement underground ducts and piping
  - Asbestos cement floor filter boxes
  - Glass asbestos fiber frames in HEPA filters
  - Lead alkyd based paints for filter frames

# 232-Z Incinerator



# 232-Z Inactive Exhaust System



G03010012.2

# Background and History

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- 1961 until 1973
  - Pu recovery through incineration of scrap materials
  - Leaching of non-combustible materials
  - Off-gases routed to scrubber equipment and filter system
  - Underground ductwork to exhaust stack in 291-Z

# Background and History

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- Numerous historical spills and releases within facility
- Ventilation and filters maintained since shutdown
- New exhaust stack with HEPA filtration installed 1990
- Seismic analysis indicates earthquake consequences exceed risk-acceptance guidelines (1990)
- Surveillance and Maintenance (S&M) mode with controlled access since 1994

# Background and History

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- Activities since closing include:
  - Cleanout and removal of gloveboxes (~50%)
  - Removal of acid digestion process equipment
  - Installation of blanks in hoods
  - Relocation of CAMs
  - Wiring modifications

# Scope of EE/CA

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- Activities covered by CERCLA
  - D&D subsequent to TRU removal
  - Non-TRU materials generated subsequent to CERCLA transition
  - Building dismantlement
- End point: slab-on-grade
  - Penetrations sealed/grouted
  - Slab sealed

# Project Schedule

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- EE/CA

- Submit to DOE for review and transmittal to regulators March 31, 2003
- Action Memorandum June 2003
- Other CERCLA documentation submitted 2nd Q FY04

DOE # SAP

- Deactivation resumes June FY03

REQUIREMENTS OF EPA RETURN MEMO APPROVED  
JUNE BUT

- Building dismantlement begins 1st Q FY06

CERCLA  
EPA  
WASTES  
UNTEL  
DOZIS

# EE/CA Status

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- Options being evaluated
  - No Action
  - Deactivate, demolish and dispose of debris at LLBG
  - Deactivate, demolish and dispose of debris at ERDF

# EE/CA Status

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- Hazardous Contaminants Identified
  - Asbestos (insulation)
  - Lead (paint)
  - PCBs (paint and light ballasts)
  - TC Metals (from ash)
- Radionuclide Contamination Identified

# EE/CA Status

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- History documented
- Facility characterized
- Nature of threat described
- Streamlined risk evaluation in progress
- ARARs identified
- Alternatives being evaluated against removal criteria

# EE/CA Status

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## ■ Regulator input

- WDOE regulator lead
- Interface with Health (WDOH)
- Public comment and review — *FOCUS SHEET*
- Other forms of assistance as appropriate

*ASBESTOS*

# Summary

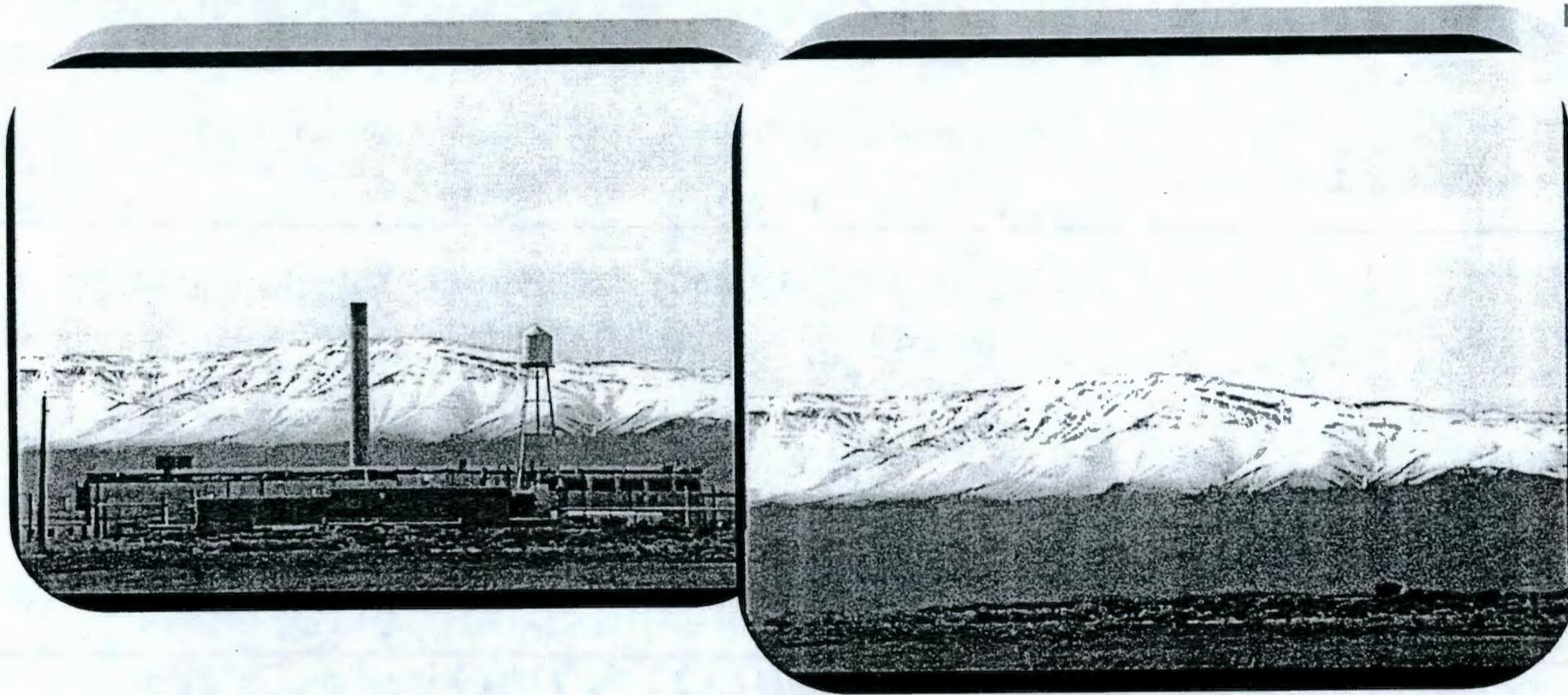
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- 232-Z used to process materials for Pu recovery
- Has not operated for nearly 20 years
- Multiple spills within the building and potential for release
- Schedule calls for removal of TRU with transition to CERCLA in 2004
- EE/CA submission for approval anticipated in March of 2003
- Action memorandum approval anticipated in June 2003

*ISLUE*  
*ACTION MEMO*  
*WILL*  
*SPREAD*  
*DATE*  
*2*  
*2003*

*BAWP,*

# Accelerated Plutonium Finishing Plant Decommissioning Project



**Bob Heineman**  
**January 2003**

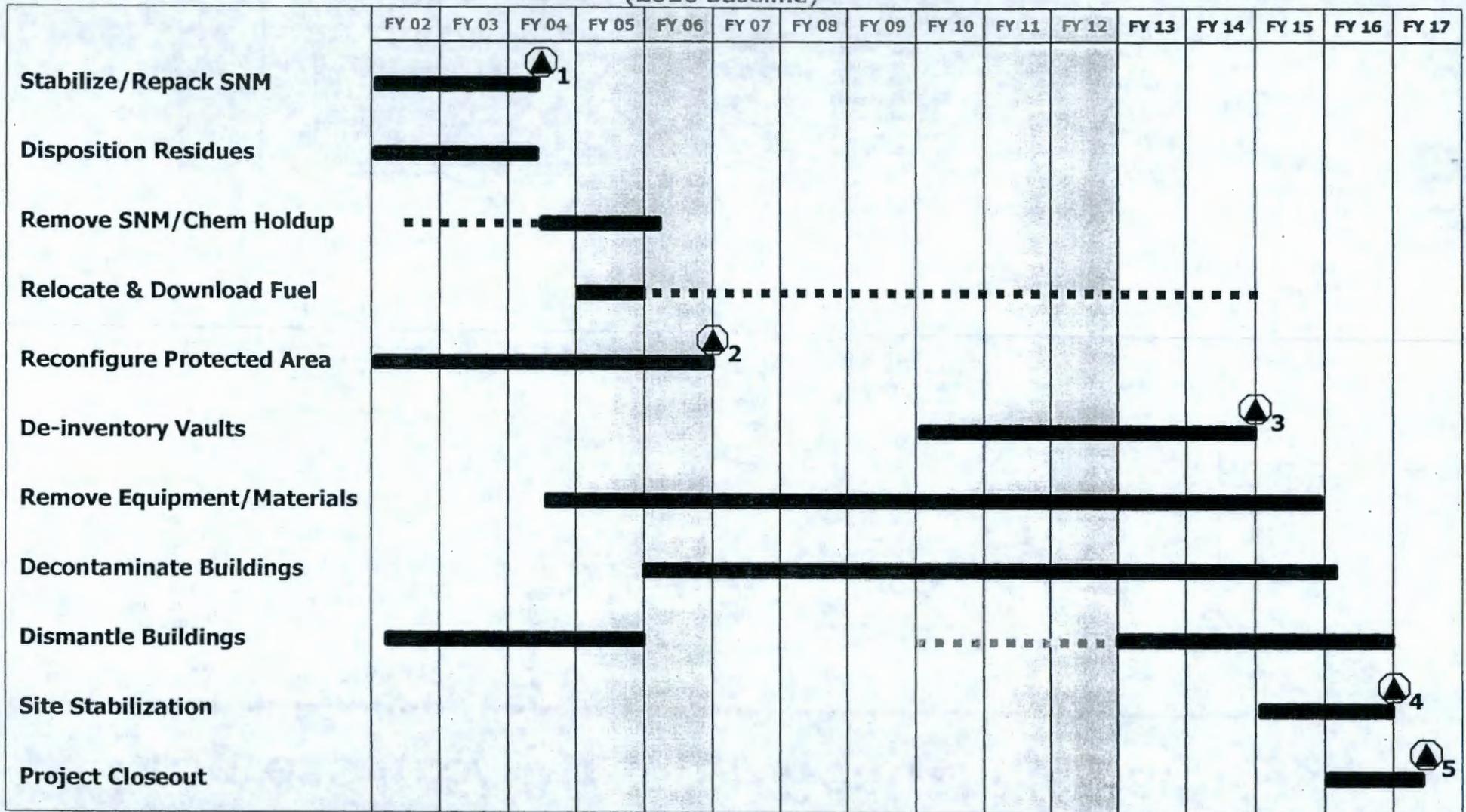
# Accelerated Plutonium Finishing Plant Decommissioning Project

## TOPICS TO BE DISCUSSED

- ◆ **PFP Acceleration Planning**
  - ❖ PFP's 2016 Baseline
  - ❖ DOE's Expedited EM Cleanup Strategy
  - ❖ PFP's Accelerated Cleanup Plan
- ◆ **The New PFP Performance Incentives**
  - ❖ Stabilize/Dispose of High Risk Materials (S3)
  - ❖ Demolish Excess Hazardous Facilities (S5)
- ◆ **Where We Are Today**
  - ❖ Stabilization & Packaging
  - ❖ Plutonium De-inventory
  - ❖ Decommissioning Progress

# PFP Decommissioning Plan

(2016 Baseline)



- ① DNFSB 94-1/2000-1 Complete
- ② Process facilities de-inventoried; PA reduced to PFP Vault Complex only
- ③ PFP Vaults de-inventoried; PA eliminated
- ④ PFP Transition Phase complete; S&M Phase initiated
- ⑤ PFP Decommissioning Project Closed Out



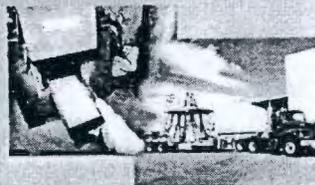
# Progress in 5/10 Years: Central Plateau

DRAFT

## Central Plateau Cleanup

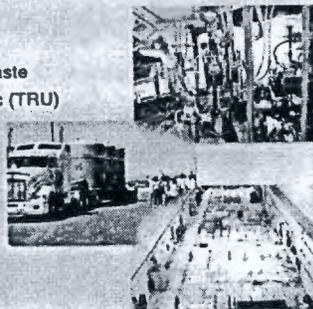
### Nuclear Material Stabilization

- Stabilization of all plutonium materials
- Placement of all spent nuclear fuel into dry storage



### Solid Waste Treatment & Processing Operations

- Treat 17,600 cubic meters of mixed waste
- Ship 4,200 m<sup>3</sup> cubic meters transuranic (TRU) waste to WIPP
- Begin to Construct or modify facilities to treat remote-handled (RH) and oversized TRU waste and RH mixed low-level waste (MLLW)



### Environmental Restoration

- Surplus Facility Disposition:
  - Pu Concentration Facility demolished
  - Pu Finishing Plant (PFP) demolished
  - Chemical processing plants dispositioned
  - Hanford waste tanks dispositioned
  - Disposition of other surplus facilities
- Completion of waste site characterization and initiation of remedial actions
- Initiation of final groundwater remedies



2007	2012
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- SNF stabilized and stored in dry storage by 9/05
- PFP Pu stabilization complete by FY 04
- Complete shipment of SNM by FY 05
- Excess uranium dispositioned
- Pu in ultra-secure consolidated storage



- 15,000 containers of TRU waste retrieved
- Legacy mixed waste treatment 75% complete
- 100 shipments (850 m<sup>3</sup>) TRU waste shipped offsite

- All required waste treatment capability in place
- TRU retrieval 75% complete
- Legacy mixed waste treatment complete
- Pathways for off-site disposition of HLW, SNF, and Pu established

- PFP de-inventory by 2005
- Plutonium concentration facility (233-S) demolished
- PFP D&D underway
- CDI decision process complete
- TPA aligned
- Groundwater 5 year remedy review fully implemented
- Groundwater/vadose zone baseline in place and composite analysis updated for the site

- PFP and other plutonium concentration facilities demolished
- All other surplus buildings cocooned or demolished
- All soil remediation RODs in place and work underway
- Final groundwater RODs being implemented

### Risk Reduction by 2012

- Plutonium liquids/solids stabilized, packaged, and shipped
- Transuranic waste being retrieved and shipped
- Low level and mixed low level waste being disposed

# **Accelerated PFP Decommissioning Project**

## **Vision**

The PFP Complex: Deactivated and dismantled to  
"clean slab-on-grade" by 2009

## **Mission**

Safely stabilize, repack and ship the PFP Special Nuclear Material (SNM) inventory for offsite treatment, reuse, or disposal.

Decommission, deactivate and remove PFP systems and structures, thus eliminating all significant hazards to workers, the public and the environment, and minimizing long-term surveillance and maintenance requirements.

# Accelerated PFP Decommissioning Project Endpoints

## ◆ SNM Stabilization and Packaging

- ❖ SNM stabilized/packaged to STD-3013; returned to vaults
- ❖ SNM residue waste repackaged and sent to CWC/WIPP

## ◆ SNM De-inventory

- ❖ Legacy plutonium holdup packaged and dispositioned
- ❖ SNM shipped to SRS or another DOE-approved facility
- ❖ Fuels removed from the PFP Protected Area

## ◆ Decommissioning

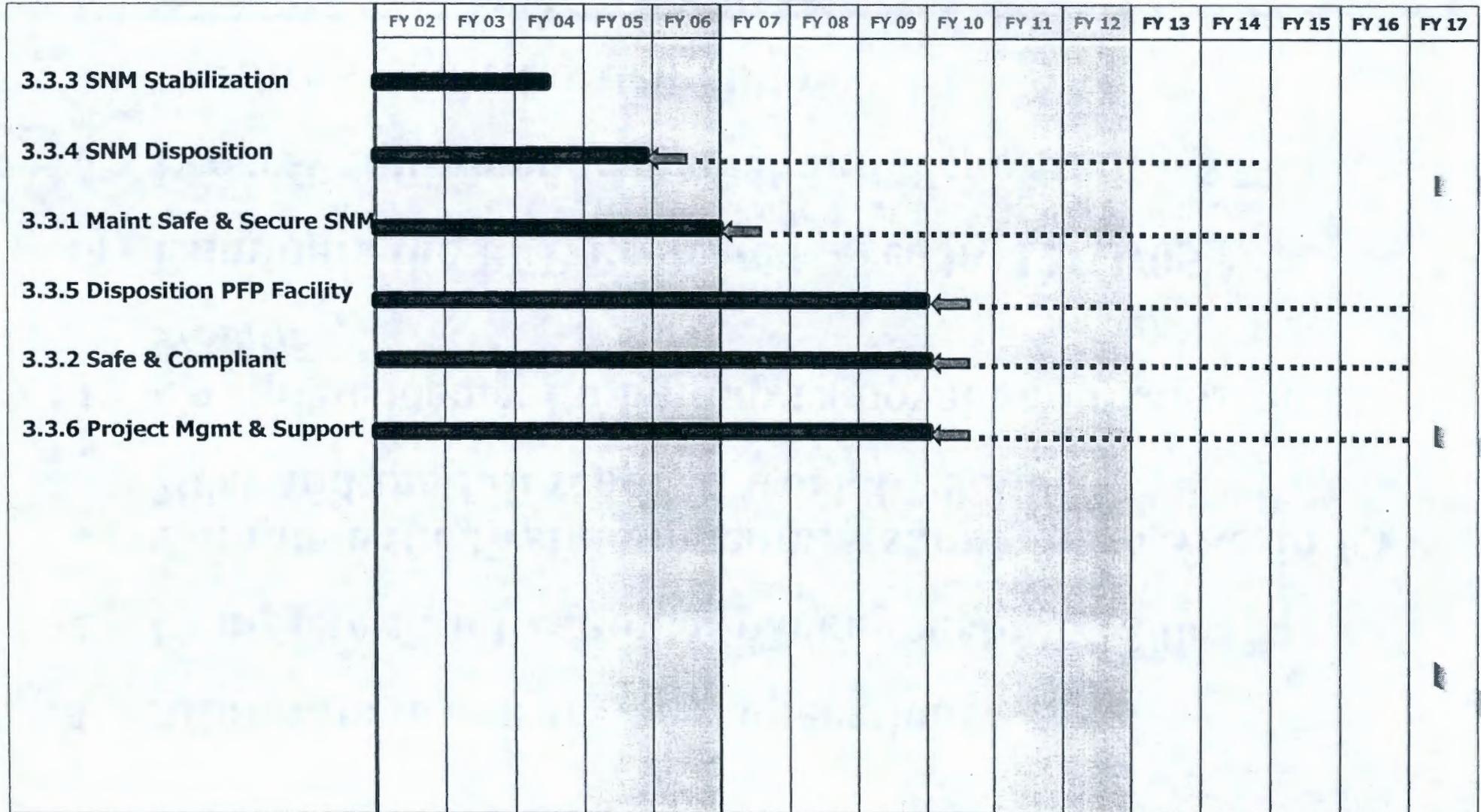
- ❖ Chemical and plutonium holdup removed; all buildings and structures dismantled to “clean slab-on-grade”
- ❖ Surface and underground areas stabilized pending final remediation

# **Accelerated PFP Decommissioning Project Priorities**

- 1. Minimum necessary base operations**
- 2. Complete stabilization & packaging by 2/18/04**
- 3. Complete the first de-inventory shipment to SRS in FY 2003 and the full scope of work by 9/30/05**
- 4. Complete legacy Pu holdup removal and disposition by 9/30/05**
- 5. Eliminate the PFP Protected Area by 12/31/05**
- 6. Process equipment removal and disposition**
- 7. Facilities ready for demolition**
- 8. Demolition and site stabilization**

# Accelerated PFP Decommissioning Project

## Level 0 Schedule



# Accelerated PFP Decommissioning Project Work Breakdown Structure Chart



# **Accelerated PFP Decommissioning Project Sequence Of Work**

- ◆ **Plutonium Hold-up Removal**
- ◆ **Process Equipment Decontamination and Removal**
- ◆ **Other Equipment Decontamination and Removal**
- ◆ **System Deactivation**
- ◆ **System Modifications**
- ◆ **Dismantlement**
- ◆ **Site Stabilization**

# **Accelerated PFP Decommissioning Project FY 2003-2006 Performance Incentives**

## **S-3 – Stabilize/Dispose of High-Risk Nuclear Materials: Eliminate Risk of Special Nuclear Material to the Hanford Site**

- ◆ **Performance Objective 2: Complete Pu Stabilization and Packaging, de-inventory, and protected area elimination of Plutonium Finishing Plant (PFP) by 12/30/05.**
  - ❖ Performance Objective 2a: Complete stabilization & packaging of DNFSB 2000-1 Pu-bearing materials by 2/18/04.
  - ❖ Performance Objective 2b: Complete shipment of special nuclear material to Savannah River Site or a DOE approved interim storage facility by 9/30/05.
  - ❖ Performance Objective 2c: Complete legacy holdup removal and packaging/disposition of material/wastes by 9/30/05.
  - ❖ Performance Objective 2d: Eliminate the PFP protected area by 12/30/05.

# **Accelerated PFP Decommissioning Project FY 2003-2006 Performance Incentives**

## **S-5 – Demolish Excess Hazardous Facilities: Complete Demolition of Excess Hazardous Facilities**

- ❖ **Performance Objective 1: Complete deactivation (ready for demolition activities and all contamination can be dispositioned with demolition debris) of all PFP facilities by 9/30/06.**
  - ❖ Complete process equipment removal and disposition
  - ❖ Complete deactivation (ready for demolition activities and all contamination can be dispositioned with demolition debris) of all PFP facilities by 9/30/06.

**Table A - Fee Schedule (Performance Incentive S-5, Performance Objective 1)**

Performance Measure 2						
Total Fee /\$		% Total Fee /\$		% Total Fee /\$		TOTAL \$
\$26,000,000		\$17,000,000		\$9,000,000		\$26,000,000
Area/Sub-area		Exp. 1.a (Process Equipment)		Exp. 1.b (Prep. Area For Demo.)		TOTALS
		% Fee	\$	% Fee	\$	\$
1	291-Z Area					
1.a	291Z - Main Exhaust Fan, Plenum Building and 243-Z	0.10%	\$17,000	0.50%	\$45,000	\$62,000
	<b>291-Z Area Totals</b>	<b>0.10%</b>	<b>\$17,000</b>	<b>0.50%</b>	<b>\$45,000</b>	<b>\$62,000</b>
2	241-Z. Waste Treatment Facility					
2.a	241-Z, Five 5,000 Gallon Tanks in Below Grade Cells & 241-ZA Sample System	7.30%	\$1,241,000	0.20%	\$18,000	\$1,259,000
	<b>241-Z Area Totals</b>	<b>7.30%</b>	<b>\$1,241,000</b>	<b>0.20%</b>	<b>\$18,000</b>	<b>\$1,259,000</b>
3	232-Z					
3.a	232-Z, Waste Incinerator Facility	5.20%	\$884,000	5.50%	\$495,000	\$1,379,000
3.x	232-Z Demolition			DEMOLITION		
				2.00%	\$180,000	\$180,000
	<b>232-Z Area Totals</b>	<b>5.20%</b>	<b>\$884,000</b>	<b>7.50%</b>	<b>\$675,000</b>	<b>\$1,559,000</b>
4	216Z9 Above Grade					
4.a	216-Z-9-A, Contaminated Soil Removal Facility	0.80%	\$136,000	3.00%	\$270,000	\$406,000
	<b>216-Z9 Area Totals</b>	<b>0.80%</b>	<b>\$136,000</b>	<b>3.00%</b>	<b>\$270,000</b>	<b>\$406,000</b>
5	242-Z Americium Facility					
5.a	242-Z Gloveboxes, process vessels, and AMU tanks.	5.00%	\$850,000	1.60%	\$144,000	\$994,000
	<b>242-Z Area Totals</b>	<b>5.00%</b>	<b>\$850,000</b>	<b>1.60%</b>	<b>\$144,000</b>	<b>\$994,000</b>
6	234-5Z Plutonium Finishing Plant					
6.a	Analytical Lab Area, 63 Gloveboxes and Hoods	4.80%	\$816,000	0.50%	\$45,000	\$861,000
6.b	Standards Lab Area, Rm. 221B, C & D, 12 Gloveboxes & Hoods	0.80%	\$136,000	0.50%	\$45,000	\$181,000
6.c	Inactive "C" Line, Rooms 227, 228 A, B, & C, 16 Gloveboxes, Hoods & Conveyor	14.00%	\$2,380,000	2.90%	\$261,000	\$2,641,000
6.d	Active "C" Line, Rooms 230 A, B & C, 12 Gloveboxes & Conveyor Line	10.00%	\$1,700,000	2.90%	\$261,000	\$1,961,000
6.e	Inactive RMA Line, Rooms 232, 232 A & 235A1, A2 & A3, 30 Gloveboxes & Hoods	13.20%	\$2,244,000	2.90%	\$261,000	\$2,505,000
6.f	Active RMA Line, Room 235B, 10 Gloveboxes & Hoods	6.80%	\$1,156,000	2.90%	\$261,000	\$1,417,000
6.g	RAD TU room, 235D 5 Gloveboxes	2.00%	\$340,000	0.50%	\$45,000	\$385,000
6.h	Ducts/HVAC	0.60%	\$102,000.0			\$102,000
6.I	Chemical Make-up Rooms 336 & 337, 23 Tanks			3.30%	\$297,000	\$297,000
6.j	26" Process Vacuum System	1.50%	\$255,000.0			\$255,000
6.k	234-5Z Tunnels and Associated Piping			12.20%	\$1,098,000	\$1,098,000
6.l	PPSL Laboratory, 8 Gloveboxes, 5 Hoods & 5 Filterboxes	3.50%	\$595,000	1.00%	\$90,000	\$685,000
6.m	PR Cans	1.00%	\$170,000	0.00%	\$0	\$170,000

**Table B - Scope and Boundary Description**

	<b>AREA</b>	<b>Process Equipment</b>	<b>Prepare Area for Demolition</b>
1	291Z 291-Z Stack, 2712-Z 243-Z 243-ZA	<ul style="list-style-type: none"> <li>• Remediate Room 501 Sump</li> <li>• Disposition 232-Z Exhaust Duct inside 291-Z, blank at wall</li> <li>• Disposition Abandoned Equipment</li> <li>• Disposition Process Vacuum Piping inside 291-Z blank at wall</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare EE/CA and Action Memo</li> <li>• Ensure authorization basis documentation covers building demolition</li> </ul>
2	241-Z 241-ZA	<ul style="list-style-type: none"> <li>• Disposition Tanks D-4 thru D-8</li> <li>• Disposition drain lines and transfer lines to cell walls</li> <li>• Disposition Sample tubing from tanks thru to 241-ZA</li> <li>• Disposition Sample hood in 241-ZA</li> <li>• Disposition ductwork inside 241-Z Cells. Blank at wall</li> <li>• Disposition above grade ducts, filter boxes and stack. Blank duct at grade.</li> <li>• Cease discharge to Tank Farms</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare EE/CA and Action Memo</li> <li>• Ensure authorization basis documentation covers building demolition</li> <li>• Disposition regulated materials (ballasts, asbestos insulation, circuit board etc)</li> <li>• Isolate Utilities</li> <li>• Fix contamination</li> <li>• Perform radiological survey</li> <li>• Complete RCRA closure activities up through preparation for demolition</li> </ul>
3	232-Z	<ul style="list-style-type: none"> <li>• Disposition gloveboxes</li> <li>• Disposition drain lines, blank at floor flange</li> <li>• Disposition duct to filter box</li> <li>• Disposition filter boxes and ducts to floor. Blank at floor.</li> <li>• Disposition scrubber cell equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare EE/CA and Action Memo</li> <li>• Ensure authorization basis documentation covers building demolition</li> <li>• Isolate utilities except as needed to support exhaust fans</li> <li>• Disposition equipment</li> <li>• Fix contamination</li> </ul>
3.X	232-Z Demolition	N/A	<ul style="list-style-type: none"> <li>• Demolish building</li> <li>• Transition 232-Z to slab on grade</li> </ul>
4.a	216-Z-9-A, Contaminated Soil Removal Facility	<ul style="list-style-type: none"> <li>• Disposition glovebox</li> <li>• Disposition glovebox exhaust ducts and filter</li> <li>• Disposition mining equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare EE/CA and Action Memo</li> <li>• Ensure authorization basis documentation covers building demolition</li> <li>• Stabilize crib</li> <li>• Disposition regulated materials</li> <li>• Disposition equipment internal to 216-Z-9A</li> <li>• Perform radiological survey</li> <li>• Remediate biological hazards</li> <li>• Disposition exhaust fans and stack</li> <li>• Isolate utilities</li> </ul>

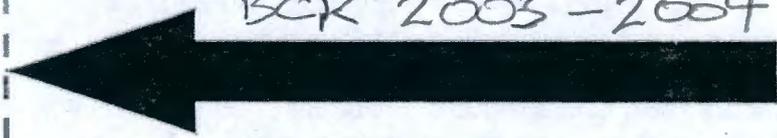
## Table C - Ready for Demolition

Definition	Key Assumptions	Completion Criteria
<p>Fully ready to initiate and safely, cost-effectively support interior demolition of the facilities.</p>	<ul style="list-style-type: none"> <li>• Physical demolition will begin soon (within 90 days) following achievement of "ready for demolition" (September 2006).</li> <li>• Interior demolition should be performed prior to dismantling the exterior and structural portions of the facility to take advantage of the containment boundary for minimizing the environmental consequences of exposing previously undetected contamination.</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed equipment (process and non-process) and utilities not required to support interior demolition will be removed and dispositioned, or decontaminated such that it can be disposed of with demolition waste.</li> <li>• Portable equipment, supplies, drums and other waste containers are removed except as needed for safety during interior demolition.</li> <li>• In general, the areas/sub-areas should be cold, dark and dry.</li> <li>• Detectible, exposed contamination is reduced to levels acceptable for demolition or adequately fixed to support demolition.</li> <li>• Only those services/capabilities needed to safely, compliantly and economically perform interior demolition would remain.</li> <li>• Due to short useful life, decisions to retain existing services or install temporary capabilities to support interior demolition would be based on cost.</li> <li>• Interior demolition will require, as a minimum, a containment boundary and filtered ventilation control.</li> </ul> <p>Known TRU waste has been removed and dispositioned to receiver site requirements except where required to maintain satisfactory containment during initial demolition (e.g. in demolition ventilation system, in concrete exterior block wall of 232-Z scrubber cell).</p>

# PFP Decommissioning Performance Incentives

FY 2003 – FY 2006	FY 2007 – FY 2009	FY 2010 – FY 2016
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*BCR 2003-2004*



**\$30.5M** Legacy Holdup

**\$197.4M**

**\$308.6**

**\$339.1 Total**

*111.2M*

*PROCESS EQUIPMENT*

**\$67.1M**

**\$76.6M**

*9.5M DEMOLITION & SITE STABILIZATION*



- ◆ Performance Incentive S3
  - ❖ Stabilize and Package – to Vaults 2/04
  - ❖ De-inventory – Vaults to SRS 9/05
  - ❖ Legacy Pu Holdup 9/05
  - ❖ Eliminate Protected Area 12/05
- ◆ Performance Incentive S5
  - ❖ Remove Process Equipment 9/06
  - ❖ Ready for Demolition 9/06

*SRS BUDGET SHORTFALL FROM 09 TO 06*

# Accelerated PFP Decommissioning Project Baseline(s) vs. Constrained Funding

	FY03	FY04	FY05	FY06	FY07-09	FY10-16	TOTAL
Original (2016) Baseline* <i>TOPA BASED</i>	\$ 82,396	\$ 83,631	\$ 91,043	\$ 95,990	\$ 319,413	\$ 619,530	\$ 1,292,004
<i>CURRENT</i> Accelerated Decommissioning (2009) Baseline	\$ 128,826	\$ 152,875	\$ 149,878	\$ 164,449	\$ 393,736		\$ 989,764
Fluor Hanford Constrained Funding Case	\$ 110,000	\$ 135,000	\$ 150,000	\$ 140,000	TBD (\$ 244,493)		\$ 535,000
*In FY03 dollars adjusted for new rates.							

# Accelerated PFP Decommissioning TPA Milestones Forecast

TPA No.	Milestone Title	Legal Commitment Date	2009 Plan Baseline	PI & Constrained Funding Case
M-083-00A	Complete PFP Facility Transition & Selected Disposition Activities	9/30/16	9/30/09	FY2007-2009
M-083-13	Complete Repackaging of PFP Residues and Ship to CWC	4/30/04	4/30/04	4/30/04
MX-83-12-T01	Submit PFP Legacy Plutonium Holdup Removal Plan to Ecology	12/31/03	12/31/03	6/30/2003*
M-083-14	Complete 100% Legacy Pu Holdup Removal	9/30/06	9/30/06	9/30/05
M-083-20	Submit Facility End Point Criteria Document to Ecology	9/30/03	9/30/03	9/30/2003*
M-083-21	Submit to Ecology a PFP Residual Chemical Hazards Assessment	12/31/02	Complete	Complete
M-083-22	Submit EE/CA(s) and an Action Memorandum(a) for Decommissioning PFP to Ecology**	9/30/08	6/30/06	6/30/2006*
M-083-23	Complete Negotiations on Revising Milestones Consistent with the Action Memorandum	3/31/09	3/31/09	TBD
M-083-24	Submit a Surveillance and Maintenance (S&M) Plan to Ecology	6/30/12	9/30/07	9/30/07
M-083-30	Submit Closure Plan for 241-Z Waste Treatment Facility TSD Unit to Ecology	7/31/03	7/31/03	7/31/03
M-083-31	Discontinue Waste Discharges from the 241-Z Tanks to Tank Farms	6/30/05	6/30/05	6/30/05
M-083-32	Complete Closure of the PFP 241-Z TSD Unit	9/30/11	2/28/09	2/28/09
M-083-40	Complete Transition & Dismantlement of the 232-Z Bldg Incinerator	9/30/06	2/28/06	9/30/2006*
M-083-41	Complete Transition & Dismantlement of the 216-Z-9 Crib Complex	9/30/10	5/31/09	FY2007-2009
M-083-42	Complete Transition & Dismantlement of 241-Z Waste Treatment Facility	9/30/11	2/28/09	FY2007-2009
M-083-43	Complete Transition of the 242-Z and 236-Z Buildings	9/30/13	9/30/09	FY 2009
M-083-44	Complete Transition of the 234-5Z, 234-5ZA, 243-Z and 291-Z Buildings; and the 291-Z-1 Stack	9/30/16	9/30/09	FY 2009

\*Planning in progress to further accelerate these milestones

\*\*POA for below grade sites is TBD

# **Accelerated PFP Decommissioning Project**

## **Where We Are Today**

- ◆ **Just Completed Re-baseline (2016 ⇒ 2009)**
- ◆ **Adjusting for New Performance Incentive Challenge**
- ◆ **Pu Stabilization & Packaging – On Schedule**
- ◆ **Planning for De-inventory & Protected Area Elimination Underway**
- ◆ **Pu Hold-up Removal Initiated**
- ◆ **D&D Underway & Accelerating**

# PFP Pu Stabilization Safety Mission Scoreboard

% Stabilized as of

09/02  
 10/02  
 11/02  
 12/02  
 01/03  
 02/03  
 04/03

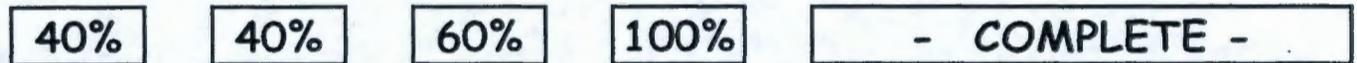
**Solutions**  
(by Pu Weight)



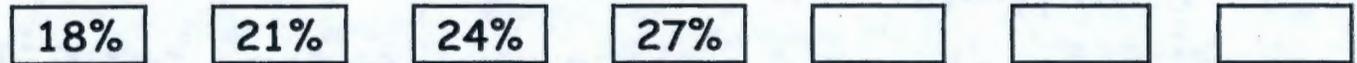
**Metals**



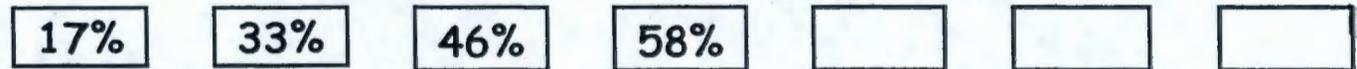
**Alloys**



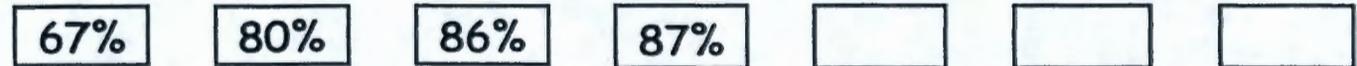
**Oxides**



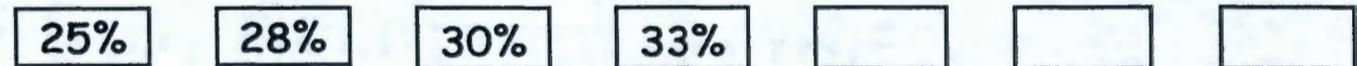
**Polycubes**



**Residues**



**3013 Packaging**



Note: Status of DNFSB Milestones

# **PFP De-inventory Strategies**

- ◆ **Current Baseline: Reduce the PFP Protected Area to the vaults and yard area only by Sept 2006; ship offsite 2010-2014**
- ◆ **Preferred: Ship plutonium inventory to Savannah River Site (SRS) by Sept 2005**
- ◆ **Contingency: Relocate SNM by Sept 2005 to a highly secure and low-cost on-site location for interim storage, pending off-site shipment**

# **Accelerated PFP Decommissioning Project Pu De-inventory Planning Status**

- ◆ **Detailed shipment plan developed to support de-inventory of the PFP vaults Oct/Nov 2003 - Sept 2005**
- ◆ **Shipper-Receiver Agreement coordinated with SRS, approved by RL and at SRS for signature**
- ◆ **Initial shipping container procurement budgeted this year**
- ◆ **One 9975 and one Safekeg container to be used for training, qualification & demonstration**
- ◆ **Working with RL toward an initial “demonstration” shipment in FY 2003**
- ◆ **Coordinating fuel relocation planning with FFTF & SNF Projects**
- ◆ **Continued development of the alternate onsite storage location – but slowing as SRS shipment planning develops**

# Accelerated PFP Decommissioning

## Recent Progress

### ◆ Project Management

- ❖ PFP Accelerated Decommissioning Plan (2009) submitted to RL
- ❖ PFP Decommissioning organization restructured and staffing up for execution
- ❖ Draft End Point Criteria Document provided for FH and RL review
- ❖ Coordination with Central Plateau Remediation Project underway regarding common facility challenges & integration with Regional Closure Planning
- ❖ Documented Safety Basis for 232-Z Decommissioning approved by RL
- ❖ The preliminary Hazards Analysis for decommissioning the balance of PFP distributed for FH and RL review
- ❖ Funds were forwarded to Rocky Flats – DOE to obtain an excess ‘inner tent chamber’ (ITC) (used for size reduction of large contaminated equipment)

**N500000 M2300**  
**PFM Decommissioning**  
**R. E. Heineman, Director**

**Planning & Integration**  
KR Herzog Decommissioning Planning

**N510000 M2300**  
**PFM Support Facilities**  
**Decommissioning**  
**Projects**  
**S. H. Norton, Mgr**

**N520000 M2300**  
**234-5Z/236-Z Bldg**  
**Decommissioning**  
**Projects**  
**B. H. Lueck, Mgr**

**PFM**  
**Area Decommissioning**  
**M. D. Talbot, Mgr**

**N1E0000 M2K00**  
**Infrastructure**  
**Maintenance &**  
**Deactivation**  
**B. J. Gray, Mgr**

**234-5Z Sub-Area**  
**Decommissioning**  
**J. L. Aranda, Mgr**

4 NCOs  
Planner/Scheduler  
Mechanical Engineer  
Mechanical Designer  
Pipefitter  
SWO  
RCT

**236-Z Sub-Area**  
**Decommissioning**  
**Vacant, Mgr**

4 NCOs  
Planner/Scheduler  
Mechanical Engineer  
Mechanical Designer  
Pipefitter  
SWO

**Special Initiatives**  
**Decommissioning**  
**R. Ramirez, Mgr**

5 NCOs  
Chemical Engineer  
2 Pipefitters  
RCT

**232-Z Sub-Area**  
**Decommissioning**  
**Vacant, Mgr**

5 NCOs  
Planner/Scheduler  
Electrical Engineer  
Electrical Designer  
Electrician  
SWO  
2 RCTs

**241-Z Sub-Area**  
**Decommissioning**  
**Vacant, Mgr**

5 NCOs  
Planner/Scheduler  
Mechanical Engineer  
Pipefitter  
SWO  
RCT

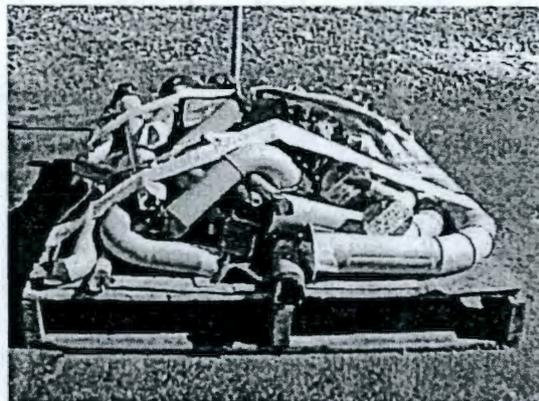
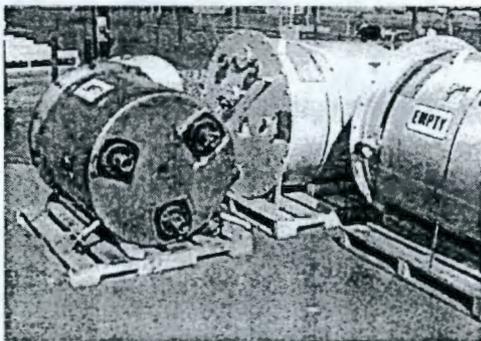
# Accelerated PFP Decommissioning

## Recent Progress

### ❖ Chemical holdup removal/mitigation activities



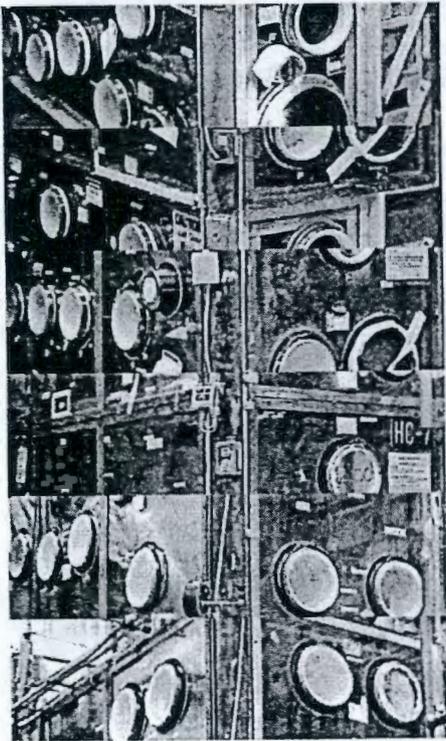
- ❖ A reassessment of residual chemical hazards remaining at PFP was developed and submitted to RL
- ❖ Chemical priority activities this period concentrated in room 336/337 with the removal of 21 cold chemical makeup tanks. Hundreds of feet of chemical lines were flushed and removed along with instrument and power conduit lines
- ❖ Chemical priority activities also continued this period in PRF, with the removal of B-Acid line from Room 40 into the Room 41 MT gloveboxes



# Accelerated PFP Decommissioning

## Recent Progress

### ◆ Legacy Pu Holdup Removal



- ❖ The NEPA Supplemental Analysis (SA) for Plutonium Bearing Holdup Material, Mixed Oxide Materials, and Alloy/Oxide and Metal Materials Disposition at Plutonium Finishing Plant was approved by RL (SA-9 to DOE/EIS-0244-F)
- ❖ Draft of the Legacy Pu Holdup Removal/Disposition Plan and a corresponding briefing were developed
- ❖ A draft of the Safeguards Termination Request Letter covering legacy Pu holdup was prepared and distributed for final review
- ❖ The glovebox HC-7C Characterization Plan/Data Quality Objectives was drafted and distributed for internal review
- ❖ Field work was initiated on cleanout of glovebox HC-7C and work is 85% complete
- ❖ Work plans were drafted for cleanout of PRF, Miscellaneous Treatment gloveboxes 3-6

# Accelerated PFP Decommissioning

## Recent Progress

### ◆ **Yard Area Transition**

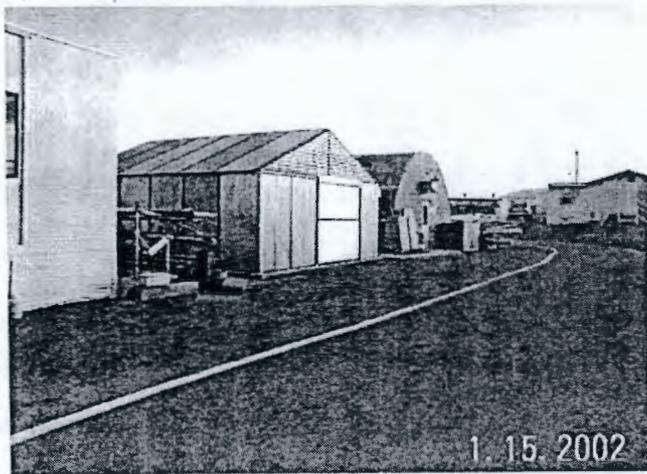
- ❖ Isolation of 234-ZC was completed in preparation for dismantling in January; this will be the seventh structure (fourth numbered building) at PFP to be removed

### ◆ **232-Z Decommissioning**

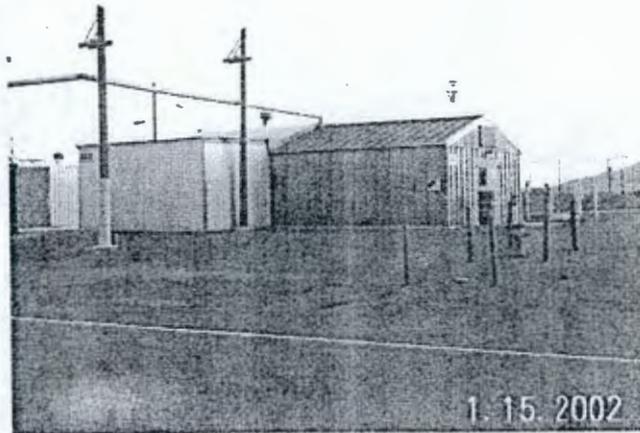
- ❖ Washington Department of Health approved the 232-Z New Source Review
- ❖ The 232-Z Notice of Construction was transmitted to WDOH
- ❖ RL approved the 232-Z NEPA categorical exclusion for deactivation and cleanout
- ❖ The 232-Z documented safety analysis was approved by RL

### ◆ **241-Z Decommissioning**

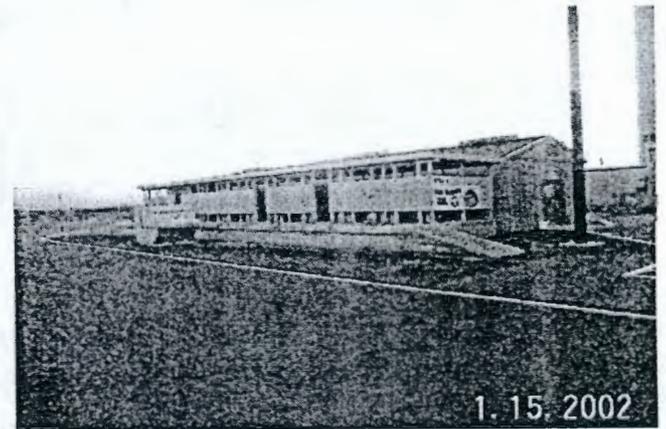
- ❖ RL approved the 241-Z NEPA categorical exclusion for cleanout & isolation from Tank Farms
- ❖ The 241-Z Notice of Construction was transmitted through RL to WDOH; additional information requested



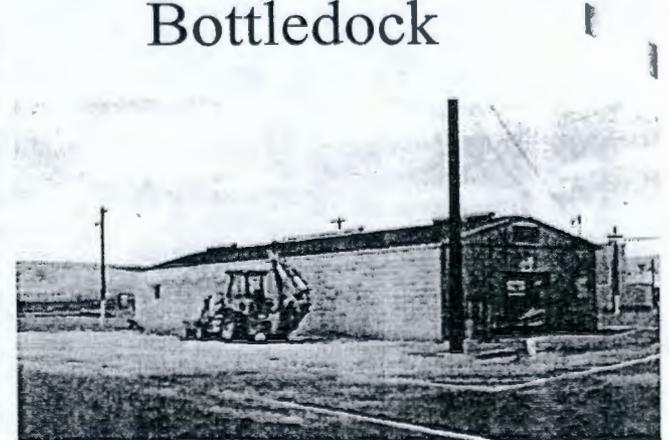
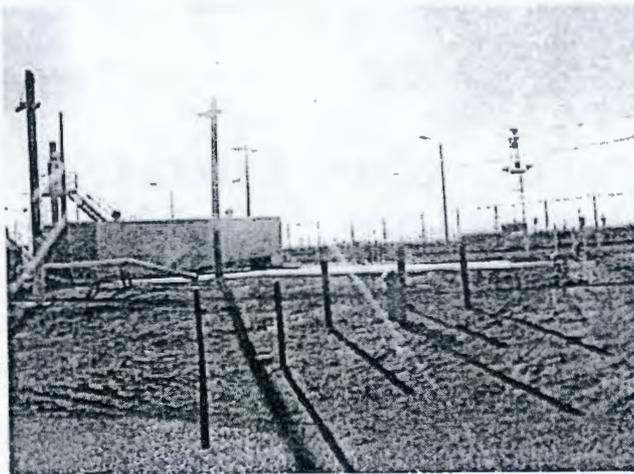
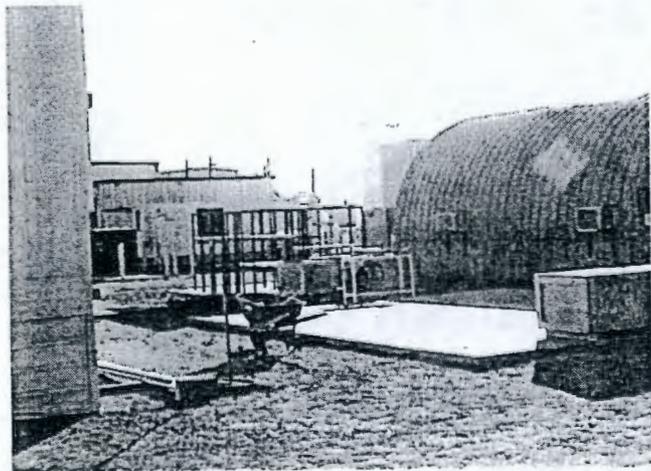
Sheetmetal shop



Painters shop

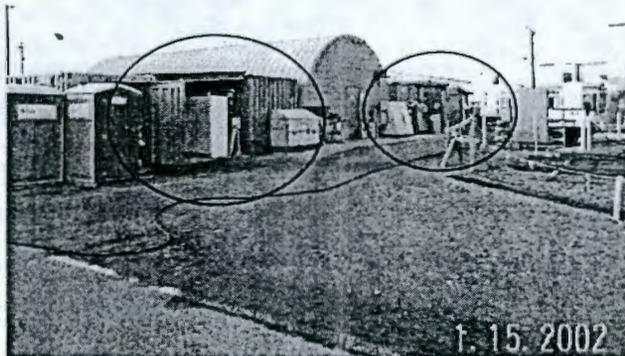


Bottledock

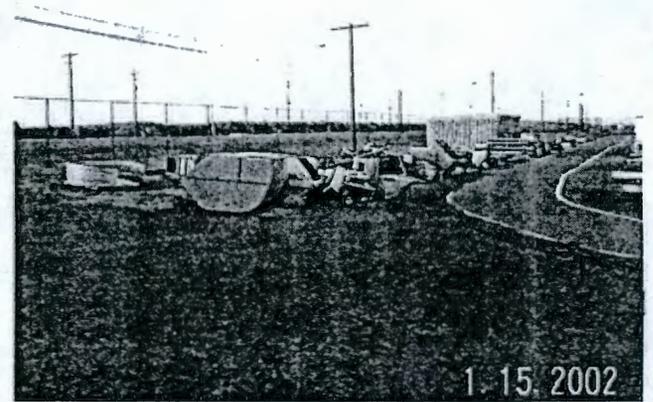
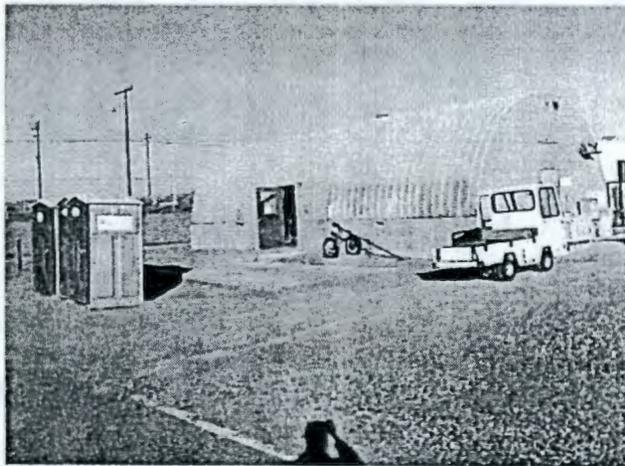
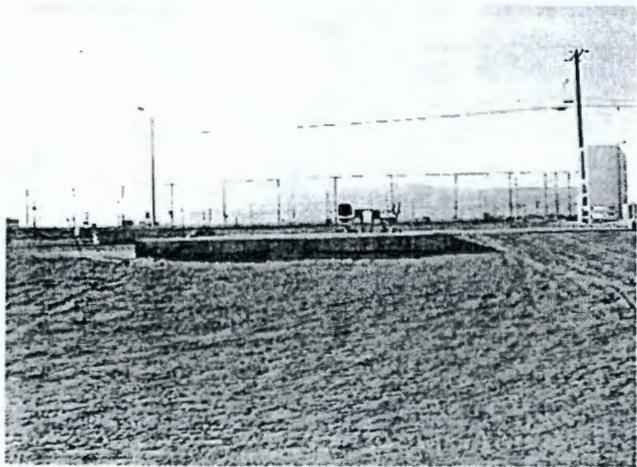




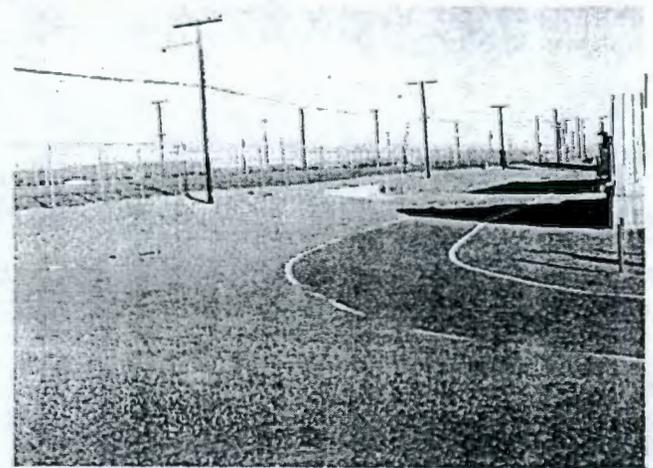
Construction Laydown Area



Removal of N, O, P, Q,  
and R connex boxes



Construction Laydown Area





Activity ID	Activity Description	Early Start	Early Finish	Orig Dur	% Comp	Timeline														
						FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14	FY15
<b>FY03 Baseline Update Summary</b>																				
PA55	Package Low Assay MOX Scrap for Disposal	01MAY03	24DEC03	165	0															
PB01	Alternate Onsite Storage Planning	01OCT02	17MAR03	114	0															
PB04	Submit Residual Chemical Hazards Assessment		31DEC02*	0	0	 TRP-03-503, DOE HO - TPA P-83-21 - 12/31/02														
PB07	Alternative Onsite Storage Engr & Construction	18MAR03	10NOV04	420	0															
PB10	Submit Facility End Point Criteria Document		30SEP03*	0	0	 TRP-03-501, DOE HO - TPA P-83-20 - 09/30/03														
PB13	Submit PFP Legacy Pu Holdup Removal Plan		31DEC03*	0	0	 TRP-04-509, DOE HO - TPA P-83-12-101 - 12/31/03														
PB16	Transport Special Nuclear Material	01OCT03	30SEP05	505	0															
PC01	Legacy Holdup Removal	01OCT02	30SEP05	757	0															
PC04	Complete Legacy Holdup 100%		29SEP06*	0	0	 TRP-06-501, DOE HO - TPA P-83-14 - 09/30/06														
PC07	Complete Protected Area Elimination		30DEC05*	0	0	 TRP-06-503, DOE RL - 09/30/06														
PD01	232-Z Transition	23MAY03	10FEB06	685	0															
PD04	Complete Disarmament of 232-Z Bldg Incinerator		29SEP06*	0	0	 TRP-06-502, DOE HO - TPA P-83-40 - 09/30/06														
PD07	234-5Z/ZA Transition	01OCT02	04AUG09	1,724	0															
PD10	236-Z Transition	01OCT02	23JAN09	1,590	0															
PD13	Submit EE/CA & Action Memorandum for PFP		30SEP08*	0	0	 TRP-08-502, DOE HO - TPA P-83-22 - 09/30/08														
PD16	241-Z RL Closure Plan to WDOE		31JUL03*	0	0	 TRP-03-504, DOE HO - TPA P-83-30 - 07/31/03														
PD19	241-Z Isolation	19FEB03	01APR05	535	0															

Early Bar  
 Progress Bar  
 Critical Activity

**Plutonium Finishing Plant**  
**Project Master Baseline Schedule**

Run Date: 20JAN03 12:23

Project Manager: George Jackson  
 Lead Scheduler: Daniel Muehleisen

Project: IPSP  
 Layout: LT-05 Project Master Baseline Schedule  
 Filter: FL-02 > Preliminary Project Master Schedule



Activity ID	Activity Description	Current Start	Current Finish	Budgeted Cost	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10
<b>3 Richland Operations Office</b>												
<b>3.03 Central Plateau Planning</b>												
<b>3.03.03 Plutonium Finishing Plant</b>												
<b>3.03.03.05 Disposition PFP Facility</b>												
+ 3.03.03.05.01	Transition 232-Z	01OCT02A	29SEP06	10,037,934.87								
+ 3.03.03.05.02	Transition 234-57ZA	01OCT02A	25SEP09	102,422,155.85								
+ 3.03.03.05.03	Transition 236-Z	01OCT02A	25SEP09	31,793,129.93								
+ 3.03.03.05.04	Transition 241-Z	01OCT02A	30SEP09	11,598,727.29								
+ 3.03.03.05.05	Transition 241-Z-361	23DEC02	02AUG04	583,871.93								
+ 3.03.03.05.06	Transition 242-Z	20JUN05	16MAY08	8,024,282.36								
+ 3.03.03.05.07	Transition 243-Z	03MAR08	14MAY09	1,562,426.11								
+ 3.03.03.05.08	Transition 291-Z	03JUL06	31DEC08	7,185,067.55								
+ 3.03.03.05.09	Transition 216-Z-9	28OCT04	30SEP09	6,588,931.60								
+ 3.03.03.05.10	Transition 2736-Z/ZB Complex	01FEB05	24JUL09	4,259,677.27								
+ 3.03.03.05.11	Transition Support Buildings & Yard	01OCT02A	30SEP09	10,623,611.73								
+ 3.03.03.05.13	Transition Pu Holdup Disposition	01OCT03	29JAN08	8,051,109.27								
+ 3.03.03.05.14	Modifications To Support Transition	01OCT03	18JUN09	6,424,122.01								
+ 3.03.03.05.15	Lab Support for Transition	01OCT02A	29SEP09	24,258,946.23								
+ 3.03.03.05.20	Transition Project Management	01OCT02A	30SEP09	57,811,157.72								
+ 3.03.03.05.21	Transition Operations Support	01OCT02A	23SEP09	78,860,307.32								

Run Date 22JAN03 15:47  
 Data Date 23DEC02

Sheet 1 of 1

Scheduler: Juli Wray

**FLUOR HANFORD COMPANY**  
**Plutonium Finishing Plant**  
**Project Schedule**

Project: DECC  
 Layout: LT-GM - Level 5 Summary Schedule  
 Filter: FL-51>>3.03.03.05 - Detailed Schedule