

## Meeting Minutes

**Subjects:** See attached agenda

**Date:** August 22, 2000

**Location:** Broomfield Senior Center

**Attendees:** Susan Wilds (RFCAB), Kathy Schnoor (Broomfield), Shirley Garcia (Broomfield), Mary Harlow (Westminster), George Vancil (Arvada), Pam Tumler (GAO), Lee Carroll (GAO), Steve Tarlton (CDPHE), David Kruchek (CDPHE), Mark Aguilar (EPA), Fred Gerdeman (DOE), John Hale (DOE), Jim Hartman (DOE), Mariane Anderson (DOE), Ed Pietsch (DOE), Jeff Stevens (K-H), Vic Pizzuto (K-H), John Lehew (K-H), Karen Lavorato (K-H), Troy Timmons (K-H), Bob Daro (K-H), Dyan Foss, Catherine Madore, and Pete Sanford

**File:** Facility Disposition RSOP, 371 Closure Project, and 707 Closure Project Administrative Records

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The meeting was initiated with introductions. Jeff Stevens provided status on previous meeting actions: the 771 Building tour is set for September 4, 5, or 6 and he is still working on the videotape of 771 decommissioning activities. Individuals interested in the building tour were asked to call Troy Timmons.

Fred Gerdeman provided status on the Facility Disposition RSOP. The comments from the public comment period have been resolved. An update has been made to Attachment 4 of the RSOP to reflect changes in routing to NTS. The changes did not result in any substantive changes to the cumulative impacts of the action. Once the attachment is resolved, the RSOP will be submitted for final approval. Steve Tarlton made a point that the use of explosives is still contained within the RSOP, that it is an issue for some people, and that CDPHE will continue to monitor this potentially controversial issue.

Jeff Stevens provided status on the Component Removal RSOP. The RSOP has been mailed to CDPHE and EPA for the 14-day pre-public review required by RFCA. Once the review is complete, the formal public comment period will be initiated, projected to be around September 5. Steve Tarlton made a point that the activity to breach the exterior portion of a facility is contained within the RSOP, and that he felt that issue would be controversial during the comment period.

Joe Majestic gave a presentation on the 371 Closure Project. The presentation materials are attached. No significant questions were asked through or after the presentation. After the presentation, Joe discussed the use of cerium nitrate as a decontamination technology. He explained that the objective of this technology is to etch the stainless steel tanks to remove contamination so that the tank will not require size reduction and can be shipped whole as surface contaminated object low level waste. Steve Tarlton made a point that CDPHE supports this technique, but the activity will require a Proposed Action Memorandum. He also indicated

that CDPHE will work with DOE/K-H to expedite the preparation of the Proposed Action Memorandum. Mark Aguilar asked for clarification on the objective of the technique. Pam Tumler asked about the timeframe for implementing the method. No questions were asked about cerium nitrate by the public.

Vic Pizzuto gave a presentation on the 707 Closure Project. The presentation materials are attached. No significant questions were asked through or after the presentation.

Fred Gerdeman wrapped up the meeting and recommended topics and a time for the next meeting. No changes or additions to the topics were requested. Shirley Garcia indicated that she would find a location for the meeting.

Mickey Harlow, City of Westminster, stated that her preference is for the Site to focus on decommissioning the SNM buildings and to not dilute efforts by going after minor buildings like B111. Jeff Stevens, K-H, responded that 1) We're doing it for practice to develop a more efficient process for taking down the non-SNM buildings, and 2) To demonstrate to and convince Site employees that the Site is being decommissioned.

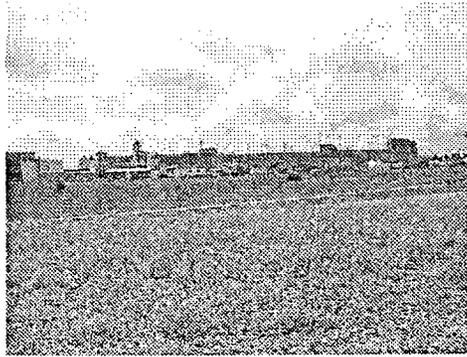


# August 22, 2000 Pizza Meeting Agenda

- Introductions – Jeff Stevens
- Facility Disposition RSOP Status – Fred Gerdeman
  - ◆ Approval
  - ◆ NEPA Section updates
- Component Removal RSOP Status – Jeff Stevens
  - ◆ Currently in the 14-day pre-public review with the LRA
  - ◆ Official formal public comment period will start September 5, 2000
- 371 Closure Project – Joe Majestic
- 707 Closure Project – Vic Pizzuto
- The Next Pizza Meeting – Fred Gerdeman
  - ◆ September 26, 2000
  - ◆ Proposed topics:
    - Component Removal RSOP
    - The sampling results and requirements for the 779 recycled concrete stockpile
    - Building 111 Project description and status
    - 771 Closure Project status
    - 776 Closure Project status
    - 371 Closure Project status
    - 707 Closure Project status

# 371 Closure Project

*Pizza Meeting - August 22, 2000*



## 371 Closure Project - Scope

- The 371 Closure Project has multiple purposes
  - SNM consolidation, processing, storage, and shipping
  - Liquid waste processing
  - Deactivation
  - Decommissioning
- Objective - Safe, compliant, and efficient completion of lifecycle activities



## 371 Closure Project - History

- Opened in 1980 as a replacement for 771/774
  - Plutonium residue recovery and waste operations
  - Plutonium recovery from stockpile returns
  - Plutonium storage
- “Hot” testing began in 1981, curtailed in the same year
  - 374 waste operations and SNM storage continued
- Original facility mission terminated in 1989



## 371 Closure Project - Current Mission

- Risk Reduction - completes in 2002
  - Plutonium Stabilization and Packaging - Room 3701
  - Wet Combustible Residue Packaging - Rooms 3701 and 3206
  - Salt Residue Packaging - Room 3602
  - Sand, Slag, Crucible Packaging - Room 3602
- SNM Consolidation, Storage, and Shipment - completes in 2002
- RCRA Waste Storage - completes in 2003
- Liquid Waste Treatment - completes in 2003
- Deactivation - completes in 2003

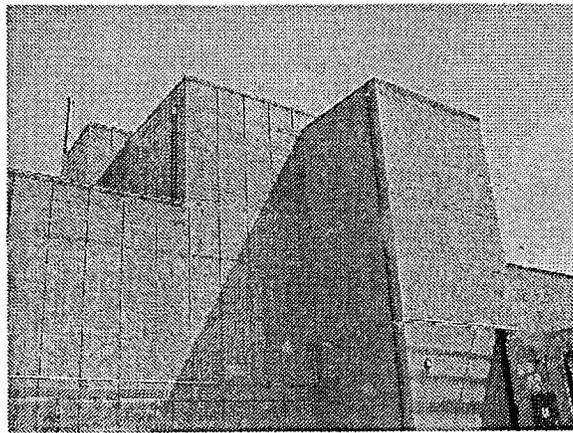


## 371 Closure Project - Unique Challenges

- Building 371 is four stories, and it has similar processes and equipment as the other plutonium facilities, but on a larger scale
- Over 70% of the gloveboxes and tanks will have to be size reduced in place
- Central Storage Vault
- Canyons

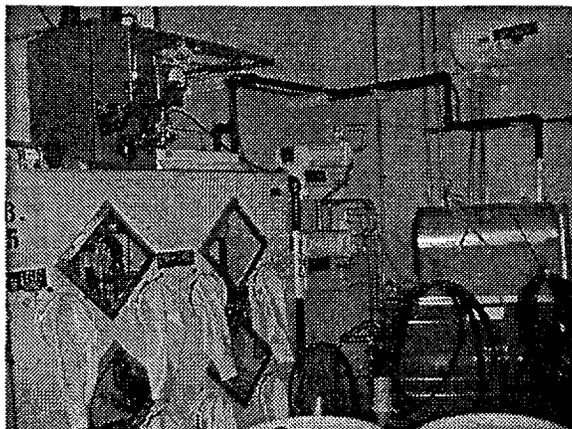
CLOSURE  
371/05  
SHELL PLANT CLOSURE PROJECT

## West side of Building 371



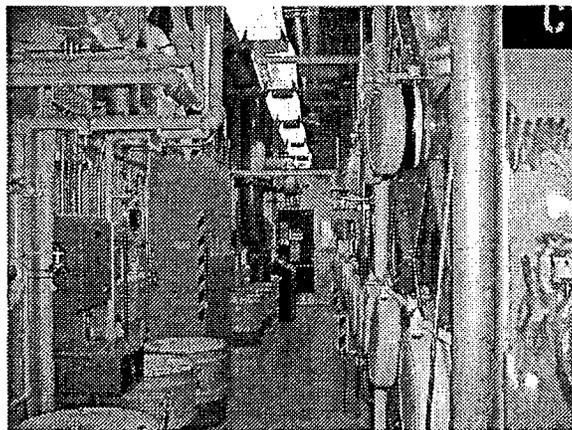
CLOSURE  
371/05  
SHELL PLANT CLOSURE PROJECT

Building 371, Room 3305,  
Glovebox 35



CLOSURE  
3305  
SOCIETY STATE CLOSURE PROJECT

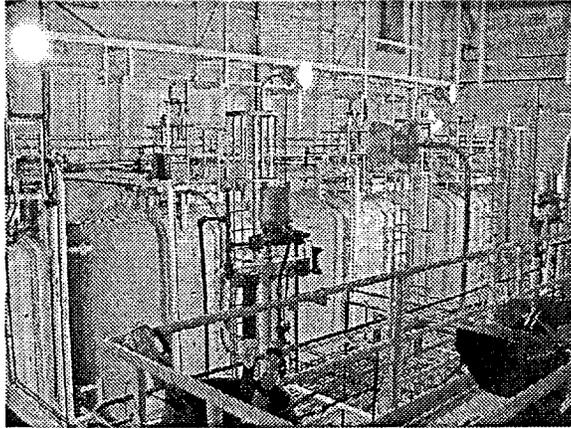
Building 371, Room 3305,  
Glovebox 36



CLOSURE  
3305  
SOCIETY STATE CLOSURE PROJECT

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## Building 374, Room 2804, Tanks



CLOSURE  
371  
DEEPLY EARTH CLOSURE PROJECT

## 371 Closure Project - Central Storage Vault (Set 4)

- 3 stories high, 300 yards long, inert environment, walls are 14 inches thick, and contains 1,200 storage pallets
- The building was built around the vault and it is a unique feature to the Site
- Remote deactivation is being planned

CLOSURE  
371  
DEEPLY EARTH CLOSURE PROJECT

## 371 Closure Project - Canyons (Set 6)

- The rooms were developed not to be accessed - the rooms are equivalent to a large glovebox
- People do not and have not entered the rooms in many years with the exception of maintenance
- The most contaminated areas in the Closure Project (infinity levels)



## 371 Closure Project - Hazard Profile

- Nuclear
  - Stored SNM
- Radiological
  - Surface and fixed contamination
  - Pu, Am, and U
- Physical
  - Electrical
  - Pressurized systems
- Chemical
  - Acids and caustics
  - Asbestos
  - Metals
  - Nitrates
  - Volatile Organic Compounds



## 371 Closure Project Schedule

- Currently conducting deactivation, which is scheduled to be complete November 2003
- Decontamination and component removal will be initiated once the DOP is approved, which is scheduled for March 2001
- Decommissioning is scheduled to be complete October 2006
- Critical path runs through Set 4 - Central Storage Vault



## 371 Closure Project - Reconnaissance Level Characterization

- An RLC was performed to assess physical, chemical and radiological hazards associated with the 371/374 Building Cluster (i.e., B371, B374, B373, B374A, B377, B378, B381, and the cluster tanks).
- Hazards were assessed based on a review of historical and process knowledge, historical radiological and chemical data, and newly acquired RLC data.
- External building surfaces (i.e., walls and roof) are not contaminated.
- Based upon this characterization activity, Building 371 is considered a Type 3 Facility, Building 374 and the cluster tanks are considered Type 2 Facilities, and Buildings B373, B374A, B377, B378 and B381 are considered Type 1 Facilities.



## 371 Closure Project - Preliminary Reconnaissance Level Characterization Results

Table RS-1 Summary of Hazards and/or Contamination Indicated by the RLC

Bldg/ Facility	Chemical Contamination Indicated?	Contamination Type	Location	Radiological Contamination Indicated?	Contamination Type	Location	Building Classification <sup>1</sup>
B371	Yes	Asbestos  Metals, organic solvents, beryllium (Be) & PCBs	Multiple, including roofing material, panels, tiles & insulation  As residual inside gloveboxes, equipment, tanks, piping and plenums	Yes	Fixed and Removable Alpha	Extensive, on interior bldg surfaces, on & in equip. & systems, and roof	Type 3
B374	Yes	Asbestos  Metals, organic solvents, Be & PCBs	Multiple, including roofing material, panels, tiles & insulation  As residual inside tanks, equipment and piping	Yes	Fixed and Removable Alpha	Extensive, on interior bldg surfaces, on & in equip. & systems, and roof	Type 2
B373	Yes	Asbestos	Transite panels & piping insulation	No	NA <sup>2</sup>	NA <sup>2</sup>	Type 1
B374A	Yes	Asbestos	Ceiling & floor tile, and insulation	No	NA <sup>2</sup>	NA <sup>2</sup>	Type 1
B377	Yes	Asbestos	Transite panels, ceiling & floor tile, and insulation	No	NA <sup>2</sup>	NA <sup>2</sup>	Type 1
B378	Yes	Asbestos	Piping insulation	No	NA <sup>2</sup>	NA <sup>2</sup>	Type 1
B381	Yes	Asbestos	Ceiling & floor tile and insulation	No	NA <sup>2</sup>	NA <sup>2</sup>	Type 1
371/374 Cluster Tanks	Yes	Asbestos  Acid, caustic & diesel Metals, organics & Be	Piping insulation  Product tanks  Vapor effect tanks and spray dryer	Yes	Internal contamination Fixed Alpha	Vapor effect tanks and spray dryer Tank roofs	Type 2

<sup>1</sup>Building classification does not include environmental media or bulk media beneath the immediate surface of the floor.

<sup>2</sup>NA = Not Applicable

**CLOSURE**  
**2005**  
SHEPHERD ENERGY PROJECT

## 371 Closure Project - Decommissioning Operations Plan Schedule

- Draft is currently being prepared
- The DOP will reference the RSOPs
- DOP will be ready for an informal review by the stakeholders in October 2000 followed by a meeting to discuss major concerns
- Formal public comment period is scheduled for December 2000
- A meeting will be held in the middle of the public comment period to discuss the DOP

**CLOSURE**  
**2005**  
SHEPHERD ENERGY PROJECT

**Building 707  
Decommissioning**

**Victor M. Pizzuto  
B707 Facility Disposition Manager**

**August, 2000**

CLOSURE

~~2006~~

ROCKY FLATS CLOSURE PROJECT

KAISER-HILL

## **Building 707 Basic Facts**

- Operational in 1970
- Mission - Plutonium pit manufacturing
- 197,000 square feet
- 1200 linear feet of chainveyor transfer system
- 90 standard glove boxes
- 54 special glove boxes (contains large equipment)
- 20 tanks
- 17 plenums
- Over a mile of ducting and several miles of associated process piping
- Automated XY Retriever storage vault

CLOSURE



ROCKY FLATS CLOSURE PROJECT

KAISER-HILL

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## **Current Mission**

- Process Plutonium residues through December 2000
- Process Plutonium metal and oxides for offsite shipment through December 2000
- Remove classified matter and Plutonium hold-up from equipment to allow Material Access Area closure
- Remove property and chemicals

**CLOSURE**

**2000**

ROCKY FLATS CLOSURE PROJECT

KAISER-HILL

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## **One Year Look Ahead**

- Continue deactivation activities
- Close the Material Access Area (MAA)
- Implement an approved Decommission Operations Plan (DOP) and a revised Basis for Interim Operation (BIO)
- Complete Readiness Assessment and begin decommissioning activities (March 2001)

**CLOSURE**

**2006**

ROCKY FLATS CLOSURE PROJECT

KAISER-HILL

**Figure 1-1**  
**B707 Cluster**

**EXPLANATION**

-  Building 707 Cluster
-  Tanks

**Standard Map Features**

-  Paved roads
-  Dirt roads

**DATA SOURCE:**  
Buildings, roads, and tanks provided by  
Facilities Engineering, Inc. - 1991  
Hydrology provided by  
USGS - (date unknown)

**DISCLAIMER:**  
This map was prepared for the Department of Energy by Rocky Mountain Remediation Services, LLC. The map is provided "as is" without warranty, express or implied, or assurance, any legal liability or responsibility for errors, omissions, or inaccuracies, or for use of the map for purposes not intended by the mapmaker. The mapmaker makes no representation, that the map is not subject to the provisions of the contract.



Scale = 1 : 1380  
1 inch represents approximately 116 feet



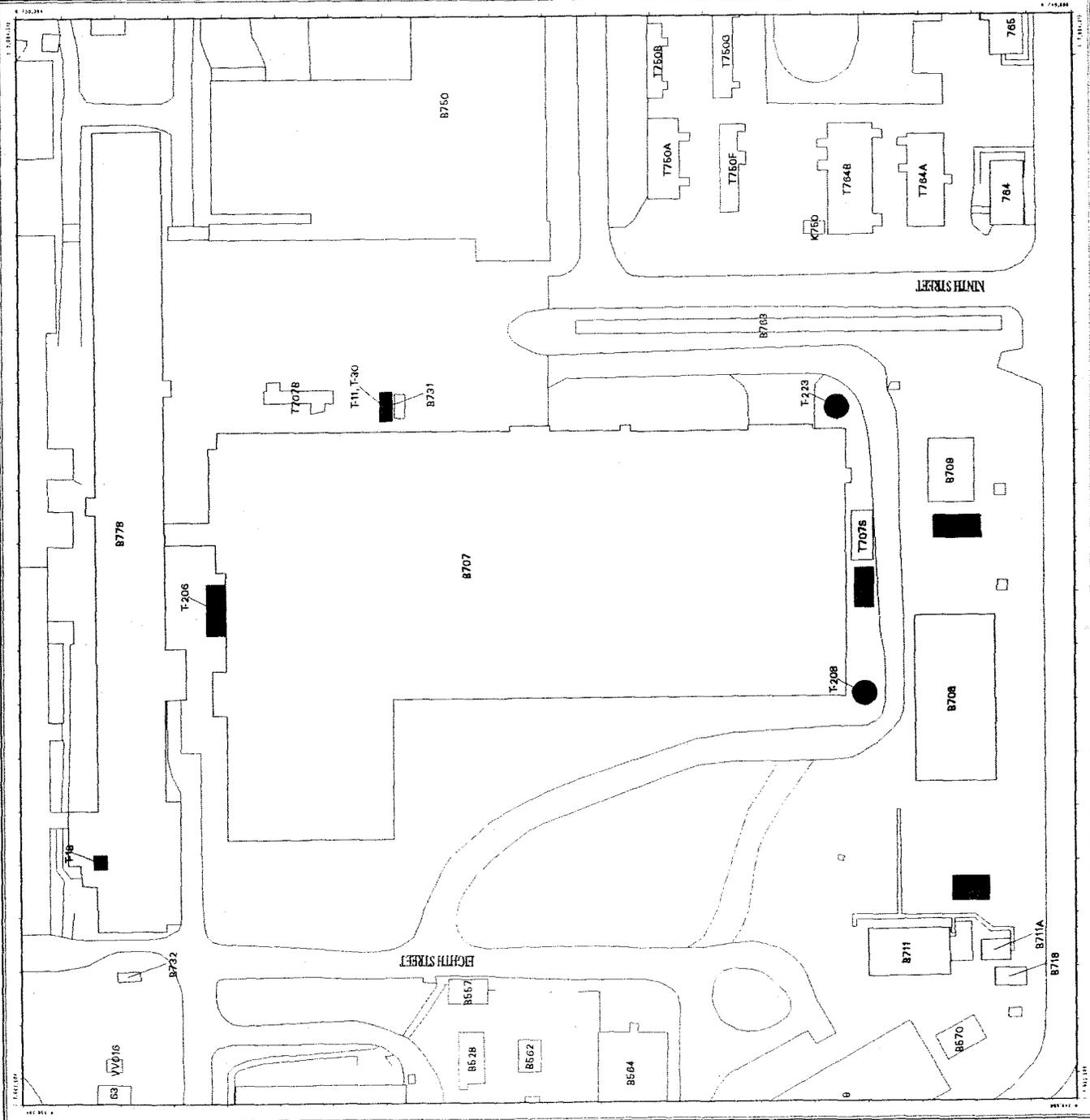
State Plane Coordinate Projection  
Colorado Central Zone  
Datum: NAD27

U.S. Department of Energy  
Rocky Flats Environmental Technology Site



MAP ID: 2K-0223

May 17, 2000



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## 707 Closure Project - Hazard Profile

- Nuclear
  - Stored Holdup SNM
- Radiological
  - Surface and fixed contamination
  - Pu, Am, and U
- Physical
  - Electrical
  - Pressurized systems
- Chemical
  - Acids and caustics
  - Asbestos
  - Metals
  - Volatile Organic Compounds
  - Beryllium

CLOSURE



ROCKY FLATS CLOSURE PROJECT

KAISER-HILL

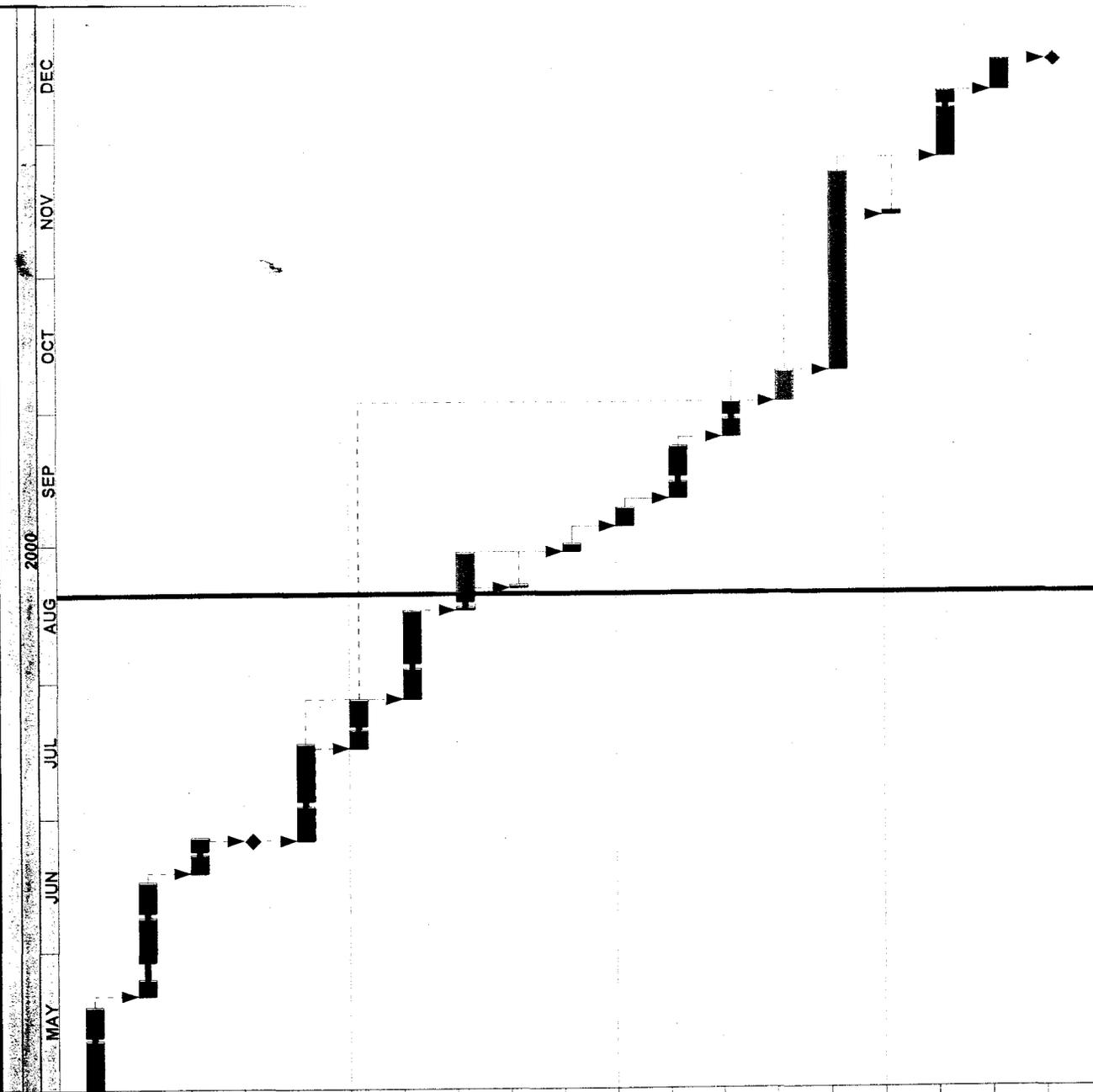
**Activity Description**

	FY00	FY01	FY02	FY03	FY04	FY05	FY06	FY07
Decommissioning Set 1 Module A								
Decommissioning Set 2 Module B								
Decommissioning Set 3 Module C								
Decommissioning Set 4 Module D								
Decommissioning Set 5 Module E								
Decommissioning Set 6 Module F								
Decommissioning Set 7 Module G								
Decommissioning Set 8 Module H								
Decommissioning Set 9 Module J								
Decommissioning Set 10 Module K								
Decommissioning Set 11 2nd Floor								
Decommissioning Set 12 CA Rooms & Corrid								
Decommissioning Set 13 Cold Office Space								
Decommissioning Set 14 Exterior Tanks								
Decommissioning Set 15 Type 1 Bldgs.								
Demolition Set 16 B707 Cluster								
Decommissioning Set 17 B778								

Start Date 01FEB99	Early Bar	Sheet 1 of 1 <b>KAISER HILL COMPANY</b> 707 Complex Project Decommissioning	Date	Checked	Approved
Finish Date 13MAR06	Progress Bar		Revision		
Data Date 22MAY00	Critical Activity				
Run Date 14AUG00 13:56					

CPBS

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Activity Description	%	Orig Dur	Early Start	Early Finish
<b>B707 D&amp;D DOP</b>				
Develop Decision Document (DOP)	100	135*	30NOV99A	19MAY00A
Internal Review of Decision Document (DOP)	100	17	22MAY00A	16JUN00A
Incorporate Review Comments	100	12	19JUN00A	26JUN00A
D&D DOP Draft Submittal to DOE	100	0	26JUN00A	
DOE Review & Comment on the Decision Document	100	55*	26JUN00A	17JUL00A
Resolve DOE DD Comments	100	0*	17JUL00A	27JUL00A
CDPHE Informal Review	100	5	28JUL00A	16AUG00A
Public Informal Review	13	8	17AUG00A	29AUG00
Pizza Meeting	0	1	22AUG00*	22AUG00
Comment Incorp/Submittal	0	2	30AUG00	31AUG00
Prepare DD for CDPHE Submittal	0	4	05SEP00	08SEP00
CDPHE Review & Comment on the Decision Document	0	9	11SEP00	22SEP00
Resolve the CDPHE's Decision Document Comments	0	5	25SEP00	02OCT00
Issue the Decision Document for Public Comment	0	5	03OCT00	09OCT00
Decision Document Public Comment Period	0	45	10OCT00	23NOV00
Decision Document Public Meeting	0	1	14NOV00	14NOV00
Prepare Decision Document Response Summary	0	10	27NOV00	11DEC00
LRA (CDPHE) Approve Decision Document	0	5	12DEC00	18DEC00
B707 D&D Regulatory Approval to Start Decomm.	0	0		18DEC00

Start Date: 01JAN97  
 Finish Date: 30SEP05  
 Data Date: 21AUG00  
 Run Date: 22AUG00 07:17

19/19

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707D

Sheet 1 of 1

Kaiser-Hill Company  
 B707 Facility Disposition  
 707 D&D Startup Layout

Date: \_\_\_\_\_  
 Revision: \_\_\_\_\_  
 Checker/Approved: \_\_\_\_\_