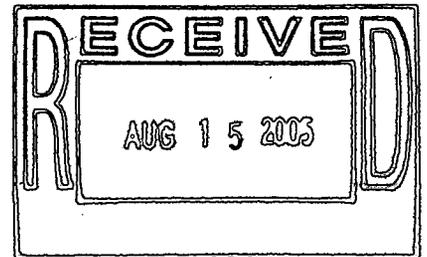


**Final Project Closeout Report  
For  
Building 444 Cluster**

**Revision: 0**

**July 2005**

**Remediation, Industrial D&D, and Site Services  
Kaiser-Hill Company, LLC**



Review for Classification

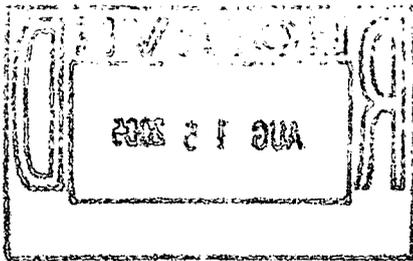
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Date:                     

**ADMIN RECORD**

**B444-A-000131**

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## Table of Contents

<b>I.</b>	<b>Introduction</b>	<b>1</b>
<b>II.</b>	<b>Action Description</b>	<b>2</b>
<b>III.</b>	<b>Decontamination &amp; Demolition (D&amp;D) Methodology</b>	<b>3</b>
<b>IV.</b>	<b>Verification that Action Goals Were Meet</b>	<b>6</b>
<b>V.</b>	<b>Verification of Treatment Process</b>	<b>7</b>
<b>VI.</b>	<b>Radiological Analysis</b>	<b>7</b>
<b>VII.</b>	<b>Demolition Survey Results</b>	<b>7</b>
<b>VIII.</b>	<b>Waste Stream Disposition</b>	<b>8</b>
<b>IX.</b>	<b>Deviation from Decision Document</b>	<b>9</b>
<b>X.</b>	<b>Description of Site Condition at End of Decommissioning</b>	<b>10</b>
<b>XI.</b>	<b>Demarcation of Excavation</b>	<b>11</b>
<b>XII.</b>	<b>Demarcation of Wastes Left in Place</b>	<b>11</b>
<b>XIII.</b>	<b>Final Disposition of Waste</b>	<b>11</b>
<b>XIV.</b>	<b>Next Steps for Area</b>	<b>11</b>

### Appendices

- 1. Maps**
- 2. Figures**
- 3. Contact Records**
- 4. PDSR & RLCR**
- 5. CDPHE RSOP Notification Concurrence**

## I. Introduction

The 444 Cluster was located on the south half of the Rocky Flats Environmental Technology Site (RFETS), just east of building 460 (see RFETS Plot Plan, Appendix 1). The structures within the 444 Cluster consisted of Building 444, Building 445, Building 447 and Building 448.

The 444 Cluster Closure Project was completed in accordance with the Rocky Flats Cleanup Agreement (1996), the Rocky Flats Cleanup Agreement Standard Operating Protocol (RSOP) for Component Removal, Decontamination and Size Reduction Activities, and the RSOP for Facility Disposition. These documents summarize the actions taken and the final condition of the Building 444 Cluster.

Building 444 was constructed of poured concrete and had a total floor area of 162,000 square feet, with 112,900 square feet on the ground floor, 23,700 square feet in the basement and 25,400 square feet on the mezzanines. The exterior walls were reinforced concrete between reinforced concrete beams. The roof was a pre-cast concrete panel with built-up insulation. The floor was a poured concrete slab. In 1955, radiographic vaults and dimensional metallurgical laboratory were added to the northwest corner of the building. The 1955 addition was constructed of reinforced concrete walls with a steel frame support structure and a corrugated metal roof with built-up roofing.

Building 447, 448 and 445 were labeled as separate structures but were frequently referred to as additions to Building 444. Building 447 was constructed on the south side of the structure in 1956, had 23,100 square feet of floor space and was used to expand the uranium manufacturing operations. Building 445 was added to the east side of the structure in 1957, had 1800 square feet of floor space and was used primarily for storage. Building 448 was added to the north side of Building 447 in 1962, had 4000 square feet of floor space, and was used for shipping and storage of beryllium parts. Associated buildings with the 444 cluster included the following:

- Building 450, a two stage filter plenum building located south of Building 444.
- Building 451, a two stage filter plenum building located south of Building 447.
- Building 454, a cooling tower facility located east of Building 444.
- Building 455, a two stage filter plenum building located east of Building 444.
- Beryllium Filter Plenum located south of Building 444 (removed as equipment).

Building 444 was designed as a manufacturing facility to fabricate weapons components and assemblies of beryllium, depleted uranium, stainless steel, aluminum, and vanadium parts. Operations included foundry processes, fabrication and assembly of parts, testing and inspection, and support operations. Foundry processes included beryllium, depleted uranium, inspection, and support operations. Fabrication processes included the machining of all metals, as well as brazing and welding operations on fabricated parts. Also included were coating and plating operations.

Nuclear weapons component production continued in the facility until 1989, and by the end of 1994, all operations ceased.

## II. Action Description

Decommissioning activities were initiated in the 444 complex in January 2002 utilizing the *RFCA Standard Operating Protocol (RSOP) for Facility Component Removal, Size Reduction, and Decontamination Activities* (CDPHE approval Feb 22, 01). Initial activities focused on loose property and machine equipment removal. Contact Records 2/20/02 and 3/6/02 (Appendix 3, Articles 1 and 2) outlined the scope and methodology of these activities. In general, each building was dispositioned as follows:

- Scoping and reconnaissance level characterization were performed.
- Facility typing was completed.
- In-process surveys were conducted and areas were designated as separate Ventilation Isolation Areas (VIA).
- Components were removed, from each VIA, and areas decontaminated as necessary and practical to meet release limits.
- Areas were prepared for demolition (e.g., transite panel removal, wall removal, etc.) as necessary to meet ACM Permit Abatement limits.
- Pre-demolition surveys were performed to establish compliance with release limits as sanitary or low level waste.
- The building was demolished using mechanical equipment.

The following outlines the actual sequence of events and major milestones:

- Equipment Removal was conducted in the 444 cluster from January 2002 to November 2004. This work was performed in accordance with Contact Records 2/20/02 and 3/5/02 (Appendix 3, Articles 1 and 2) and the RSOP Notification Letter for Component Removal, Size Reduction and Decontamination Activities for Building 444 Cluster Closure Project, dated 1/14/03.
- Process Waste System removal was conducted from March 2002 to December 2004 in accordance with RSOP Notification Letter for Component Removal, Size Reduction and Decontamination Activities for RCRA Unit 39 and 40 Final Closure in Buildings 444/447 dated 1/14/03.
- Type 1 Building 449 and attached Type 1 structures, 449A, 449C S449, 427, 427A demolition completed February 2003.
- Asbestos abatement was conducted from October 2003 to February 2005 per Asbestos abatement Approval Notice dated 10/1/03.
- Building 455 demolition completed October 2003 in accordance with RSOP Notification Letter for Building 444, 445, and 450 Demolition dated 01/06/2005.
- Hopper demolition completed November 2003 in accordance with the Component Removal RSOP dated 1/14/03.
- Type 1 Buildings 454 and 457 Cooling Tower demolition completed December 2003.

- Building 448 demolition completed October 2004 in accordance with B448 Facility Disposition RSOP Notification dated 9/15/04.
- Building 447 demolition completed November 2004 in accordance with B447 Facility Disposition RSOP Notification dated 10/7/04.
- Building 451 demolition completed November 2004 in accordance with B451 Facility Disposition RSOP Notification dated 10/14/04.
- Building 444 NW Annex demolition completed January 2005 in accordance with Regulatory Contact Record 1/12/2005 (Appendix 3, Article 67).
- Building 445 demolition completed February 2005 in accordance with RSOP Notification Letter for Buildings 444, 445, 450 Demolition dated 1/14/05.
- Building 450 demolition completed April 2005 in accordance with RSOP Notification Letter for Buildings 444, 445, 450 Demolition dated 1/14/05.
- Building 444 demolition completed April 2005 in accordance with RSOP Notification Letter for Buildings 444, 445, 450 Demolition dated 1/14/05.

### III. Decontamination & Demolition (D&D) Methodology

Extensive characterization revealed, as anticipated based upon facility operations, high levels of beryllium and radiological contamination throughout the CA of Building 444, as well as throughout Buildings 447, 448 and the filter plenums which serviced the cluster. The non-CA or "cold side" areas of Building 444, including office, cafeteria and locker room areas, the North West Annex, the carbon shop, and Building 445 were contaminated to a much lesser extent. The approach to working D&D from the inception of the project was to segregate the complex into "Room Groups". Each Room Group was selected based on levels of contamination present and building ventilation patterns. The Room Group designation was eventually refined into Ventilation Isolation Areas (VIAs). These VIAs allowed the ventilation of a specific room group to be isolated so that dismantlement and decontamination activities could be safely conducted with minimal risk for contamination spread. The general D&D strategy for each VIA was conducted as follows:

- Asbestos abatement activities, as required.
- Removal and size reduction of remaining equipment.
- Strip-out and size reduction of wiring, electrical conduit, piping and non-essential ventilation ductwork.
- Removal and size reduction of remaining process waste piping and ancillary equipment.
- Removal of interior, non-load-bearing walls.
- Packaging of waste materials.
- Decontamination of area via power washing and/or scarifying.
- Asbestos clearance surveys performed along with radiological and beryllium pre-surveys.
- Further decontamination, and application of fixative, as required.
- Pre-demolition Surveys performed.

## Size Reduction

Size reduction was conducted on remaining equipment including production machines, furnaces, the chip roaster, large welders, hoods, ventilation sections, and process waste lines and equipment. In general, these items were size reduced as follows:

- The equipment was characterized for both radiological and beryllium contamination.
- If possible, decontamination methods and permanent fixatives were applied in order to disposition the equipment via unrestricted release.
- The majority of the equipment was dispositioned as low level / low level mixed, beryllium contaminated, waste. In this case, contaminated surfaces were fixed and provisions made for contamination control during size reduction. Contamination reduction and control methods included establishment of controlled areas, isolation using plastic sheeting and glove bags, use of self-contained ventilation equipment and the employment of wet methods during size reduction.
- The equipment was disconnected from external equipment and utility connections, dismantled, other ancillary appurtenances removed, and packaged for disposal. This process also included the removal of any free liquids such as hydraulic fluids cooling water and glycol, as well as regulated materials such as circuit boards, lead shielding, light bulbs, etc.

## Utility Disconnect

Electrical isolation was performed on all original feeds to the system and equipment associated with the B444 Cluster. Isolation of electrical power was performed using controls such as Lock-Out-/Tag-out to isolate the main power to the facility then cutting, removing or air-gapping electrical systems within the facility. This "cold and dark" process greatly reduces the potential for electric shock injuries to workers during interior dismantling, decontamination and asbestos abatement activities. Auxiliary generators provided temporary power for building support systems and for exterior and interior lighting.

Potable feed water to the facility was discontinued, and isolated at the building exterior and three feet or greater below final grade. All sanitary fixtures were disconnected, and sewer lines were flushed with a volume of water equal to approximately 10 times the volume of the pipe. Grout plugs were installed at all exit points to the facility in order to isolate the pathway to the main sewer lines.

## Contaminants of Concern

Contaminants of concern included depleted uranium, beryllium and asbestos.

Characterization was conducted in accordance with the Reconnaissance Level Characterization Report (RLCR) and the Pre Demolition Survey Report (PDSR).

Colorado Department of Public Health & Environment (CDPHE)-certified asbestos inspectors conducted the asbestos inspections and sampling in accordance with the *Asbestos Characterization Protocol, PRO-563-ACPR, Revision 1*. Building materials suspected of containing asbestos were identified using the period of construction and known materials used that were ACM. Because beryllium was stored and machined in the facility, random and biased beryllium sampling was performed in accordance with the RLCR and the *Beryllium Characterization Procedure, PRO-536-BCPR, Revision 0, September 9, 1999*.

### **Asbestos Abatement**

Asbestos abatement activities were performed in accordance with Colorado State Regulation 8 requirements. Abatement activities commenced November 2003 and were completed February 2005, and included the removal of asbestos-containing transite panels, "Thermal System Insulation" (TSI), floor tiles, ceiling tiles, drywall mud, hardboard panels, floor mastic and miscellaneous caulking.

Total quantities of asbestos containing material (ACM) waste removed from the facility are noted in Section VII, Waste Stream Disposition.

### **Beryllium Removal**

Due to the nature of the almost facility-wide presence of beryllium, interior strip out was an integral part of beryllium removal.

Beryllium removal activities included the strip-out of the former Beryllium Shop located in rooms 106 and 107 of Building 444. This activity included the removal of beryllium contaminated machine equipment, ventilation ductwork, and the beryllium plenum located immediately to the south of Building 444. This was accomplished through utilizing airflow to isolate specific systems such as ventilation ducts, bagging, shrink-wrapping, foaming, application of fixatives and the use of wet methods during equipment removal. Similar methods were applied throughout the facility to accomplish beryllium removal in the various VIAs.

### **Depleted Uranium Removal**

As with beryllium, depleted uranium contamination was present throughout the facility. Depleted uranium stock metal was dispositioned as Low Level Waste (LLW) to the Nevada Test Site. Additionally, remaining depleted uranium chips and oxides were packaged and shipped to Material Stewardship for offsite disposition. Items such as the Chip Roaster and arch Melt Furnaces in building 447, the Vacuum Induction Furnaces in building 444 and depleted uranium machine equipment required special characterization, and additional controls to be implemented, prior to removal due to high levels of contamination. Further, the CDPHE provided concurrence on the work packages used to remove and size reduce these items (see Appendix 3, RFETS Regulatory Contact Records).

7

Depleted uranium removal and decontamination were almost always performed concurrently with beryllium removal and were also an integral part of interior strip out. Hence, the same methods of contamination control were used for depleted uranium and beryllium removal.

### **RCRA Closure**

RCRA closure for Interim Status RCRA Unit 40, as it pertained to buildings 444 and 447, was performed in accordance with the RSOP Notification Letter for Component Removal, Size Reduction, and Decontamination Activities for RCRA Unit 39 and 40 Final Closure in Buildings 444/447 dated 1/14/2003. This RSOP Notification incorporated the following Closure Description Documents:

- Closure Description Document for Partial Closure of Interim Status Portion of Unit 40 Building 444/447 – Process Waste Sinks (CDPHE approval – 25 Sept. 02).
- Closure Description Document for Partial Closure of Interim Status Portion of Unit 40 Building 444 – Acid Waste System and Cyanide Waste system (CDPHE approval Jan. 13, 03).

Closure Summary Information is included in Appendix 6 of this report.

## **IV. Verification Action Goals Were Met**

Four action objectives were established for the Building 444 Cluster removal project prior to beginning demolition:

- 1. Decontamination of the facility (as necessary and practical) to support release for decommissioning per RFETS approved procedures.***

The majority of the Buildings 444, 445 and 448 primary structures were decontaminated to free-release standards and placed in an off-Site landfill. A permanent fixative was applied to most surfaces in order to meet the beryllium free-release criteria. The floor slab (rooms 101, 103, 106, 109 and 109A), the basement and elevator shafts of Building 444, and the superstructure, basement, floor trenches, elevator shafts, and mezzanine of Building 447 were dispositioned as LLW to Envirocare of Utah. The demolitions with residual contamination for Buildings 447 and 444 were addressed in Contact Record 10/12/04 (Appendix 3, Article 59) and the RSOP for Facility Demolition Buildings 444, 445, 450 (Appendix 5, Article 7).

- 2. Decommissioning of the Building 444 Cluster facilities in accordance with RFCA and applicable or relevant and appropriate requirements.***

RFCA and other relevant requirements were complied with throughout the project. Consultations with the LRA were conducted throughout the project.

**3. *Complete decontamination and decommissioning activities in a manner that is protective of site workers, the public and the environment.***

Decontamination and decommissioning activities were completed within regulatory requirements. Continuous air sampling for beryllium and rad was implemented during demolition and waste loading activities. All contaminated surfaces were power-washed and fixative applied, as necessary, prior to demolition. No releases to the environment occurred during the project. Storm drains were plugged during the 447/448 demolition and used to collect dust suppression water. This water was sampled (RIN #05Z0204), and contained no beryllium or radiological contamination. Due to a high concentration of nitrates, the water was sent for on-site treatment at building 891.

**4. *Demolish the 444 Cluster facility structures, utilities, and process waste lines to 3' below grade.***

The facility structures, concrete foundations, floor slabs, plenum pads, and associated asphalt were removed during demolition, with exception of the Building 447 and 448 slabs. The 447 and 448 slabs are free of radiological contamination, will be greater than 3 feet below final grade, and are to remain in place. The process waste lines under the Building 447 slab were grouted and left in place in accordance with contact record 10/13/04 (Appendix 3, Article 60). The OPWL below the basements of Buildings 444 and 447 and the floor slab of building 444 were removed. All utilities were removed to at least 4 feet below final grade.

## **V. Verification of Treatment Process**

This section is not applicable to this project.

## **VI. Radiological Analysis**

See Appendix 4 of this document containing the Reconnaissance Level Characterization Report (RLCR)/Pre-Demolition Survey Report (PDSR) for Buildings 444, 445, 447, 448 and filter plenums 451 and 450.

## **VII. Demolition Survey Results**

### **Radioactive Ambient Air Monitoring**

Environmental air monitoring during demolition was performed in accordance with the requirements of the Site Integrated Monitoring Plan (IMP). The existing Radioactive Ambient Air Monitoring Program (RAAMP) sampler network was used for ambient air monitoring during removal activities. This network includes perimeter samplers as well as site industrial area samplers. Project monitoring (PM-Rad) was carried out during demolition and removal activities using existing RAAMP samplers arrayed around the Site's Industrial Area. PM-Rad characterized the effects of potential short-term emissions from the project on ambient air quality and receptors closer to the projects than the Site

perimeter by quantifying gross alpha activity on filters. In accordance with the IMP, filters were collected weekly and screened for long-lived alpha contamination. The results were used to calculate the airborne concentration in units of activity per volume of air drawn through the filter ( $\text{pCi}/\text{m}^3$ ). These results were compared to two predefined Action Levels, corresponding to a 1.0 mrem dose rate and a 5.0 mrem dose rate at the sampling location, based on the assumption that the hypothetical receptor has been exposed for two weeks (one week of sample collection, one week for analysis).

Appendix 2, Figure 1 contains the project monitoring radiological data collected during the 444 Cluster demolition.

### **Beryllium Ambient Air Monitoring**

The ambient air around the Building 444 Demolition Project was monitored for beryllium that conceivably might have been resuspended from unknown residual contamination and from fixed contamination surfaces. The monitoring was performed at six locations (see Appendix 1, Article 5 for map of monitoring locations) around the demolition activities for all periods during which there was work taking place, as well as the week before and after the project period.

Appendix 2, Figure 2 contains the project monitoring ambient air beryllium concentration data collected during B444 Area demolition activities starting March 2005. The observed measurements to date are well below the lowest Action Level stated in the Site Integrated Monitoring Plan.

## **VIII. Waste Stream Disposition**

Building 444 Closure Project generated the following waste types including sanitary, hazardous, low-level, low-level mixed, and recycled materials. Listed below is the quantity and disposal site for these waste types and material:

### **1. Sanitary Disposal**

Disposal Site: Front Range Landfill, Erie, Colorado  
Waste Volume ( $\text{m}^3$ ): 24,052.9  
Waste Weight (tons): 229137.74  
Additional Information: This waste included building structural material that met the free-release criteria from Buildings 444, 445, 447, 448, 451, 450

### **2. Hazardous Disposal**

Disposal Site: On site RFCA units  
Waste Volume ( $\text{m}^3$ ): 1.06  
Waste Weight (tons): 1.10  
Additional Information: This waste consisted of mercury switches, nickel-cadmium batteries, and other minor quantities of hazardous waste.

**3. TSCA Waste Disposal**

Disposal Site: Onyx Special Services, Inc. Phoenix, AZ and Onyx Environmental Services, Port Arthur, TX.  
Waste Volume (m<sup>3</sup>): 1.37  
Waste Weight (tons): 1.17  
Additional Information: This waste consisted of large liquid filled capacitors and PCB contaminated oil.

**4. Asbestos Waste Disposal**

Disposal Site: Envirocare, UT or Nevada Test Site, NV  
Waste Volume (m<sup>3</sup>):  
Waste Weight (tons):  
Additional Information: See low-level and low-level mixed waste sections

**5. Low Level Waste Disposal**

Disposal Site: Nevada Test Site, NV  
Waste Volume (m<sup>3</sup>): 21,902  
Waste Weight (tons): 3,918  
Additional Information: This waste included machinery, building structures, piping, ductwork, and low-level friable and non-friable asbestos.

**6. Low Level Waste Disposal**

Disposal Site: Envirocare Of Utah, Inc., Salt Lake City, UT  
Waste Volume (m<sup>3</sup>): 12,207.93  
Waste Weight (tons): 10,179.79  
Additional Information: Included low-level oils drained from equipment.

**7. LLM Waste Disposal**

Disposal Site: Envirocare of Utah, Inc., Salt Lake City, UT  
Waste Volume (m<sup>3</sup>): 368.0  
Waste Weight (tons): 109.72  
Additional Information: This waste includes crushed light bulbs, lead piping, circuit boards, lead lined equipment, friable and non-friable asbestos 4 RCRA interim status tanks, and process waste piping, sumps and ancillary equipment

**IX. Deviations From the Decision Document**

The RSOP for Facility Disposition, Building 444, states that "below grade portions of the facility that do not meet unrestricted release criteria, may be left in place dependent on the levels of contamination present". This strategy was abandoned, and these structures were excavated and removed.

The Closure Summary Report for interim status RCRA Unit 40, as it pertains to the Building 444 Cluster, is included in Appendix 6. The report is included pursuant to the RFETS "Closure Plan for Interim Status Units at RFETS," Rev. 2/15/2000, The RFETS RFCA RSOP for Facility Component Removal, Size Reduction and Decontamination Activities, Notification Letter, April 15, 2002(02-DOE-00585). The Report contains a

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description of major closure activities and any deviations from those stated in the RSOP Notification Letter and other relevant information.

## **X. Descriptions of Site Condition at End of Decommissioning**

The 444 facility Cluster was demolished, and the basement structures for Buildings 444 and 447 were excavated and removed in their entirety. The utilities were disconnected and removed to greater than four feet below final grade.

The floor slabs of Buildings 447 and 448 will be greater than 3 feet below final grade, meet radiological free release criteria, and will be left in place. Contact Records 09/30/04 (Appendix 3, Article 10/13/04 (Appendix 3, Article 60) addressed the Original Process Waste Line (OPWL) and the three remaining pits associated with the 447 slab.

Additionally, there was one sample point on the Building 448 slab, and 14 sample points on the Building 447 slab which had levels of beryllium contamination  $> 0.2 \text{ ug}/100 \text{ cm}^2$ , prior to the application of permanent fixative. Please refer to the Pre Demolition Survey Reports (PDSRs), Appendix 4, Articles 1 and Article 2, Attachments C-1, for beryllium characterization data summary. In some cases, a second application of fixative was required in order to bring the beryllium contamination to levels below regulatory limits, and the sample data reflects this accordingly.

Following the application of fixative, metal plates were affixed to areas of the building 447 and 448 floor slabs where beryllium contamination was present. This action was taken in order to prevent the possibility of demolition activities causing damage to the fixative surface. The plates were removed after demolition was complete.

Following is a description of the utility disconnects:

- The electrical power was air gapped and isolated to the exterior of the cluster, in three separate locations which are annotated on the map in Appendix 1, Article 4. All under ground lines and conduit were removed to the points indicated on the map.
- Domestic water was isolated to Building 447 at a depth of four feet and the fire suppression was isolated at a depth of six feet.
- The Building 444 domestic water and fire suppression water was isolated at a depth of seven feet.
- Raw Water to the entire 400 area was isolated on July 17, 2004 at Building 124.
- Telephone wires were pulled and removed from the facility prior to demolition.
- Sanitary sewer lines were flushed, air gapped, and plugged.
- The supply and return steam lines were removed from the facility.

Locations of all disconnects are annotated on maps in Appendix 1, Articles 3 and 4.

## **XI. Demarcation of Excavation**

The excavation for the Building 444 basement was back filled in accordance with Contact Record 04/25/05 (Appendix 3, Article 73).

## **XII. Demarcation of Wastes Left in Place**

The floor slabs for Buildings 447 and 448 are a minimum of three feet below final grade in accordance with Contact Record 10/13/04 (Appendix 3, Article 60). See the map in Appendix 1, Article 5.

## **XIII. Final Disposition of Wastes**

See Section VII.

## **XIV. Next Steps for the Area**

Following demolition of the Building 444 Facility Cluster the site was turned over to Environmental Restoration, for grading and reseeded in accordance with the Final Land Configuration Design Basis as shown on the map in Appendix 1, Article 6.

## **Appendix 1 Maps**

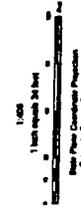
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| <b>Article 1</b> | <b>RFETS Area Plot Plan</b>                                |
| <b>Article 2</b> | <b>444 Cluster Plot Plan</b>                               |
| <b>Article 3</b> | <b>Map of Utility Disconnects</b>                          |
| <b>Article 4</b> | <b>Map of Electrical and Alarms Disconnects</b>            |
| <b>Article 5</b> | <b>Map of Foundation Removal</b>                           |
| <b>Article 6</b> | <b>Map of 400 Area Land Configuration<br/>Design Basis</b> |

Rocky Flats Environmental Technology Site

### 444 Location Map

#### Map Features

- Subdivisions Remaining
- DAD Facility
- Lakes
- Paved Roads
- Dirt Roads
- Railroad Removed
- Railroad Remaining
- Streams
- Fence Removed
- Fence Remaining

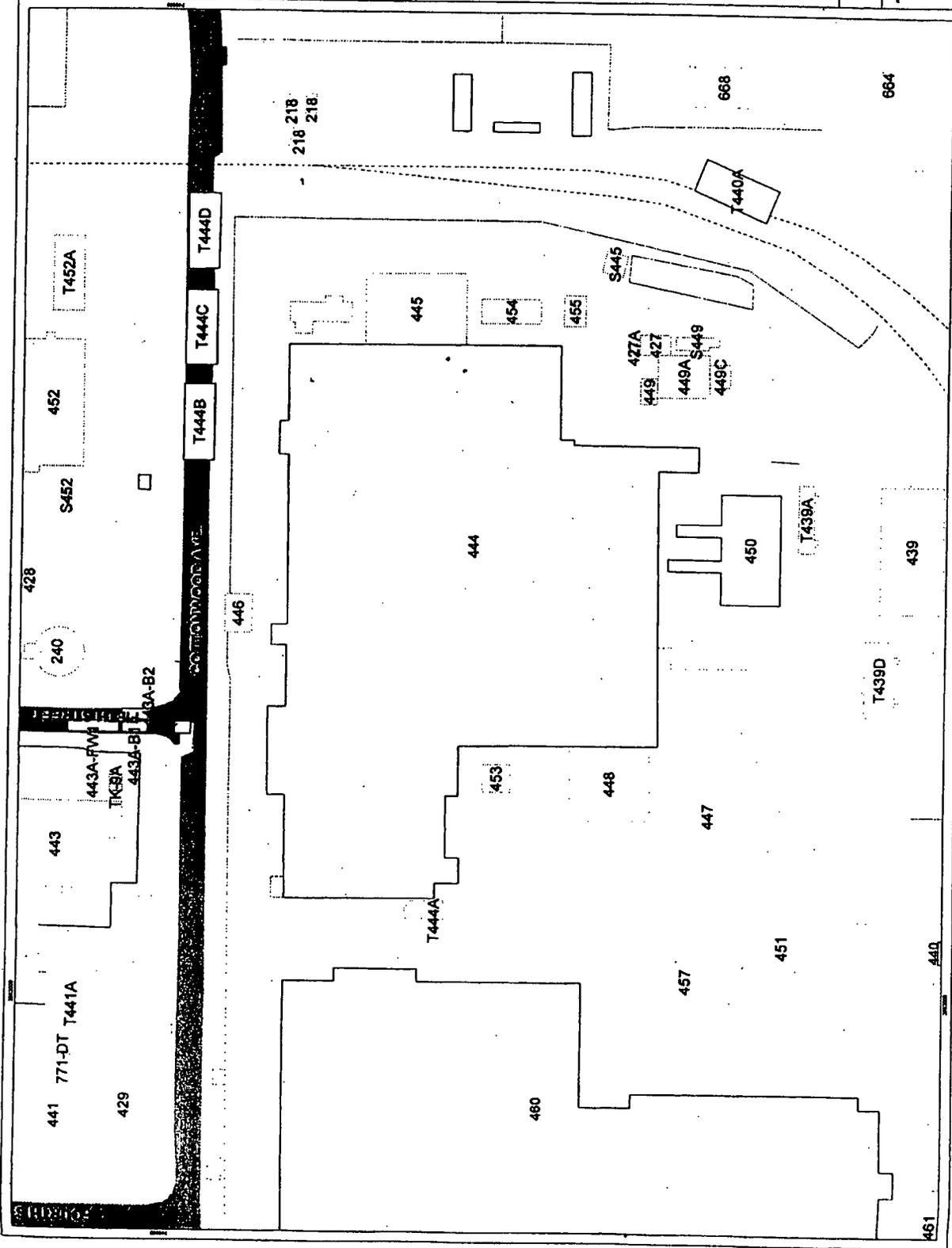


U.S. Department of Energy  
Rocky Flats Environmental Technology Site

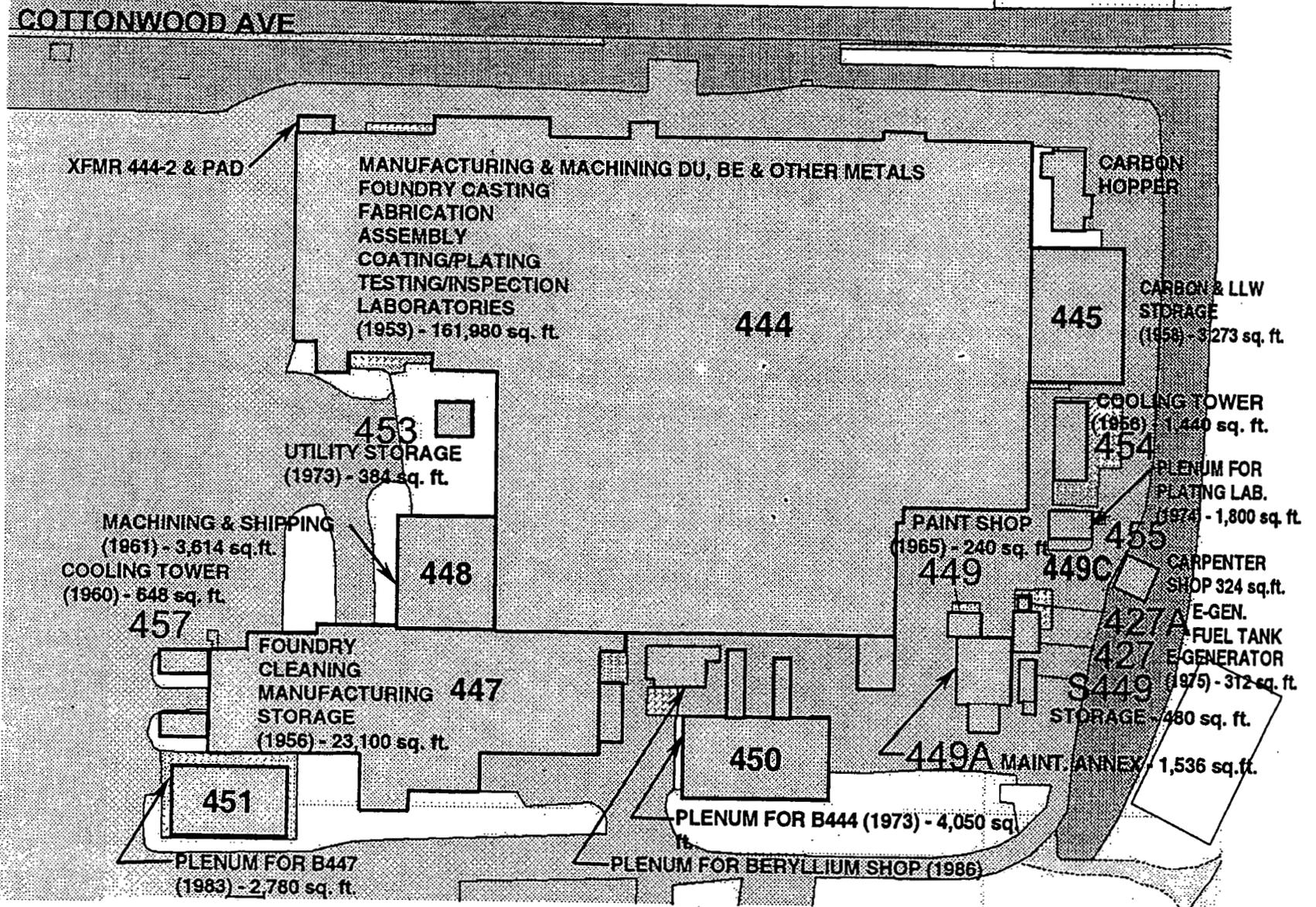
Prepared by  
**CH2M HILL**  
300 South Wacker Drive  
Chicago, Illinois 60606



DATE: 4/19/92



# Pre-DEMOLITION B444 COMPLEX (206,545 SQ. FT.)



### **Appendix 3**

## **Rocky Flats Environmental Technology Site Regulatory Contact Records**

- Article 1**            **Contact Record, February 20, 2002**  
**Building 444 initial equipment removal methodology /**  
**approach.**
- Article 2**            **Contact Record, March 6, 2002**  
**Building 444 Complex Scoping Meeting Minutes from**  
**Meeting held on March 5, 2002.**
- Article 3**            **Contact Record, June 10, 2002**  
**CDPHE notification of electrical disconnects in Building 444**  
**Room Groups 11A, 11B, 12 and 13.**
- Article 4**            **Contact Record, June 11, 2002**  
**CDPHE notification of electrical disconnects in Building 444**  
**Room Group 10.**
- Article 5**            **Contact Record, June 19, 2002**  
**CDPHE notification of electrical disconnects in Building 444**  
**Room Group 4.**
- Article 6**            **Contact Record, June 19, 2002**  
**CDPHE concurrence on Work Package T0110121 – Remove**  
**Cooling Tower Located Outside of Building At Southeast**  
**Corner.**
- Article 7**            **Contact Record, June 25, 2002**  
**CDPHE concurrence on Room Groups 11, 12 and 13**  
**Mechanical Disconnects – T0110119**
- Article 8**            **Contact Record, June 25, 2002**  
**CDPHE notification of electrical disconnects in Building 444**  
**room Group 3.**
- Article 9**            **Contact Record, June 26, 2002**  
**CDPHE notification of electrical disconnects in Building 444**  
**Room Groups 5, 6, 7.**
- Article 10**           **Contact Record, July 08, 2002**  
**CDPHE notification of electrical disconnects in Building 444**  
**Room Group 9.**
- Article 11**           **Contact Record, July 15, 2002**  
**CDPHE concurrence on Work Package T0110072 – Building**  
**444 Mechanically Disconnect Group 4**

- Article 12**            **Contact Record, July 17, 2002**  
**CDPHE concurrence on mechanical disconnects in Room**  
**Group 6, Building 444 – Work Package T0110210**
- Article 13**            **Contact Record, July 24, 2002**  
**CDPHE concurrence Work Package T0110211-B444**  
**Mechanically Disconnect Group 5 Equipment.**
- Article 14**            **Contact Record, July 29, 2002**  
**CDPHE concurrence on modifications to Work Package**  
**T0110119 to add two additional pieces of equipment.**
- Article 15**            **Contact Record, July 29, 2002**  
**CDPHE concurrence on Work Package T0110309 – Building**  
**444 Lift Miscellaneous Equipment and perform**  
**Contamination Surveys.**
- Article 16**            **Contact Record, August 8, 2002**  
**CDPHE concurrence on Work Package T0110143 – Building**  
**444/447 Mechanical Disconnect Machines in Group 10.**
- Article 17**            **Contact Record, August 8, 2002**  
**CDPHE notification of performance of electrical and**  
**telecommunication disconnects for Buildings 449 / 449A.**
- Article 18**            **Contact Record, September 4, 2002**  
**CDPHE concurrence on modification to Work Package**  
**T0110210 –Building 444 Mechanically Disconnect the**  
**Group 6 Equipment and Remove.**
- Article 19**            **Contact Record, September 16, 2002**  
**CDPHE concurrence on Work Package T0110547 –**  
**Mechanically Disconnect Three Small furnaces in Room 125**  
**and remove.**
- Article 20**            **Contact Record, September 17, 2002**  
**CDPHE concurrence on Work Package T0110212 – Building**  
**444 Mechanical Disconnect Machines, Group 7.**
- Article 21**            **Contact Record, September 19, 2002**  
**CDPHE concurrence on Work Package T0110243 – Building**  
**444 Mechanical Disconnect Machines, Group 2.**
- Article 22**            **Contact Record, September 19, 2002**  
**CDPHE concurrence on Work Package T0109777 – Building**  
**447 Decontaminate the Rad HCA's in Rooms 32 and 502 and**  
**Package Waste.**

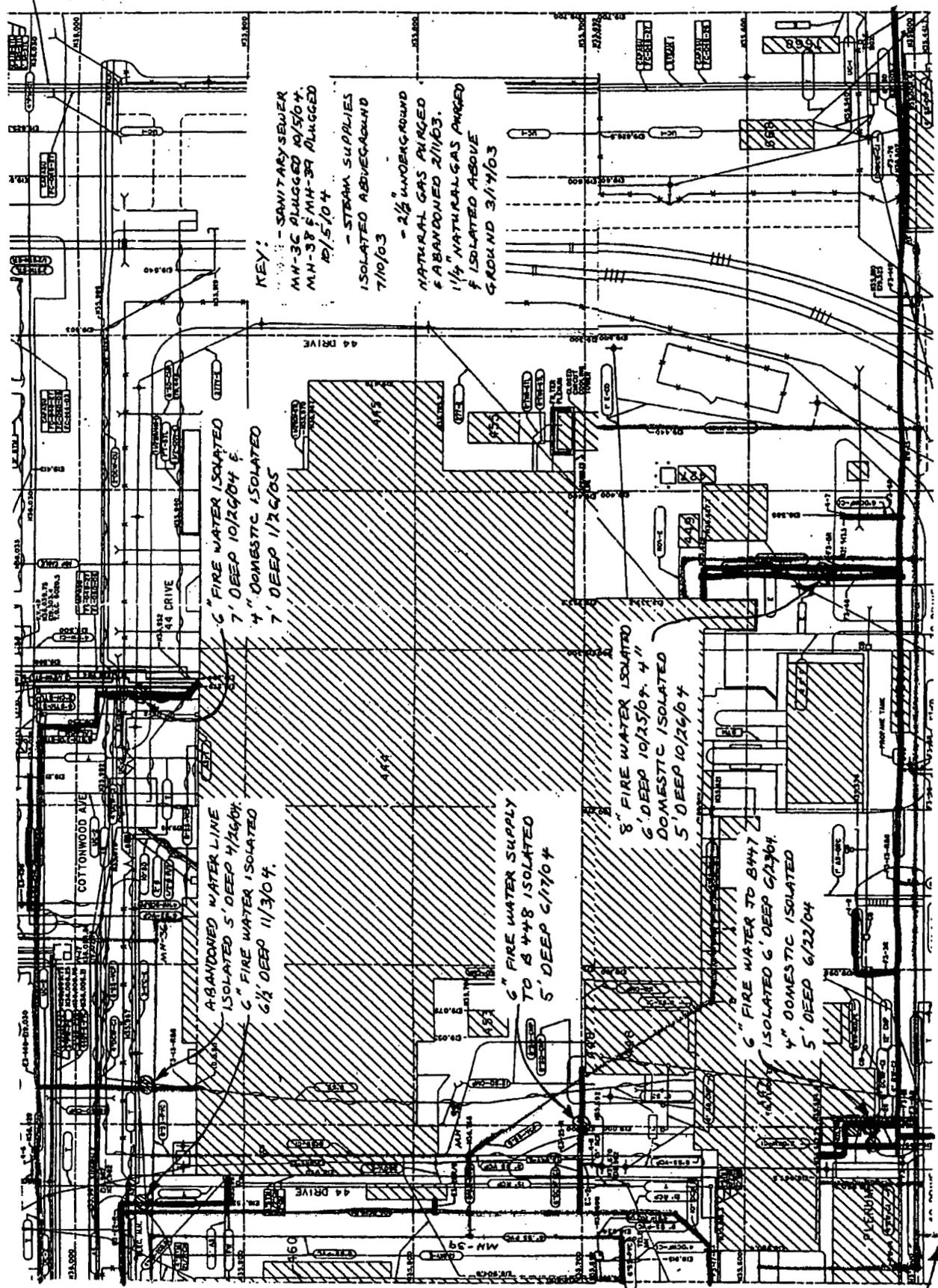
- Article 23**            **Contact Record, September 27, 2002**  
**CDPHE concurrence on Work Package T0110210 – Building 444 Mechanically Disconnect Group 6 Equipment and Remove from rooms.**
- Article 24**            **Contact Record, October 03, 2002**  
**CDPHE concurrence Work Package T0110192 – Building 444 Mechanically Disconnect Group 3 Equipment and Remove from rooms.**
- Article 25**            **Contact Record, October 17, 2002**  
**CDPHE concurrence on Work Package T0110249 – B444 Mechanically Disconnect the Group 9 Equipment and Remove from Rooms.**
- Article 26**            **Contact Record, October 23, 2002.**  
**CDPHE concurrence on Work Package T0108072-456 – Remove Banks of Be Contaminated Lockers from Locker Room B444 for Disposal.**
- Article 27**            **Contact Record, November 14, 2002**  
**CDPHE notification of electrical disconnects associated with the Building 444 process waste system.**
- Article 28**            **Contact Record, December 2, 2002**  
**CDPHE concurrence Of Removal of Miscellaneous Items in Building 444.**
- Article 29**            **Contact Record, December 2, 2002**  
**CDPHE contact regarding the Building 444 Complex Reconnaissance Level Characterization Reports (RLCR) Questions.**
- Article 30**            **Contact Record, December 23, 2002**  
**CDPHE concurrence on removal of Building 447, Room 404 Westinghouse Part Cleaning System and Monorail.**
- Article 31**            **Contact Record, December 26, 2002**  
**CDPHE concurrence on Dismantlement and Removal of Furnaces in Room 125 – T0110528.**
- Article 32**            **Contact Record, December 26, 2002**  
**CDPHE concurrence on Work Package T0110799-23 – Remove Temporary Wall in Front of Rollup Door #9 Outside of Room 109A and Door Jamb Between Room 104 and 109A.**
- Article 33**            **Contact Record, January 8, 2003**  
**CDPHE notification of electrical disconnects associated with Building 453 and Room 9A Tank Rinse.**

- Article 34**            **Contact Record, January 9, 2003**  
**CDPHE concurrence on Work Package T0110799-35 – D&D**  
**the Following B444 Outbuildings: B427, B427A, B449,**  
**B449A, S449 and Paint Shack East of Outbuildings.**
- Article 35**            **Contact Record, February 3, 2003**  
**CDPHE concurrence on performing Cooling Water**  
**Draining in accordance with Work Package T01100899-140.**
- Article 36**            **Contact Record, February 5, 2003**  
**CDPHE concurrence on performing Remove Stainless Steel**  
**Sheeting, Peg Board, & Plywood Protective Wall Covering**  
**form 444/447 in accordance with Work Package T0110799-**  
**127.**
- Article 37**            **Contact Record, February 18, 2003**  
**CDPHE concurrence on Work Package T0110799-155 – Fog**  
**Be Shop With Fixative (Building 444).**
- Article 38**            **Contact Record, February 18, 2003**  
**CDPHE Concurrence on Work Package T0110629 –**  
**Electrically and Mechanically Disconnect Two Hamilton**  
**Fume Hoods in Room 137 and Remove.**
- Article 39**            **Contact Record, February 26, 2003**  
**CDPHE notification of electrical disconnects associated with**  
**the Building 444 Steigerwald Welder and Inertia Welder.**
- Article 40**            **Contact Record, March 7, 2003**  
**CDPHE concurrence Of Removal Building 447, Room 407**  
**Anocut EDM Machine.**
- Article 41**            **Contact Record, April 1, 2003**  
**CDPHE concurrence Work Package T0111132 – Remove**  
**Beryllium Shop Ventilation System.**
- Article 42**            **Contact Record, April 3, 2003**  
**CDPHE concurrence on Work Package T0110799-139 –**  
**Remove Walls Requiring Electrical Disconnects.**
- Article 43**            **Contact Record, April 8, 2003**  
**CDPHE concurrence on Work Package T0110699 – Building**  
**444: Remove Process Waste Equipment from Building 444**  
**Hot Side.**
- Article 44**            **Contact Record, April 10, 2003**  
**CDPHE concurrence on Work Package T0110697 – Remove**  
**Process Waste Equipment from Building 447.**

- Article 45**            **Contact Record, August 7, 2003**  
**CDPHE concurrence on Modification to Closure Decision document (CDD) for Partial Closure of Unit 40.**
- Article 46**            **Contact Record, October 28, 2003**  
**CDPHE concurrence on Mechanical Disconnection and Dismantlement of Building 447 Room 403 Furnaces In Accordance with T0110799-217.**
- Article 47**            **Contact Record, November 3, 2003**  
**CDPHE concurrence on Removal of Building 444 Exterior Carbon Hopper System and Plenum 455.**
- Article 48**            **Contact Record, November 5, 2003**  
**CDPHE concurrence on Removal of Auxiliary Equipment Associated with the Room 405 ARC MELT Furnace and Room 450B RETECH ARC Furnace.**
- Article 49**            **Contact Record, December 4, 2003**  
**CDPHE Concurrence on Modification to Closure Decision Document (CDD) for Partial Closure of Unit 40.**
- Article 50**            **Contact Record, February 18, 2003**  
**CDPHE concurrence on Work Package T01112178 – Install Two Doors in Room 1001 (West Wall), Building 444.**
- Article 51**            **Contact Record, March 11, 2004**  
**Disposition of Embedded Unistrut, Electrical Conduit and Outlet Receptacles, and Junction Boxes, Building 444 Complex.**
- Article 52**            **Contact Record, July 26, 2004**  
**Disposition of Building 447 Attic / Former Exterior Roof, Building 444 Complex.**
- Article 53**            **Contact Record, August 6, 2004**  
**Building 447 Areas 1 & 2 Pre-Demolition Survey (PDS) Data Disposition.**
- Article 54**            **Contact Record, August 26, 2004**  
**Building 444 Exterior Transite Removal in Support of Building 448 Demolition.**
- Article 55**            **Contact Record, August 30, 2004**  
**Building 447 Attic Pre-Demolition Survey (PDS) Data Disposition.**
- Article 56**            **Contact Record, September 1, 2004**  
**Building 447, Room 503 Pre-Demolition Survey (PDS) Data Disposition.**

- Article 57**            **Contact Record, September 16, 2004**  
**Building 447 Facility External Transite Removal.**
- Article 58**            **Contact Record, September 22, 2004**  
**Building 444 Room 9A Roof Removal.**
- Article 59**            **Contact Record, September 30, 2004**  
**Building 447 Room 36 and Rooms 405A and 405B Pits.**
- Article 60**            **Contact Record, October 12, 2004**  
**Building 447 and 451 RSOP for Component Removal, Size**  
**Reduction and Decontamination Activities, Section 3.8.1.**
- Article 61**            **Contact Record, October 13, 2004.**  
**Building 447 Demolition Sequence and Clarification.**
- Article 62**            **Contact Record, October 27, 2004**  
**Building 444, Room 116 Transite Pane Removal.**
- Article 63**            **Contact Record, November 24, 2004**  
**Building 451 Pad Removal**
- Article 64**            **Contact Record, December 2, 2004.**  
**Building 444, Removal of Tanks T2 and T3.**
- Article 65**            **Contact Record, December 6, 2004**  
**Building 444, Removal of Secondary Containment for RCRA**  
**40.35 and 40.36.**
- Article 66**            **Contact Record, December 6, 2004.**  
**Building 444, Removal of Secondary Containment for RCRA**  
**Units 40.04, 40.05**
- Article 67**            **Contact Record, December 15, 2004**  
**Removal of Transite panels from B444 NW Annex.**
- Article 68**            **Contact Record, January 3, 2005**  
**Completion of the B447 Hotspots Remediation**
- Article 69**            **Contact Record, January 12, 2005**  
**Regulatory Concurrence for Demolition of B444 Annex.**
- Article 70**            **Contact Record, January 26, 2005**  
**Removal of Exterior Transite Windows from Ventilation**  
**Isolation Areas (VIAs) 1 and 3 of Building 444.**
- Article 71**            **Contact Record, February 2, 2005**  
**Removal of exterior Transite Windows from Ventilation**  
**Isolation Areas (VIA) 2 of Building 444.**

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- Article 72**            **Contact Record, February 2, 2005**  
**Removal of Exterior Transite Window Panels from Rooms**  
**106, 109A, 109B, 113 & 118 of Building 444.**
- Article 73**            **Contact Record, February 7, 2005**  
**Removal of Exterior Transite Window Panels from Rooms**  
**101 & 107 of Building 444.**
- Article 74**            **Contact Record, March 15, 2005**  
**Building 450 Fan Room**
- Article 75**            **Contact Record, April 25, 2005**  
**B444 Basement Excavated Area Backfill**



KEY:  
 - SANITARY SEWER  
 MN-36 PLUGGED 10/5/04  
 MN-38 & MN-39 PLUGGED  
 10/5/04  
 - STREAM SUPPLIES  
 ISOLATED ABOVEGROUND  
 7/10/03  
 - 2 1/2" WOODBRIDGE  
 NATURAL GAS PIPING  
 & ABANDONED 2/10/03  
 1 1/4" NATURAL GAS PIPING  
 ISOLATED ABOVE  
 GROUND 3/14/03

6" FIRE WATER ISOLATED  
 7' DEEP 10/26/04 &  
 4" DOMESTIC ISOLATED  
 7' DEEP 1/26/05

ABANDONED WATER LINE  
 ISOLATED 5' DEEP 4/16/04  
 6" FIRE WATER ISOLATED  
 6 1/2' DEEP 11/3/04

6" FIRE WATER SUPPLY  
 TO 8 448 ISOLATED  
 5' DEEP 6/17/04

8" FIRE WATER ISOLATED  
 6' DEEP 10/25/04, 4"  
 DOMESTIC ISOLATED  
 5' DEEP 10/26/04

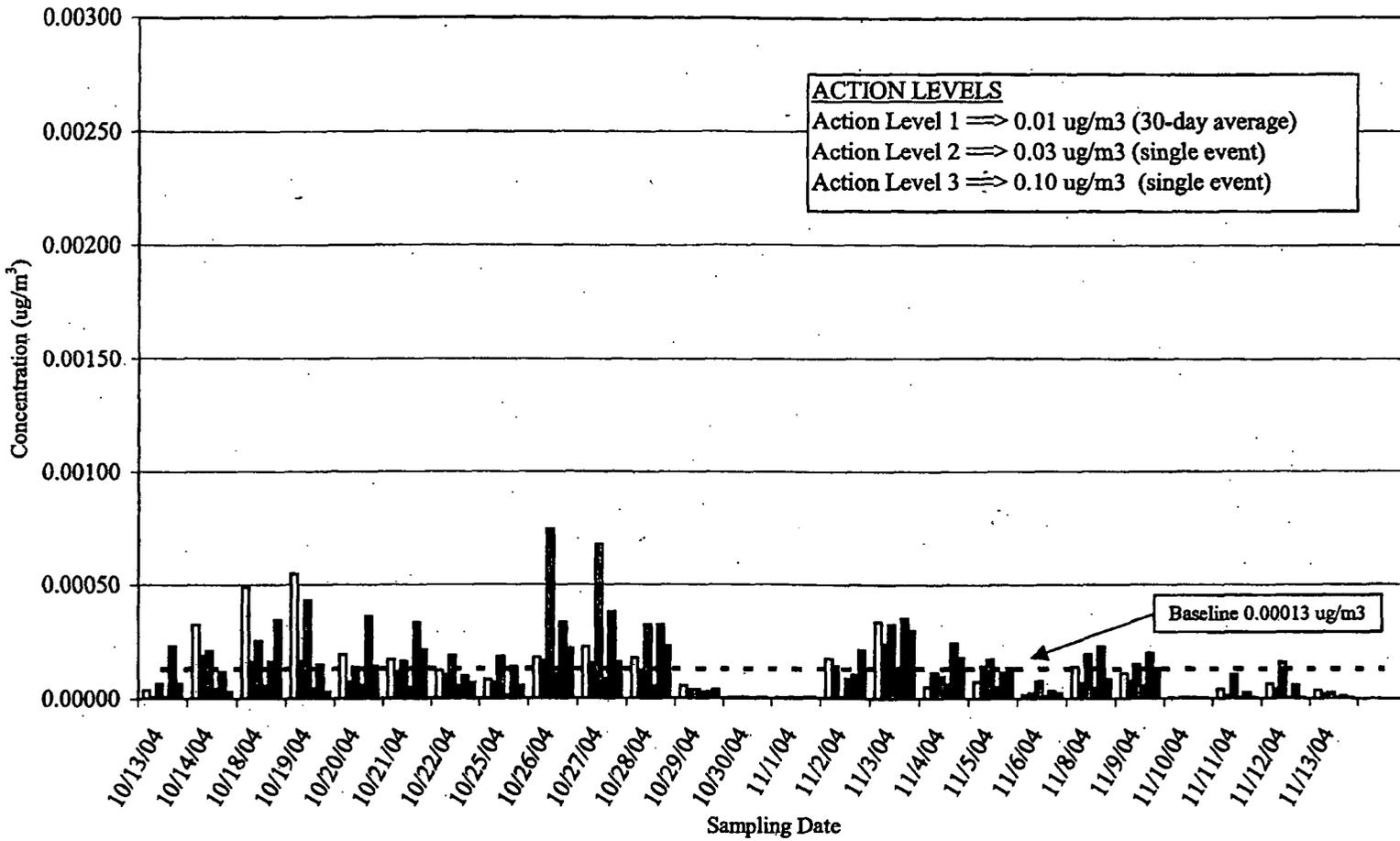
6" FIRE WATER TO 8447  
 ISOLATED 6' DEEP 6/24/04  
 4" DOMESTIC ISOLATED  
 5' DEEP 6/22/04

RAW WATER SUPPLY TO  
 ALL 400 AREA FACILITIES  
 ISOLATED 7/15/04 AT  
 8124



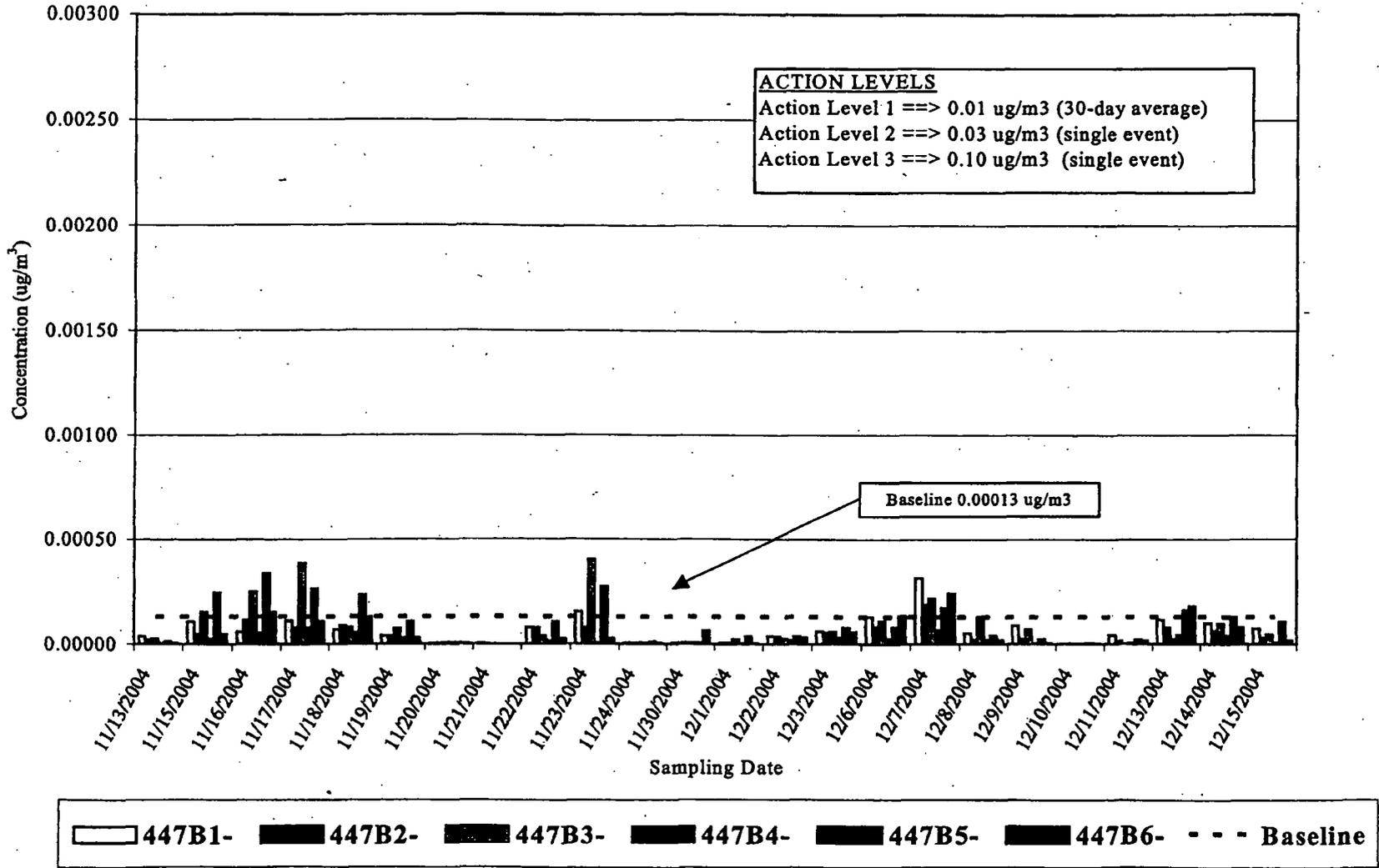


### B444 Area Ambient Beryllium Monitoring October 13, 2004 - November 13, 2004



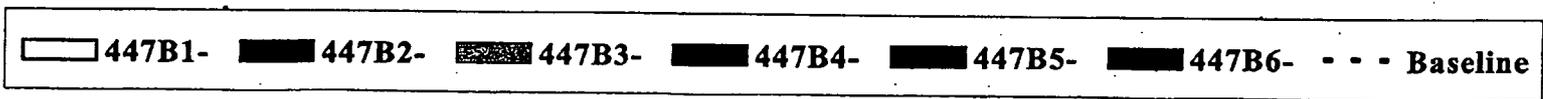
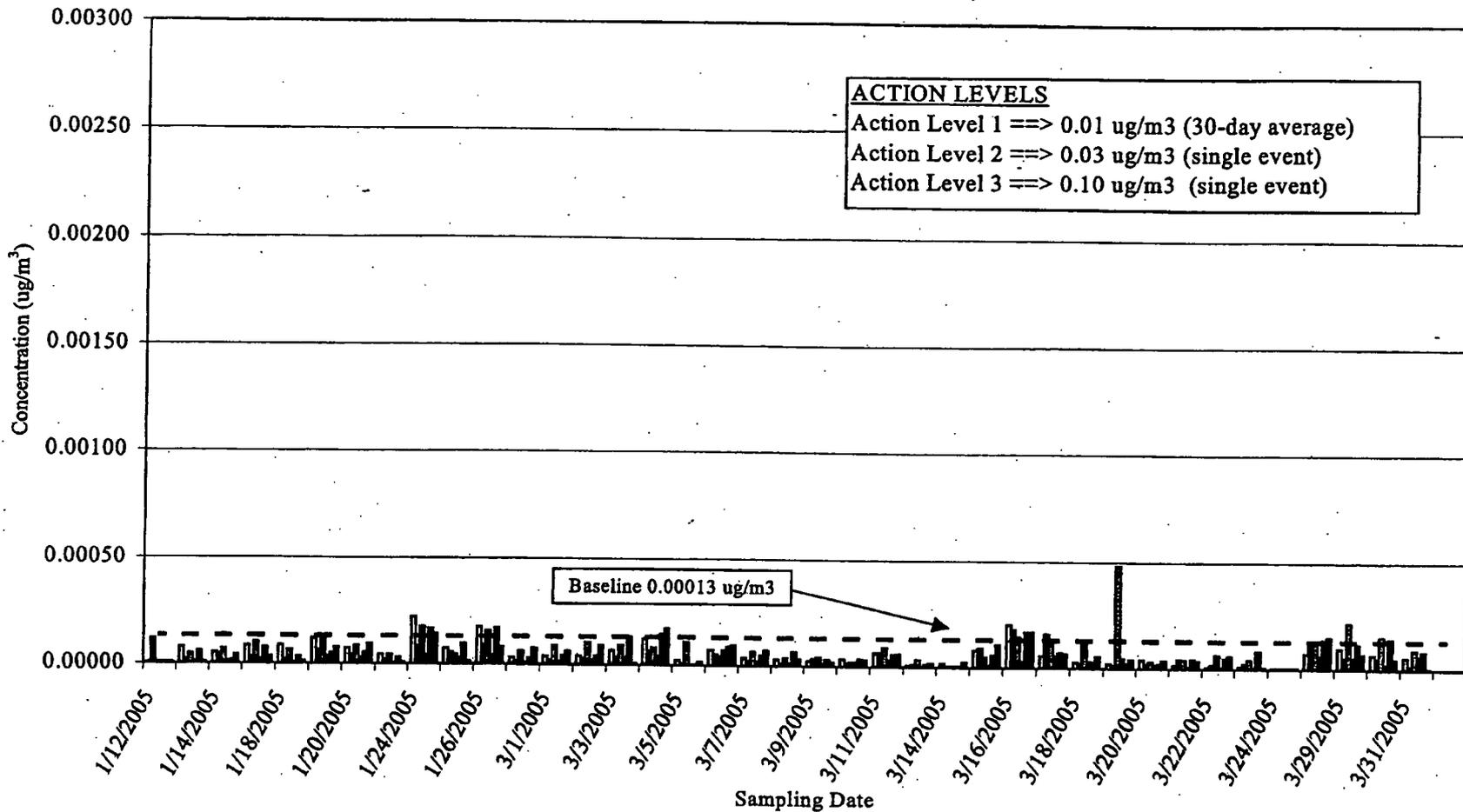
Legend: 447B1- (white bar), 447B2- (black bar), 447B3- (dark grey bar), 447B4- (medium grey bar), 447B5- (light grey bar), 447B6- (white bar), - - - Baseline

### B444 Area Ambient Beryllium Monitoring November 13, 2004 - December 15, 2004



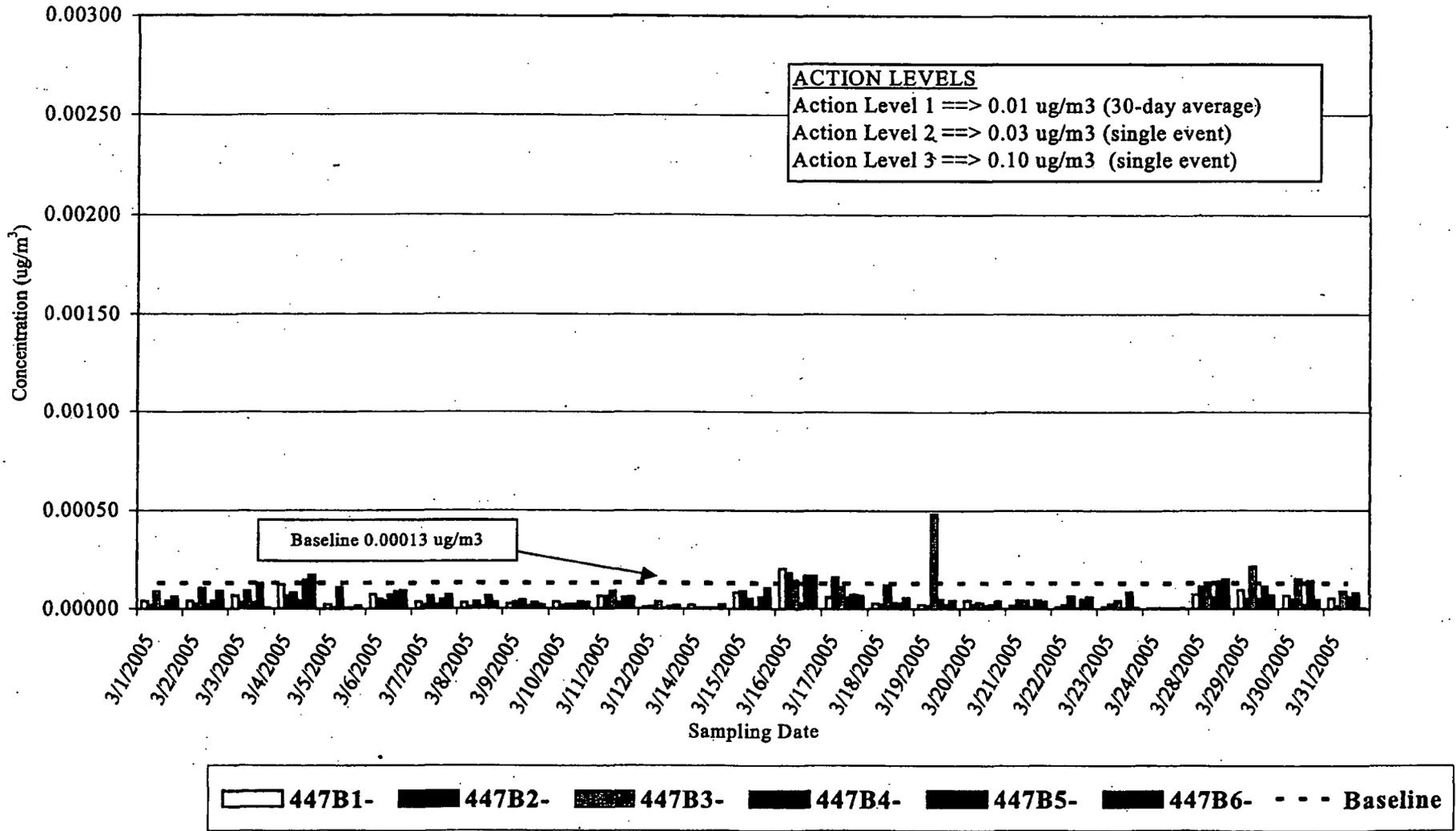
# B444 Area Ambient Beryllium Monitoring

January 12, 2005 - March 31, 2005



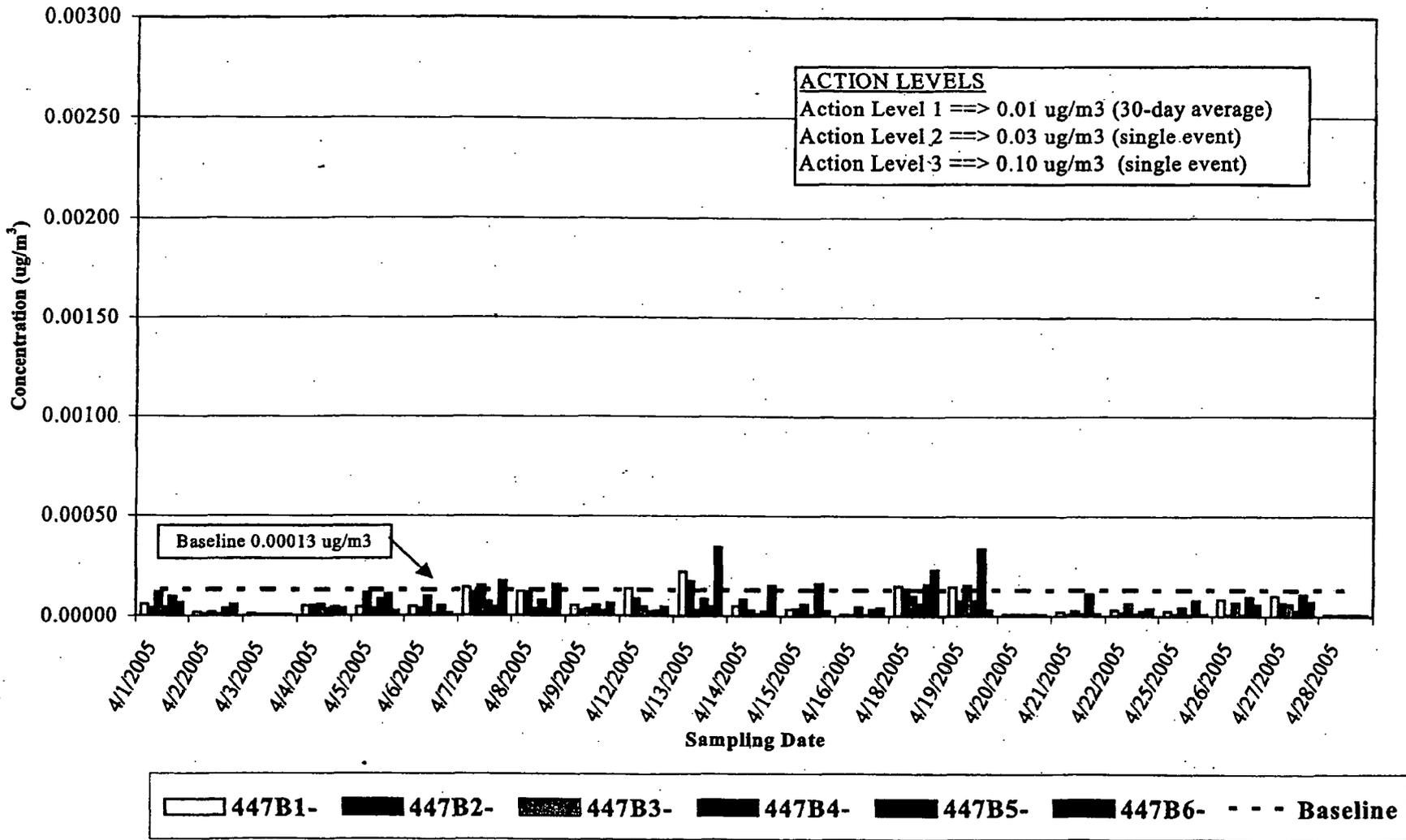
# B444 Area Ambient Beryllium Monitoring

March 1, 2005 - March 31, 2005



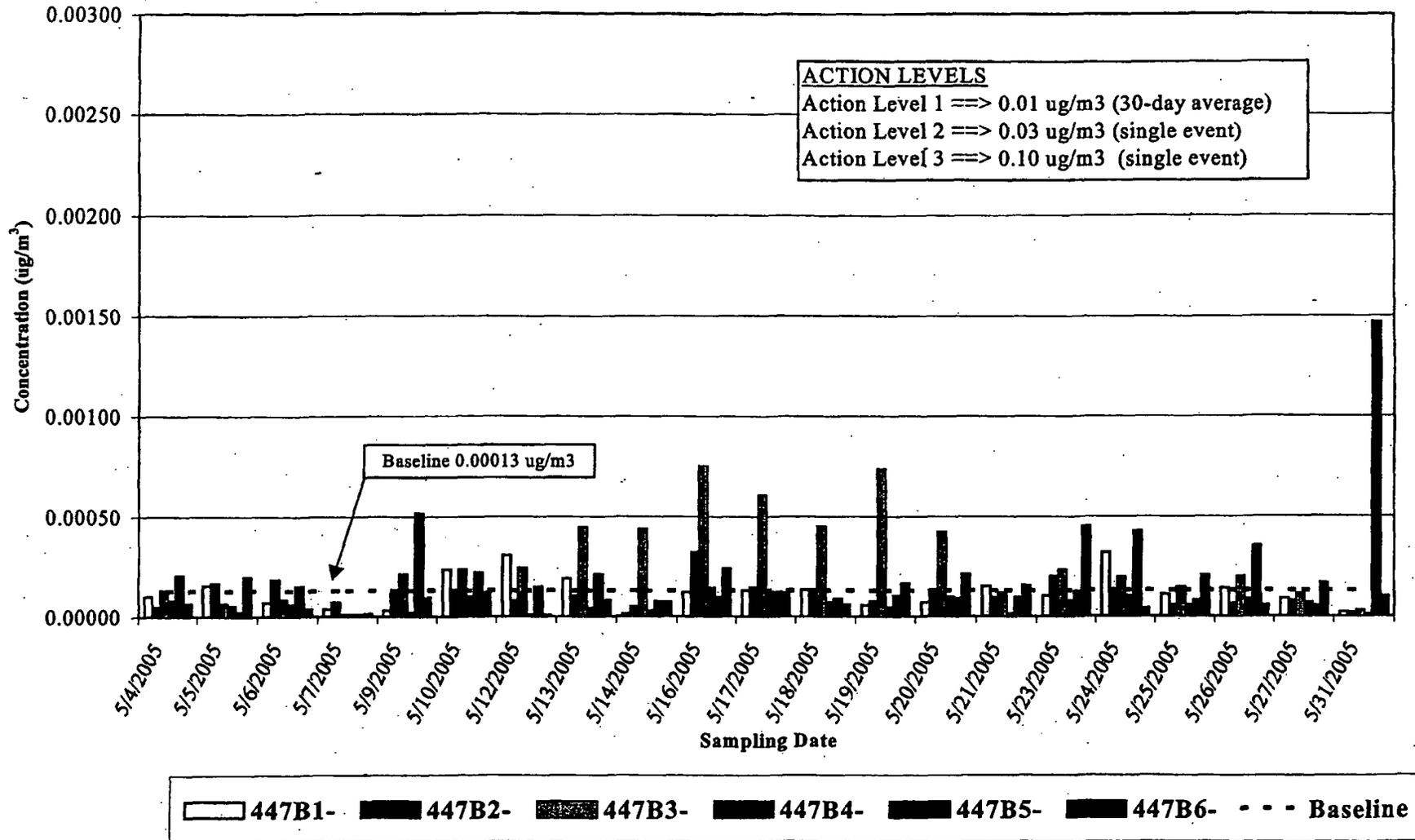
# B444 Area Ambient Beryllium Monitoring

April 1, 2005 - April 28, 2005



# B444 Area Ambient Beryllium Monitoring

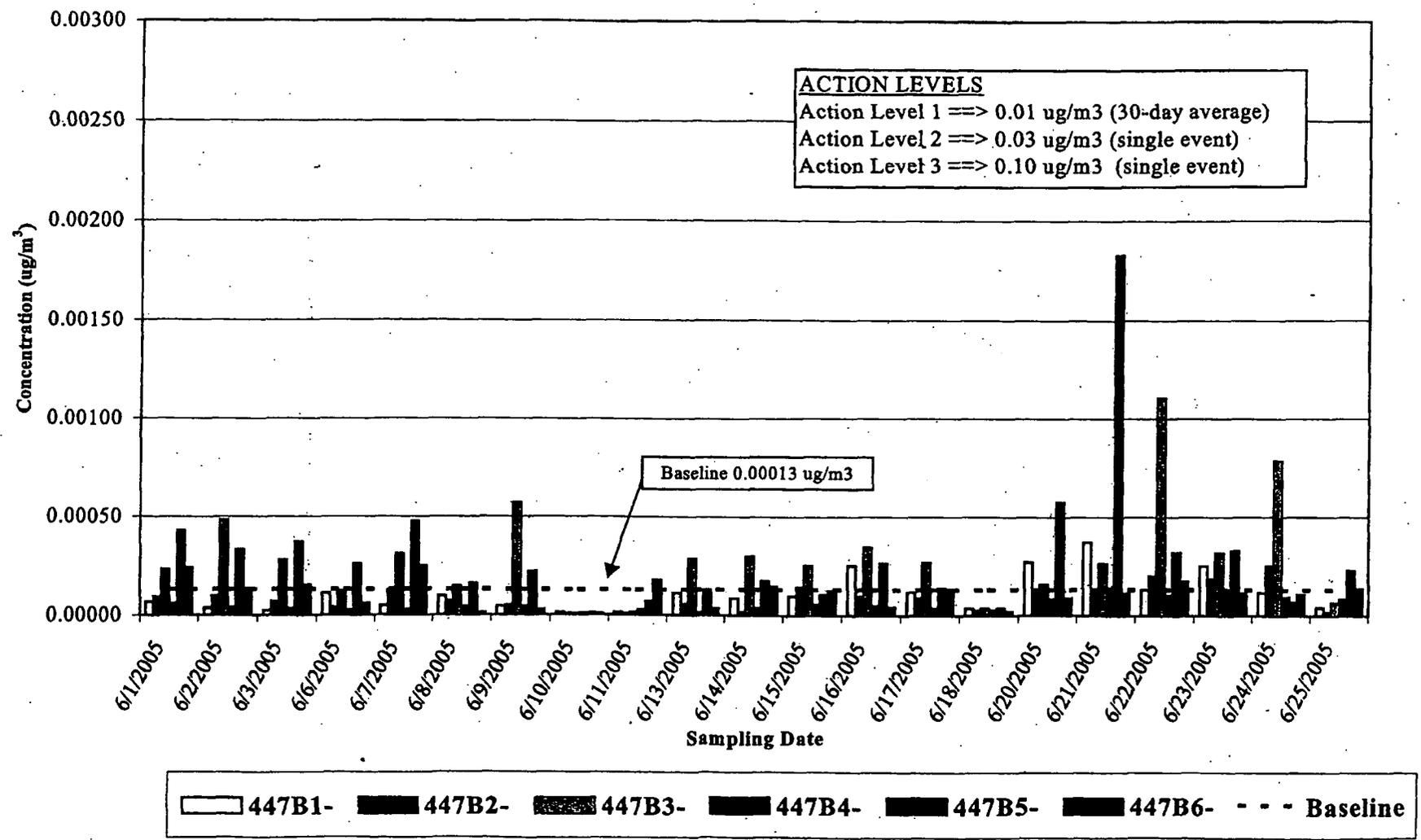
May 1, 2005 - May 31, 2005



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# B444 Area Ambient Beryllium Monitoring

June 1, 2005 - June 25, 2005



**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** February 20, 2002 / 1310 to 1400

**Site Contact(s):** C. J. Freiboth (KH)    S. Nesta (KH)    G. Konwinski (CSS)  
**Phone:** (303) 966-2823    (303) 966-6386    (303) 966-2729

**Regulatory Contact:** James Hindman  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** Building 444 initial equipment removal methodology / approach (CJF-001)

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**Discussion**

Building 444 Room 101 equipment removal was discussed in detail. Documents available for review included the DRAFT Work Package, pictures, a map of the room showing equipment by number and a cross-walk matrix describing the numbered equipment tied to the map, and a video tape of the room.

A total of 93 items (pieces of machinery/equipment) were discussed. These were broken down into six categories as follows:

**Category 1 (12 pieces)** – Equipment where there is no mechanical disconnecting that needs to be performed. This equipment is just bolted to the floor. In addition to the 12 pieces of equipment, there are miscellaneous tables and shelves that are bolted to the floor that need to be removed.

**Category 2 (15 pieces)** – Air hose reels which all have shutoff valves. The work package addresses either capping or plugging the air supply line to each once the hose reels have been disconnected. There is a possibility that the main air supply line will be Locked and Tagged out (LO/TO), and then the entire feeder header air-gapped after the LO/TO. If this is the case, it was agreed that the air supply line to each reel just needs to have the valve closed and not plugged/capped.

**Category 3 (32 pieces)** – These are pieces of equipment where there are one or more utilities supplied to the equipment. These utilities include air, cooling water (closed loop), chuck vacuum, health physics vacuum (closed loop), cutting cooling loop (empty but used to contain trim-sol). When these are disconnected from the machines, they will all be

Contact Record 2/20/02

capped or plugged. The package allows for the craft to disconnect these at the nearest junction, flange, or isolation valve.

**Category 4 (13 pieces)** – These are pieces of equipment that are not part of the current scope of work. The work package does not address these pieces of equipment. Any removal of this equipment will require State notification/concurrence. This includes the closed loop chuck vacuum system, where the State noted that more information would be required if and when removal is ready to proceed.

**Category 5 (16 pieces)** – These are equipment workstation monitors, and are not shown on the map, as they are actually a subset of the equipment shown on the map.

**Category 6 (5 pieces)** – These are pieces of equipment with building ventilation connections (equipment with vents). They are not specifically identified as beryllium (Be) machines, however there is the potential they were used for some parts. The pieces of equipment also contain 1 or more utilities that will be handled like Category 3 above. The vent lines will be removed to the riser out of the floor. All removed piping will be taped, and the open end of the system that remains will be covered with a filter. The system will still be active while the work is being performed.

Once the presentation of the various types of equipment was completed, a video tape of the room being discussed was watched.

The meeting ended with the State acknowledging that they had received notification on the removal of the equipment (and tables and shelves) in Categories 1 and 5. The remaining pieces of equipment (Categories 2, 3, and 6) cannot be removed until the State receives the work package describing the actual work for these pieces of equipment, they review it, and then concur with the removal. The Category 4 pieces of equipment are currently not planned on being removed.

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**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

R. DiSalvo, RFFO  
S. MacLeod, RFFO  
J. Legare, RFFO  
N. Newell, CDPHE  
S. Gunderson, CDPHE  
T. Rehder, USEPA  
P. Arnold, K-H 371  
J. Berardini, K-H MS  
C. Deck, K-H  
C. Gilbreath, K-H 771  
T. Hopkins, K-H 776

Contact Record 2/20/02

**Additional Distribution:**

G. Scott, K-H  
D. Shelton, K-H  
K. North, K-H ESS  
A. Rosenman, K-H ESS  
J. Mead, K-H ESS  
J. Dischinger, RFCSS  
D. Johnson, K-H ESS  
S. Nesta, K-H RISS  
K. Shuler, RFCSS  
G. R. Konwinski, RFCSS  
S. Tower, RFFO  
J. Hindman, CDPHE  
F. Gibbs, K-H  
C. Freiboth, K-H  
L. Taylor, RFCSS

**Article 2**  
**Contact Record, March 6, 2002**

**Building 444 Complex Scoping Meeting Minutes from Meeting on  
March 5, 2002.**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** March 5, 2002 / 1000 to 1115 (CJF-002)

**Site Contact(s):** C. J. Freiboth (KH) D. Parsons  
**Phone:** (303) 966-2823 (303) 966-6458

**Regulatory Contact:** James Hindman  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** Building 444 Complex Scoping Meeting Minutes from Meeting held on March 5, 2002 from 1000 to 1115 in the Trailer 452F East Conference Room

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**Meeting Attendance**

C. J. Freiboth, KH PM	K. W. Shuler, RFCSS PM	D. L. Bryant, Trutech
M. P. Francis, JEG	Jay Britten, Onsite Omega	G. Kelly, IT
C. Bean, KH	D. Kruchek, CDPHE	J. Hindman, CDPHE
P. Aguilar, SSOC	D. Parsons, CGI	S. Tower, DOE
S. Nesta, KH	D. Risoli, Onsite Omega	

**Discussion**

1. Building 444 Complex includes: Buildings 427, 427A, 444, S444, 445, 447, 448, 449, 449A, 449C, S449, 450, 451, 453, 454, 455, 457. Kaiser-Hill projected that Buildings 444, 447, 448, 450, 451, and 455 will be Type 2, with the remainder being Type 1. CDPHE projected that Building 444 and 447 might be a Type 3. A map showing the locations of these facilities was distributed.
2. Characterization plans were presented. Projected start time is March 6, 2002 with an estimated completion date of June 1, 2002.
  - Two Historical Site Assessments (HSAs), both Revision 0 and Dated January 2002 were distributed: (1) Those that are anticipated to be Type 1 and (2) those anticipated to be Type 2. Included for distribution were the interview checklists for these HSAs.
  - The following documents were distributed for review:
    - The DRAFT "Anticipated Type 1 Reconnaissance Level Characterization Chemical Characterization Plan, Rev. 0"

- The DRAFT "Anticipated Type 2 Reconnaissance Level Characterization Chemical Characterization Plan, Rev. 0"
- The DRAFT "B444 Type I Facilities Reconnaissance Level Characterization Radiological Characterization Plan, Rev. 0"
- The DRAFT "B444 Type II Facilities Reconnaissance Level Characterization Radiological Characterization Plan, Rev. 0"

Comments received from the DOE, the State, and others included:

- Reconnaissance Level Characterization Reports should go into more detail regarding physical hazards and D&D hazards.
  - RLCR should also discuss in detail as to beryllium levels and related Typing conclusions.
  - B445 Be levels and initial anticipated typing as a Type 1 was raised. Subsequent research has determined that B445 should be initially classified as an anticipated Type 2 facility for the RLC.
  - 427A is a Type 1 tank, and will be characterized at a later date, including how it will be dispositioned.
3. Results of the recent Special Nuclear Material (SNM) holdup scans conducted in Buildings 444/447 were presented. Based on the results, the State agreed that no additional SNM measurements need be planned in the facilities for typing purposes.
  4. A copy of the current baseline and acceleration schedule showing Building 444 complex activities was presented showing Characterization, Planning and Engineering, Dismantlement, Decontamination, Final Survey, and Demolition dates for the Building 444 Complex facilities.
  5. It was agreed that a follow-up meeting be held the first part of May 2002 to provide the State and DOE progress information.

**Contact Record Prepared By: C. J. Freiboth**

**Required Distribution:**

R. DiSalvo, RFFO  
 S. MacLeod, RFFO  
 J. Legare, RFFO  
 N. Newell, CDPHE  
 S. Gunderson, CDPHE  
 T. Rehder, USEPA  
 P. Arnold, K-H 371  
 J. Berardini, K-H MS  
 C. Deck, K-H  
 C. Gilbreath, K-H 771  
 T. Hopkins, K-H 776

G. Scott, K-H  
 D. Shelton, K-H  
 K. North, K-H ESS  
 A. Rosenman, K-H ESS  
 J. Mead, K-H ESS  
 J. Dischinger, RFCSS  
 D. Johnson, K-H ESS  
 S. Nesta, K-H RISS

**Additional Distribution:**

K. Shuler, RFCSS  
 G. R. Konwinski, RFCSS  
 S. Tower, RFFO  
 J. Hindman, CDPHE  
 F. Gibbs, K-H  
 C. Freiboth, K-H  
 L. Taylor, RFCSS  
 K. Oman, RFCSS  
 D. Parsons

**Article 3**  
**Contact Record, June 10, 2002**

**CDPHE notification of electrical disconnects in Building 444 Room  
Groups 11A, 11B, 12 and 13**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 06/10/02

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-007)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) notification of electrical disconnects in Building 444 Room Groups 11A, 11B, 12, and 13.

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

On June 10, 2002, at 0855, the State (Hindman) was notified of the intent to perform electrical disconnects in Building 444 Room Groups 11A, 11B, 12 and 13.

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**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
J. Berardini, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO  
K. Lavorato, K-H

R. Leitner, K-H  
S. MacLeod, RFFO  
J. Mead, K-H  
S. Nesta, K-H  
N. Newell, CDPHE  
K. North, K-H  
T. Rehder, USEPA  
A. Rosenman, K-H  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruchek, CDPHE  
S. Tower, DOE

**Article 4**  
**Contact Record, June 11, 2002**

**CDPHE notification of electrical disconnects in Building 444 room  
Group 10.**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 06/11/02

**Site Contact(s):** C. J. Freiboth (KH) -- (CJF-011)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) notification of electrical disconnects in Building 444 Room Group 10

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

On June 10, 2002, at 0835, the State (Hindman) was notified of the intent to perform electrical disconnects in Building 444 Room Group 10. All waste generated will be handled by qualified waste generators and will be disposed of as beryllium waste.

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**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
J. Berardini, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO  
K. Lavorato, K-H

R. Leitner, K-H  
S. MacLeod, RFFO  
J. Mead, K-H  
S. Nesta, K-H  
N. Newell, CDPHE  
K. North, K-H  
T. Rehder, USEPA  
A. Rosenman, K-H  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruchek, CDPHE  
S. Tower, DOE

43

**Article 5**  
**Contact Record, June 19, 2002**

**CDPHE notification of electrical disconnects in Building 444 Room  
Group 4.**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 06/19/02

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-010)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) notification of electrical disconnects in Building 444 Room Group 4

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**Meeting Attendance**

C. J. Freiboth, KH PM          J. Hindman, CDPHE

**Discussion**

On June 19, 2002, at 1058, the State (Hindman) was notified of the intent to perform electrical disconnects in Building 444 Room Group 4.

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**Contact Record Prepared By:** C. J. Freiboth

---

**Required Distribution:**

P. Arnold, K-H	R. Leitner, K-H
J. Berardini, K-H	S. MacLeod, RFFO
C. Deck, K-H	J. Mead, K-H
R. DiSalvo, RFFO	S. Nesta, K-H
C. Gilbreath, K-H	N. Newell, CDPHE
S. Gunderson, CDPHE	K. North, K-H
T. Hopkins, K-H	T. Rehder, USEPA
L. Kilpatrick, K-H	A. Rosenman, K-H
J. Legare, RFFO	D. Shelton, K-H
K. Lavorato, K-H	

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruchek, CDPHE  
S. Tower, DOE

**Article 6**  
**Contact Record, June 19, 2002**

**CDPHE concurrence on Work Package T0110121 – Remove Cooling  
Tower Located Outside of Building at Southeast Corner**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 06/05/02 – and subsequent conversations associated with Work Package T0110121 – Building Remove Cooling Tower Located Outside of Building at Southeast Corner as identified in the text.

Subsequent contacts: 06/14/02 – 1025  
06/17/02 – 1000  
06/18/02 – 1315  
06/19/02 – 1105

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-018)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110121 – Building Remove Cooling Tower Located Outside of Building at Southeast Corner

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

On June 5, 2002, at 1500, a walk-down of Building 447 Cooling Tower (No. 1 of 3) and the wooden shed (Southeast Corner of the building) was conducted with the State (Hindman, Kruchek) and DOE (Tower). The purpose of the walk-down to propose the removal of these items (Cooling Tower and Shed), using the Property Release Evaluation (PRE) process. The State (Hindman) agreed that this was possible, and requested some additional information. The requested information for each item was as follows:

**Shed**

- (a) Historical information when it was built, what it was used for, and who used it
- (b) Radiological survey information (could be the PRE)
- (c) Beryllium survey data showing no beryllium contamination
- (d) Identification of any chemical contamination / concerns
- (e) Copy of work control document for the actual removal for review

Contact Record 06/19/02

Cooling Tower / Bollards

- (a) Historical information when it was built (installed), what it was used for, and who used it
- (b) Radiological survey information (could be the PRE)
- (c) Beryllium survey data showing no beryllium contamination – this includes the actual structure itself
- (d) Radiation / Be contamination discussion on any sludge that may have built up in the cooling tower
- (e) Identification of any chemical contamination / concerns
- (f) Copy of work control document for the actual removal for review
- (g) Supporting characterization of the pad under the cooling tower

**On June 14, 2002, it was determined that the shed was not going to be pursued at this point in time. The focus would be on the Cooling Tower removal.**

On June 14, 2002, at 1025, a copy of the Work Package (T0110121) was dropped off to the State (Hindman) in T124A for review. This included information related to the history of the Cooling Tower.

On June 17, 2002, at 1000, the State (Hindman) had the following comments / questions. Resolutions to these are also provided:

- (1) Question: What will happen with the bollards and pad?  
Resolution: The pad will remain and the bollards will be cut off at grade.
- (2) Question: The work package states that radiation surveys will be conducted. Will any be conducted?  
Resolution: No radiation surveys will be conducted. The site infrastructure for performing radiation evaluations will be followed.
- (3) Question: Data included in the work package shows one beryllium hit (<0.2). Are there any requirements to conduct additional sampling?  
Resolution: The tower will be handled in accordance with procedure MAN-127-PDSP, the PRE-Demolition Survey Plan for D&D Facilities
- (4) Question: Will the cooling tower be salvaged?  
Resolution: No. The reference by Kaiser-Hill Construction was only part of their estimate. It will be disposed of at the Erie Landfill as discussed in the PRE.
- (5) Question: What are the RCRA concerns associated with the tower?  
Resolution: Electrical components only.

At this point, concurrence was given to remove the bollards only associated with the cooling tower.

On June 18, 2002, at 1315, the State (Hindman) asked where the 5 beryllium samples were taken. This will be provided.

On June 19, 2002, at 1105, the State (Hindman) was given the sample locations for the beryllium samples. Based on the information provided, the state (Hindman) concurred with the removal of the Cooling Tower in accordance with Work Package TOT011012.

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**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H

J. Berardini, K-H

C. Deck, K-H

R. DiSalvo, RFFO

C. Gilbreath, K-H

S. Gunderson, CDPHE

T. Hopkins, K-H

L. Kilpatrick, K-H

J. Legare, RFFO

K. Lavorato, K-H

R. Leitner, K-H

S. MacLeod, RFFO

J. Mead, K-H

S. Nesta, K-H

N. Newell, CDPHE

K. North, K-H

T. Rehder, USEPA

A. Rosenman, K-H

D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H

J. Hindman, CDPHE

S. Tower, DOE

**Article 7**  
**Contact Record, June 25, 2002**

**CDPHE concurrence on Room Groups 11, 12, 13 Mechanical  
Disconnects – T0110119**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 06/17/02  
06/18/02  
06/25/02

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-006)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Room Groups 11, 12, and 13 Mechanical Disconnects - T0110119

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

- (1) On June 17, 2002, at 1020, a copy of T0110119 - Building 444 Mechanically Disconnect Groups 11, 12, and 13 Equipment and Remove from Rooms was give to the State (Hindman). In addition, the State (Hindman) was notified of the intent to remove loose property.
- (2) On June 18, 2002, at 1107, update page 11 and attachment were faxed to the State (Hindman).
- (3) On June 25, 2002 at 1305, the State (Hindman) requested additional information related to Work Package T0110119. Specifically, (1) the Work Package identified equipment via the old property numbers and the Idle Equipment List which identifies RCRA equipment identifies new property numbers - A cross-walk is needed, and (2) Why does some of the equipment description include the word RCRA.
- (4) On June 25, 2002 at 1405, a cross-walk of the equipment was faxed to the State (Hindman).
- (5) On June 25, 2002 at 1410, the State (Hindman) agreed with the cross-walk supplied. In addition, clarification was provided that the RCRA designation was for circuit boards. Additional questions from the State (Hindman) included that (1) the HDIT 6. Should be checked yes. This will be changed in the work package. (2) The BWF

Contact Record 06/25/02

requires HEPA filtration is required / change out after each use while the Respiratory Protection Selection On-The-Job Verification Worksheet requires HEPA cartridge replacement every 8 hours. This will be corrected to be consistent. (3) For all pieces of equipment where exhaust ventilation is removed, the State requested that the work package be modified to take Beryllium sampling (swipe) in the duct before the duct is capped and removed. If beryllium is detected in the duct, the State (Hindman) requested that the exhaust be isolated (blanked or filtration supplied) during remaining duct removal if the effluent does not go through any additional filtration (i.e. the exhaust goes directly outside to the environment unfiltered). This will be added to the work package instructions.

Pending incorporation of the changes into the work package, the State (Hindman) concurred with the performance of the work in accordance with the work package.

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**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

R. DiSalvo, RFFO  
S. MacLeod, RFFO  
J. Legare, RFFO  
N. Newell, CDPHE  
S. Gunderson, CDPHE  
T. Rehder, USEPA  
C. Deck, K-H  
C. Gilbreath, K-H 771  
T. Hopkins, K-H 776

S. Nesta, K-H  
D. Shelton, K-H  
K. North, K-H ESS  
A. Rosenman, K-H ESS  
J. Mead, K-H ESS

**Additional Distribution:**

S. Tower, DOE  
C. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruchek, CDPHE

**Article 8**  
**Contact Record, June 25, 2002**

**CDPHE notification of electrical disconnects in Building 444 Room  
Group 3**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 06/25/02

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-009)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) notification of electrical disconnects in Building 444 Room Group 3

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

On June 25, 2002, at 1301, the State (Hindman) was notified of the intent to perform electrical disconnects in Building 444 Room Group 3.

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**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H	R. Leitner, K-H
J. Berardini, K-H	S. MacLeod, RFFO
C. Deck, K-H	J. Mead, K-H
R. DiSalvo, RFFO	S. Nesta, K-H
C. Gilbreath, K-H	N. Newell, CDPHE
S. Gunderson, CDPHE	K. North, K-H
T. Hopkins, K-H	T. Rehder, USEPA
L. Kilpatrick, K-H	A. Rosenman, K-H
J. Legare, RFFO	D. Shelton, K-H
K. Lavorato, K-H	

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruchek, CDPHE  
S. Tower, DOE

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**Article 9**  
**Contact Record, June 26, 2002**

**CDPHE notification of electrical disconnects in Building 444 Room  
Groups 5, 6, 7**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 06/26/02

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-008)  
**Phone:** (303) 966-2823

**Regulatory Contact:** Dave Kruczek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) notification of electrical disconnects in Building 444 Room Groups 5, 6, and 7.

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**Meeting Attendance**

C. J. Freiboth, K-H PM      D. Kruczek, CDPHE

**Discussion**

On June 26, 2002, at 1515, the State (Kruczek) was notified of the intent to perform electrical disconnects in Building 444 Room Groups 5, 6, and 7.

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**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H	R. Leitner, K-H
J. Berardini, K-H	S. MacLeod, RFFO
C. Deck, K-H	J. Mead, K-H
R. DiSalvo, RFFO	S. Nesta, K-H
C. Gilbreath, K-H	N. Newell, CDPHE
S. Gunderson, CDPHE	K. North, K-H
T. Hopkins, K-H	T. Rehder, USEPA
L. Kilpatrick, K-H	A. Rosenman, K-H
J. Legare, RFFO	D. Shelton, K-H
K. Lavorato, K-H	

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruczek, CDPHE  
S. Tower, DOE

**Article 10**  
**Contact Record, July 8, 2002**

**CDPHE notification of electrical disconnects in Building 444 Room  
Group 9**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 07/08/02

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-012)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) notification of electrical disconnects in Building 444 Room Group 9

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

On July 8, 2002, at 1015, the State (Hindman) was notified of the intent to perform electrical disconnects in Building 444 Room Group 9.

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**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
J. Berardini, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO  
K. Lavorato, K-H

R. Leitner, K-H  
S. MacLeod, RFFO  
J. Mead, K-H  
S. Nesta, K-H  
N. Newell, CDPHE  
K. North, K-H  
T. Rehder, USEPA  
A. Rosenman, K-H  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruchek, CDPHE  
S. Tower, DOE

**Article 11**  
**Contact Record, July 15, 2002**

**CDPHE concurrence on modifications to Work Package T0110072 –  
Building 444 Mechanically Disconnect Group 4**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 06/19/02 – 1425 and subsequent conversations associated with Work package T0110072 (Room Group 4) as identified in the text.

Subsequent contacts: 07/09/02 – 1539  
07/10/02 – 1455  
07/11/02 – 0642  
07/15/02 – 0915

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-013)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110072 – Building 444 Mechanically Disconnect Group 4 Equipment and Remove from Rooms

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

On June 19, 2002, at 1425, Work Package T0110072 was given to the State (Kruchek) for delivery to State (Hindman).

On July 9, 2002 at 1539, e-mail comments on Work Package T0110072 were received from the State (Hindman).

On July 10, 2002 at 1455, comment resolution was conducted with the State (Hindman) in Trailer T886B. State Comments and Resolution to the comments are provided as follows.

1. **COMMENT:** Section 8.1.16 should be amended to include the Beryllium Work Form (BWF) requirements as a driver for respiratory protection. The BWF is listed as a required control in the Job Hazard Analysis (JHA) but there is no BWF included in my copy of the work package. A BWF needs to be included/referenced in the work package.

**RESOLUTION:** Step 8.1.16 was revised to reference the BWF.

2. **COMMENT:** Section 9.2.1 refers to Appendix 9 for mechanical disconnect and vent removal instructions. It appears that the reference should be to Appendix 7 unless there are more detailed instructions from Industrial Hygiene that need to be added to the work package as Appendix 9.

**RESOLUTION:** Section 9.2.1 was revised to reflect Appendix 7.

3. **COMMENT:** The phrase "... as necessary" needs to be deleted from the end of the sentence in the third item under Section 9.2.3 in order to clarify that all ends of piping and tubing will be capped, blanked, or plugged.

**RESOLUTION:** "as necessary" was removed from Section 9.2.3, step 3.

4. **COMMENT:** The language marked by the third bullet under item 3 of Section 9.2.5 is incomprehensible and needs to be corrected.

**RESOLUTION:** The appropriate punctuation was placed in the bullet for clarification.

5. **COMMENT:** Item 5 under Section 9.2.5 states, "Spray encapsulant under the equipment after removal, as required." Specify who/what will determine when the spraying of the encapsulant is required. Is the need for encapsulant based on rad surveys?

**RESOLUTION:** Item 5 of Section 9.2.5 was clarified to state "as required by Industrial Hygiene." This determination is based on the radiation surveys and beryllium surveys.

6. **COMMENT:** Under Section 9.2.6, specify who/what will determine when rad surveys will be conducted. Unless a good reason is provided otherwise, it seems that rad surveys should be conducted for every piece of equipment being removed including the floor and debris under every piece of equipment.

**RESOLUTION:** The statement "as required" was removed from 9.2.6. Radiation surveys are conducted in accordance with step 10.2.3. This step is also used to perform beryllium surveys.

7. **COMMENT:** Section 9.2.7 requires containers of DU Chips to be stored "in an appropriate location." Specify what constitutes an appropriate location for the storage of containers of DU Chips.

**RESOLUTION:** A reference to the Fire Protection Program Manual, Chapter 2, Section 11 was added to Section 9.2.7. This procedure provides guidance on the transportation and storage of non-plutonium pyrophoric metals. The appropriate storage location is at the direction of the Facility Manager. This was also added to Section 9.2.7.

8. **COMMENT:** Under Section 10.2.2, what are the "specifications" that will be compared to the post-job beryllium survey results?

**RESOLUTION:** As per OS&IH Chapter 28, Beryllium Disease Prevention.

9. **COMMENT:** Why were the disciplines of Fire Protection and Environmental Compliance not involved with the Job Hazard Analysis (Figure 3-2)? It seems that Fire Protection should be involved since there is a potential for the proposed work to encounter pyrophoric material (e.g., DU chips; also see potential hazards listed under item 6 of the JHA). It seems that Fire Protection should also be involved to ensure that fire suppression capabilities are not adversely impacted since some of the work involves locking-out/tagging out water supply lines and plant air lines (which are downstream of a plant air tap to the fire sprinkler dry charge system). Additionally, it seems that Environmental Compliance would be involved since the removal of fixed equipment is regulated by RFCA.

**RESOLUTION:** Fire Protection Engineering signatures were obtained for the Job Hazard Analysis (JHA) and the Work Package. In addition, signatures were obtained from Environmental Compliance. The HDIT was also changed.

10. **COMMENT:** The "Required Controls" specified for item 2 on Figure 3-2, "Job Hazard Analysis," needs to include secondary containment (e.g., catch basins) to contain any liquids which may be released during draining and pipe removal activities.

**RESOLUTION:** This was added to the JHA and to step 9.2.3.

11. **COMMENT:** For Appendix 7 of the work package, describe why equipment item number 45 is the only item associated with the De-ionized Water System (includes equipment items 40 through 47) that is described as "Process Waste." Additionally, describe what equipment item 51 is; the equipment list only describes item 51 as "Kinney."

**RESOLUTION:** Item 45 is the only piece of the system connected to the process waste system. A follow-up question was asked as to why this system is connected to the Process Waste System. Resolution to this question will be obtained and presented to the State. Item 51 "Kinney" is a Kinney vacuum brazer.

12. **COMMENT:** Based on the Idle Equipment list, precautions should be taken with regard to potential mercury vapors that may be encountered when disconnecting and removing the Hot Hollow Cathode Coaters and the EB Chrome Plater #1. Additionally the Property ID numbers do not match between the equipment list in the work package and the Idle Equipment list.

**RESOLUTION:** Industrial Hygiene has performed initial mercury vapor monitoring, and there are no concerns. An updated equipment list to Appendix 7 will be faxed to the State.

On July 11, 2002, at 0642, an updated copy of the Appendix 7 equipment listing was faxed to the State (Hindman).

On July 15, 2002, at 0915 the State (Hindman) was presented with the information the de-ionized water system was connected (tied) to the process waste system only for convenience. Upon receipt of this information, the State concurred with the conducting the work as described in Work Package T0110072 for Room Group 4.

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**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H  
J. Berardini, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

Contact Record 07/15/02

R. Leitner, K-H  
S. MacLeod, RFFO  
J. Mead, K-H  
S. Nesta, K-H  
N. Newell, CDPHE  
K. North, K-H  
T. Rehder, USEPA  
A. Rosenman, K-H  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruchek, CDPHE  
S. Tower, DOE

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**Article 12**  
**Contact Record, July 17, 2002**

**CDPHE concurrence on mechanical disconnects in Room Group 6,  
Building 444 – Work Package T0110210**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 07/08/02 at 1140  
07/17/02 at 1650

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-015)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on mechanical disconnects in Room Group 6 of Building 444 – Work Package T0110210

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

On July 8, 2002, at 1140, a copy of Work Package TC110210 – Mechanically Disconnect the GROUP 6 Equipment and Remove from Rooms, was delivered to the State (Hindman) at his office in Denver, CO.

On July 17, 2002, at 1650, the State (Hindman) provided concurrence on Work Package T0110211 via an email correspondence and telephone message.

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**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
J. Berardini, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE

R. Leitner, K-H  
S. MacLeod, RFFO  
J. Mead, K-H  
S. Nesta, K-H  
N. Newell, CDPHE  
K. North, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruchek, CDPHE  
S. Tower, DOE

Contact Record 07/17/02

66

**Article 13**  
**Contact Record, July 24, 2002**

**CDPHE concurrence on Work Package T0110211 – B4444 mechanically  
disconnect Group 5 Equipment**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 07/08/02 – 1140 and subsequent conversations associated with Work Package T0110211 (Room Group 5) as identified in the text.

Subsequent contacts: 07/17/02 – 1654  
07/18/02 – 1415  
07/23/02 – 1531  
07/23/02 – 1624  
07/24/02 – 1505

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-017)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110211 – B444 Mechanically Disconnect the GROUP 5 Equipment and Remove from Rooms

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

On July 8, 2002, at 1140, a copy of Work Package T0110211 – B444 Mechanically Disconnect the GROUP 5 Equipment and Remove from Rooms, was delivered to the State (Hindman) at his office in Denver, CO.

On July 17, 2002 at 1654, the State (Hindman) had the following questions on the Work Package:

1. **COMMENT:** The stainless steel sink in Room 3 (Item 2) – Is this connected to the process waste drain system or sanitary drain system? Removal of the hot and cold domestic water supply is okay.

**RESOLUTION:** Further investigation on this item is required. Initial conversation identified this sink as being connected to the sanitary drain system.

2. **COMMENT:** The Room 3 sink is shown in Room Group 5, however the current map that the State has shows it in Room Group 6.

**RESOLUTION:** An updated map will be provided to the State (Hindman). This was provided on 07/23/02 at 1531.

3. **COMMENT:** A parts cleaner is listed on the Idle Equipment List is shown to be in the area. Is this one of the items to be removed?

**RESOLUTION:** No. The parts cleaner is no longer in the Room Group.

On July 18, 2002, at 1415, the State (Hindman) was provided information that the Room 3 sink was connected to the Sanitary Drain System. The State (Hindman) questioned if this was the same sink that was listed in the Closure Decision Document (CDD) for the process waste system in Building 444. This was reviewed and determined to be the same sink. In order to provide clarification, a walk-down of the system will be performed by the Area 3 Project Manager.

On July 23, 2002, at 1531, the results of the walk-down were provided to the State (Hindman). The sink is labeled as being connected to the "Sanitary Drain System." The drain from the sink splits and has a vent going up and the drain goes into the adjacent room (10B), which is the men's bathroom. There is no hood associated with this sink. This sink was however, listed in the CDD as a potential area of concern. Based on this, the Work Package will be modified to conduct sampling of the liquid in the drain for: (1) Gross Alpha + Beta, (2) Total Metals and (3) Beryllium. Pending the results of this sampling the Work Package will need to be modified accordingly to address the results. If the results come back negative, the sink will be disposed in accordance with the Waste Generating Instructions (WGI). The State (Hindman) also requested that if piping / mechanical disconnects leave a system in the building that can not be easily identified by the work crew, it will be labeled. This will be incorporated into this and other work packages.

On July 23, 2002, at 1624, the State (Hindman) concurred with the work package.

On July 24, 2002, at 1505, an updated map and work instructions for the sink and labeling were provided to the State (Hindman).

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**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H  
J. Berardini, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO  
K. Lavorato, K-H

R. Leitner, K-H  
S. MacLeod, RFFO  
J. Mead, K-H  
S. Nesta, K-H  
N. Newell, CDPHE  
K. North, K-H  
T. Rehder, USEPA  
A. Rosenman, K-H  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 14**  
**Contact Record, July 29, 2002**

**CDPHE concurrence on modification to Work Package T0110119 to  
add two additional pieces of equipment**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 07/23/02 - 1410

Subsequent contacts: 07/24/02 - 1505  
07/25/02 - 1600  
07/29/02 - 1044  
07/29/02 - 1648

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-019)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on modifications to Work Package T0110119 to add two additional pieces of equipment

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

On July 23, 2002, at 1410, a copy of Work Package T0110119 modifications was provided to the State (Hindman).

On July 24, 2002, at 1505, the State (Hindman) had the following questions:

- (1) What was the SIP used for?
- (2) What was the Bullard Lathe "Nitrogen Accumulator" used for?
- (3) What is expected to be discovered under the SIP?

On July 25, 2002, at 1600, the State (Hindman) was presented the following:

- (1) SIP Machine, Room Group 13, Room 181 – Used for parts inspection
- (2) Bullard Vertical Turret Lathe, Room Group 11, Room 116 – The nitrogen accumulator was used for dampen oil pressure fluctuations through a diaphragm system.

On July 29, 2002, at 1044, a copy of revised work instructions for the SIP were provided to the State.

On July 29, 2002, at 1648, the State concurred with the additions / changes to the Work Package.

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**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H  
J. Berardini, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO  
K. Lavorato, K-H

R. Leitner, K-H  
S. MacLeod, RFFO  
J. Mead, K-H  
S. Nesta, K-H  
N. Newell, CDPHE  
K. North, K-H  
T. Rehder, USEPA  
A. Rosenman, K-H  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

74

**Article 15**  
**Contact Record, July 29, 2002**

**CDPHE concurrence Work Package T0110309 – Building 444 Lift  
Miscellaneous Equipment and Perform Contamination Surveys**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 07/23/02 - 1410

Subsequent contacts: 07/24/02 - 0815  
07/25/02 - 1601  
07/26/02 - 1128  
07/29/02 - 1544  
07/29/02 - 1647

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-020)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110309 - Building 444 Lift Miscellaneous Equipment and perform Contamination Surveys

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

On July 23, 2002, at 1410, a copy of Work Package T0110309 - Building 444 Lift Miscellaneous Equipment and perform Contamination Surveys was provided to the State (Hindman) in T124A.

On July 24, 2002, at 0815, the State (Hindman) had the following comments:

- (1) Section 9 is missing steps for performing things such as draining liquids, covering disconnected ventilation, capping lines. They need to be added.
- (2) There are no steps in the JHA for disassembling and size reduction. They need to be added.
- (3) Room 407 items discusses asbestos and this is not listed in the JHA.

76

On July 25, 2002, at 1532 and 1601, the State (Hindman) was faxed an updated copy of Appendix 7 which does not include any mechanical disconnects. This should answer all of the questions that the State had on July 24, 2002.

On July 26, 2002, at 1128, the State (Hindman) was okay with the Work Package with the new Appendix 7, but stated that Section 9 should refer back to Appendix 7 in some fashion.

On July 29, 2002, at 1544, the State (Hindman) was faxed an updated Section 9, pages 14 and 16 reflecting changes which reference Appendix 7.

On July 29, 2002, at 1647, the State (Hindman) concurred with Work Package TT0110309.

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**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H  
J. Berardini, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO  
K. Lavorato, K-H

R. Leitner, K-H  
S. MacLeod, RFFO  
J. Mead, K-H  
S. Nesta, K-H  
N. Newell, CDPHE  
K. North, K-H  
T. Rehder, USEPA  
A. Rosenman, K-H  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 16**  
**Contact Record, August 8, 2002**

**CDPHE concurrence on Work Package T0110143 – Building 444/447  
Mechanical Disconnect Machines in Group 10**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 07/08/02 – 1140

Subsequent contacts: 08/07/02 – 0930  
08/08/02 – 1240  
08/08/02 – 1550  
08/08/02 – 1600

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-021)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110143 –  
Building 444/447 Mechanical Disconnect Machines in Group 10

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

On July 08, 2002, at 1140, a copy of Work Package T0110143 – Building 444/447 Mechanical Disconnect Machines in Group 10, was delivered to the State (Hindman) at his office in Denver, CO.

On August 07, 2002, at 0930, the State (Hindman) had the following comments:

- (1) Incorporate the global changes as discussed in the Room Group 4 Work Package.
- (2) In Room 31, what fluid was processed through the makeup tank and pump?
- (3) In Room 501, what are “ancillary items” associated with the drum crusher.

79

On August 08, 2002, at 1240, the following was presented to the State (Hindman):

- (1) The system in Room 31 was used for makeup water for the Building 447 cooling water system.
- (2) The drum crusher "ancillary items" include all of the drum crusher.

On August 08, 2002, at 1240, the State (Hindman) had the following comments:

- (1) What chemicals were added to the cooling water system in Room 31?
- (2) What was processed through the drum crusher?

On August 08, 2002, at 1550, the following was presented to the State (Hindman):

- (1) NALCO was used in the Building 447 cooling water system. The Environmental Coordinator for Building 444 (Kim Oman) was contacted and she stated that the water in the system was recently sampled and posed no concern.
- (2) The drum crusher was used as a drum contents compactor.

On August 08, 2002, at 1600, the State (Hindman) provided concurrence on Work Package T0110143.

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**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruchek, CDPHE  
S. Tower, DOE

80

**Article 17**  
**Contact Record, August 8, 2002**

**CDPHE notification of performance of electrical and  
telecommunication disconnects for Buildings 449 / 449A**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 08/08/02 - 1455

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-026)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-6728

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) notification of performance of electrical and telecommunication disconnects for Buildings 449 / 449A

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**Meeting Attendance**

C. J. Freiboth, KH PM      James Hindman, CDPHE

**Discussion**

On August 8, 2002, at 1455, the State (Hindman) was informed that electrical and telecommunications disconnects would occur in Buildings 449 / 449A. The State (Hindman) requested that they would like to see the work package for mechanical disconnects for these facilities.

**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruchek, CDPHE  
S. Tower, DOE

**Article 18**  
**Contact Record, September 4, 2002**

**CDPHE concurrence on modification to Work Package T0110210 –  
Building 444 Mechanically Disconnect the Group 6 Equipment and  
Remove**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 08/27/02 – 1445

Subsequent contacts:

09/04/02 – 1455

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-023)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-6728

**Agency:** CDPHE

---

**Purpose of Contact:** State (CDPHE) concurrence on modification to Work Package T0110210 – Building 444 Mechanically Disconnect the GROUP 6 Equipment and Remove

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**Meeting Attendance**

C. J. Freiboth, KH PM      J. Hindman, CDPHE

**Discussion**

On August 27, 2002, at 1445, a copy of Work Package T0110210 – Building 444 Mechanically Disconnect the GROUP 6 Equipment and Remove was given to the State (Kruczek) for distribution to James Hindman (State).

On September 4, 2002, at 1455, the State (Hindman) concurred with the work as described in Work Package T0110210 – Building 444 Mechanically Disconnect the GROUP 6 Equipment and Remove.

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruchek, CDPHE  
S. Tower, DOE

**Article 19**  
**Contact Record, September 16, 2002**

**CDPHE concurrence on Work Package T0110547 – Mechanically  
Disconnect Three Small Furnaces in Room 125 and remove**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 08/27/02 - 1445

Subsequent contacts:

09/03/02 - 1620

09/12/02 - 1020

09/16/02 - 1320

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-028)

**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE

**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110547 -  
Mechanically Disconnect Three Small Furnaces in Room 125 and Remove

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**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On August 27, 2002, at 1445, a copy of Work Package T0110547 - Mechanically Disconnect Three Small Furnaces in Room 125 and Remove, was given to the State (Kruchek) to pass on to James Hindman.

On September 03, 2002, at 1620, the State (Hindman) left a telephone message indicating that there were numbering discrepancies between the Equipment Layout Drawing and the Lockout/Tagout Sketch (SK-UTILITIES-MECH-125) in the document.

On September 12, 2002, at 1020, the State (Hindman) was given photographs of the three furnaces in Room 125 and was informed that the numbering discrepancies discussed on September 03, 2002, would be resolved.

On September 16, 2002, at 1320, the State (Hindman) concurred with the removal of the three furnaces as described in Work Package T0110547.

Contact Record 09/16/02

87

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

88

**Article 20**  
**Contact Record, September 17, 2002**

**CDPHE concurrence on Work Package T0110212- B444 Mechanically  
Disconnect Machines Group 7**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 07/08/02 - 1140

Subsequent contacts:

08/22/02 - 1515

09/17/02 - 1400

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-030)

**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE

**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110212 - Building 444 Mechanical Disconnect Machines in Group 7

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**Meeting Attendance**

C. J. Freiboth, KH PM

James Hindman, CDPHE

**Discussion**

On July 08, 2002, at 1140, a copy of Work Package T0110212 - Building 444 Mechanical Disconnect Machines in Group 7, was delivered to the State (Hindman) at his office in Denver, CO.

On August 22, 2002, at 1515 the State (Hindman) provided concurrence to Work Package T0110212 with the exception of the following items:

Item #1 - Kern-Penent Hood

Item #2 - Plastic open top tanks 2 ea. on stand with pumps

Item #3 - Two position rinse tank on stand (1 each) - PROCESS WASTE

Item #5A - 4 tank plating system - PROCESS WASTE

Item #6A - 3 tank plating system - PROCESS WASTE

Item #8A - Plating system tanks - PROCESS WASTE

Item #10 - Hood/Cabinet (found in Rm 212A)

Item #11 - Sink - PROCESS WASTE

Item #12 - Hood

Item #17 - Part cleaning system - PROCESS WASTE

Contact Record 09/17/02

On September 17, 2002, at 1400, it was determined that the remaining equipment could be dispositioned through the Closure Description Document (CDD) process (with State approval) with additional photographs (more detailed) and he might request the Work Package that will be used for the work.

**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 21**  
**Contact Record, September 19, 2002**

**CDPHE concurrence on Work Package T0110243 – B444 Mechanically  
Disconnect Machines, Group 2**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 07/08/02 – 1140

**Subsequent contacts:**

07/12/02 – 1237

07/17/02 – 1445

07/23/02 – 1505

07/25/02 – 1205

09/17/02 – 1410

09/18/02 – 1530

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-029)

**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE

**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110243 – Building 444 Mechanical Disconnect Machines in Group 2

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**Meeting Attendance**

C. J. Freiboth, KH PM      James Hindman, CDPHE

**Discussion**

On July 08, 2002, at 1140, a copy of Work Package T0110243 – Building 444 Mechanical Disconnect Machines in Group 2, was delivered to the State (Hindman) at his office in Denver, CO.

On July 12, 2002, at 1237, the State (Hindman) provided the following comments to the Work Package (Comment Resolution and date of resolution is also provided):

I have finished reviewing the work package to mechanically disconnect and remove equipment from Room Group 2 (rooms 106 and 107) of building 444 (Work Tracking Number T0110243). On July 9, 2002, comments from CDPHE were transmitted to you via e-mail regarding a work package to remove equipment from Room Group 4. These comments have resulted in changes made to the

Contact Record 09/19/02

93

Room Group 4 work package. As we discussed on Wednesday July 10, 2002, these changes made to the Room Group 4 work package (Work Tracking Number T0110072) will be made to this work package for Room Group 2, as applicable. I have the following comments/questions that need to be addressed before I can concur with the removal of the fixed equipment listed in the work package for Room Group 2. The following comments all apply to Appendix 7, "Group 2 Equipment Electrical & Mechanical Disconnects and One-line Diagrams":

1. **Comment** – There are no removal instructions included for item #12 in room 106, "Storage Cage"  
**Resolution (July 17, 2002 - 1445)** – Steps were added to the work package addressing the "Storage Cage."
  
2. **Comment** – Provide a description (including photographs or drawings if available) of item #5 in Room 107 which is described as "Air Shower, wall pass-through."  
**Resolution (July 17, 2002 - 1445)** – The State (Hindman) was informed that the air shower was used to clean beryllium contaminated tooling that was transferred into the old tool crib (Rooms 106A&B). A photograph of the air shower was also given the state.  
**Resolution (July 25, 2002 - 1205)** - Additional photographs of the Airshower unit were emailed to the State (Hindman).
  
3. **Comment** – Describe what the "Hydraulic Drum compactor" (item #11 in Room 107) was used for and provide a description of the unit (including photographs or drawings if available). What types of waste/material/contaminants were managed in this unit.  
**Resolution (July 17, 2002 - 1445)** – The State (Hindman) was informed that the drum crusher was not used for drums, but for scrapped beryllium parts. The parts were placed in the equipment to declassify and size reduce.
  
4. **Comment** – The removal instructions do not include steps to remove any hydraulic lines from item #11 in room 107 (Hydraulic Drum Compactor) or from item #1 in room 106 (Monarch lathe). Verify whether or not additional steps need to be added to disconnect any hydraulic lines from these items of equipment. (All of the other monarch lathes have steps for disconnecting hydraulic lines).  
**Resolution (July 17, 2002 - 1445)** – The State (Hindman) was informed that there are no hydraulic lines associated with these two pieces of equipment. No additional steps are required. The monarch lathe is much smaller than the other lathes.

5. Comment – How will the portions of Be vacuum lines and portions of the Exhaust Ducts be managed during and after removal to prevent the spread of contamination? Is this described in the Waste Generating Instructions (WGI)? Resolution (July 17, 2002 – 1445) – The State (Hindman) was pointed to the Beryllium Work Form (BWF) 444-2002-30 and Step 9.2.3.
6. Comment – Provide a description of the status of the room ventilation, Be Vacuum lines, and Exhaust Ducts associated with rooms 106 and 107. Are all of these systems operational and if so, how will they be operated during the activities described in this work package? Will supplemental ventilation and HEPA filtered vacuums need to be supplied? Describe the exhaust path for each of these systems (i.e., which filter plenums do they exhaust through?) Resolution (July 17, 2002 – 1445) – Drawings of the beryllium ventilation system were provided to the State (Hindman). Specific drawings included 13273-5A, 37392-101B, 37392-102B, 37392-103B, 37392-104B, 37409-001B, and 37514-1B. In addition, the State was informed that the Room Group 2 Area had its own ventilation system, and that the BWF would be followed for HEPA vacuum and ventilation guidance. Resolution (July 23, 2002 – 1515) – A conversation with the State (Hindman) was held regarding the ventilation system in the Building 444 beryllium shop. Conversations were centered around assurance that the ventilation system was operating prior to performing work in the rooms. It was agreed that a statement would be added to the work package that addressed that daily, the ventilation system for Rooms 106 and 107 would be verified as being operable and operating as designed. This was added as step 8.1.19.

On July 23, 2002, at 1505, the State (Hindman) concurred with the work package with the exception of the air shower unit (Item #5) in Room 107.

On July 25, 2002, at 1205, additional photographs of the air shower unit were emailed to the State (Hindman).

On September 17, 2002, at 1410, the State was questioned to the status of the air shower and it was determined that it would be addressed soon.

On September 18, 2002, at 1530, based on review and discussion of the air shower enclosure into Room 106 A&B, the State (Hindman) concurred to the removal of the air shower in Room Group 2.

**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 22**  
**Contact Record, September 19, 2002**

**CDPHE concurrence on Work Package T0109777 - Building 447**  
**Decontaminate the Rad HCA's in Rooms 32 and 502 and package waste**

97

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 07/23/02 - 1410

Subsequent contacts:

07/25/02 - 0830

08/07/02 - 0945

09/18/02 - 1520

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-032)

**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE

**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0109777 - Building 447 Decontaminate the Rad HCA's in Rooms 32 and 502 and Package Waste Rev. 1

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**Meeting Attendance**

C. J. Freiboth, KH PM                  James Hindman, CDPHE

**Discussion**

On July 23, 2002, at 1410, a copy of Work Package T0109777 - Building 447 Decontaminate the Rad HCA's in Rooms 32 and 502 and Package Waste Rev. 1, was delivered to the State (Hindman) at his office in T124A.

On July 25, 2002, at 0830, the State (Hindman), questioned the work package relative to whether the unit was a RCRA unit, whether it was closed (closure status), when it was done.

On August 07, 2002, at 0945 the State (Hindman) provided concurrence that it was okay to proceed with Work Package T0109777, just segregate the waste and hold pending resolution of the RCRA concern of the waste.

On September 18, 2002, at 1520, the State (Hindman) provided information that his investigation through CDPHE files of the Chip Roaster RCRA waste concern was completed, and that waste generated following work package T0109777 should not be considered hazardous. Waste generated while performing work package T0109777 should be handled in accordance with the normal Rocky Flats Environmental Technology Site infrastructure.

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 23**  
**Contact Record, September 27, 2002**

**CDPHE concurrence on Work Package T0110210 - Building 444  
Mechanically Disconnect Group 6 Equipment and Remove from rooms**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 09/27/02 – 1457

Previous contact(s): 09/12/02 – 1020

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-035)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on additions to Work Package T0110210 – Building 444 Mechanically Disconnect the GROUP 6 Equipment and Remove from Rooms

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**Meeting Attendance**

C. J. Freiboth, KH PM      James Hindman, CDPHE

**Discussion**

On September 12, 2002, at 1020, a copy of additions to Work Package T0110210 – Building 444 Mechanically Disconnect the GROUP 6 Equipment and Remove from Rooms, was delivered to the State (Hindman) in T124A.

On September 27, 2002, at 1457, the State (Hindman) provided concurrence to conduct in accordance with Work Package T0110210 with the exception of items #9 (Westinghouse Ultrasonic Vapor Degreaser) and #10 (Filter Drying Box). These items will be placed on hold until pending review of the RLCR.

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H

C. Deck, K-H

R. DiSalvo, RFFO

C. Gilbreath, K-H

S. Gunderson, CDPHE

T. Hopkins, K-H

L. Kilpatrick, K-H

J. Legare, RFFO

R. Leitner, K-H

J. Mead, K-H

S. Nesta, K-H

K. North, K-H

W. Prymak, DOE

T. Rehder, USEPA

D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H

J. Hindman, CDPHE

S. Tower, DOE

**Article 24**  
**Contact Record, October 3, 2002**

**CDPHE concurrence on Work Package T0110192 - Building 444**  
**Mechanically Disconnect Equipment and Remove from Rooms**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 10/03/02 - 1400

**Previous contacts:** 07/08/02 - 1140  
08/09/02 - 1432  
08/14/02 - 0945  
08/20/02 - 0940  
09/12/02 - 1025

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-031)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

---

**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110192 -  
Building 444 Mechanically Disconnect Group 3 Equipment and Remove from Rooms

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**Meeting Attendance**

C. J. Freiboth, KH PM                  James Hindman, CDPHE

**Discussion**

On July 08, 2002, at 1140, a copy of Work Package T0110192 - Building 444 Mechanically Disconnect Group 3 Equipment and Remove from Rooms, was delivered to the State (Hindman) at his office in Denver, CO.

On August 09, 2002, at 1432, the State (Hindman) provided the following comments to the Work Package (Comment Resolution and date of resolution is also provided):

I have finished reviewing the work package to mechanically disconnect and remove equipment from Room Group 3 (rooms 101, 101E, 101R, T101A, T101B, T101H, T103, MODULABS 100A-D, 138, 139, 143, 143H, 143J, and 143K) of Building 444 (Work Tracking Number T0110192). On July 9, 2002, comments from CDPHE were transmitted to you via e-mail regarding a work package to remove equipment from Room Group 4. Those comments resulted in changes to the Room Group 4 work package. As we discussed on Wednesday July 10, 2002,

Contact Record 10/03/02

the changes made to the Room Group 4 work package (Work Tracking Number T0110072) will be made to this work package for Room Group 3, as applicable. I have the following comments/questions that need to be addressed before I can concur with the removal of all of the items of fixed equipment listed in the work package for Room Group 3. The following comments all apply to Appendix 7, "Group Equipment Electrical & Mechanical Disconnects and One-line Diagrams":

1. **COMMENT** – Provide a description (including photographs or drawings if available) of the following:
  - item #6 in room 101E described as "Heald Model S Bore-Matic";
  - item #9 in room T101B described as "Pressure Test Chamber";
  - item #19 and 20 in room 138, both described as "White Part Carousel";
  - item #21 in room 139 described as "Varian Radiography System";
  - item #22 in room 139 described as "Varian Radiography Overhead System – head only"; and
  - item #25 in room 143H described as "Zygo Inspection System ZA-28"**RESOLUTION (August 14, 2002 - 0945)** – Photographs of these items including descriptions of their usage were Provided to the State (Hindman).
  
2. **COMMENT** – The Equipment Layout Diagram for Room Group 3 shows item #13A which is not specifically mentioned elsewhere in the work package. Is item #13A considered to be part of item #13, and if so, describe the item.  
**RESOLUTION (August 14, 2002 - 0945)** – Item #13A, Zeiss Control Cabinet was added to the work package Equipment List and Work Instructions.
  
3. **COMMENT** – The work instructions for item #10, "Aquafine Water Deionizing System" mentions a Process Waste sump. Are there RCRA concerns associated with this sump and the associated item #10?  
**RESOLUTION (August 14, 2002 - 0945)** – Drainage from the Aquafine Water Deionizing System is piped to a sump. The sump is labeled PROCESS WASTE.
  
4. **COMMENT** – It appears that the Lock-out/Tag-out (LO/TO) details for the Cooling Waste lines are missing for the disconnection and removal of #22A "Varian Modulator" in Room 139.  
**RESOLUTION (August 14, 2002 - 0945)** – The LO/TO for the COOLNG WATER SUPPLY and COOLING WATER RETURN lines were added to the work package.
  
5. **COMMENT** – There appears to be a typographical error on "LO/TO SKETCH: SK-GROUP-3—MECH—T103" for the Domestic Cold Water valve in Room 101H. The LO/TO sketch only shows Domestic Cold Water valve DCW-V-2 in Room 101H, but the LO/TO instructions for Room 101H mention valve DCW-V-1.

105

RESOLUTION (August 14, 2002 - 0945 - The typographical error was corrected on the sketch.

On August 20, 2002, at 0940 the State (Hindman) provided concurrence to Work Package T0110192 with the exception of the following items:

- Item #10 – Aquafine Water Deionizing System
- Item #25 – Zyglo Inspection System ZA-28

On September 12, 2002, at 1025, copies of photographs for items 10 (Aquafine Water Deionizing System) and 25 (Zyglo Inspection System ZA-28) were provided to the State (Hindman).

On October 3, 2002, at 1400, the State (Hindman) concurred to the removal of Item #10, Aquafine Water Deionizing System. The State also requested that Item #25 be deferred until after the RLCR is approved or it can be handled as part of a CDD.

**Contact Record Prepared By:** C. J. Freiboth

---

**Required Distribution:**

P. Arnold, K-H	R. Leitner, K-H
C. Deck, K-H	J. Mead, K-H
R. DiSalvo, RFFO	S. Nesta, K-H
C. Gilbreath, K-H	K. North, K-H
S. Gunderson, CDPHE	W. Prymak, DOE
T. Hopkins, K-H	T. Rehder, USEPA
L. Kilpatrick, K-H	D. Shelton, K-H
J. Legare, RFFO	

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 25**  
**Contact Record, October 17, 2002**

**CDPHE concurrence on Work Package T0110249 - Building 444**  
**Mechanically Disconnect the Group 9 Equipment and remove from**  
**rooms**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 10/17/02 - 1315

**Site Contact(s):** C. J. Freiboth (KH) -- (CJF-033)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

---

**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110249 – B444 – Mechanically Disconnect the GROUP 9 Equipment and Remove from Rooms

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**Meeting Attendance**

C. J. Freiboth, KH PM                  James Hindman, CDPHE

**Discussion**

On July 08, 2002, at 1140, a copy of Work Package T0110249 – B444 – Mechanically Disconnect the GROUP 9 Equipment and Remove from Rooms, was delivered to the State (Hindman) at his office in Denver, CO.

On July 12, 2002, at 1237, the State (Hindman) provided the following comments to the Work Package (Comment Resolution – both hard copy and electronic – and date of resolution is also provided):

I have finished reviewing the work package to mechanically disconnect and remove equipment from Room Group 9 (rooms 403, 404, 405, 405A&B, 406, 406B, 407, 408, 408A, 414, and 420) of Building 444 (Work Tracking Number T0110249). On July 9, 2002, comments from CDPHE were transmitted to you via e-mail regarding a work package to remove equipment from Room Group 4. These comments have resulted in changes made to the Room Group 4 work package. As we discussed on Wednesday July 10, 2002, these changes made to the Room Group 4 work package (Work Tracking Number T0110072) will be made to this work package for Room Group 9, as applicable. I have the following comments/questions that need to be addressed before I can concur with the removal of the fixed equipment listed in the work package for Room Group 9.

108

The following comments all apply to Appendix 7, "Group 9 Equipment Electrical & Mechanical Disconnects and One-line Diagrams":

1. **Comment** – The table of equipment to be addressed under this work package includes the phrase "associated parts only" for the description of items 1 through 3 (all vacuum furnaces), and 7 ("Arc Furnace Thermat – Old"). The phrase "ancillaries only" is included with the description for item number 21 ("Anocut EDM System"). The work package needs to describe the work that is planned for these associated parts/ancillaries in detail with photographs or drawings (i.e., describe what will be disassembled/removed and what will remain.).

**Resolution (July 24, 2002 - 1440)** – "Associated Parts" descriptions and work steps were added to the work package. Drawings and photographs of the items were also provided to the State..

2. **Comment** - Provide a description (including photographs or drawings if available) of the following:
  - item #4 in room 404 described as "Vacu-Blast grit blaster MK-11/Air Dryer" and "Glovebox, grit blast";
  - item #5 in room 404 described as "Westinghouse part cleaning sys.";
  - item #9 in room 405A described as Arc Furnace cooling waster system & tanks";
  - item #11 in room 405B described as "Liquid solvent recovery unit";
  - item in room 405B identified as "Retech arc furnace – new";
  - item #19D in room 406B described as "Air Dry Table"
  - item in room 407 described as "Charmilles EDM Machine";
  - item #22 in room 408 described as "Burst chamber test system"; and
  - item #26 in room 420 described as "instrom sample puller"

**Resolution (July 24, 2002 - 1440)** – Photographs/drawings of the above items were provided to the State.

3. **Comment** – Based on a comparison of floor plans in the Room Group 9 work package the floor plans in the CDD for the Process Waste System Uit 40 in Building 444/447, it appears that there may be some RCRA concerns associated with the "New Furnace" (I assume this is the "Retech Arc Furnace – new") in Room 405B. There also appears to be some RCRA concerns associated with item #7 ("Arc Furnace Thermat (old)") in Room 405. Both of these items appear to be located above RCRA-regulated pits/trenches with Process Waste drains.

**Resolution (July 24, 2002 - 1440)** – Information related to the furnaces was and their connections were provided to the State.

4. **Comment** – Provide information regarding the materials that were processed in each of the furnaces and the expected contaminants associated with these furnaces.

Resolution (July 24, 2002 - 1440) – The requested information related to the types of material that were processed through the furnaces was provided to the State.

5. Comment – Describe where the Vent line associated with item #3 in room 403 vents to.

Resolution (July 24, 2002 - 1440) – A description and photographs of the vent line associated with item #3 in Room 403 was provided to the State.

6. Comment – It appears that the Lock-Out/Tag-Out details for the Plant Air and Cooling Water lines is missing for Room 404.

Resolution (July 24, 2002 - 1440) – The drawings were added to the work package.

7. Comment – For the optional item listed as “Glovebox” in Room 404, is the “Exhaust hose” the same as the “vacuum Exhaust duct”? If not, then it appears a step needs to be added to install a blank or filter to the glovebox opening after the exhaust hose is removed.

Resolution (July 24, 2002 - 1440) – A photograph of this item was provided to the State. In addition, the wording in the work package was clarified to better describe the steps.

8. Comment – For items #7 and #9 in Room 405, the instructions state that the coolant has not been drained from the Main holding Tank in Room 405. Why is the coolant not being drained prior to disconnecting the coolant lines? Additionally, provide characterization information for the coolant (i.e., is it hazardous waste, radioactive, etc?).

Resolution (July 24, 2002 - 1440) – The work package was revised to characterize and drain the coolant.

9. Comment – Dismantlement steps for item #18 in Room 406 mentions that plant air and cooling water lines have already been disconnected. If these lines have not already been capped/plugged, then steps need to be added to ensure that they are.

Resolution (July 24, 2002 - 1440) – All lines except the Cooling Water Return have been plugged. Steps to plug this line were added to the work package.

10. **Comment** – For item #21 (“Anocut EDM System”) in Room 407, the dismantlement steps mention that the heating water lines may have asbestos insulation. Since the JHA and the rest of the work package does not address the management of asbestos, a stopping point needs to be added to the work package if asbestos is encountered for any of the items of equipment being addressed in this work package.

**Resolution (July 24, 2002 - 1440)** – General instructions to ensure that the insulation has been characterized prior to work starting was added to the work package. If it is determined to be asbestos, the JHA and work package will be modified prior to work continuing on the system.

On August 8, 2002, at 1440, the State (Hindman) asked the following additional questions:

1. The 6 coils listed under Item #1 what are they – Cooling Coils.
2. What are the associated parts for Item #21?
3. For Item #9, interaction with the process waste system is mentioned. What are the process waste concerns associated with this item.
4. Is the vent line for Room 403, Item #3 filtered?
5. Item #7 is not addressed in the work package. What would the wording be for this item?

On August 20, at 1015, a telephone conversation was held with the State (Hindman) to address the August 8, 2002, 1449 questions.

On September 9, 2002, at 1543, the State (Hindman) sent an email related to the Room Group 9 work package:

I have reviewed the responses to my comments on the work package to mechanically disconnect and remove equipment from Room Group 9 (rooms 403, 404, 405, 405A&B, 406, 406B, 407, 408, 408A, 414, and 420) in Building 444/447. As we discussed last week, the work on the following items will be put on hold since the RLCR has not been completed yet:

- Item #1: VPC vacuum furnace (room 403);
- Item #2: Vacuum Industries furnace (room 403);
- Item #3: Vacuum Specialties furnace (room 403);
- Item #4: Vacu-Blast grit blaster MK-11/Air Dryer (room 404);
- Item #5: Westinghouse part cleaning system;
- Item #7: Arc Furnace Thermat (old) (room 405);
- Item #8: Arc Furnace (old) control panel (room 405A);
- Item #9: Arc Furnace cooling water system & tanks (room 405A);
- Item #10: 2400 volt transformer and power control panels;
- Item: Rétech arc furnace (new) (room 405B);
- Item #18: Steigerwald EB welder (room 406);
- Item #19D: Air Dry Table (room 406B); and

Item #25: Retech arc furnace control panels.

At this time I am requesting that work on the item identified as "Glovebox, grit blast (room 404)" be put on hold since the RLCR has not been completed yet.

Additionally, I am requesting that work on the following two items be put on hold pending additional descriptive information (including photographs): Item #17: Hayes Furnace, LRI 303 (listed as Arc Furnace (old) control panel) (room 406); and Item #21: Anocut EDM System.

I concur with the work described in Work Package T0110249 for the disconnection and removal of the remaining items listed (excluding process waste items), which are:

- Item: KelAir Compressed Air Dryer (room 404);
- Item #6: Steel storage rack (room 405);
- Item #11: Liquid solvent recovery unit (room 405B);
- Item #12: Stainless steel storage cabinet (room 405B);
- Item #13: Steel storage rack (room 405B);
- Item #14: Welding hood and welder (room 405B);
- Item #16: Acid storage cabinet (room 405B);
- Item #19: Westinghouse Ultrasonic Cleaner Controller (room 406B);
- Item: Charmilles EDM machine (room 407);
- Item #22: Burst chamber test system (room 408);
- Item #23: Burst chamber compressors 30K (room 408A);
- Item #24: Burst chamber compressors 2K (room 408A); and
- Item #26: Instrom sample puller.

On September 12, 2002, at 1020, photographs of Item #21, Anocut EDM System were provided to the State (Hindman).

On September 20, 2002, at 0852, photographs of the Hayes Furnace (Item #17) were provided to the State (Hindman).

On September 20, 2002, at 1059, additional photographs of Item #21, Anocut EDM System were provided to the State (Hindman).

On September 23, 2002, at 1321, the State (Hindman) asked two additional questions:

- (1) What materials were processed/managed in the furnace?
- (2) It appears that there are no ventilation or exhaust ducts connected to this item (Hayes Furnace). Is this correct? If so, were ventilation/exhaust ducts previously connected to this unit and where did they vent/exhaust to?

On September 23, 2002, at 1359, information was sent to the State (Hindman) which described that the Hayes furnace was used for pre-heating in preparation of welding, and that only aluminum and stainless steel were processed. A conscious effort was made to ensure that no beryllium (Be) or Uranium (U) were processed in the furnace. In addition, there is no and never was any vent / ventilation associated with the furnace.

On September 23, 2002, at 1412, the State (Hindman) concurred with the disconnection and removal of Item #17 - Hayes Furnace currently located in Room 406, under the work package for Room Group 9 (Work Tracking Number T0110243).

On October 17, 2002, at 1350, the State (Hindman) requested that the Anocut EDM System be put on hold since the RLCR for the facility has not been completed yet.

**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

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**Article 26**  
**Contact Record, October 23, 2002**

**CDPHE concurrence on Work Package T0108072-456 - Remove Banks  
of Be contaminated Lockers from Locker room B444 for Disposal**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 10/23/02 – 1400

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-036)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0108072-456 –  
Remove Banks of Be Contaminated Lockers from Locker Room B444 for Disposal

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**Meeting Attendance**

C. J. Freiboth, KH PM      James Hindman, CDPHE

**Discussion**

On October 4, 2002, at 1445, a copy of Work Package T0108072-456 – Remove Banks of Be Contaminated Lockers from Locker Room B444 for Disposal, was delivered to the State (Hindman) in T124A.

On October 11, 2002, at 1613, the State (Hindman) provided asked questions related to the PPE requirements for performing the activity, what type of personal monitoring would be required, and what post locker removal surveys would be taken.

On October 17, 2002, at 1335, a copy of the Beryllium Work Form (BWF) was provided to the State (Hindman).

On October 18, 2002, at 1355, the State (Hindman) concurred with the removal of the beryllium contaminated lockers in Building 444.

On October 23, 2002, at 1400, a copy of the map showing where the lockers that will be removed was provided to the State (Hindman).

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

116

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**Article 27**  
**Contact Record, November 14, 2002**

**CDPHE notification of electrical disconnects associated with the  
Building 444 Process Waste System**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 11/14/02 - 0923

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-038)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) notification of electrical disconnects associated with the Building 444 process waste system

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**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On November 14, 2002, at 0923, the State (Hindman) was notified that electrical disconnects associated the Building 444 process waste systems discussed in work packages T0110697 - Building 447: Remove Process Waste Equipment from Building 447, T0110698 - Building 444: Remove Process Waste Equipment from Building 444 Cold Side, and T0110699 - Building 444: Remove Process Waste Equipment from Building 444 Hot Side, would be initiated.

**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 28**  
**Contact Record, December 2, 2002**

**CDPHE concurrence of Removal of Miscellaneous Items in Building  
444**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 12/02/02 - 0729

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-039)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence of Removal of Miscellaneous Items in Building 444

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**Meeting Attendance**

C. J. Freiboth, KH PM      James Hindman, CDPHE

**Discussion**

On November 14, 2002, at 0930, the State (Hindman) was informed that the building wanted to remove interior doors inside of Building 444. The State concurred with removal of the doors as long as they were not doors that provided boundaries between contaminated areas and clean areas, or those doors that when removed, could change the facility ventilation airflows.

On November 20, 2002, at 1500, a copy of Work Package T0110799-24 - Remove and Dispose of Items, was provided to the State (Hindman).

On November 26, 2002, at 0607, a follow-up list of items to be removed using T0110799-24 was provided to the State (Hindman). This included:

- Room 206 – Remove storage bins and rigid pipe threader
- Room 7 – Remove jib crane
- Room 107A – Remove lockers, shelves, desks, office equipment
- Room 109 – Remove cage
- Room 179 – Remove shelves and cage
- Room 102 – Remove storage shelves, safe, benches
- Room T101A – Remove ceiling grid
- Room 201 – Remove shelves, racks, and cabinets
- Room 204 – Remove shelves and cages
- Room 205 – Remove drill press
- Room 202 – Remove Racks
- Room 7B – Remove tool crib shelving
- Room 109C – Remove shelves in janitor closet

On November 26, 2002, at 1705, the State (Hindman) concurred with the removal of these items as long as the ceiling grid removal in Room T101A did not include removal of ceiling tiles that could change ventilation in the back area.

On December 2, 2002, at 0729, the State (Hindman) was notified that ceiling tiles were never installed in Room T101A and that the grid contained no tiles.

**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 29**  
**Contact Record, December 2, 2002**

**CDPHE contact regarding the Building 444 Complex Reconnaissance  
Level Characterization Reports (RLCR) Questions**

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**Article 29**  
**Contact Record, December 2, 2002**

**CDPHE contact regarding the Building 444 Complex Reconnaissance  
Level Characterization Reports (RLCR) Questions**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 12/02/02 - 0947

**Site Contact(s):** C. J. Freiboth (KH) -- (CJF-037)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) contact regarding the Building 444 Complex Reconnaissance Level Characterization Reports (RLCR) Questions

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**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On October 29, 2002, at 1640 the State (Hindman) called regarding the Building 444 Complex Reconnaissance Level Characterization Reports (RLCR). Specific questions:

**Question 1** - Radiation survey data (Table 3.1) shows the upper areas (walls and ceilings) where they are results greater than 500,000 dpm/100 cm<sup>2</sup>. The DCGL from the previous page shows the uranium limit being 5,000 dpm/1000 cm<sup>2</sup>. Is this in error?

**Response** (October 29, 2002 at 1645) - This item will be corrected in the RLCR.

**Question 2** - Can I (State) get a copy of the RCRA sampling data?

**Response** (November 20, 2002 at 1500) - A copy of the data for RINS 02S0183, 02S0198, and 02S0200 were provided to the State (Hindman).

On December 2, 2002 at 0947 - The State (Hindman) verified receipt of the sample data.

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 30**  
**Contact Record, December 23, 2002**

**CDPHE concurrence on removal of Building 447 Room 404  
Westinghouse Part Cleaning System and Monorail**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 12/23/02 – 1549

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-055)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on removal of Building 447, Room 404 Westinghouse Part Cleaning System and Monorail

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**Meeting Attendance**

C. J. Freiboth, KH PM                  James Hindman, CDPHE

**Discussion**

On December 18, 2002, at 0945, a walkdown of the Building 447, Room 404 Westinghouse Part Cleaning System and Monorail, was conducted with the State (Hindman). During the tour, the State (Hindman) concurred with the removal of the system and monorail.

On December 23, 2002, at 1549, the State (Hindman) provided written concurrence on the removal of the system and monorail.

**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

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**Article 31**  
**Contact Record, December 26, 2002**

**CDPHE concurrence on Dismantlement and Removal of Furnaces in  
Room 125 - T0110528**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 12/26/02 – 1315

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-040)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Dismantlement and Removal of Furnaces in Room 125 – T0110528

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**Meeting Attendance**

C. J. Freiboth, KH PM                  James Hindman, CDPHE

**Discussion**

On September 12, 2002 at 1025, a copy of T0110528 – Building 444: Remove Furnaces and Ancillary Equipment from Room 125 was provided to the State (Hindman).

On October 4, 2002 at 0935, the State (Hindman) requested photo's of the three furnaces in Room 125 and asked what quenching media and oils were used in the process.

On October 7, 2002 at 1634, the State (Hindman) was provided with photos and descriptions of the oil and wash media used with the furnaces.

On October 10, 2002 at 1236, the State (Hindman) concurred with the mechanical disconnects of the Lindberg Tempering furnace and Lindberg Wash Furnace in Building 444 room 125. This does not include any asbestos abatement or cutting a hole in the wall of the facility. In addition, the State (Hindman) requested a walkdown or additional photographs of the large Lindberg Quench Furnace.

On October 17, 2002 at 1450, additional photographs of the Lindberg Quench Furnace were provided to the State (Hindman).

On December 5, 2002, at 1310, the State (Hindman) asked the following questions. Responses to these questions were provided to the State (Hindman) on December 18, 2002 at 0542.

- (1) **QUESTION** – RLCR identified that there were 3 Be samples taken in the Room 125 furnace pit. One of the samples was at 0.124 ug/cm<sup>2</sup>. What are the in-process characterization plans for the furnace removal from a Be perspective.

**RESPONSE** – Additional characterization will depend on how much disassembly is required/needed. While we have sampled the exterior of these furnaces (2 small and 1 large) and the pit, we will get samples from the inside as well. Additionally, all accessible areas and newly exposed areas from disassembly will be encapsulated (CC Fix) as the areas are exposed (A.K.A. spray as we go). The pit is not very accessible at the moment, but once we have to get into it, we should use wet methods to remove/decrease the contamination as needed and/or fix it. The pit has an oily residue (slip hazard) so the potential for beryllium exposure is minimal at the moment.

It is important to note that beryllium contamination levels in the room and on the furnaces have been below 0.2 µg/100 cm<sup>2</sup>. We're dealing with much lower levels than we have on other pieces of equipment. We will continue to perform personal air monitoring throughout the project. We have had no positive air samples from any work in this room to date.

As for minimizing potential beryllium exposures, we are using the same techniques that we have been successful at while removing other beryllium contaminated machinery out of the building. This will include:

1. Using wet wipes and/or HEPA vacuums to remove loose contamination as needed;
2. Spraying the exterior areas down with CC Wet prior to doing to disassembly;
3. Using a combination of wet methods and/or LEV while performing dust-generating activities (cutting, grinding, etc.).
4. The room is operating under negative ventilation, thereby allowing the air in the room to change frequently and to prevent spreads of contamination from the room/past the step-off pad

- (2) **QUESTION** – How is the waste going to be packaged?

**RESPONSE** – Waste will be sent to a sanitary landfill like all of the other equipment removed from the Cold Side. Whether or not the furnace has some non-friable ACM will affect which landfill will be used. If it is found to be Be contaminated it will be sprayed with a permanent fixative and/or shrink wrapped in order to prevent beryllium contamination spread.

(3) **QUESTION** – How are any releases going to be prevented?

**RESPONSE** – Potential beryllium release will be managed by using the engineering controls listed in the response to Item (1). Additional information from wipe samples inside the furnace will allow us to more fully evaluate contamination levels and exposure potential

On December 26, 2002, at 1315, during a meeting with the State (Hindman) the responses provided to the State (Hindman) questions were discussed. Upon completion of the discussion, concurrence to perform work in accordance with Work Package T0110528 was provided by the State (Hindman).

**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H	R. Leitner, K-H
C. Deck, K-H	J. Mead, K-H
R. DiSalvo, RFFO	S. Nesta, K-H
C. Gilbreath, K-H	K. North, K-H
S. Gunderson, CDPHE	W. Prymak, DOE
T. Hopkins, K-H	T. Rehder, USEPA
L. Kilpatrick, K-H	D. Shelton, K-H
J. Legare, RFFO	

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

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**Article 32**  
**Contact Record, December 26, 2002**

**CDPHE concurrence on Work Package T0110799-23**  
**Remove Temporary Wall in Front of rollup Door #9 Outside of Room**  
**109A and Door Jamb Between Room 104 and 109A**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 12/26/02 - 1400  
**Site Contact(s):** C. J. Freiboth (KH) - (CJF-048)  
**Phone:** (303) 966-2823  
**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345  
**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110799-23 - Remove Temporary Wall in Front of Rollup Door #9 Outside of Room 109A and Door Jamb Between Room 104 and 109A

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**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On October 17, 2002, at 1340, a copy of Work Package T0110799-23 - Remove Temporary Wall in Front of Rollup Door #9 Outside of Room 109A and Door Jamb Between Room 104 and 109A, was provided to the State (Hindman).

On December 5, 2002, at 1310, the State (Hindman) asked the following questions. Responses to these questions were provided to the State (Hindman) on December 18, 2002 at 0542.

(1) **QUESTION** - Need Be and Rad data from the wall.

**RESPONSE** - Rad - No radiological contamination was found on the interior or exterior of the wall in R109A. Be - The samples taken for Be were ND. Two floor samples and 1 wall sample were taken in R109A.

(2) **QUESTION** - WP identifies that there might be asbestos in the wall. Is there any, and if so what are the plans for handling / removal?

133

**RESPONSE** - A State Certified Asbestos Inspector performed a walk down on 12/12/02. He determined by visual inspection that the wall to be removed did not contain any ACM. In addition, persons familiar with the building indicated that no known asbestos containing materials were used in the construction of the temporary wall.

(3) **QUESTION** - How will the waste (wall) be handled for removal?

**RESPONSE** - Waste from the wall will be placed into cargo containers and disposed of as LLW.

(4) **QUESTION** - Is a fixative going to be sprayed on the wall?

**RESPONSE** - Regardless of the contamination level found, CC-Wet will be sprayed on the interior of the wall before removal. In addition, wet methods and the engineering controls will be utilized, along with normal engineering controls.

(5) **QUESTION** - Is there going to be a temporary structure built on the outside of the facility while the door is being removed?

**RESPONSE** - A plastic barrier will be taped on the exterior of the wall before removal starts. During wall removal testing will be done to confirm that adequate negative ventilation is maintained.

On December 18, 2002, at 1100, a walkdown of the removal activity in Room 109A was conducted with the State (Hindman).

On December 26, 2002, at 1400, during a meeting the State (Hindman) the work described in T0110799-23 was discussed. Upon completion of the discussion, concurrence to perform work in accordance with Work Package T011799-23 was provided by the State (Hindman) as long as the plastic barrier remains in place during the removal activities.

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

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**Article 33**  
**Contact Record, January 8, 2003**

**CDPHE Notification of electrical disconnects associated with Building  
453 and Room 9A Tank Rinse**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 01/08/03 - 1430

**Site Contact(s):** C. J. Freiboth (KH) -- (CJF-058)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) notification of electrical disconnects associated with Building 453 and Room 9A Tank Rinse

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**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On January 8, 2003, at 1430, the State (Hindman) was notified that electrical disconnects for Building 453 would be conducted. In addition, the desire to conduct the final rinse associated with the tanks in Room 9A was presented to the State (Hindman). The State (Hindman) concurred with this activity.

**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H	R. Leitner, K-H
C. Deck, K-H	J. Mead, K-H
R. DiSalvo, RFFO	S. Nesta, K-H
C. Gilbreath, K-H	K. North, K-H
S. Gunderson, CDPHE	W. Prymak, DOE
T. Hopkins, K-H	T. Rehder, USEPA
L. Kilpatrick, K-H	D. Shelton, K-H
J. Legare, RFFO	

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 34**  
**Contact Record, January 9, 2003**

**CDPHE concurrence on Work Package T0110799-35**  
**D&D the following 444 outbuildings: B427, B427A, B449, BS449 and**  
**Paint Shack east of outbuildings**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 01/09/03 - 1350

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-057)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110799-35 - D&D the Following B444 Outbuildings: B427, B427AA, B449, and B449A (with the exception of west conex), S449 and Paint Shack East of Outbuildings

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**Meeting Attendance**

C. J. Freiboth, KH PM                  James Hindman, CDPHE

**Discussion**

On November 20, 2002, at 1500, a copy of Work Package T0110799-35 - D&D the Following B444 Outbuildings: B427, B427AA, B449, and B449A (with the exception of west conex), S449 and Paint Shack East of Outbuildings, was provided to the State (Hindman).

On December 26, 2002, at 1510, the State (Hindman) agreed that since the RLCR has been approved for most of these buildings, State concurrence is not required on those buildings that are designated as Type I. Building 453, the contaminated Conex, and Building 449A will need to be addressed separately. The only item in T0110799-35 that will require their concurrence is the Paint Shack East of the Outbuildings.

On January 09, 2003, at 1350, the State (Hindman) concurred with the D&D of the wooden paint shed described in T0110799-35.

138

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

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**Article 35**  
**Contact Record, February 3, 2003**

**CDPHE concurrence on performing Cooling Water Draining in  
accordance with Work Package T01100899-140**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 02/03/03 - 1126

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-060)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on performing Cooling Water Draining in accordance with Work Package T0110799-140

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**Meeting Attendance**

C. J. Freiboth, KH PM      James Hindman, CDPHE

**Discussion**

On January 15, 2003, at 1445, a copy of Work Package T0110799-140 – Drain Cooling Water from the Building 444 Complex in Support of Building 444 D&D Project, was provided to the State (Hindman).

On January 29, 2003, at 1048, the State (Hindman) provided Comments/Questions to Work Package T0110799-140.

On January 30, 2003, at 1115, responses to the Comments/Questions were provided to the State (Hindman). The Comments/Questions/Responses were:

1. **Comment/Question** – I would like to review the analytical results for the water.  
**Response** – Copies of the analytical results were provided electronically.
  
2. **Comment/Question** – What is the estimated amount of cooling water in the system?  
**Response** – A detailed estimate of the quantity of water in the cooling system has not been performed. Individual estimates range from 2,000 to 20,000 gallons.

141

3. **Comment/Question** – Why are there no lock-outs/tag-outs (LO/TO) required for this activity? It seems that any water/coolant sources that feed the system should be locked-out/tagged out before draining occurs in order to prevent any potential overfilling of containers or flooding.  
**Response** – LO/TO is not required by the site HSP for this activity. The system has been out of service since the early '90's. The PIV for the system is shut off outside the building so the system can't refill.
4. **Comment/Question** – What measures will be taken in the event of a failure of the valve used for draining (i.e., the valve is unable to be shut after draining begins)? It seems at a minimum, other empty containers should be staged at the drain point in order to prevent overfilling of the collection container or possible flooding.  
**Response** – The valve has been operated 3 times recently and seems to be in good condition. There is no indication that it is getting ready to fail. However, extra drums and an extra pump will be available.
5. **Comment/Question** – Someone will need to be present at the draining location and shut off valve to monitor and control the activities throughout the duration of the activity.  
**Response** – There will be a minimum of 2 persons on this activity. The drain location, pump(s) and valve will be monitored at all times.
6. **Comment/Question** – The drum to be located in Room 101 must be properly closed and sealed prior to transport in order to avoid spilling.  
**Response** – A sealed drum and pump system has been prepared and will be used (to) capture the water and pump it directly to a sanitary drain.

On January 30, 2003, at 1209, the State (Hindman) requested that one of the analytical results (the one for inorganic analysis) be re-submitted for review as the copy that was received by the State had many blanks shown where the analytes should have been listed.

On February 3, 2003, at 0751, a re-scanned copy of the requested data sheet was sent to the State (Hindman).

On February 3, 2003, at 1126, the State (Hindman) provided concurrence to proceed with the work described in Craft Work Package T0110799-140.

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Zahm, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

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**Article 36**  
**Contact Record, February 5, 2003**

**CDPHE concurrence on performing Remove Stainless Steel  
Sheeting, Peg Board, & Plywood Protective Wall Covering from  
444/447 in accordance with Work Package T0110799-127**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 02/05/03 - 1706

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-061)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on performing Remove Stainless Steel Sheeting, Peg Board, & Plywood Protective Wall Coverings From 444/447 in accordance with Work Package T0110799-127

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**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On January 8, 2003, at 1439, a copy of Work Package T0110799-127 for Removing Stainless Steel Sheeting, Peg Board, & Plywood Protective Wall Coverings from 444/447 was provided to the State (Hindman).

On January 23, 2003, at 0945, the State (Hindman) asked if any changes had been made to the document, requested color photos of the wall partitions, and of the stainless Steel walls.

On January 23, 2003, at 1230, photographs of the requested information were provided to the State (Hindman).

On January 29, 2003, at 1010, the State (Hindman) was okay with performing the work with the exception of items listed and shown on Page 6 of 7. In addition, he (Hindman) asked if the asbestos samples for the walls listed and shown on Page 6 of 7 had been taken.

On January February 5, 2003, at 0945, the State (Hindman) inquired again about the asbestos samples for the items listed and shown on Page 6 of 7.

145

On February 5, 2003, at 1426, additional photographs and the asbestos sample results were provided to the State (Hindman).

On February 5, 2003, at 1706, the State (Hindman) provided concurrence to remove all items described in Work Package T0110799-127.

**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Zahm, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 39**  
**Contact Record, February 26, 2003**

**CDPHE notification of electrical disconnects associated with the  
Building 444 Steigerwald Welder and Inertia Welder.**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 02/26/03 - 1250

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-064)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) notification of electrical disconnects associated with the Building 444 Steigerwald Welder and Inertia Welder

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**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On February 26, 2003, at 1250, the State (Hindman) was notified that electrical disconnects associated the Building 444 EB Welder #25 (Steigerwald) in Room T101H and Inertia Welder in Room 204A would be initiated using Work Package T0110799-148.

**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H	R. Leitner, K-H
C. Deck, K-H	J. Mead, K-H
R. DiSalvo, RFFO	S. Nesta, K-H
C. Gilbreath, K-H	K. North, K-H
S. Gunderson, CDPHE	W. Prymak, DOE
T. Hopkins, K-H	T. Rehder, USEPA
L. Kilpatrick, K-H	D. Shelton, K-H
J. Legare, RFFO	C. Zahm, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 37**  
**Contact Record, February 18, 2003**

**CDPHE concurrence on Work Package T0110799-155**  
**Building 444, Fog Be Shop with Fixative**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 02/18/03 – 1000  
**Site Contact(s):** C. J. Freiboth (KH) – (CJF-063)  
**Phone:** (303) 966-2823  
**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345  
**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110799-155 – Fog Be Shop with Fixative (Building 444)

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**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On February 5, 2003, at 1225, the State (Hindman) was provided a copy of Work Package T0110799-155 – Fog Be Shop with Fixative, Building 444.

On February 12, 2003, at 1300, the work described in T0110799-155, was discussed with the State (Hindman and Kruchek) at the Area 3 Weekly Status Meeting.

On February 18, 2003, at 1000, the State (Hindman) concurred with fogging the beryllium shop in accordance with work package T0110799-155.

**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H	R. Leitner, K-H
C. Deck, K-H	J. Mead, K-H
R. DiSalvo, RFFO	S. Nesta, K-H
C. Gilbreath, K-H	K. North, K-H
S. Gunderson, CDPHE	W. Prymak, DOE
T. Hopkins, K-H	T. Rehder, USEPA
L. Kilpatrick, K-H	D. Shelton, K-H
J. Legare, RFFO	C. Zahm, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

Contact Record 02/18/03

**Article 38**  
**Contact Record, February 18, 2003**

**CDPHE concurrence on Work Package T0110629 – Electrically and  
Mechanically Disconnect Two Hamilton Fume Hoods in Room 137 and  
Remove**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 02/18/03 – 1000  
**Site Contact(s):** C. J. Freiboth (KH) – (CJF-049)  
**Phone:** (303) 966-2823  
**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345  
**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110629 – Electrically and Mechanically Disconnect Two Hamilton Fume Hoods in Room 137 and Remove

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**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On October 4, 2002, at 1445, a copy of Work Package T0110629 – Electrically and Mechanically Disconnect Two Hamilton Fume Hoods in Room 137 and Remove, was provided to the State (Hindman).

On December 26, 2002, at 1350, during a meeting the State (Hindman) the work described in T0110629 was discussed. Upon completion of the discussion, concurrence to perform electrical disconnects in accordance with Work Package T0110629 was provided by the State (Hindman). The State (Hindman) asked what operations / activities were conducted in the fume hoods. The State (Hindman) will be provided with this information.

On December 31, 2002, at 0625, information related to the operations / activities that were conducted in the fume hoods was provided to the State (Hindman).

On February 10, 2003, at 1548, the State (Hindman) asked (1) Are the vents from the fume hoods connected to a plenum or pass through filters, (2) Will the filters remain or will they be blanked off, and (3) Is there any beryllium characterization data for these hoods?

152

On February 18, 2003, at 0505, a description of the fume hood system was provided to the State (Hindman) along with the results of the beryllium characterization.

On February 18, 2003, at 1000, the State (Hindman) provided concurrence that the work on the Room 137 fume hoods could proceed.

**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H

C. Deck, K-H

R. DiSalvo, RFFO

C. Gilbreath, K-H

S. Gunderson, CDPHE

T. Hopkins, K-H

L. Kilpatrick, K-H

J. Legare, RFFO

R. Leitner, K-H

J. Mead, K-H

S. Nesta, K-H

K. North, K-H

W. Prymak, DOE

T. Rehder, USEPA

D. Shelton, K-H

C. Zahm, K-H

**Additional Distribution:**

C. J. Freiboth, K-H

J. Hindman, CDPHE

S. Tower, DOE

**Article 40**  
**Contact Record, March 7, 2003**

**CDPHE concurrence on Removal Building 447, Room 407, Anocut  
EDM Machine**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 03/07/03 – 1420

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-056)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on removal of Building 447, Room 407 Anocut EDM Machine

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**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On December 18, 2002, at 0940, a walkdown of the Building 447, Room 407 Anocut EDM Machine, was conducted with the State (Hindman). During the tour, the State (Hindman) requested information on what was processed in the machine.

On December 19, 2002, at 1400, the State (Hindman) provided information (email) that the machine was used to process stainless steel castings. No depleted uranium or other hazardous metals were processed with the machine.

On March 7, 2003, at 1420, the State (Hindman) concurred with the removal of the Anocut EDM Machine in Building 447, Room 407.

155

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO`

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Zahm, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

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**Article 41**  
**Contact Record, April 1, 2003**

**CDPHE concurrence on Work Package T0111132 – Remove Beryllium  
Shop Ventilation System**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 04/01/03 - 1308

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-065)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) Concurrence on Work Package T011132 -  
Remove Beryllium Shop Ventilation System

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**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On February 12, 2003, at 1250, the State (Hindman) was briefed on the fogging of the Building 444 Rooms 106 and 107 beryllium shop. This briefing included the removal of the beryllium shop ventilation system. A copy of Work Package T011132 - Remove Beryllium Shop Ventilation System was also provided to the State (Hindman).

On February 26, 2003, at 1250, the State (Hindman) was provided an updated copy of Section 9 of Work Package T011132, revised based on recommendations from the RISS Supervisor Safety Board.

On March 7, 2003, at 1415, the State (Hindman) asked the following questions/comments related to Work Package T011132. Answers to these questions/comments were provided to the State (Hindman) on March 7, 2003, at 1602.

- (1) **Comment:** Provide the State (Hindman) with the results of the Mockup.
- (2) **Question:** Where are the plugging of the penetrations in the walls and floors addressed?  
**Resolution:** These are provided in the General Work Instructions, Be VACUUM (High Vacuum) Step 7 and Exhaust (Low Vacuum) Step 2.

(3) **Question:** Where is the Room 15 work addressed in the sketches?

**Resolution:** On Sketch 2 in Room 106 where the existing 2 ½" duct is identified.

(4) **Question:** On Sketch 2, what is the hatched existing 2 ½" duct identified on upper right portion of the drawing?

**Resolution:** That is where the exhaust from Room 15 attaches to the exhaust system.

(5) **Question:** What is the square ducting shown in Room 106 of Sketch 1, and will it be removed during the beryllium shop duct removal?

**Response:** This ducting is for the room ventilation air supply. It will not be removed.

On March 7, 2003, at 1610, the State (Hindman) asked for additional information related to the LO/TO of the system butterfly valve discussed under step 9.2.7.8 and the exhaust system ventilation fans. Once these LO/TO changes are made, and if the mock-up is successful and results in no changes to the work document or methods of conducting the work, the State (Hindman) concurs with the performance of the work. If changes are made to the work document, the State (Hindman) requested that he be informed of the changes and he will provide any questions prior to concurring with the initiation of work.

On March 31, 2003, at 0652, the State (Hindman) was informed of the results of the mock-up via an email write-up.

On March 31, 2003, at 1153, the State (Hindman) asked the following questions:

- (1) The open ends of the Be ducts need to be capped or plugged after the ventilation is shut off and prior to injecting the foam. Unless I missed this, it seems that such a requirement needs to be added to the work package.
- (2) Has the recent incident related to duct work in B776/777 affected how other projects must approach work on ducts?

On April 1, 2003, at 1245, a fax was sent to the State (Hindman) which addressed these two questions.

On April 1, 2003, at 1256, an email was sent to the State (Hindman) describing what was in the recently sent fax. Included was a response to his questions: (1) 8a was added to the work package to require that all vertical drops be taped off once the ventilation system is turned off. When the equipment was removed from these two rooms last year, all drops were covered with a filter, so once the ventilation is turned off, they will be covered, and (2) Based on lessons learned from the Building 776 incident, the JHA was modified (6a) to include a control that should the ventilation system fail, all work should immediately stop.

On April 1, 2003, at 1308, the State (Hindman) provided concurrence to proceed with the work to remove the vacuum duct and exhaust systems from the Be Shop in Building 444/447 as described in work package number T011132.

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Zahm, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 42**  
**Contact Record, April 3, 2003**

**CDPHE concurrence on Work Package T0110799-139**  
**Remove Walls Requiring Electrical Disconnects**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

---

**Date/Time:** 04/03/03 - TBD

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-066)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

---

**Purpose of Contact:** State (CDPHE) Concurrence on Work Package T0110799-139 -  
Remove Walls Requiring Electrical Disconnects

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**Meeting Attendance**

C. J. Freiboth, KH PM                  James Hindman, CDPHE

**Discussion**

On March 9, 2003, at 0945, a copy of Work Package T01107990139 - Remove Walls Requiring Electrical Disconnects was provided to the State (Hindman).

On March 13, 2003, at 1506, the State had the following questions:

- (1) It appears there is a discrepancy with the Lock-out/Tag-out (LO/TO) of the TOG-13 transformer. The picture in the work package shows this transformer as TOG-15.
- (2) Are there any beryllium characterization data available for the overheads?
- (3) Ceiling tiles are being removed for some of these walls. Are there any concerns over changes in the ventilation systems

On March 25, 2003, at 05:34, answers to these questions were emailed to the State (Hindman). (1) The transformer is TOG-13. (2) IH does not feel that the removal of ceiling tiles are high risk for beryllium excursions. CC-Fix will be used during the ceiling tile removal to control air borne dust. (3) IH does not feel that removal of ceiling tiles and walls will have an adverse affect on air flows in the CA. Periodic smoke testing during removals will be conducted to confirm air flow is acceptable.

On March 25, 2003, at 0600, photographs and a list of additional walls to be removed was emailed to the State (Hindman).

Contact Record 04/03/03

On March 26, 2003, at 1230, color photographs of walls to be removed were provided to the State (Hindman).

On April 1, 2003, during a conversation with the State (Hindman) concurrence was give to conduct electrical disconnects on the walls identified.

On April 2, 2003, at 0703, asbestos sample result information on some of the walls to be removed were emailed to the State (Hindman).

On April 3, 2003, at 1030, during a meeting with the State (Hindman), a corrected page for the previously identified LO/TO was provided.

On April 3, 2002, at 1250, the State (Hindman) provided concurrence to remove walls associated with Rooms x:

The State (Hindman) also requested a map showing the walls to be removed using this work package. Additional walls that are added to the Work Package in the future will be removed under the approved RSOP and the State will be notified of these additions to the Work Package.

**Contact Record Prepared By: C. J. Freiboth**

---

**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Zahm, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 43**  
**Contact Record, April 8, 2003**

**CDPHE concurrence on Work Package T0110699 – Remove Process  
Waste Equipment from Building 444 Hot Side (CA)**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 04/08/03 – 1155

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-053)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110699 –  
Building 444: Remove Process Waste Equipment from Building 444 Hot Side

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**Meeting Attendance**

C. J. Freiboth, KH PM                  James Hindman, CDPHE

**Discussion**

On October 23, 2002, at 1355, a copy of Work Package T0110699 – Building 444: Remove Process Waste Equipment from Building 444 Hot Side, was provided to the State (Hindman).

On December 18, 2002, at 1030, a walkdown of some of the process waste items discussed in T0110699, was conducted with the State (Hindman).

On December 26, 2002, at 1437, during a meeting with the State (Hindman), concurrence was provided to conduct the activities (process waste removal) in the basement of Building 444 as described in T0110699.

On February 20, 2003, at 1735, State (Hindman) concurrence was provided to conduct the activities (process waste removal) for rooms 143J, 205, 212A, 212B, and 245C of Building 444 as described in T0110699. In addition, the State (Hindman) had the following questions related to the remaining items listed in Work Package T0110699. The responses to the comments/questions were provided to the State (Hindman) on February 26, 2003 at 0734.

**Question 1** – The “Hot Side Process Waste Equipment List, Bldg 444” shows items in rooms 101, 101B, 101H, and 109. However, items in these rooms are not specifically

Contact Record 04/08/03

included in the associated Closure Decision Document (CDD). Please resolve this apparent discrepancy. Additionally, the list has the comment, "under evaluation" for item #1 (PW Sink #3) located in room 101. What is meant by this comment? The floor plan with the CDD shows PW Sink #2 near PW Sink #3 in the same room. Does PW Sink #2 still exist and if so, should it have been included in the CDD?

#### Question 1 Response

Room 101, Sink #3 - The room number may be the cause of some confusion. The sink is located on west side of the wall separating rooms 101 and 170. There was a water fountain, not Sink #2, to the south of the sink that was previously removed.

The comment "under evaluation" was in the notes section of the equipment list because there was confusion on whether or not the drain went to a sanitary or process waste drain line. Investigation indicates that the sink drains to a process waste line. This is shown on Detail 24 of Drawing 25838-0028, "Replace Uninspectable Process Waste System." The sink was used for sanitary purposes and is clearly labeled as such. Connection to the process waste line was done as a matter of convenience. The drain lines will be removed and disposed of as hazardous process waste. The sink will be disposed of as sanitary, low level waste. The work steps in the package will be changed accordingly.

Room 101B, PW Sump - This item is shown on the CDD drawing, but the room number is not listed in the text. The sump will be removed as part of the PW package and is an addition to the CDD room list.

Room 101H, UL Sump - The room number should be listed as T101H. This item is shown on the CDD drawing, but the room number is not listed in the text. The sump will be removed as part of the PW package and is an addition to the CDD room list.

Question 2 - Is there a fourth sink in room 109B as shown on the floor plan with the CDD? If so, why is this not included in the work package?

#### Question 2 Response

Room 109B, Sinks 1-3 - The work package lists 3 sinks and there are 3 sinks numbered on the CDD drawing. Sink #2 is actually 2 sinks installed as a double sink. The double sink will be removed as 1 unit. (Photographs were provided to the State).

On March 3, 2003, at 1101, the State (Hindman) had an additional question related to the items in Room 143. Specifically, the text in the work document states that the sink is a process waste sink - all other documents list this as a sanitary sink. Is this a typo?

On March 3, 2003, at 1129, the State (Hindman) was contacted and was informed that this was a typo, and that it is a sanitary sink. Based on this, State (Hindman) concurrence was provided to complete the activities (process waste removal) for the remainder of the first floor of Building 444 as described in T0110699. In addition, the State (Hindman) asked to resolve discrepancies related to why the Work Package lists 22 tanks in Room

212, while the CDD lists 23, and the Work Package lists 14 tanks in Room 245, while the CDD lists 34. Responses to these two items were emailed to the State (Hindman) on March 17, 2003, at 1459 and are summarized as follows:

The information provided on the drawings dated 1994 listing the total number of sinks/tanks (23 UL Sinks for room 212 and 34 Tanks for room 245). These numbers could not be reconstructed to account for the delta between the drawings and the remaining pieces of equipment located in place to be removed.

The following describes the remaining pieces of equipment to be removed from room 212 and room 245

Room 212 has 18 individual pieces of equipment. In the Nickel Plating line, NDT # 2321 has a partition, which could be classified as having 2 tanks similar to the Cascade Rinse line, NDT # 2338 and the Cyanide Plating line NDT # 2342, 2343 and 2344. If this were the case, we would have 23 tank in 18 pieces of equipment plus 2 Process Waste Sinks.

Room 245 has only 21 tanks plus 2 Process Waste Sinks. There are no partitions in any tank except for the Branson Degreaser which has a very small partition at the bottom of the tank. It cannot be classified as having 2 tanks. A drawing (27780-0010) for Rm 245 shows Line 1 installed with 10 tanks. Line 1 has been removed. The 34 tanks listed on the CDD drawing cannot be matched. If all the lines were operational, there could have been a total of 38 tanks in Room 245.

On March 3, 2003, at 1449, the State (Hindman) had the following question related to the remaining items listed for Building 444 in Work Package T0110699. Responses to these questions were emailed to the State (Hindman) on March 17, 2003, at 1459.

**Question 1** - The Closure Description Document (CDD) shows additional items that might be or are process waste equipment, including:

- Process Waste (PW) Sumps #1, #2, #3, & #4, Roll Filter, and RCRA Tank in Room 1;
- Unlabeled (UL) Sink in Room 3;
- PW Sumps #2 & #3 in Room 8;
- UL Floor Drain in Room 9;
- PW Sumps #5 & #6 in Room 10;
- UL Sink in Room 11;
- UL Sinks #1 & #2 in Room 101F;
- PW Sinks #1 & #2 in Room 106;
- PW Sinks #1 & #2 in Room 107B;
- UL Sink in Room 109;
- Funnel Drain in Room 143H;
- UL Floor Drain in Room 203; and
- UL Floor Drain #3 in Room 204.

What is the status of these items? What are the plans for their disposition?

**Question 1 Responses -**

**Room 1, PW Sumps #1, #2, #3, #4, Roll Filter & RCRA Tank**

These items were evaluated to be Process Waste equipment required to support building operations until D&D. Prior to facility demolition they will be removed as Process Waste and disposed of as LLMW.

NOTE: A Work Package will be developed for the removal of all remaining essential Process Waste Equipment not covered by T0110699. In addition a Work Package will be developed for the removal of all sanitary waste systems from the B444 complex.

**Room 3, Unlabeled (UL) Sink**

This unit is labeled and drains to the Sanitary Waste System. This unit will be covered by a Work Package for the removal of the B444 Facility Sanitary Waste Systems.

**Room 8, PW Sumps #2 & #3**

These items were evaluated to be Process Waste equipment required to support building operations until D&D. Prior to facility demolition these sumps will be removed as Process Waste and disposed of as LLMW.

**Room 9, UL Floor Drain**

Labeled PROCESS WASTE. Currently used as drain for "B" Sprinkler System at the fire line entry into the building. After the sprinkler system is deactivated and isolated the drain will be removed prior to facility demolition.

**Room 10, PW Sumps #5 & #6**

These items were evaluated to be Process Waste equipment required to support current building operations until D&D. Prior to facility demolition these sumps will be removed as Process Waste and disposed of as LLMW.

**Room 11, UL Sink**

Listed on Process Sinks, Sumps and Ancillary Equipment Location drawing as a Water Fountain. The water fountain was located between the sink and the sump and was removed earlier by the facility. (Photograph was provided to the State showing that potable water supply and drain are capped).

**Room 101F, UL Sinks #1 & #2**

Sanitary Waste, restroom wash sinks. These units will be covered by the Work Package to be developed for the removal of the B444 Facility Sanitary Waste Systems.

**Room 106, PW Sinks #1 & #2**

PW Sink #1 is a Hand Wash Fountain and will be handled as Sanitary Waste. PW Sink #2 was an unlabeled Utility Sink, which has been confirmed to be a Process Waste Sink. This sink has been added to the existing building equipment list of items to be removed prior to

Contact Record 04/08/03

D&D. At that time the sink will be handled as Process Waste along with the remaining Process Waste items required to support current building operations.

Room 107B, PW Sink #1 & #2

The Delta Sonic cleaning station, which has two sinks or tanks in the unit, this unit has been added to the existing building equipment list of items to be removed prior to facility demolition. At that time the sink will be handled as Process Waste along with the Process Waste items required supporting current building operations.

Room 109, UL Sink

The UL Sink is actually a holding tank and part of the UL Sump. This tank will be removed along with the sump in Work Package, T0110699. (Photograph was provided to the State).

Room 143H, Funnel Drain

The funnel drain (air gap drain for backflow preventers) was previously removed by the facility. (Photograph was provided to the State showing the backflow preventer drain line).

Room 203, UL Floor Drain

The floor drain was sealed with grout previously by the facility.

Room 204, UL Floor Drain

The floor drain was sealed with grout previously by the facility.

**Question 2** - The "Hot Side Process Waste Equipment List, Bldg 444" in Appendix 7 of Work Package T0110699 includes the following items that are not included in the CDD:

Item #4 described as "Sink" in Room 203; and

Item #3 described as "Sink (Branson Degreaser)" in Room 245.

What is the status of these items? Are they Process Waste related?

Will they be disposed of as hazardous/mixed waste?

**Question 2 Response**

Room 203, Item # 4

Item # 4 is a cleaning station similar to PW Sink # 5 & #6 and is piped to the same PW drain as sinks # 5 & # 6. (Photograph was provided to the State). This will be removed with sinks # 5 and # 6 and disposed of as LLMW under this Work Package (T0110699).

Room 245, Item #3, Sink (Branson Degreaser)

The Degreaser was evaluated to be part of the equipment listed for Room 245 on the Process Sinks, Sumps, and Ancillary Equipment Location drawing. Revised the description on the Equipment List and Work Instructions to Branson Degreaser, eliminated the reference to Sink. This unit will be removed under this Work Package (T0110699) and disposed as LLMW.

Contact Record 04/08/03

**Question 3** - For the work instructions for Room 203, the work instructions appear to have been inadvertently switched for items #2 and #3 as listed on the "Hot Side Process Waste Equipment List, Bldg 444."

**Question 3 Response**

Agree the Equipment list has been revised to match the Work Instructions; Room 203 items 2 and 3 have been reversed.

**Question 4** - LO/TO Sketch SK-444-PW-MECH-245 shows valve PA-V-1 twice. It appears that one of these valves should be labeled PA-V-2.

**Question 4 Response**

Corrected LO/TO sketch SK-444-PW-MECH-245.

On April 3, 2003, at 1030, a cross-walk matrix listing what items were included in the CDD and Work Package T0110699 was provided to the State (Hindman). During this meeting, it was agreed that additional process waste items could be added to the CDD utilizing the Consultative Process, and documenting this in a contact record.

On April 4, 2003, at 1451, the State (Hindman) agreed that all of his comments associated with Work Package T0110699 had been adequately addressed, and concurred with the removal of the remaining items listed in Appendix 7 of Work Package T0110699.

On April 8, 2003, at 1155, the State (Hindman) agreed that all of the process waste items in Work Package T0110699 that were not specifically included in the CDD are now added to the scope of work covered by the CDD as documented in this contact record.

**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H  
C. Zahm, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 44**  
**Contact Record, April 10, 2003**

**CDPHE concurrence on Work Package T0110697 – Remove Process  
Waste Equipment from Building 447**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 04/10/03 - 1654  
**Site Contact(s):** C. J. Freiboth (KH) - (CJF-054)  
**Phone:** (303) 966-2823  
**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345  
**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110697 -  
Remove Process Waste Equipment from Building 447

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**Meeting Attendance**

C. J. Freiboth, KH PM      James Hindman, CDPHE

**Discussion**

On October 23, 2002, at 1355, a copy of Work Package T0110697 - Remove Process Waste Equipment from Building 447, was provided to the State (Hindman).

On December 13, 2002, at 1635, the State (Hindman) provided questions related to the work described in T0110697. These questions are summarized below. Responses to these questions were provided to the State (Hindman) on Monday, December 23, 2002, at 0812. Photographs and requested forms were also provided on December 23, 2002, at 0812.

I have finished reviewing the work package titled "Remove Process Waste (PW) Equipment from Building 447" (Work Tracking No. T0110697). I concur with the work described therein for the following items: Items #2 & #3 (PW sump and sink in Room 401); Item #10 (PW sink in Room 407); Item #11 (PW sump in Room 420A); and Items #13 & #14 (PW sink and floor drain #1 in Room 501). For the remaining items in the work package, I request additional photos of the PW lines and termination points, or a tour to walk down the items. Additionally, I have the following questions about the work package:

1. **QUESTION** – Why are the following PW items (which are shown on the floor plan in the related CDD) not included in this work package: PW sumps #1 & #3 in Room 31A; PW sink in Room 401A; PW sump in Room 31; and PW sump near the stairway in Room 406A?

**RESPONSE** - The PW Sump #1, Room 31, is still required for building operation. It is used to collect liquid from PW Sump #1 in Room 31A (collects liquid from the return air plenum), the PW Sump in the stairwell of Room 406A (drains liquid in the elevator pit) and pumps the liquid to B444 Process Waste system. Items required to maintain building operations have been identified to be removed when all building essential equipment is removed.

PW Sump #3, Room 31A, is the Chip Shredder Tank. See answer to question #2.

PW Sump, Room 401A, was a water fountain and has been removed.

2. **QUESTION** – The work instructions in Appendix 7 for Item #1 (PW sump #2) in Room 31A mentions a “Chip Shredder Tank located in Room 31B” The floor plans I have do not show Room 31B – where is it? Additionally, provide a description of the Chip Shredder Tank including its regulatory status, materials/wastes managed within it, and how it was used.

**RESPONSE** – “Room 31B” is a typo and has been corrected in the instructions. The tank is located in Room 31A.

The Chip Shredder Tank was identified in the CDD as PW Sump #3. This tank was used to hold rinse water. It is not a true tank, but rather a tub type apparatus. The rinse water in the tank was pumped to a spray nozzle in the chute from Room 502 to the Shredder mounted on the tank. The water was used to rinse stainless steel shavings before it was shredded and carried on a conveyor from the tank to the calciner where the residual solvents/oils were burned off. When the water became too dirty to use, it was drained down the process waste system, and fresh water was then introduced to the spray unit and the process was repeated. The tank cannot be removed until the shredder and conveyor are removed. (Photographs were provided to the State). Sump #3 is part of Unit 40, and it will be removed as part of the process waste system. This piece of equipment is considered ancillary equipment associated with Unit 40, and is not considered a tank. Hence, its status is Interim Status, like the rest of Unit 40.

3. **QUESTION** – What is meant by the phrase “accessibility problem” for the work instructions in Appendix 7 for work in Room 405? Does this mean the PW sump (pit) in Room 405 will not be entered?

**RESPONSE** – The PW Sump (pit), Room 405, is in the Arc Furnace pit. The pit is confined space, Beryllium contaminated and an airborne contamination area (ACA). Entry into the pit was not permitted when the process waste equipment in B447 was walked down.

4. **QUESTION** – The work instructions in Appendix 7 do not mention any work to be conducted in Room 405B. However, a photo in the work package indicates that work will be conducted in Room 405B. Are some instructions missing?

**RESPONSE** – This photograph has been removed from the work instructions. No process waste removal activities will occur in Room 405B.

5. **QUESTION** – Has the form “Process Waste Sump Hazard Evaluation for Hot Side Process Waste Equipment, Bldg 447” been completed yet? Please provide a copy of this form when completed.

**RESPONSE** - The form “Process Waste Sump Hazard Evaluation for Hot Side Process Waste Equipment, Bldg. 447” is filled out by the Industrial Hygienist before work starts on each individual item. It will be completed as a work step similar to those in Sections 8 and 9 of the IWDP. Attached is a copy of the now completed form.

On December 18, 2002, at 1030, a walkdown of various process waste items discussed in T0110697, was conducted with the State (Hindman).

On December 26, 2002, at 1410, during a meeting with the State (Hindman), a request was made for additional information related to Building 447 process waste items in Room 31A (sump #2) and the Room 405 Pit. Included was a request for additional photographs.

On December 26, 2002, at 1432, during a meeting with the State (Hindman), concurrence was provided to conduct the activities (process waste removal) for all items described in Work Package T0110697 with the exception of Process Waste sump #2 in Room 31A and the Room 405 pit. The State (Hindman) requested additional information / photographs related to the sump and Room 405 process waste items.

On January 2, 2003, at 0624, an email with photographs and additional information, including work instruction changes, on the Room 31A (sump #2) and the Room 405 Pit was sent to the State (Hindman).

On April 3, 2003, at 1030, a cross-walk matrix listing what items were included in the CDD and Work Package T0110697 was provided to the State (Hindman). During this meeting, it was agreed that additional process waste items could be added to the CDD utilizing the Consultative Process, and documenting this in a contact record.

On April 10, 2003, at 1654, the State (Hindman) concurred with the removal of the remaining items listed in Appendix 7 of Work Package T0110697, including changes to the work instructions submitted on January 2, 2003.

**Contact Record Prepared By: C. J. Freiboth**

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**Required Distribution:**

P. Arnold, K-H

C. Deck, K-H

R. DiSalvo, RFFO

C. Gilbreath, K-H

S. Gunderson, CDPHE

T. Hopkins, K-H

L. Kilpatrick, K-H

J. Legare, RFFO

R. Leitner, K-H

J. Mead, K-H

S. Nesta, K-H

K. North, K-H

W. Prymak, DOE

T. Rehder, USEPA

D. Shelton, K-H

C. Zahm, K-H

**Additional Distribution:**

C. J. Freiboth, K-H

J. Hindman, CDPHE

S. Tower, DOE

**Article 45**  
**Contact Record, August 7, 2003**

**CDPHE concurrence on Modification to Closure Decision Document  
(CDD) for Partial Closure of Unit 40**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 08/07/03 - 1530

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-067)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) Concurrence on Modification to Closure Decision Document (CDD) for Partial Closure of Unit 40

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**Meeting Attendance:** C. J. Freiboth, KH PM James Hindman,  
CDPHE

**Discussion**

On August 7, 2003, at 1530, during a Building 444 focus meeting, the status of closure activities related to the Acid Waste System and Cyanide Waste System in Building 444/447 (Unit 40) were discussed with the State (Hindman). The original intent for this unit was to "Clean Closure by Decontamination." The State agreed that the requirements discussed in the January 13, 2003, Conditional Approval Letter for the CDD of this unit were met within the 180 days as required in the correspondence. It has been determined, however, that even though the requirements for Clean Closure by Decontamination were met (with the exception of the Professional Engineer concurrence), the items in the unit will be "Closed By Removal." The State concurred with this modification to the CDD requirements.

**Contact Record Prepared By:** C. J. Freiboth

---

**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE  
D. Maxwell, DOE

Contact Record 08/07/03

**Article 46**  
**Contact Record, October 28, 2003**

**CDPHE concurrence on Mechanical Disconnection and Dismantlement  
of Building 447 Room 403 Furnaces in accordance with T0110799-217**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 10/28/03 - 1000  
**Site Contact(s):** C. J. Freiboth (KH) - (CJF-068)  
**Phone:** (303) 966-2823  
**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345  
**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) Concurrence on Mechanical Disconnection and Dismantlement of Building 447 Room 403 Furnaces In Accordance With T0110799-217

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**Meeting Attendance:** C. J. Freiboth, KH PM James Hindman, CDPHE

**Discussion**

On October 28, 2003, at 1000, the State (Hindman) concurred that work activities associated with the mechanical disconnection and dismantlement of the Building 447 Room 403 Vacuum Furnaces could be initiated. Work activities will be conducted in accordance with Work Document T0110799-217.

**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

M. Aguilar, USEPA	L. Kilpatrick, DOE	R. Schassburger, DOE
S. Bell, DOE	G. Kleeman, USEPA	D. Shelton, KH
R. Birk, DOE	D. Kruchek, CDPHE	C. Zahm, KH
C. Deck, KH	J. Legare, RFFO	
D. Foss, KH	R. Leitner, KH	<b>Additional</b>
C. Gilbreath, KH	D. Maxwell, DOE	<b>Distribution:</b>
S. Gunderson, CDPHE	J. Mead, KH	C. J. Freiboth, KH
	S. Nesta, KH	J. Hindman, CDPHE
	K. North, KH	S. Tower, DOE
	T. Rehder, USEPA	

**Article 47**  
**Contact Record, November 3, 2003**

**CDPHE concurrence on Removal of Building 444 Exterior Carbon  
Hopper System and Plenum 455.**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 11/03/03 - 1615

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-069)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) Concurrence on Removal of Building 444 Exterior Carbon Hopper System and Plenum 455

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**Meeting Attendance:** C. J. Freiboth, KH PM James Hindman,  
CDPHE

**Discussion**

On November 3, 2003, at 1615, upon completing a review of radiological and beryllium contamination survey data, the State (Hindman) concurred that the Building 444 Exterior Carbon Hoppers and Plenum 455 could proceed. These items are considered to be equipment and may be removed using the Property / Waste Release Evaluation (P/WRE) Process.

**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
C. Gilbreath, KH  
S. Gunderson, CDPHE

L. Kilpatrick, DOE  
G. Kleeman, USEPA  
D. Kruchek, CDPHE  
J. Legare, RFFO  
R. Leitner, KH  
D. Maxwell, DOE  
J. Mead, KH  
S. Nesta, KH  
K. North, KH  
T. Rehder, USEPA

R. Schassburger, DOE  
D. Shelton, KH  
C. Zahm, KH

**Additional  
Distribution:**

C. J. Freiboth, KH  
J. Hindman, CDPHE  
S. Tower, DOE

**Article 48**  
**Contact Record, November 5, 2003**

**CDPHE concurrence on Removal of Auxiliary Equipment Associated  
with the Room 405 Arc Melt Furnace and Room 405B Retch Arc  
Furnace**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 11/05/03 - 0915

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-070)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) Concurrence on Removal of Auxiliary Equipment Associated with the Room 405 ARC MELT Furnace and Room 405B RETECH ARC Furnace

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**Meeting Attendance:** C. J. Freiboth, KH PM James Hindman, CDPHE

**Discussion**

On November 5, 2003, at 0915, the State (Hindman) concurred that the removal of auxiliary equipment associated with the Room 405 ARC MELT Furnace and Room 405B RETECH ARC Furnace could be initiated. This includes the removal of hoses, piping, small pumps as well as necessary liquid draining. Removal of the large portions of the furnaces that were used for processing production materials (beryllium and uranium) and large structural components are specifically excluded until further review and concurrence by the State.

**Contact Record Prepared By:** C. J. Freiboth

---

**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deek, KH  
D. Foss, KH  
C. Gilbreath, KH  
S. Gunderson, CDPHE  
L. Kilpatrick, DOE

G. Kleeman, USEPA  
D. Kruchek, CDPHE  
J. Legare, RFFO  
R. Leitner, KH  
D. Maxwell, DOE  
J. Mead, KH  
S. Nesta, KH  
K. North, KH  
T. Rehder, USEPA  
R. Schassburger, DOE

D. Shelton, KH  
C. Zahm, KH

**Additional Distribution:**  
C. J. Freiboth, KH  
J. Hindman, CDPHE  
S. Tower, DOE

184

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**Article 49**  
**Contact Record, December 4, 2003**

**CDPHE concurrence on Modification to Closure Decision Document  
(CDD) for Partial Closure of Unit 40**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 12/04/03 - 1545  
**Site Contact(s):** C. J. Freiboth (KH) - (CJF-071)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) Concurrence on Modification to Closure Decision Document (CDD) for Partial Closure of Unit 40

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**Meeting Attendance:** C. J. Freiboth, KH PM James Hindman,  
CDPHE

**Discussion**

On December 4, 2003, at 1545, during a Building 444 focus meeting, the status of closure activities related to the tanks in Building 444/447 Unit 40 were discussed with the State (Hindman). The original intent for tanks T-4 (Unit 40.35), ST-5 (Unit 40.36), and Filter Sock Tank, and T-6 (Unit 40.37) was "Clean Closure by Decontamination." It has been determined, however, that because of the size and material composition of these tanks, they will be "Closed By Removal." The State concurred with this modification to the CDD requirements.

**Contact Record Prepared By:** C. J. Freiboth

---

<b>Required Distribution:</b>	G. Kleeman, USEPA	D. Shelton, KH
M. Aguilar, USEPA	D. Kruchek, CDPHE	C. Zahm, KH
S. Bell, DOE	J. Legare, RFFO	
R. Birk, DOE	R. Leitner, KH	<b>Additional</b>
C. Deck, KH	D. Maxwell, DOE	<b>Distribution:</b>
D. Foss, KH	J. Mead, KH	C. J. Freiboth, KH
C. Gilbreath, KH	S. Nesta, KH	J. Hindman, CDPHE
S. Gunderson, CDPHE	K. North, KH	G. Morgan, DOE
L. Kilpatrick, DOE	R. Schassburger, DOE	K. Shuler, RFCSS

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**Article 50**  
**Contact Record, February 18, 2003**

**CDPHE concurrence on Work Package T0112179 – Install Two Doors  
in Room 101 (West Wall), Building 444**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 02/18/04 - 1701

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-072)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) Concurrence on Work Package T01112178 -  
Install Two Doors In Room 101 (West Wall), Building 444

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**Meeting Attendance:** C. J. Freiboth, KH PM James Hindman,  
CDPHE

**Discussion**

On February 12, 2004, at 1530, during a Building 444 focus meeting, a copy of Work Package T01112178 - Install Two Doors In Room 101 (West Wall), Building 444, was provided to the State (Hindman) for review and concurrence.

On February 18, 2004, at 1701, the State (Hindman) concurred with the work package with a noted comment.

**Contact Record Prepared By:** C. J. Freiboth

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**Required Distribution:**

M. Aguilar, USEPA	D. Kruchek, CDPHE
S. Bell, DOE	J. Legare, RFFO
R. Birk, DOE	R. Leitner, KH
C. Deck, KH	D. Maxwell, DOE
D. Foss, KH	J. Mead, KH
C. Gilbreath, KH	S. Nesta, KH
S. Gunderson, CDPHE	K. North, KH
L. Kilpatrick, DOE	R. Schassburger, DOE
G. Kleeman, USEPA	D. Shelton, KH

C. Zahm, KH

**Additional  
Distribution:**

C. J. Freiboth, KH  
J. Hindman, CDPHE  
G. Morgan, DOE  
K. Shuler, RFCSS

**Article 51**  
**Contact Record, March 11, 2004**

**Disposition of Embedded Unistrut, Electrical Conduit and Outlet  
Receptacles, and Junction Boxes, Building 444 Complex**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 03/11/04 - 1445  
**Site Contact(s):** C. J. Freiboth (KH) - (CJF-073)  
**Phone:** (303) 966-2823

**Regulatory Contact:** David Kruchek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

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**Purpose of Contact:** Disposition of Embedded Unistrut, Electrical Conduit and Outlet Receptacles, and Junction Boxes, Building 444 Complex

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**Meeting Attendance:** C. J. Freiboth, KH PM      David Kruchek, CDPHE

**Discussion**

On March 11, 2004, at 1445, during a Building 444 Complex focus meeting, a discussion was held with the State (Kruchek) regarding the appropriate disposition of embedded unistrut, electrical conduit and outlet receptacles, and junction boxes in relation of final building disposition. Removal of these items during dismantlement activities or during facility demolition is not feasible. The State (Kruchek) concurred that these items could be dispositioned by performing the following: (1) decontaminating / wet wiping the embedded items, (2) taking removable radiological smears and beryllium smears, (3) if radiological smears were negative (meet PDS free release criteria) then spray them with an appropriate fixative such as firedam. Debris with embedded unistrut, electrical conduit and outlet receptacles, and junction boxes, will not be recycled on site, but will be properly characterized and disposed off-site.

**Contact Record Prepared By:** C. J. Freiboth

---

**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
C. Gilbreath, KH  
S. Gunderson, CDPHE  
L. Kilpatrick, DOE  
G. Kleeman, USEPA

D. Kruchek, CDPHE

J. Legare, RFFO  
R. Leitner, KH  
D. Maxwell, DOE  
J. Mead, KH  
S. Nesta, KH  
K. North, KH  
R. Schassburger, DOE  
D. Shelton, KH  
C. Zahm, KH

**Additional**

**Distribution:**

C. J. Freiboth, KH  
J. Hindman, CDPHE  
G. Morgan, DOE  
D. Parsons, KH  
K. Shuler, RFCSS

**Article 52**  
**Contact Record, July 26, 2004**

**Disposition of Building 447 Attic / Former Exterior Roof, Building 444  
Complex**

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

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**Date/Time:** 07/26/04 - 0815  
07/15/04 - 1445

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-075)  
**Phone:** (303) 966-2823

**Regulatory Contact:** David Kruchek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

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**Purpose of Contact:** Disposition of Building 447 Attic / Former Exterior Roof, Building 444 Complex

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**Meeting Attendance:** C. J. Freiboth, KH PM                      David Kruchek, CDPHE  
Steve Nesta, KH    Harlan Ainscough, CDPHE

### Discussion

On July 15, 2004, at 1445, during a Building 444 Complex focus meeting, a discussion was held with the State (Kruchek) regarding the appropriate disposition of radiological and beryllium contamination on the former Building 447 exterior roof which is now located in an open air attic (currently open to the environment). This attic was created when a new roof was placed over the old Building 447 structure. Specifically, Work Package T0111828-156 was discussed. The plan is to remove exterior roof panels to gain access to the attic area where the contamination will be vacuumed and/or cut out. Removal of the roofing panels is necessary as the attic area has a maximum height of 3.5 feet, and tapers down to a few inches. Since the area is currently open to the atmosphere via slotted louvers on both the east and west side of the structure, the State (Kruchek) concurred that the approach to remove roofing panels to gain access for roof decontamination were appropriate measures to be taken. This concurrence is based on the facility taking appropriate measures to prevent release of beryllium and radiological contamination to the environment while conducting all work activities. Additionally, the opened / exposed areas will be covered when workers are not in the workspace. Additional comments to the work document made by the State (Kruchek) will be also be incorporated.

On July 26, 2004, at 0815, a subsequent contact with the State (Kruchek) included conversations related to ensuring that Section 3.8.1 of the RSOP for Component Removal, Size Reduction, & Decontamination Activities are addressed. This is addressed as follows:

- (1) Relative Cost – Because of the limited vertical height in the attic, the heat in that area, and the concern over having individuals decontaminate and/or demolish the area by working below, it is not feasible to decontaminate this area while keeping the roof in tack. Personnel in PPE, on their stomachs, in the heat are a significant concern.

Contact Record 07/26/04

192

- (2) Structural Evaluation – The work package (T0111828-156) will be reviewed and signed off by a structural PE.
- (3) Air Emissions - Both ends of the attic area are currently open to the environment via slotted louvers and this activity should not result in the generation of additional dust, however, appropriate measures will be taken to prevent or minimize the potential for releases of contamination during this activity. These measures are discussed in the work package and include water spray in the work area to control dust.
- (4) Dust Generation – Both ends of the attic area are currently open to the environment via slotted louvers and these activities should not result in the generation of additional dust, however, appropriate measures will be taken to prevent or minimize the potential for releases of contamination during this activity. These measures are discussed in the work package and include water spray in the work area to control dust.
- (5) Impacts to Surface Water – This activity will not impact surface or ground water, as large volumes of dust suppression (water) will not be used.
- (6) Impacts to Migratory Bird – A survey was conducted and the removal of these panels will not impact migratory birds or their nests.

Contact Record Prepared By: C. J. Freiboth

**Required Distribution:**

M. Aguilar, USEPA  
 S. Bell, DOE  
 R. Birk, DOE  
 C. Deck, KH  
 D. Foss, KH  
 S. Garcia, EPA  
 C. Gilbreath, KH  
 S. Gunderson, CDPHE

D. Kruchek, CDPHE

J. Legare, RFFO

R. Leitner, KH

J. Mead, KH

G. Morgan, DOE

S. Nesta, KH

K. North, KH

R. Schassburger, DOE

D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE

C. J. Freiboth, KH

D. Parsons, KH

K. Shuler, RFCSS

193

**Article 53**  
**Contact Record, August 6, 2004**

**Building 447 Areas 1 & 1 Pre-Demolition Survey (PDS) Data  
Disposition**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 08/06/04 - 1002  
08/05/04 - 1015  
08/04/04 - 1315

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-076)  
**Phone:** (303) 966-2823

**Regulatory Contact:** David Kruczek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

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**Purpose of Contact:** Building 447 Areas 1 & 2 Pre-Demolition Survey (PDS) Data Disposition

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**Meeting Attendance:** C. J. Freiboth, KH PM                      David Kruczek, CDPHE  
D. Parson, KH    Karl Shuler, RFCSS

**Discussion**

On August 04, 2004, at 1315, during a Building 444 Complex focus meeting, a discussion was held with the State (Kruczek) regarding the radiological and beryllium final pre-demolition survey (PDS) data for Areas 1 and 2 in Building 447. Specifically, the data was summarized and reviewed with the State (Kruczek). Copies were then provided for the State's more detailed review. The Building 444 Complex would like to initiate exterior asbestos transite removal in areas where the PDS has been completed prior to completion and submission of the final PDS Report (PDSR).

On August 05, 2004, at 1015, a tour of the Building 447 Areas 1 and 2 (reviewed the day before) was conducted with the State (Kruczek).

On August 06, 2004, at 1002, the State (Kruczek) agreed that the PDS for Areas 1 and 2 is appropriate, and that removal of the outside ACM transite panels could proceed in these areas of Building 447. This agreement is based on the information provided to the State (Kruczek), which indicates that all of the contamination has been remediated, properly fixed or is fixed, with no removable contamination that could be released. Additionally, there is appropriate physical separation between Areas 1 and 2 and the rest of Building 447, which allows for the removal of the transite panels without affecting other areas of the building that does not have a completed PDS.

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, EPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE

J. Legare, RFFO

R. Leitner, KH

J. Mead, KH

G. Morgan, DOE

S. Nesta, KH

K. North, KH

R. Schassburger, DOE

D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE

C. J. Freiboth, KH

D. Parsons, KH

K. Shuler, RFCSS

**Article 54**  
**Contact Record, August 26, 2004**  
**Building 444 Exterior Transite Removal in Support of Building 448**  
**Demolition**

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

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**Date/Time:** 08/26/04 – 1500

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-078)  
**Phone:** (303) 966-2823

**Regulatory Contact:** David Kruchek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

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**Purpose of Contact:** Building 444 Exterior Transite Removal in Support of Building 448 Demolition

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**Meeting Attendance:** C. J. Freiboth, KH PM                      David Kruchek, CDPHE  
Karl Shuler, RFCSS

### Discussion

On August 26, 2004, at 1500, during a Building 444 Complex focus meeting, a discussion was held with the State (Kruchek) regarding the radiological and beryllium final pre-demolition survey (PDS) data for Building 448. Specifically, the data was discussed showing that the facility has meet the free release criteria for both radiological and beryllium contamination. The Building 444 Complex then requested authorization to remove transite panels exterior to Building 444, which would physically create a separation between Building 444 and 448, in preparation for the demolition of Building 448. It also is being removed to prevent damage to the panels during demolition of Building 448. Removal of these panels would create no pathways to the environment from Building 444, as the interior is covered with plywood and plastic. Any openings created into Building 448 resulting from the removal of the Building 444 panels would then be sealed.

Information related to six (6) points discussed in Section 3.8.1 of the RSOP for Component Removal, Size Reduction, & Decontamination Activities were then presented and discussed with the State (Kruchek).

Following the conversations related to the panel removal, a walkdown with the State (Kruchek) was conducted to show specifically what was being requested.

Upon completion of the walkdown and based on the information presented, the State (Kruchek) concurred with the removal of the panels.

Contact Record Prepared By: C. J. Freiboth

**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, EPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE  
J. Legare, RFFO  
R. Leitner, KH  
J. Mead, KH  
G. Morgan, DOE  
S. Nesta, KH  
K. North, KH  
R. Schassburger, DOE  
D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE  
C. J. Freiboth, KH  
D. Parsons, KH  
K. Shuler, RFCSS

**Article 55**  
**Contact Record, August 30, 2004**

**Building 447 Attic Pre-Demolition Survey (PDS) Data Disposition**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 08/30/04 - 0852  
08/26/04 - 1400

**Site Contact(s):** C. J. Freiboth (KH) - (CJF-080)  
**Phone:** (303) 966-2823

**Regulatory Contact:** David Kruczek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

---

**Purpose of Contact:** Building 447 Attic Pre-Demolition Survey (PDS) Data Disposition

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**Meeting Attendance:** Cameron Freiboth, KH                      Karl Shuler, RFCSS  
David Kruczek, CDPHE

**Discussion**

On August 26, 2004, at 1400, during a Building 444 Complex meeting, a discussion was held with the State (Kruczek) regarding radiological and beryllium final pre-demolition survey (PDS) data for the attic of Building 447. This conversation is summarized as follows:

Building 447 (B447) is a structural steel building with an exterior skin of transite panels. These panels are non-friable Category 2 asbestos containing materials (ACM) that must be removed prior to demolition. The overall plan is remediate the friable ACM, beryllium and radiological contaminants in the building's rooms so that the exterior transite panels can be removed, and the building structure can be demolished.

B447 has a pitched metal roof covering an original flat (built-up) roof. An attic was created when the new metal pitched roof was placed over the old roof. Work Package T011828-156 was used to remove exterior roof panels to gain access to the attic at the east end of the building where beryllium contamination had been discovered in the dust and debris on top of the built-up roofing membrane (i.e., the top surface of the old roof). The dust and debris was vacuumed up and Residlock fixative applied to the surface of the membrane. A post-fixative beryllium survey was conducted, and all sample results were  $<0.1 \text{ ug}/100 \text{ cm}^2$ .

The roof membrane appeared to be in good condition. There were no readily visible cracks or holes, so Industrial Hygiene did not believe that there was any beryllium contamination beneath the membrane. The radiological survey data was below the action levels. Applying the Residlock fixative was the same method that would have been used had contamination been discovered in a routine survey of any other floor area in the building.

Contact Record 08/30/04

On August 30, 2004, at 0852, a follow-up conversation with the State (Kruczek) was held related to the Building 447 attic area. Since the area is currently open to the atmosphere via slotted louvers on both the east and west side of the structure, the State (Kruczek) concurred that the approach to remove the transite panels at the attic gables were appropriate measures to be taken. This concurrence is based on the facility taking appropriate measures to prevent release of beryllium and radiological contamination to the environment while conducting all work activities.

Additional points of the conversation was related to ensuring that Section 3.8.1 of the RSOP for Component Removal, Size Reduction, & Decontamination Activities and are summarized as follows:

- (1) Relative Cost – N/A. The non-friable Category 2 transite must be removed before the structure can be demolished.
- (2) Structural Evaluation – Removal of the exterior transite panels from B447 poses no loss of integrity to the structural steel frame of the building.
- (3) Air Emissions - Both ends of the attic area are currently open to the environment via slotted louvers and this activity should not result in the generation of additional dust, however, appropriate measures will be taken to prevent or minimize the potential for releases of contamination during this activity. These measures are discussed in the work package and include water spray in the work area to control dust. Personnel monitoring for asbestos will be conducted during transite removal. Radiological Control Technicians will monitor for rad contamination between the structural steel frame and the transite panels when they are removed.
- (4) Dust Generation – Both ends of the attic area are currently open to the environment via slotted louvers and these activities should not result in the generation of additional dust, however, appropriate measures will be taken to prevent or minimize the potential for releases of contamination during this activity. These measures are discussed in the work package and include water spray in the work area to control dust. The potential for dust generation is low. Loose material has been removed (cleaned and vacuumed). Panel removal is not expected to create any dust as the panels are unbolted during removal, instead of being crushed or demolished.
- (5) Impacts to Surface Water – This activity will not impact surface or ground water, as large volumes of dust suppression (water) will not be used.

(6) Impacts to Migratory Bird – A survey was conducted and the removal of these panels will not impact migratory birds or their nests.

Contact Record Prepared By: C. J. Freiboth

---

**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, EPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE  
J. Lègare, RFFO  
R. Leitner, KH  
J. Mead, KH  
G. Morgan, DOE  
S. Nesta, KH  
K. North, KH  
R. Schassburger, DOE  
D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE  
C. J. Freiboth, KH  
D. Parsons, KH  
K. Shuler, RFCSS

**Article 56**  
**Contact Record, September 1, 2004**  
**Building 447, Room 503 Pre-Demolition Survey (PDS) Data**  
**Disposition**

204

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 09/01/04 – 0750 & 0921  
08/30/04 – 0730 & 0830  
08/24/04 - 1430

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-079)  
**Phone:** (303) 966-2823

**Regulatory Contact:** David Kruchek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

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**Purpose of Contact:** Building 447 Room 503 Pre-Demolition Survey (PDS) Data Disposition

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**Meeting Attendance:**

David Kruchek, CDPHE	Karl Shuler, RFCSS
Duane Parsons, KH	Cameron Freiboth, KH

**Discussion**

Building 447 (B447) is a structural steel building with an exterior skin of transite panels. These panels are non-friable, Category 2 asbestos containing materials (ACM) that must be removed prior to demolition of the facility. The overall plan is to remediate the friable ACM, beryllium and radiological contaminants in the building's rooms so that the exterior transite panels can be removed which supports demolition of the building structure.

On August 24, 2004, at 1430, during a special Building 444 Complex focus meeting, a discussion was held with the State (Kruchek) regarding removing the transite panels from the south wall of Room 503 (located in B447). This room was an air heating and cooling room for supply air for B447. Supply air was drawn from outside the building through air intake vents in the south wall, and passed over heating and cooling coils before being forced (by supply fans) through the building's supply air ducts. It was noted that friable ACM has been removed from the room and that the room has passed the final ACM air clearance sampling. Radiological surveys confirmed that radiological (rad) contamination was less than action levels, except on a process waste drain pipe. The pipe has been removed except the vertical piece that passes through the 8-inch thick concrete floor. That small piece has been grouted closed to eliminate the hole. There was no removable rad contamination in the area following the grouting, but Residlock was applied on top of the grout and surrounding areas.

During beryllium sampling, there was one elevated sample in the room, but it had been remediated via fixation. It was also noted that the eastern end of the north wall of R503 has been removed and replaced with plastic. All other openings between the room and the remainder of B447 had been sealed. Rooms 501 and 502 (which are west and north of R503) have had Residlock applied to their interior surfaces, and a rad survey indicates that there is no loose rad contamination in the room. Room 405B is east of R503 and is currently undergoing its pre-demolition survey.

On August 30, 2004, at 0730, additional beryllium and radiological data related to Room 503 were faxed to the State (Kruchek) for review.

On August 30, 2004, at 0830, during a telephone conversation with the State (Kruchek), the data provided earlier was discussed. Specifically,

1. Rad survey results from the interior of Room 503 showing no (<258 dpm/100 cm<sup>2</sup> beta) removable rad (depleted uranium (DU)) contamination, and no fixed DU contamination.
2. Rad survey results from the west side of the cinderblock wall that forms the west wall of Room 503 showing no removable DU contamination, and fixed DU contamination ranging between 4500 and 7900 dpm/100 cm<sup>2</sup>.
3. Pre-demolition Survey (PDS) rad results from the Reconnaissance Level Characterization Report (RLCR) taken on the exterior surface of the Room 503 south exterior transite wall.
4. Beryllium survey results from 33 samples taken in Room 503. One floor sample on the eastern end was initially 0.179 ug/100 cm<sup>2</sup>, but following the application of Residlock fixative, the sample result was <0.1 ug/100 cm<sup>2</sup>. Four follow-up confirmation samples around the initially elevated point were also <0.1 ug/100 cm<sup>2</sup>.

The meeting included conversations related to ensuring that Section 3.8.1 of the RSOP for Component Removal, Size Reduction, & Decontamination Activities were addressed:

- (1) Relative Cost – N/A. The non-friable Category 2 transite must be removed before the structure can be demolished.
- (2) Structural Evaluation – Removal of the exterior transite panels from B447 poses no loss of integrity to the structural steel frame of the building.
- (3) Air Emissions – R503 is sealed off from the remainder of B447. In addition, it is surrounded by rooms that have been first cleared of friable ACM, and then fixed with Residlock, so that there is no removable radiological contamination. The sole elevated area of beryllium contamination was remediated, so there are no beryllium emission concerns. The removal of the exterior transite panels from the south wall should not result in the generation of additional dust, however, appropriate measures will be taken to prevent or minimize the potential for releases of contamination during this activity. These measures are discussed in the work package and include water spray in the work area to control dust. Personnel monitoring will be conducted during transite removal for asbestos. Radiological Control Technicians (RCT's) will monitor for rad contamination between the structural steel frame and the transite panels when they are removed.

- (4) Dust Generation – The room is currently open to the environment via slotted air intake vents. Transite removal should not result in the generation of additional dust, however, appropriate measures will be taken to prevent or minimize the potential for releases of contamination during this activity. These measures are discussed in the work package and include water spray in the work area to control dust. The potential for dust generation is low. Loose material has been removed, the area has been pressure washed. Panel removal is not expected to create any dust as the panels are unbolted during removal, instead of crushed or demolished.
- (5) Impacts to Surface Water – This activity will not impact surface or ground water, as large volumes of dust suppression (water) will not be used.
- (6) Impacts to Migratory Bird – A survey was conducted and the removal of these panels will not impact migratory birds or their nests.

The State (Kruchek) requested radiological swipe and fixed survey data around the process waste drain pipe that has been removed.

On September 1, 2004, at 0750, the additional rad data for the drain pipe was provided to the State (Kruchek) for review and disposition.

On September 1, 2004, at 0921, the State concurred that removing the panels exterior to Room 503 of B447 prior to structure demolition was the appropriate measure to be taken and could be initiated. This was based on the area being currently open to the atmosphere via the slotted air intake vents within the south wall transite, and the beryllium and rad survey data indicating the contaminants of concern are below action levels. This concurrence is also based upon the facility taking appropriate measures to prevent release of beryllium and rad contamination to the environment while conducting all work activities.

Contact Record Prepared By: C. J. Freiboth

<b>Required Distribution:</b> M. Aguilar, USEPA S. Bell, DOE R. Birk, DOE C. Deck, KH D. Foss, KH S. Garcia, USEPA C. Gilbreath, KH S. Gunderson, CDPHE	D. Kruchek, CDPHE J. Legare, RFFO R. Leitner, KH J. Mead, KH G. Morgan, DOE S. Nesta, KH K. North, KH R. Schassburger, DOE D. Shelton, KH	C. Zahm, KH  <b>Additional Distribution:</b> H. Ainscough, CDPHE C. J. Freiboth, KH D. Parsons, KH K. Shuler, RFCSS
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**Article 57**  
**Contact Record, September 16, 2004**  
**Building 447 Facility External Transite Removal**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 09/16/04 – 1515  
09/15/04 – 1300

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-082)  
**Phone:** (303) 966-2823

**Regulatory Contact:** David Kruchek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

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**Purpose of Contact:** Building 447 Facility External Transite Removal

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**Meeting Attendance:** C. J. Freiboth, KH PM                      Sam Garcia, USEPA  
David Kruchek, CDPHE                                      D. McCranie, DOE  
Karl Shuler, RFCSS

**Discussion**

Building 447 (B447) is a structural steel building with an exterior skin of transite panels. These panels are non-friable, Category 2 asbestos containing materials (ACM) that must be removed prior to demolition of the facility. The overall plan is to remediate the friable ACM, beryllium and radiological contaminants in the building's rooms so that the exterior transite panels can be removed which supports demolition of the building structure. Removal of the panels also allows for the completion of the Pre-Demolition Survey Report (PDSR) data acquisition

On September 15, 2004, at 1300, during an Area 3 Meeting, a discussion was held with the State (Kruchek) regarding removing the transite panels from the remainder of Building 447 (Groups 3 and 4). Friable ACM has been removed from the rooms and the rooms have passed the final ACM air clearance sampling. Radiological surveys confirm that any removable radiological (rad) contamination is less than action levels. Beryllium sampling results were discussed showing levels after pressure washing, after fixatives had been applied, and for post-fixative remediation.

On September 16, 2004, at 1515, following a walkdown of B447, the State concurred that removing the panels associated with Groups 3 and 4 of B447 prior to structure demolition was the appropriate measure to be taken and could be initiated. This was based on the area being fixed so that there was no loose rad or beryllium contamination, and the beryllium and rad survey data indicating the contaminants of concern are below action levels. This concurrence is also based upon the facility taking appropriate measures to prevent release of beryllium and rad contamination to the environment while conducting all work activities, including:

- Covering up the fixed contamination area associated with the pit in Room 405

Contact Record 09/16/04

The conversations also included discussions related to ensuring that Section 3.8.1 of the RSOP for Component Removal, Size Reduction, & Decontamination Activities were addressed:

- (1) Relative Cost – N/A. The non-friable Category 2 transite must be removed before the structure can be demolished.
- (2) Structural Evaluation – Removal of the exterior transite panels from B447 poses no loss of integrity to the structural steel frame of the building.
- (3) Air Emissions – The area of the Room 405 Pit that the CDPHE requested to be sealed was sealed. The area was cleared of friable ACM, and then fixed with Residlock, so that there is no removable radiological contamination. The elevated areas of beryllium contamination were fixed, so there are no beryllium emission concerns. The removal of the exterior transite panels should not result in the generation of additional dust, however, appropriate measures will be taken to prevent or minimize the potential for releases of contamination during this activity. These measures are discussed in the work package and include water spray in the work area to control dust. Personnel monitoring will be conducted during transite removal for asbestos. Radiological Control Technicians (RCT's) will monitor for rad contamination between the structural steel frame and the transite panels when they are removed.
- (4) Dust Generation – Transite removal should not result in the generation of additional dust, however, appropriate measures will be taken to prevent or minimize the potential for releases of contamination during this activity. These measures are discussed in the work package and include water spray in the work area to control dust. The potential for dust generation is low. Loose material has been removed, the area has been pressure washed. Panel removal is not expected to create any dust as the panels are unbolted during removal, instead of crushed or demolished.
- (5) Impacts to Surface Water – This activity will not impact surface or ground water, as large volumes of dust suppression (water) will not be used.
- (6) Impacts to Migratory Bird – A survey was conducted and the removal of these panels will not impact migratory birds or their nests.

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, USEPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE  
J. Legare, RFFO  
R. Leitner, KH  
J. Mead, KH  
G. Morgan, DOE  
S. Nesta, KH  
K. North, KH  
R. Schassburger, DOE  
D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE  
C. J. Freiboth, KH  
D. Parsons, KH  
K. Shuler, RFCSS

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**Article 58**  
**Contact Record, September 22, 2004**  
**Building 444 Room 9A Roof Removal**

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

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**Date/Time:** 09/22/04 – 0631 and 0705  
09/21/04 – 0629 and 0911

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-083)  
**Phone:** (303) 966-2823

**Regulatory Contact:** David Kruchek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

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**Purpose of Contact:** Building 444 Room 9A Roof Removal

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**Meeting Attendance:** C. J. Freiboth, KH PM      David Kruchek, CDPHE  
Karl Shuler, RFCSS

### Discussion

At various Building 444 Meetings with the State and Department of Energy, the activity to remove the portion of the roof that covers Room 9A of Building 444 has been presented. This roof is located on the southeast corner of Building 444 near the Building 450 plenum structure. The removal of this roof would allow for the lowering of 20-foot cargo containers into an area connected to the basement of Building 444. Waste could then be loaded directly into the cargo container without having to use the elevator.

On September 21, 2004, at 0629, radiological and beryllium survey data associated with the Room 9A walls, ceiling, and floor, were faxed to the State (Kruchek). In addition, photographs of the interior room, including floor, ceiling, and walls, as well as an exterior shot were emailed to the State (Kruchek). The beryllium data showed beryllium levels before and after fixative was applied to the room and the radiological data was the baseline (pre-decontamination) survey data.

On September 22, 2004, at 0911, the State (Kruchek) sent an email with some questions related to the removal of the roof. Specifically, how would the remaining fixed contamination be protected from accidental abrasions, and would the opening be covered when not in use. The State (Kruchek) also wanted to know you airflow would be maintained into the facility through the opening while it is opened.

On September 22, 2004, at 0631, additional radiological information after decontamination activities and fixative spraying were conducted was faxed to the State (Kruchek).

On September 22, 2004, at 0705, a telephone conversation was held with the State (Kruchek) where the specifics and answers to the previous day's questions were discussed. The fixed contamination on the floor has been covered with plywood and will be maintained throughout use of the access point to prevent accidental abrasions. In addition, there are no plans to cover the roof area when not in use. Any water or debris (leaves) entering into the opening will be properly and promptly removed and managed. Water flow is to the north into the Building 444 basement, so there are no concerns related to water flowing out of the facility into the open area. In addition, the rollup door closes on a berm, also preventing water from leaving the Building 444 facility. Prior to opening the rollup door into Building 444, the CCA/Shift Manager will ensure the appropriate exhaust fans are running to ensure proper negative (airflow into the building) is maintained. This rollup door will be closed when not in use. After all State questions were answered, and based on this activity promoting safe removal of waste from the facility, the State (Kruchek), concurred with this activity.

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, USEPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE

J. Legare, RFFO

R. Leitner, KH

J. Mead, KH

G. Morgan, DOE

S. Nesta, KH

K. North, KH

R. Schassburger, DOE

D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE

C. J. Freiboth, KH

D. Parsons, KH

K. Shuler, RFCSS

**Article 59**  
**Contact Record, September 30, 2004**  
**Building 447 Room 36 and Rooms 450A and 405B Pits**

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

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Date/Time: 09/30/04 – 1030

Site Contact(s): C. J. Freiboth (KH) – (CJF-084a)  
Phone: (303) 966-2823

Regulatory Contact: David Kruczek, CDPHE  
Phone: (303) 692-3328

Agency: CDPHE

---

Purpose of Contact: Building 447 Room 36 and Rooms 405A and 405B Pits

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Meeting Attendance: C. J. Freiboth, KH PM                      David Kruczek, CDPHE  
Karl Shuler, RFCSS

### Discussion

The Pre-Demolition Survey Report (PDSR) for Building 447 has been submitted to the Department of Energy and Colorado Department of Public Health and the Environment (CDPHE/State) for review and approval. In preparation for the demolition of the Building 447 structure, there is a desire to fill Room 36 with flo-fill, and the Rooms 405A and 405B pits with dirt. This will greatly reduce the concerns over having the demolition equipment and debris fall into one of these voids while working on the Building 447 demolition.

On September 30, 2004, at 1030, the State (Kruczek) was contacted regarding the flo-filling of Room 36, and the dirt fill of the 405A and 405B pits. This request is based on the Room 36 pit not being contaminated, with the exception of the two former process waste pipe stubs that are embedded into the concrete walls of the pit and protrude a few inches into the room. These stubs were grouted shut in the early 1980's and may have up to 55,000 dpm/100 cm<sup>2</sup> of fixed contamination coming off of the outer surfaces of the stub ends. These stubs will be approximately 6 feet below final grade. The pipe sleeve embedded in the concrete that surrounds the stubs is not contaminated. Once the facility is demolished, attempts to grout the eastern pipe will be made. In addition, if the western pipe is exposed during the demolition of the Building 447 west basement, this side of the pipe will also be grouted. The 405A pit has up to 30,000 dpm/100 cm<sup>2</sup> fixed located on the lower portions of the wall and floors, which conservatively or using a worst case scenario, equates to 38.737 pCi/gram of depleted uranium holdup. This contaminated area will be approximately 12 feet below final grade. The soil under a portion of the slab to the West of the 405A pit will need to be remediated prior to filling over the slab. The Room 405B pit is not contaminated. The State (Kruczek) concurred with proceeding with the filling of Room 36 and the two pits.

Contact Record 09/30/04

Contact Record Prepared By: C. J. Freiboth

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**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, USEPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE

J. Legare, RFFO

R. Leitner, KH

J. Mead, KH

G. Morgan, DOE

S. Nesta, KH

K. North, KH

R. Schassburger, DOE

D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE

C. J. Freiboth, KH

D. Parsons, KH

K. Shuler, RFCSS

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**Article 60**  
**Contact Record, October 12, 2004**

**Building 447 and 451 RSOP for Component Removal, Size  
Reduction and Decontamination Activities, Section 3.8.1**

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

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Date/Time: 10/12/04 – 1400 and 10/05/04 – 1330

Site Contact(s): C. J. Freiboth (KH) – (CJF-085)  
Phone: (303) 966-2823

Regulatory Contact: David Kruchek, CDPHE  
Phone: (303) 692-3328

Agency: CDPHE

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Purpose of Contact: Building 447 and 451 RSOP for Component Removal, Size Reduction, and Decontamination Activities, Section 3.8.1

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Meeting Attendance:	C. J. Freiboth, KH PM	David Kruchek, CDPHE
	K. Shuler, RFCSS	S. Roberts, DOE Rep.
	D. McCranie, DOE	G. Dreith, DOE
	D. Parsons, KH	V. Childress, RFCSS
	K. Oman, RFCSS	

### Discussion

Portions of Buildings 447 and 451 can not meet the free/unrestricted release criteria for radiological contamination as discussed in the RSOP for Facility Disposition. Radiologically contaminated portions of these facilities will be removed in accordance with the RSOP for Component Removal, Size Reduction, and Decontamination Activities, Section 3.8. Subsection 3.8.1 of this RSOP identifies six analyses that will be conducted in preparation for removing contaminated portions of the building shell.

On October 5, 2004, at 1330, the following information was presented to the State (Kruchek), to address the RSOP for Component Removal, Size Reduction, and Decontamination Activities six-point analysis:

- (1) **Relative Cost** – The main portions of these two facilities (Buildings 447 and 451) which contain the fixed radiological contamination are the steel supports columns and beams. In addition, the Building 447 mezzanine floor (which is also the basement roof) and the basement floor are radiologically contaminated. It is not possible to decontaminate the structural steel without first demolishing the buildings. Therefore this analysis is not required and will be addressed in the closeout report.
- (2) **Structural Evaluation** – The demolition of both structures (Building 447 and 451) will be completed in accordance with the Integrated Work Control Program (IWCP). The demolition documents have been review by a Colorado Registered Professional Structural Engineer, who has agreed that the demolition may proceed as described in the IWCP.

Contact Record 10/12/04

- (3) **Air Emissions** – An analysis by the Kaiser-Hill Air Quality organization was performed which showed that the depleted uranium emissions would not exceed the 40 CFR 61, Subpart H emissions limit which would require additional radiological air monitoring. Other than the existing Site Radioactive Ambient Air Monitoring Program (RAAMP) sampler network which will be operational during the demolitions, no additional radiological monitoring is required. Localized radiological monitoring for worker protection will occur. Once these samples are counted they will be sent offsite for beryllium analysis as directed by Industrial Hygiene. Additionally, beryllium air monitoring is required during the demolition of these facilities as discussed in the Integrated Monitoring Plan (IMP).
- (4) **Dust Generation** – The potential for dust generation is low. Loose material has been removed and the areas have been pressure washed. Fixative has been sprayed on the majority of the facilities. However, dust suppression will be conducted in accordance with the IWCP work document and the need to pause work will be evaluated if wind speeds exceed 15 mile per hour on a consistent basis.
- (5) **Impacts to Surface Water** – This activity will not impact surface or ground water, as large volumes of dust suppression (water) will not be used. Storm sewers or culverts will have the necessary run-off controls in place. Any collected run-off water will be sampled prior to final disposition.
- (6) **Impacts to Migratory Bird** – A survey was conducted and the demolition of these structures will not impact migratory birds or their nests.

On October 12, 2004, at 1400, the State (Kruchek) concurred with the information presented.

Contact Record Prepared By: C. J. Freiboth

**Required Distribution:**  
M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, USEPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE  
J. Legare, RFFO  
R. Leitner, KH  
J. Mead, KH  
G. Morgan, DOE  
S. Nesta, KH  
K. North, KH  
R. Schassburger, DOE  
D. Shelton, KH

C. Zahm, KH  
  
**Additional Distribution:**  
H. Ainscough, CDPHE  
C. J. Freiboth, KH  
D. Parsons, KH  
K. Shuler, RFCSS

**Article 61**  
**Contact Record, October 13, 2004**  
**Building 447 Demolition Sequence and Clarification**

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

**Date/Time:** 10/13/04 – 0937 and 10/12/04 – 1330

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-087)  
**Phone:** (303) 966-2823

**Regulatory Contact:** David Kruczek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

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**Purpose of Contact:** Building 447 Demolition Sequence and Clarification

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**Meeting Attendance:**

C. J. Freiboth, KH PM	David Kruczek, CDPHE
Karl Shuler, RFCSS	D. McCranie, DOE
G. Dreith, DOE	V. Childress, RFCSS
K. Oman, RFCSS	D. Parsons, KH
S. Roberts, DOE Rep.	

### Discussion

On October 7, 2004, the State provided concurrence on the B447 Facility Disposition RSOP. This concurrence requested additional clarification related to the actual demolition of the facility.

On October 12, 2004, at 1330, conversations with the State (Kruczek) were held to provide clarification on the demolition of the facility. Specifically:

The OPWL lines will be handled in accordance with requirements of the May 17, 2004/9:30 a.m. contact record titled, "Obtain Agreement With CDPHE On Proposed Foaming/Grouting Approach For OPWL Pipes Which Will Remain In Place." This item was incorrectly identified as the contact record dated 08/27/03. In addition, the specific requirements of the contact record for Building 447 OPWL lines (document CJF-086/Building 447 Original Process Waste Lines (OPWL) Disposition) will be followed.

The four pits identified in the RSOP notification are specifically the Room 405A pit, Room 405B pit, Room 36 and the elevator pit (shaft) in the Building 447 basement.

The four feet below final grade mentioned in the RSOP is actually a nominal depth and ranges from 3.2 feet to 4.6 feet. The requirement to be a minimum of 3 feet below final grade will be met.

Close-in monitoring for both radiological and beryllium contamination will be performed.

Contact Record 10/13/04

In addition, the IWCP for the demolition of Buildings 447, 448, and 451 was provided to the State (Kruchek) for review and comment.

On October 13, 2004, at 0937, the State (Kruchek) provided comments to the IWCP work package, and concurred that the demolition activities could proceed, noting that these comments need to be addressed with the necessary modifications made to the IWCP.

Contact Record Prepared By: C. J. Freiboth

---

**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, USEPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE

J. Legare, RFFO

R. Leitner, KH

J. Mead, KH

G. Morgan, DOE

S. Nesta, KH

K. North, KH

R. Schassburger, DOE

D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE

C. J. Freiboth, KH

D. Parsons, KH

K. Shuler, RFCSS

**Article 62**  
**Contact Record, October 27, 2004**  
**Building 444, Room 116 Transite Pane Removal**



Contact Record Prepared By: C. J. Freiboth

**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, USEPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE

J. Legare, RFFO

R. Leitner, KH

J. Mead, KH

G. Morgan, DOE

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K. North, KH

R. Schassburger, DOE

D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE

C. J. Freiboth, KH

K. Shuler, RFCSS

M. Swartz, KH

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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Date/Time: 11/24/04 - 0640 & 1047

Site Contact(s): K.W. Shuler (RFCSS) - (KWS-001)  
Phone: (303) 966-3423

Regulatory Contact: David Kruchek, CDPHE  
Phone: (303) 692-3328

Agency: CDPHE

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Purpose of Contact: Building 451, Pad Removal

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Meeting Attendance: K. Shuler, RFCSS David Kruchek, CDPHE

**Discussion**

On October 6, 2004, the State approved the Pre-Demolition Survey Report (PDSR) for the Building 451 (B451) metal filter plenum structure (Steven H. Gunderson (CDPHE) letter to Joe Legare (DOE)). The approval did not include the concrete pad/slab under the metal plenum:

*Since the concrete pad is also considered part of B451, it must also be properly investigated/characterized once the plenum structure is removed. The ultimate disposition of this concrete pad will depend upon the results of the investigation performed. As such, the investigation to be performed and the results obtained must be discussed with us utilizing the consultative process prior to demolition or agreement on the final disposition of the B451 concrete pad.*

On November 13, 2004, demolition commenced on the B451 metal filter plenum structure. On November 16, 2004, a radiological survey was conducted. On November 19, 2004, a beryllium survey was conducted. The survey results for both were below the Site's free release limits. On November 24, 2004, those survey results were provided to and reviewed with the State (Kruchek). Following the review, the State concurred that, based on the data provided, the B451 pad meets the unrestricted release criteria and can be demolished and removed.

Contact Record Prepared By: K.W. Shuler

---

**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, USEPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE  
J. Legare, RFFO  
R. Leitner, KH  
J. Mead, KH  
G. Morgan, DOE  
S. Nesta, KH  
K. North, KH  
R. Schassburger, DOE  
D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE  
C. J. Freiboth, KH  
M. Swartz, KH

**Article 64**  
**Contact Record, December 2, 2004**  
**Building 444, Removal of Tanks T2 and T3**



Contact Record Prepared By: K.W. Shuler

---

**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, USEPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE

J. Legare, RFFO

R. Leitner, KH

J. Mead, KH

G. Morgan, DOE

S. Nesta, KH

K. North, KH

R. Schassburger, DOE

D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE

C. J. Freiboth, KH

K. Shuler, RFCSS

M. Swartz, KH

---

**Article 65**  
**Contact Record, December 6, 2004**

**Building 444, Removal of Secondary Containment for RCRA  
Units 40.35 and 40.36**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 12/01/04 - 1015

**Site Contact(s):** K.W. Shuler (RFCSS) - (KWS-003)  
**Phone:** (303) 966-3423

**Regulatory Contact:** David Kruchek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

---

**Purpose of Contact:** Building 444, Removal of Secondary Containment for RCRA Units 40.04, 40.05

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**Meeting Attendance:** K. Shuler, RFCSS                      David Kruchek, CDPHE

**Discussion**

The RSOP Notification Letter for Component Removal, Size Reduction, and Decontamination Activities (RSOP) for RCRA Unit 39 and 40 Final Closure in Building 444/447 states that RCRA Unit 40.04 (T2) and Unit 40.05 (T3) will be closed under Section 5.1.1, "Clean Closure". Through contact record KWS-002 dated 12/02/04, the State (Kruchek) concurred that the tanks will be closed via Closure by Removal. The secondary containment berms for the tanks (e.g., concrete slabs, and curbs) were not addressed in this concurrence.

Closure Option 3 under section 5.1.1 of the component removal RSOP for the floor and foundation will be exercised. Secondary containment berms for Units 40.04, 40.05 cannot be removed via clean closure as stated in the RSOP notification. Instead, they will also be closed by removal. The curbs shall be demolished and handled as LLM (low level mixed) process waste debris to Envirocare of Utah. The concrete (i.e., the "slab" or "pads") beneath the tanks that formed the floor of the secondary containment will have its surfaced scarified to perform decontamination. The scarification process typically removes at least the top one-quarter inch of concrete (and any paint that was on the concrete surface). The resultant waste from the scarification process will be handled as LLM waste. Any stains or cracks in the concrete that are revealed following the scarification process will need further investigation. Verification of removal of the RCRA components via this process will be required. Based upon this discussion, the State (Kruchek) concurred that the curbs could be removed and the floor surface scarified.

Contact Record 12/06/04

Contact Record Prepared By: K.W. Shuler

**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
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C. Deck, KH  
D. Foss, KH  
S. Garcia, USEPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE  
J. Legare, RFFO  
R. Leitner, KH  
J. Mead, KH  
G. Morgan, DOE  
S. Nesta, KH  
K. North, KH  
R. Schassburger, DOE  
D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE  
C. J. Freiboth, KH  
K. Shuler, RFCSS  
M. Swartz, KH

**Article 66**  
**Contact Record, December 6, 2004**

**Building 444, Removal of Secondary Containment for RCRA Unit  
40.04 and 40.05**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

---

**Date/Time:** 12/02/04 - 1600

**Site Contact(s):** K.W. Shuler (RFCSS) - (KWS-003)  
**Phone:** (303) 966-3423

**Regulatory Contact:** David Kruczek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

---

**Purpose of Contact:** Building 444, Removal of Secondary Containment for RCRA 40.35 and 40.36

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**Meeting Attendance:** K. Shuler, RFCSS                      David Kruczek, CDPHE

**Discussion**

The RSOP Notification Letter for Component Removal, Size Reduction, and Decontamination Activities (RSOP) for RCRA Unit 39 and 40 Final Closure in Building 444/447 states that the secondary containment berms for RCRA Units 40.35 T-4 and 40.36 (ST5) will be accomplished via Clean Closure by Decontamination.

Closure Option 3 under section 5.1.1 of the component removal RSOP for the floor and foundation will be exercised. Secondary containment berms for these Units cannot be removed via clean closure as stated in the RSOP notification. Instead, they will be closed by removal. Removal of the tanks themselves is addressed in contact record CJF-071, 12/04/03 - 1545. The characterization for these berms is identical to that of the berm surrounding T-2 and T-3, and the berm for ST5 shares a common wall. The strategy for removing these berms will be the same as that for the T-2, T-3 secondary containment. The curbs for all containment berms shall be demolished and handled as LLM (low level mixed) process waste debris to Envirocare of Utah. The concrete (i.e., the "slab" or "pads") beneath the tanks that formed the floor of the secondary containment berms will have its surface scarified to perform decontamination. The scarification process typically removes at least the top one-quarter inch of concrete (and any paint that was on the concrete surface). The resultant waste from the scarification process will be handled as LLM waste. Any stains or cracks in the concrete that are revealed following the scarification process will need further investigation. Verification of removal of the RCRA components via this process will be required.

Contact Record Prepared By: K.W. Shuler

---

**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, USEPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE  
J. Legare, RFFO  
R. Leitner, KH  
J. Mead, KH  
G. Morgan, DOE  
S. Nestā, KH  
K. North, KH  
R. Schassburger, DOE  
D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE  
C. J. Freiboth, KH  
K. Shuler, RFCSS  
M. Swartz, KH

**Article 67**  
**Contact Record, December 15, 2004**  
**Removal of Transite panels from B444 NW Annex**



Welcome to the RFETS Regulatory Contact Record Database

Please enter any of the information specific to the record(s) being queried in the fields below and press the "Submit" key. You may enter single or multiple search criteria by utilizing the fields below. Subsequent criteria may be added to refine your search. To create a new search, press the "Clear Form". The query will search the database using "and" statements. Records meeting the criteria specified will be displayed below. Please scroll through the record output using the arrow keys to locate the record of choice.

Building:

Author:

Regulatory Contact:

Date Range: From  To

Keyword:

<< < > >> (57 of 63)

Number 1713  
 Date and Time 12/15/2004

Primary Site Contact Steve Nesta Primary Reg Contact Dave Kruckeck  
 Secondary Site Contact Secondary Reg Contact

Unit Building Site Phone Agency  
 444 CDPHE

Purpose

Removal of Transite panels from B444 NW Annex

Discussion

Demolition of the NW Annex of B444 is proposed. The PDS for this area is being performed. Prior to demolition and to complete the PDS of this area the Transite panels along the upper east side of the NW Annex need to be removed. The PDS data provided indicates the area effected by the removal of these Transite panels meets the unrestricted release criteria. Removal of these Transite panels will open up the interior of B444 to the environment. As such, the areas of B444 and the NW Annex that have not been investigated or shown to meet the unrestricted release criteria will be protected and physically separated from the area that will be opened to the environment. The project requests to remove these

240

panels to complete the release of this portion of the building in preparation for demolition of the NW Annex. The Demolition of the NW Annex and the adjacent rooms 179 and 180B will be discussed at a later time under separate decision and Contact Record. Although the current PDS does not include the B444 exterior, this was characterized during the RLCR investigation. The results of the RLCR demonstrated the exterior meets the unrestricted release criteria, except for the docks and other areas as specifically noted in the RLCR. Based on the results of the PDS and RLCR for the effected area, and physical separation of this area from the remainder of B444, the State agreed with the removal of the Transite panels from this area of the NW Annex.

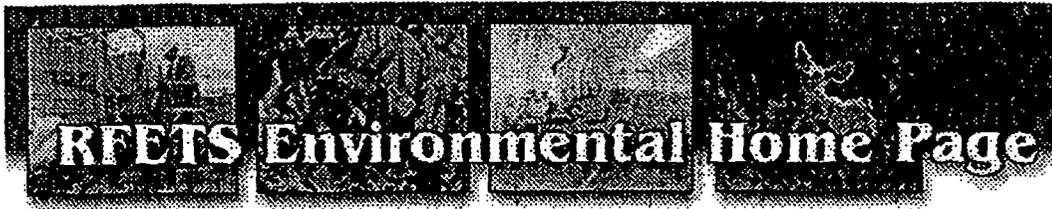
#### Follow-Up

Please contact Doug Schlagel at extension 4175 for assistance with this page.

241

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**Article 68**  
**Contact Record, January 3, 2005**  
**Completion of the B447 Hotspots Remediation**



Welcome to the RFETS Regulatory Contact Record Database

Please enter any of the information specific to the record(s) being queried in the fields below and press the "Submit" key. You may enter single or multiple search criteria by utilizing the fields below. Subsequent criteria may be added to refine your search. To create a new search, press the "Clear Form". The query will search the database using "and" statements. Records meeting the criteria specified will be displayed below. Please scroll through the record output using the arrow keys to locate the record of choice.

Building:

Author:

Regulatory Contact:

Date Range: From  To

Keyword:

(25 of 25)

Number: 1733  
 Date and Time: 1/3/2005 1:30:00 PM

Primary Site Contact: Annette Primrose, 4385      Primary Reg Contact: Dave Kruckeck  
 Secondday Site Contact: Norma Castaneda      Secondday Reg Contact:

Unit	Building	Site Phone	Agency
	447		CDPHE

Purpose:  
 Completion of the B447 Hotspots Remediation

Discussion

Uranium exceeded the WRW action levels at one location beneath the B447 slab. After building demolition was complete, this hotspot was removed. Confirmation samples were collected from the four sides and the bottom of the excavation and analyzed onsite and offsite. All samples results were received, and except for the north side, were below action levels. The north side confirmation sample failed and additional excavation occurred at this location. Final onsite confirmation samples from this location indicate that the areas are all below WRW action levels. Based on this data, backfill will be permitted. However, additional excavation may be required based on the results of the subsurface soil

243

risk screen and offsite confirmation sample results.

Follow-Up

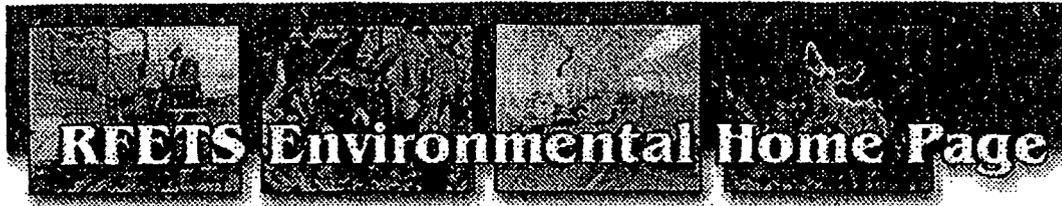
Please contact Doug Schlagel at extension 4175 for assistance with this page.

244

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**Article 69**  
**Contact Record, January 12, 2005**  
**Regulatory Concurrence for Demolition of B444 annex.**

245



Welcome to the RFETS Regulatory Contact Record Database

Please enter any of the information specific to the record(s) being queried in the fields below and press the "Submit" key. You may enter single or multiple search criteria by utilizing the fields below. Subsequent criteria may be added to refine your search. To create a new search, press the "Clear Form". The query will search the database using "and" statements. Records meeting the criteria specified will be displayed below. Please scroll through the record output using the arrow keys to locate the record of choice.

Building:

Author:

Regulatory Contact:

Date Range: From  To

Keyword:

(59 of 63)

Number: 1740  
 Date and Time: 1/12/2005 7:00:00 AM

Primary Site Contact: Steve Nesta      Primary Reg Contact: Dave Kruckeck  
 SeconddaySite Contact:                      Secondday Reg Contact:

Unit:                      Building: 444                      Site Phone:                      Agency: CDPHE

Purpose:  
 Regulatory Concurrence for Demolition of B444 Annex

Discussion

The State has reviewed the PDS data from VIA2 and agreed that it is sufficient for proceeding with limited demolition for B444 Annex. In addition, the CDPHE requested the following information on the specifics of the demolition; found in Work plan #T0112969. The CDPHE has agreed with the additional information and has concurred with proceeding with the demolition. - The rad contaminated floor slab in room 179 and the corridor going to room 180B are covered with 1/2 inch plywood to protect and prevent the potential spread of contamination to the above slab structure during the demolition and load out of the structure. - Demolition of the Annex consist of only rooms 182, 180, 181, 180B, 179

246

corridor, 179, 260, 281A, and 281. - The West walls at column line "U" which are composed of rooms 143B, 143C, corridor from room 143K, rooms 183, and 148A are the original concrete wall of B444. These walls are spray-painted orange as a visible indication to the demolition crew that this wall is to remain in place. - All window and door openings connecting the above have been framed and covered with ½ inch plywood at the line of separation between the Annex and the remaining B444 structure. - The return air tunnels are painted on the floor surface as a visible indication to the demolition crew that there are voids under the floor during the demolition of the above slab structure. Once the structure has been size reduce and debris loaded out the slab over the tunnels and the walls will be demolished to a minimum of 3 feet below final grade. The remaining tunnels will be back filled with clean soil coming from the B664 area. - The portions of the slab that do not meet unrestricted release criteria will be removed and not left in place.

Follow-Up

Please contact Doug Schlagel at extension 4175 for assistance with this page.

247

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**Article 70**  
**Contact Record, January 26, 2005**  
**Removal of Exterior Transite Windows from Ventilation Isolation**  
**Areas (VIAs) 1 and 3 of Building 444**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 01/20/05 - 1300  
01/26/05 - 1515; 1620

**Site Contact(s):** K.W. Shuler (RFCSS) - (KWS-005)  
**Phone:** (303) 966-3423

**Regulatory Contact:** David Kruchek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

---

**Purpose of Contact:** Removal of Exterior Transite Windows from Ventilation Isolation Areas (VIAs) 1 and 3 of Building 444

---

**Meeting Attendance:**

01/20/05	David Kruchek, CDPHE Sam Garcia, EPA	Karl Shuler, RFCSS
01/26/05	David Kruchek, CDPHE	Karl Shuler, RFCSS

**Discussion**

Building 444 (B444) has some windows with transite panels. Transite panels are non-friable Category 2 asbestos containing materials (ACM) that must be removed prior to demolition. The overall plan is remediate the friable ACM, beryllium and radiological contaminants in the building's rooms so that the exterior transite panels can be removed, and the building structure can be demolished.

Friable ACM has been removed from VIAs 1 and 3 of B444 and those areas have passed the final ACM air clearance sampling. Radiological surveys have confirmed that radiological (rad) contamination is less than action levels, except in the elevator shafts. Beryllium has been remediated in these two VIAs by fixation. The elevators have been sprayed with fixative and analytical results are pending. The elevators have been sealed so that they are isolated from the remainder of the VIAs 1 and 3 areas.

The purpose of the walkdown on 01/20/05 was to look at the transite window panes and surrounding areas in VIA 1 (Rooms 116, 117, 124, 125), Rooms 113 & 118, and VIA 3 (Rooms 201, 203, 204, 208, 209, 212, 212A, 245). During the walkdown, the CDPHE (Kruchek) observed 3 plastic covered duct pass-throughs in the west wall of R204 (that lead to R101).

Contact Record 01/26/05

Since the removal of the transite panels in VIAs 1 and 3 will open those areas to the environment and survey data indicates that contaminants of concern are below action levels, the State (Kruchek) concurred that the panels could be removed prior to structure demolition. However, this concurrence is based upon the facility taking the following measures to prevent release of contamination to the environment while conducting all work activities:

1. VIA 1 and 3 will be physically separated from the remainder of the uncharacterized areas of B444, and the 3 plastic covered duct pass-throughs in the west wall of R204 (that lead to R101) will be covered with something more substantial than plastic before the transite windows are removed in VIA 3.
2. The elevators will remain in their current fixed, enclosed and separate conditions (i.e., sealed) until all contaminants have been shown to be fixed.
3. In any area within VIAs 1 and 3 where the CDPHE has not yet reviewed data to show that there is no removable contamination, barriers will be installed to separate those areas from the areas that will be opened to the environment as a result of removing the transite window panels. This will specifically include the elevator shafts as well as rooms 102, 103C, 103D, 105, 105A, 108, 108A, 108B, 110, 110A, 112, 112A, 115, 117D, 170, & 175.
4. During the transite removal operations, appropriate IH and rad monitoring will be performed, as identified in the Work Plan.
5. Upon removal of the transite and exposure of uncharacterized surfaces, fixative will be applied to prevent possible release of contamination.

Contact Record Prepared By: K.W. Shuler

**Required Distribution:**

M. Aguilar, USEPA  
 S. Bell, DOE  
 R. Birk, DOE  
 C. Deck, KH  
 D. Foss, KH  
 S. Garcia, EPA  
 C. Gilbreath, KH  
 S. Gunderson, CDPHE

D. Kruchek, CDPHE

J. Legare, RFFO

R. Leitner, KH

J. Mead, KH

G. Morgan, DOE

S. Nesta, KH

K. North, KH

S. Roberts, DOE

R. Schassburger, DOE

D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE

C. J. Freiboth, KH

D. Parsons, KH

K. Shuler, RFCSS

M. Swartz, KH

ZSD

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**Article 71**  
**Contact Record, February 2, 2005**

**Removal of exterior Transite Windows from Ventilation Isolation  
Area (VIA) 2 of Building 444**

251

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

---

**Date/Time:** 02/02/05 – 1500

**Site Contact(s):** K.W. Shuler (RFCSS) – (KWS-006)  
**Phone:** (303) 966-3423

**Regulatory Contact:** David Kruchek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

---

**Purpose of Contact:** Removal of Exterior Transite Windows from Ventilation Isolation Areas (VIA) 2 of Building 444

---

### Meeting Attendance:

Harlen Ainscough, CDPHE	David Kruchek, CDPHE	Sarah Roberts, DOE
Gary Dreith, DOE	Gary Morgan, DOE	Karl Shuler, RFCSS
Dyan Foss, KH	Denise Onyskiw, CDPHE	Mike Swartz, KH
Sam Garcia, EPA	Duane Parsons, KH	

### Discussion

Building 444 (B444) has some windows with transite panels. Transite panels are non-friable Category 2 asbestos containing materials (ACM) that must be removed prior to demolition. The overall plan is remediate the friable ACM, beryllium and radiological contaminants in the building's rooms so that the exterior transite panels can be removed, and the building structure can be demolished.

Friable ACM has been removed from VIA 2 of B444 and those areas have passed the final ACM air clearance sampling. Radiological surveys have confirmed that radiological (rad) contamination is less than action levels. Beryllium has been remediated in this VIA by fixation.

The PDS data provided indicates the area effected by the removal of these transite panels meets the unrestricted release criteria. Since the removal of the transite panels in VIA 2 will open those areas to the environment and survey data indicates that contaminants of concern are below action levels, the State (Kruchek) concurred that the panels could be removed prior to structure demolition. However, this concurrence is based upon the facility taking the following measures to prevent release of contamination to the environment while conducting all work activities:

Contact Record 02/02/05

1. During the transite removal operations, appropriate IH and rad monitoring will be performed, as identified in the Work Plan.
2. Upon removal of the transite and exposure of uncharacterized surfaces, fixative will be applied to prevent possible release of contamination.

Contact Record Prepared By: K.W. Shuler

---

**Required Distribution:**

M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, EPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruehek, CDPHE

J. Legare, RFFO

R. Leitner, KH

J. Mead, KH

G. Morgan, DOE

S. Nesta, KH

K. North, KH

S. Roberts, DOE

R. Schassburger, DOE

D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE

C. J. Freiboth, KH

D. Parsons, KH

K. Shuler, RFCSS

M. Swartz, KH

**Article 72**  
**Contact Record, February 2, 2005**

**Removal of Exterior Transite Window Panels from Rooms 106,  
109A, 109B, 113, 118, of Building 444**

## ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

---

**Date/Time:** 02/02/05 – 1500

**Site Contact(s):** K.W. Shuler (RFCSS) – (KWS-007)  
**Phone:** (303) 966-3423

**Regulatory Contact:** David Kruczek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

---

**Purpose of Contact:** Removal of Exterior Transite Window Panels from Rooms 106, 109A, 109B, 113 & 118 of Building 444

---

### Meeting Attendance:

Harlen Ainscough, CDPHE	David Kruczek, CDPHE	Sarah Roberts, DOE
Gary Dreith, DOE	Gary Morgan, DOE	Karl Shuler, RFCSS
Dyan Foss, KH	Denise Onyskiw, CDPHE	Mike Swartz, KH
Sam Garcia, EPA	Duane Parsons, KH	

### Discussion

Building 444 (B444) has some windows with transite panels. Transite panels are non-friable Category 2 asbestos containing materials (ACM) that must be removed prior to demolition. The overall plan is remediate the friable ACM, beryllium and radiological contaminants in the building's rooms so that the exterior transite panels can be removed, and the building structure can be demolished.

Friable ACM has been removed from Rooms 106, 109A, 109B, 113 & 118 of B444 and these rooms have passed the final ACM air clearance sampling. Radiological surveys have confirmed that radiological (rad) contamination is less than action levels. Beryllium has been remediated in these rooms by fixation. However, the State has not been provided all of the documentation to properly determine the final PDS condition of these rooms.

The State (Kruczek) concurred that the panels could be removed prior to structure demolition. However, this concurrence is based upon the facility taking the following measures to prevent release of contamination to the environment while conducting all work activities:

1. The interior side of the window openings will be sealed prior to commencing removal of the transite panels so that the rooms will not be opened to the environment when the panels are removed.
2. During the transite removal operations, appropriate IH and rad monitoring will be performed, as identified in the Work Plan.
3. Upon removal of the transite and exposure of uncharacterized surfaces, fixative will be applied to prevent possible release of contamination.

Contact Record Prepared By: K.W. Shuler

---

**Required Distribution:**

M. Aguilar, USEPA  
 S. Bell, DOE  
 R. Birk, DOE  
 C. Deck, KH  
 D. Foss, KH  
 S. Garcia, EPA  
 C. Gilbreath, KH  
 S. Gunderson, CDPHE

D. Kruchek, CDPHE

J. Legare, RFFO

R. Leitner, KH

J. Mead, KH

G. Morgan, DOE

S. Nesta, KH

K. North, KH

S. Roberts, DOE

R. Schassburger, DOE

D. Shelton, KH

C. Zahm, KH

**Additional Distribution:**

H. Ainscough, CDPHE

C. J. Freiboth, KH

D. Parsons, KH

K. Shuler, RFCSS

M. Swartz, KH

**Article 73**  
**Contact Record, February 7, 2005**

**Removal of Exterior Transite Window Panels from Rooms 101, &  
107 of Building 444**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

---

**Date/Time:** 02/07/05 - 0645, 0700

**Site Contact(s):** K.W. Shuler (RFCSS) - (KWS-009)  
**Phone:** (303) 966-3423

**Regulatory Contact:** David Kruchek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

---

**Purpose of Contact:** Removal of Exterior Transite Window Panels from Rooms 101 & 107 of Building 444

---

**Meeting Attendance:**

David Kruchek, CDPHE                  Karl Shuler, RFCSS

**Discussion**

Building 444 (B444) has some windows with transite panels. Transite panels are non-friable Category 2 asbestos containing materials (ACM) that must be removed prior to demolition. The overall plan is remediate the friable ACM, beryllium and radiological contaminants in the building's rooms so that the exterior transite panels can be removed, and the building structure can be demolished.

As a result of prior activities (see Contact Records CJF-072 & CJF-078), 75% of the exterior transite panels from the Room 101 windows have already been removed and sealed to keep Room 101 inaccessible to the environment. Radiological monitoring was conducted during the removal of those exterior transite panels and no contamination above the free release limits was detected in any of the removals.

Friable ACM has been removed from Rooms 101 & 107 of B444. The rooms are still under negative ventilation via the exhaust fans in B450. The State has not been provided the documentation to properly determine the final PDS condition of these rooms.

In order to complete the final ACM removal in the B444 Complex, it is necessary to finish removing the remaining exterior transite panels from 4 windows in Room 101 and 2 windows in Room 107.

The State (Kruchek) concurred that the exterior transite panels could be removed prior to structure demolition. However, this concurrence is based upon the facility taking the following measures to prevent release of contamination to the environment while conducting all work activities:

1. The interior transite panels will be removed and fixative applied in the void area between the interior and exterior transite panels.
2. The interior side of the window openings will be sealed with plywood prior to commencing removal of the exterior transite panels so that the rooms will not be opened to the environment when the exterior panels are removed.
3. During the transite removal operations, appropriate IH and rad monitoring will be performed, as identified in the Work Plan.
4. Upon removal of the transite and exposure of uncharacterized surfaces, fixative will be applied to prevent possible release of contamination.

**Contact Record Prepared By: K.W. Shuler**

**Required Distribution:**  
M. Aguilar, USEPA  
S. Bell, DOE  
R. Birk, DOE  
C. Deck, KH  
D. Foss, KH  
S. Garcia, EPA  
C. Gilbreath, KH  
S. Gunderson, CDPHE

D. Kruchek, CDPHE  
J. Legare, RFFO  
R. Leitner, KH  
J. Mead, KH  
G. Morgan, DOE  
S. Nesta, KH  
K. North, KH  
S. Roberts, DOE  
R. Schassburger, DOE

D. Shelton, KH  
C. Zahm, KH

**Additional Distribution:**  
H. Ainscough, CDPHE  
C. J. Freiboth, KH  
D. Parsons, KH  
K. Shuler, RFCSS  
M. Swartz, KH

**Article 74**  
**Contact Record, March 15, 2005**  
**· Building 450 Fan Room**

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
REGULATORY CONTACT RECORD**

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**Date/Time:** 3/15/05 – 1000

**Site Contact(s):** Duane Parsons (RISS) – (DAP-030)  
**Phone:** (303) 966-6458

**Regulatory Contact:** David Kruchek, CDPHE  
**Phone:** (303) 692-3328

**Agency:** CDPHE

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**Purpose of Contact:** Building 450 Fan Room

---

**Meeting Attendance**

D. Kruchek, CDPHE                      D. Parsons, K-H

**Discussion**

The 450 Project has requested that the clean fan room side of Building 450 (super-structure portion only) be managed as sanitary debris versus LLW as stated in the Building 450 PDSR. The PDSR fan room survey showed all surfaces met the sanitary release criteria. Another confirmatory survey was recently performed in the fan room (including a 10% scan and large area swipes), and all surfaces still meet the sanitary release criteria. Beryllium was never found in the fan room and no fixatives were ever needed or applied in the fan room. Based on these results, the fan room can be managed as sanitary waste. The remaining portions of Building 450 will still be managed as LLW. The demolition of Building 450 has not started yet, and there has been no impact to building from the Building 444 demolition.

Portions of the Building 450 slab underneath the metal plenum were inaccessible during the PDS of the building. Once the metal plenum is removed, these inaccessible portions will be properly characterized. If they are found to meet the sanitary release criteria, then another RFCA Contact Record will be generated such that the concrete slab can be managed as sanitary waste.

Based on the survey results (radiological and beryllium surveys) and CDPHE concurrence, the super-structure of Building 450 Fan Room can be managed as sanitary waste and demolition can proceed.

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261

Contact Record Prepared By: D. Parsons

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**Required Distribution:**

J. Legare, DOE  
C. Deck, K-H  
D. Shelton, K-H  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
L. Kilpatrick, K-H

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
T. Rehder, USEPA

**Additional Distribution:**

M. Swartz, K-H  
F. Gibbs, K-H  
D. Kruchek, CDPHE  
G. Morgan, DOE  
S. Roberts, DOE

262

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**Article 75**  
**Contact Record, April 25, 2005**  
**B444 Basement Excavated Area Backfill**

263

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
ER REGULATORY CONTACT RECORD**

Date/Time: April 25, 2005, 0730

Site Contact(s): Mike Swartz  
Phone: 966-5107

Regulatory Contact: David Kruchek  
Phone: 303 692-3328

Agency: CDPHE

Purpose of Contact: B444 Basement Excavated Area Backfill

**Discussion**

The slab and walls were removed from B444 basement area along with the OPWL lines underneath the basement slab. There was no observed staining in the dirt after the slab and piping was removed. Samples were collected from the soil in the area underneath the B444 slab. In addition, samples were collected of the water in the excavation, and also the mud where present. All results were below action levels.

Based on this information, backfill will be allowed at risk.

Contact Record Prepared by: J. Mike Swartz

Required Distribution:

M. Aguilar, USEPA  
H. Ainscough, CDPHE  
S. Bell, DOE-RFPO  
J. Berardini, K-H  
B. Birk, DOE-RFPO  
L. Brooks, K-H ESS  
L. Butler, K-H RISS  
G. Carnival, K-H RISS  
N. Castaneda, DOE-RFPO  
C. Deck, K-H Legal  
N. Demos, SSOC  
S. Gunderson, CDPHE  
M. Keating, K-H RISS  
G. Kleeman, USEPA  
D. Kruchek, CDPHE  
J. Legare, DOE-RFPO

D. Mayo, K-H RISS  
J. Mead, K-H ESS  
S. Nesta, K-H RISS  
L. Norland, K-H RISS  
K. North, K-H ESS  
E. Pottorff, CDPHE  
A. Primrose, K-H RISS  
M. Roy, DOE-RFPO  
R. Schassburger, DOE-RFPO  
S. Serreze, K-H RISS  
D. Shelton, K-H ESS  
C. Spreng, CDPHE  
S. Surovchak, DOE-RFPO  
J. Walstrom, K-H RISS  
K. Wiemelt, K-H RISS  
C. Zahm, K-H Legal

Additional Distribution:

M. Swartz, K-H RISS  
D. Clark, K-H RISS  
J. Hammack, K-H RISS  
G. Carnival, K-H RISS  
G. Kelly, K-H RISS

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264

## Appendix 4 444 Cluster Characterization Reports

Refer to the attached Articles 1 through 8 for copies of the PDSR and RLCR cover pages, signature pages, and CDPHE concurrence letters.

### Pre-Demolition Survey Reports (PDSRs)

- Article 1    **Building 448**  
PDSR for Building 448 Closure Project, Version 0, dated August 30, 2004  
CDPHE concurrence letter dated September 9, 2004
- Article 2    **Building 447**  
PDSR for Building 447 Closure Project, Version 0, dated September 21, 2004  
CDPHE concurrence letter dated October 1, 2004
- Article 3    **Building 451**  
PDSR for building 451 Closure Project, Version 0, dated September 25, 2004  
CDPHE concurrence letter dated October 6, 2004
- Article 4    **Building 445**  
PDSR for Building 445 Closure Project, Version 0, dated January 28, 2005  
CDPHE concurrence letter dated February 8, 2005
- Article 5    **Building 444**  
PDSR for Building 444 Closure Project, Revision 0, dated February 16, 2005  
CDPHE concurrence letter dated March 2, 2005
- Article 6    **Building 450**  
PDSR for Building 450 Closure Project, Version 0, dated February 28, 2005  
CDPHE concurrence letter dated March 10, 2005

### Reconnaissance Level Characterization Reports (RLCRs)

- Article 7    **Building 444, 445, 447, 448, 450, 451, 455**  
RLCR for the 444 Cluster Closure Project, Revision 0, dated September 5, 2002  
CDPHE concurrence letter dated November 14, 2002
- Article 8    **Building 427, 449, 449A, 449C, S449, 453, & 457 Pad**  
RLCR for the 444 Cluster Closure Project, Revision 0, dated September 23, 2002  
CDPHE concurrence letter dated December 24, 2002



**Rocky Flats Environmental Technology  
Site**

**PRE-DEMOLITION SURVEY REPORT (PDSR)**

**Building 448 Closure Project**

**VERSION 0**

**August 30, 2004**

**CLASSIFICATION REVIEW NOT REQUIRED PER  
EXEMPTION NUMBER CEX-005-02**

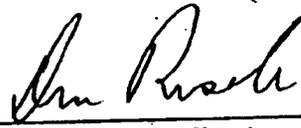
# PRE-DEMOLITION SURVEY REPORT (PDSR)

## Building 448 Closure Project

VERSION 0

August 30, 2004

Reviewed by:

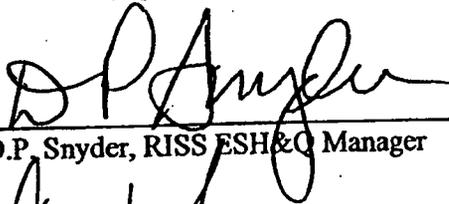


Date:

8/30/04

Don Risoli, Quality Assurance

Reviewed by:

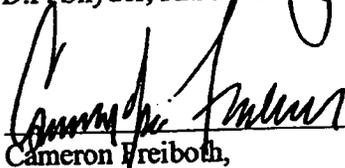


Date:

8/30/04

D.P. Snyder, RISS ESH&Q Manager

Approved by:



Date:

08/30/04

Cameron Freiboth,  
K-H Area 3 D&D Project Manager

Revised 0804

CORRES. CONTROL  
INCOMING LTR NO.

00397RF04

DUE DATE

ACTION

RECEIVED

2004 SEP 14 A STATE OF COLORADO

Bill Owens, Governor

Douglas H. Benevento, Executive Director

CORRESPONDENCE  
CONTROL

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S.  
Denver, Colorado 80246-1530  
Phone (303) 692-2000  
TDD line (303) 691-7700

Laboratory and Radiation Services Division  
8100 Lowry Blvd.  
Denver, Colorado 80230-6928  
(303) 692-3090

Located in Glendale, Colorado.

<http://www.cdphs.state.co.us>

September 9, 2004

Mr. Joe Legare

Director, Project Management Division

U.S. Department of Energy, Rocky Flats Project Office

10808 Highway 93, Unit A

Golden, CO 80403-8200

RE: Pre-Demolition Survey Report (PDSR) for Building 448 - Approval

Dear Mr. Legare:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division has reviewed the PDSR for Building 448; Revision 0 dated August 30, 2004. This PDSR for B448, which is a part of the B444 Cluster, was received on September 3, 2004. Based on the information contained in this PDSR, and modifications as provided by Duane Parsons with KH on September 9, 2004, we are hereby approving this PDSR (as modified) for Building 448.

As stated in this PDSR, beryllium contamination (up to 3 ug/100cm<sup>2</sup>) remaining in B448 has been sprayed with a fixative to prevent releases during demolition. However, fixing contamination is not considered to be the same as actual decontamination (removal). As such, areas with fixed beryllium contamination need to be properly identified, managed, and disposed. Since there are areas of the slab that may be greater than 3 feet below future grade, and may remain, the location and level of beryllium contamination above 0.2 ug/100cm<sup>2</sup> that may have been fixed on the remaining concrete must be properly documented in the Closeout Report. Since at least some of the slab is expected to be removed, concrete with beryllium contamination above 0.2 ug/100cm<sup>2</sup> prior to application of fixative cannot be recycled and must be sent offsite for proper disposal.

If you have any questions regarding this correspondence please contact me at (303) 692-3367, or David Kruchek at (303) 692-3328.

Sincerely,

*Steven H. Gunderson*

Steven H. Gunderson  
RFCA Project Coordinator

cc: Gary Morgan, DOE  
Dave Shelton, KH  
Steve Nesta, KH  
Administrative Records Building T130G

Karen Wiemelt, KH  
Mark Aguilar, EPA  
Sam Garcia, EPA



Colorado Department  
of Public Health  
and Environment

DIST.	LTR	ENC
BERARDINI, J.H.	X	
BOGHAR, E.S.	X	
BROOKS, L.	X	
BUTLER, L.	X	
CARPENTER, M.	X	
CROCKETT, G. A.	X	
DECK, C. A.	X	
DEGENHART, K. R.		
DIETER, T. J.		
FERRERA, D. W.	X	
GIACOMINI, J. J.	X	
LINDSAY, D. C.	X	
LONG, J. W.		
LYLE, J. L.		
MARTINEZ, L. A.	X	
MAGEL, R. E.	X	
NESTA, S.	X	
NORTH, K.	X	
RODGERS, A. D.		
SHELTON, D. C.	X	
SPEARS, M. S.	X	
PIZZUTO, V.M.		
TUOR, H. R.	X	
WIEMELT, K.	X	
WILLIAMS, J. L.		
ZAHM, C.	X	

Parsons, DIX

COR. CONTROL	X
ADMIN. RECORD	X
PATS/130	

Reviewed for Addressee  
Corres. Control RFP

9/14/04  
Date By

Ref. Ltr. #

DOE ORDER #

5400.1

268

## **Article 2 Building 447**

- **PDSR for Building 447 Version 0, dated September 21, 2004**
- **CDPHE concurrence letter dated October 1, 2004**



**Rocky Flats Environmental Technology  
Site**

**PRE-DEMOLITION SURVEY REPORT (PDSR)**

**Building 447 Closure Project**

**VERSION 0**

**September 21, 2004**

**CLASSIFICATION REVIEW NOT REQUIRED PER  
EXEMPTION NUMBER CEX-005-02**

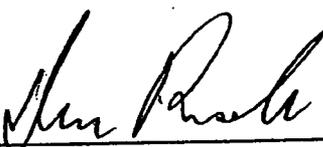
# PRE-DEMOLITION SURVEY REPORT (PDSR)

## Building 447 Closure Project

VERSION 0

September 21, 2004

Reviewed by:

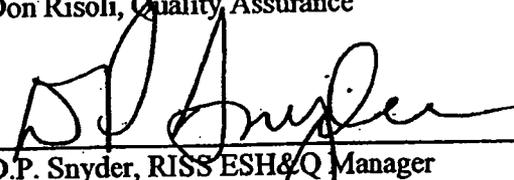


Don Risoli, Quality Assurance

Date:

9/23/04

Reviewed by:

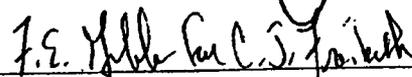


D.P. Snyder, RISS ESH&Q Manager

Date:

9/27/04

Approved by:



Cameron Freiboth,  
K-H Area 3 D&D Project Manager

Date:

9/23/04

# STATE OF COLORADO

Bill Owens, Governor  
Douglas H. Benevento, Executive Director

*Dedicated to protecting and improving the health and environment of the people of Colorado*

4300 Cherry Creek Dr. S.  
Denver, Colorado 80246-1530  
Phone (303) 692-2000  
TDD Line (303) 691-7700  
Located in Glendale, Colorado

Laboratory and Radiation Services Division  
8100 Lowry Blvd.  
Denver, Colorado 80230-6928  
(303) 692-3090

<http://www.cdphe.state.co.us>



Colorado Department  
of Public Health  
and Environment

October 1, 2004

Mr. Joe Legare  
Director, Project Management Division  
U.S. Department of Energy, Rocky Flats Project Office  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

**RE: Pre-Demolition Survey Report (PDSR) for Building 447 - Approval**

Dear Mr. Legare:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division has reviewed the PDSR for Building 447; Revision 0 dated September 21, 2004. This PDSR was received on October 1, 2004. We have provided comments and revisions have been made to this PDSR. Based on the information contained in this PDSR and revisions made, we are hereby approving the PDSR, as revised, for Building 447.

As stated in this PDSR, Building 447 is a Type 2 Facility and has not been completely decontaminated. Uranium contamination above unrestricted release levels remains in areas of Building 447, as well as in the soil, and will be removed as discussed in this PDSR. As also discussed, remaining uranium and beryllium contamination has been covered with a fixative and will be protected from release during demolition activities. However, fixing beryllium contamination is not considered to be the same as actual decontamination (removal). As such, areas with fixed beryllium contamination need to be properly identified, managed, and disposed. Since there are areas of the slab that will be greater than 3 feet below future grade, and will remain (as discussed in this PDSR), the location and level of beryllium contamination above 0.2 ug/100cm<sup>2</sup> and uranium contamination above unrestricted release levels that may remain and/or have been fixed on the concrete remaining, or remaining in the soil, must be properly documented in the Closeout Report. Neither concrete, nor other potentially recyclable material, with beryllium contamination above 0.2 ug/100cm<sup>2</sup> prior to application of fixative can be recycled and must be sent offsite for proper disposal.

As previously agreed, close-in air monitoring for possible beryllium releases will be performed during demolition of B447.

It is also our understanding that if process waste lines are exposed during the demolition of B447, they will be removed or filled with grout. These and other possible issues that may arise will be resolved utilizing the consultative process.

If you have any questions regarding this correspondence please contact me at (303) 692-3367, or David Kruckek at (303) 692-3328.

Sincerely,

  
Steven H. Gunderson  
RFCA Project Coordinator

cc: Gary Morgan, DOE  
Dave Shelton, KH  
Steve Nesta, KH  
Administrative Records Building T130G

Mike Swartz, KH  
Mark Aguilar, EPA  
Sam Garcia, EPA

272

### **Article 3 Building 451**

- **PDSR for Building 451, Version 0, dated September 25, 2004**
- **CDPHE concurrence letter dated October 6, 2004**



**Rocky Flats Environmental Technology  
Site**

**PRE-DEMOLITION SURVEY REPORT (PDSR)**

**Building 451 Closure Project**

**VERSION 0**

**September 25, 2004**

**CLASSIFICATION REVIEW NOT REQUIRED PER  
EXEMPTION NUMBER CEX-005-02**

274

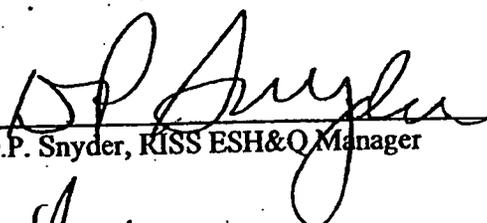
# PRE-DEMOLITION SURVEY REPORT (PDSR)

## Building 451 Closure Project

VERSION 0

September 25, 2004

Reviewed by:  Date: 9/27/04  
Don Risoli, Quality Assurance

Reviewed by:  Date: 9/27/04  
D.P. Snyder, RISS ESH&Q Manager

Approved by:  Date: 09/28/04  
Cameron Freiboth,  
K-H Area 3 D&D Project Manager

275



## Article 4 Building 445

- PDSR for Building 445, Version 0, dated January 28, 2005
- CDPHE concurrence letter dated February 8, 2005



# **Rocky Flats Environmental Technology Site**

## **PRE-DEMOLITION SURVEY REPORT (PDSR)**

### **Building 445 Closure Project**

**VERSION 0**

**January 28, 2005**

**Change Control:**

Rev 1. Revised Survey Unit 445101 Media Sample Results Table - 2/4/05.

Rev 1. Revised Survey Unit 445101 Radiological Media Sample Map - 2/4/05.

**CLASSIFICATION REVIEW NOT REQUIRED PER  
EXEMPTION NUMBER CEX-005-02**

278

# PRE-DEMOLITION SURVEY REPORT (PDSR)

## Building 445 Closure Project

VERSION 0

January 28, 2005

Reviewed by:

Don Risoli  
Don Risoli, Quality Assurance

Date: 2/2/05

Reviewed by:

D.P. Snyder  
D.P. Snyder, RISS ESH&Q Manager

Date: 2/2/05

Approved by:

Mike Swartz  
Mike Swartz,  
K-H/D&D Project Manager

Date: 2-1-05

# STATE OF COLORADO

Bill Owens, Governor  
Douglas H. Benevento, Executive Director

*Dedicated to protecting and improving the health and environment of the people of Colorado*

4300 Cherry Creek Dr. S.  
Denver, Colorado 80246-1530  
Phone (303) 692-2000  
TDD Line (303) 691-7700  
Located in Glendale, Colorado  
<http://www.cdphe.state.co.us>

Laboratory and Radiation Services Division  
8100 Lowry Blvd.  
Denver, Colorado 80230-6928  
(303) 692-3090



Colorado Department  
of Public Health  
and Environment

February 8, 2005

Mr. Joe Legare  
Director, Project Management Division  
U.S. Department of Energy, Rocky Flats Project Office  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

**RE: Pre-Demolition Survey Report (PDSR) for Building 445 - Approval**

Dear Mr. Legare:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division has reviewed the PDSR for Building 445; Revision 0 dated January 28, 2005. We received a copy of your letter regarding approval of B445 PDSR on February 7, 2005. Based on the information contained in this PDSR, we are hereby approving the PDSR for Building 445.

If you have any questions regarding this correspondence please contact me at (303) 692-3367, or David Kruchek at (303) 692-3328.

Sincerely,

Steven H. Gunderson  
RFCA Project Coordinator

cc: Gary Morgan, DOE  
Dave Shelton, KH  
██████████  
Duane Parsons, KH

J. Mike Swartz, KH  
Mark Aguilar, EPA  
Sam Garcia, EPA  
Administrative Records Building T130G

280

## **Article 5 Building 444**

- **PDSR for Building 444, Revision 0, dated February 16, 2005**
- **CDPHE concurrence letter dated March 2, 2005**

## PRE-DEMOLITION SURVEY REPORT (PDSR)

### BUILDING 444 CLOSURE PROJECT

~~VOLUME 3~~ *APP 7/29/05*  
Revision  $\emptyset$

February 16, 2005

Reviewed by: *Don Kisoli*  
Don Kisoli, Quality Assurance

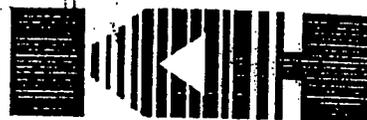
Date: 2/16/05

Reviewed by: *D.P. Snyder*  
D.P. Snyder, RISS ESH&Q Manager

Date: 2/16/05

Approved by: *Mike Swartz*  
Mike Swartz, K-H D&D Project Manager

Date: 2.16.05



## Rocky Flats Environmental Technology Site

### PRE-DEMOLITION SURVEY REPORT (PDSR)

### BUILDING 444 CLOSURE PROJECT

February 16, 2005

#### Change Control:

- Rev 1. Revised Section 3, LLW Summary Table, VIA 7 Pre-Fixative value - 2/23/05.
- Rev 1. Added Survey Tracking # 444-VIA1-03 survey to Attachment B-1 - 2/23/05.
- Rev 1. Added media sample gamma-spec. data and footnote to Survey Units 444101, 444102, 444104, 444501, 444502, 444503 and 444504 Media Data Sheets in Attachments B-19, B-22 and B-23 - 2/23/05.
- Rev 1. Revised VIA 2 Overview Map (fixed typo) in Attachment B-20 - 2/23/05.
- Rev 1. Revised Survey Unit 444202, Media Sample Data Sheets in Attachment B-20 - 2/23/05.
- Rev 1. Revised Survey Unit 444301 Comments Sheet, page 5 of 61 (fixed typo) in Attachment B-21 - 2/23/05.
- Rev 1. Revised Attachment A, 1<sup>st</sup> Floor Radiological Key Map - 2/23/05.
- Rev 2. Added text in Section 4.3 about RCRA Unit closure - 2/26/05.
- Rev 2. Added Comment #9, Attachment B-22, Survey Unit 444401, Page 5 of 53 - 2/26/05.
- Rev 2. Added survey dated 1/9/05 in Attachment B-26 - 2/26/05.
- Rev 2. Added Beryllium swipes 228-280 in Attachment C-8, VIA 8 Beryllium Table and maps - 2/26/05.
- Rev 2. Added Footnote #5 in Section 3, LLW Summary Table (page 4 of 12) - 2/26/05.
- Rev 2. Added text in Attachment D, page 1 of 22 - 2/26/05.
- Rev 2. Added missing page 2 of 3 of survey # 444-VIA4-05, in Attachments B-7 and B-9 - 2/26/05.

CLASSIFICATION REVIEW NOT REQUIRED PER  
EXEMPTION NUMBER CEX-005-02

# STATE OF COLORADO

Bill Owens, Governor  
Douglas H. Benevento, Executive Director

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4300 Cherry Creek Dr. S.      Laboratory and Radiation Services Division  
Denver, Colorado 80246-1530      8100 Lowry Blvd.  
Phone (303) 692-2000      Denver, Colorado 80239-6928  
TDD Line (303) 691-7700      (303) 692-3090  
Located in Glendale, Colorado  
<http://www.cdphe.state.co.us>



Colorado Department  
of Public Health  
and Environment

March 2, 2005

Mr. Joe Legare  
Director, Project Management Division  
U.S. Department of Energy, Rocky Flats Project Office  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

**RE: Pre-Demolition Survey Report (PDSR) for Building 444 - Approval**

Dear Mr. Legare:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division has reviewed the PDSR for Building 444 (Revision 0, dated February 16, 2005). Your letter regarding this PDSR, dated March 1, 2005, was received by fax on March 1, 2005. Based on the information contained in this PDSR, including specific information provided as revisions 1 & 2, we are hereby approving the PDSR for Building 444.

As stated in this PDSR, portions of B444 remain radiologically contaminated and will be removed as LLW. It is expected that, as stated, all of the slab will be removed and the remaining contamination will be properly identified, protected, segregated, controlled, and removed, and none will be left on site.

In addition, due to the relatively high levels of remaining radiological and beryllium contamination, although fixed, we expect appropriate worker protections (PPE) to be in place and IH and Rad air monitoring to be performed, and notification provided for releases that may be identified. In addition, it is our understanding that because of the relatively high levels of remaining fixed contamination, the wind restrictions as stated in the Facility Disposition RSOP (15 MPH) will be followed. We also expect the high contamination areas of the slab to be properly protected during building demolition to prevent releases of the fixed contamination due to the demolition activities.

It is also expected that liberal use of fixatives, as well as dust suppression, will be implemented during demolition and slab removal activities, and on any remaining contaminated debris during work stoppages (either during the day or overnight).

All demolition activities and related issues are expected to be discussed and resolved utilizing the consultative process.

If you have any questions regarding this correspondence please contact me at (303) 692-3367 or David Kruchek at (303) 692-3328.

Sincerely,

Steven H. Gundersen  
RFCA Project Coordinator

cc: Gary Morgan, DOE  
Dave Shelton, KH  
Steve Nesta, KH  
Duane Parsons, KH

J. Mike Swartz, KH  
Mark Aguilar, EPA  
Sam Garcia, EPA  
Administrative Records Building T130G

284

## **Article 6 Building 450**

- **PDSR for Building 450, Version 0, Dated February 28, 2005**
- **CDPHE concurrence letter dated March 10, 2005**



**Rocky Flats Environmental Technology  
Site**

**PRE-DEMOLITION SURVEY REPORT (PDSR)**

**Building 450 Closure Project**

**VERSION 0**

**February 28, 2005**

**CLASSIFICATION REVIEW NOT REQUIRED PER  
EXEMPTION NUMBER CEX-005-02**

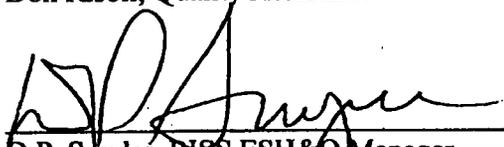
## PRE-DEMOLITION SURVEY REPORT (PDSR)

### Building 450 Closure Project

VERSION 0

February 28, 2005

Reviewed by:  Date: 3/1/05  
Don Risoli, Quality Assurance

Reviewed by:  Date: 3/1/05  
D.P. Snyder, RISS ESH&Q Manager

Approved by:  Date: 3.1.05  
Mike Swartz, K-H D&D Project Manager

# STATE OF COLORADO

Bill Owens, Governor  
Douglas H. Benevento, Executive Director

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Laboratory and Radiation Services Division  
8100 Lowry Blvd.  
Denver, Colorado 80230-6928  
(303) 692-3090

<http://www.cdphe.state.co.us>



Colorado Department  
of Public Health  
and Environment

March 10, 2005

Mr. Joe Legare  
Director, Project Management Division  
U.S. Department of Energy, Rocky Flats Project Office  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

**RE: Pre-Demolition Survey Report (PDSR) for Building 450 - Approval**

Dear Mr. Legare:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division has reviewed the PDSR for Building 450 (Version 0, dated February 28, 2005). Your letter regarding this PDSR was received by fax on March 9, 2005. Based on the information contained in this PDSR, we are hereby approving the PDSR for Building 450.

As stated in this PDSR, B450 (including the ducts, slab and below grade infrastructure) remains radiologically contaminated and will be appropriately protected, demolished, removed, and disposed as LLW-PCB Bulk Product Waste.

If you have any questions regarding this correspondence please contact me at (303) 692-3367 or David Kruchek at (303) 692-3328.

Sincerely,

Steven H. Gunderson  
RFCA Project Coordinator

cc: Gary Morgan, DOE  
Dave Shelton, KH  
Steve Nesta, KH  
Duane Parsons, KH

J. Mike Swartz, KH  
Mark Aguilar, EPA  
Sam Garcia, EPA  
Administrative Records Building T130G

288

**Article 7**  
**Buildings 444, 445, 447, 448, 450, 451, 455**

- **RLCR for the 444 Cluster Closure Project, Revision 0, dated September 5, 2002**
- **CDPHE concurrence letter dated November 14, 2002**



# **Rocky Flats Environmental Technology Site**

## **RECONNAISSANCE LEVEL CHARACTERIZATION REPORT (RLCR)**

### **444 CLUSTER CLOSURE PROJECT**

**Buildings 444, 445, 447, 448, 450, 451 & 455**

**REVISION 0**

**September 5, 2002**

**CLASSIFICATION REVIEW NOT REQUIRED PER  
EXEMPTION NUMBER CEX-005-02**

290

# RECONNAISSANCE LEVEL CHARACTERIZATION REPORT (RLCR)

## 444 CLUSTER CLOSURE PROJECT

Buildings 444, 445, 447, 448, 450, 451 & 455

REVISION 0

September 5, 2002

Reviewed by:

  
Paul Miles, Quality Assurance

Date:

9/11/02

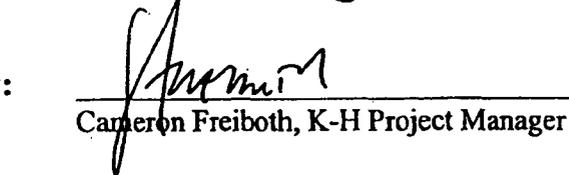
Reviewed by:

  
Duke Snyder, RISS ESH&Q Manager

Date:

9/11/02

Approved by:

  
Cameron Freiboth, K-H Project Manager

Date:

09/11/02

# STATE OF COLORADO

Bill Owens, Governor  
Janie E. Norton, Executive Director

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4300 Cherry Creek Dr. S.  
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Laboratory and Radiation Services Division  
8100 Lowry Blvd.  
Denver, Colorado 80230-6928  
(303) 692-3090



Colorado Department  
of Public Health  
and Environment

November 14, 2002

Mr. Joseph A. Legare, Assistant Manager  
Environment and Stewardship  
U.S. Department of Energy, RFEO  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

Post-It® Fax Note	7871	Date	11-14-02	Pages	2
To	C. Freiloth	From	J. Hindman		
Co./Dept	K-H	Co.	CDPHE		
Phone #	303-966-2823	Phone #	303-692-3345		
Fax #	303-966-6678	Fax #	303-759-5355		

**RE: RLCR for the Buildings 444, 445, 447, 448, 450, 451 and 455 at Rocky Flats Environmental Technology Site (RFETS)**

Dear Mr. Legare:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division (the "Division") has completed reviewing the *Reconnaissance Level Characterization Report (RLCR) for the 444 Cluster Closure Project Buildings 444, 445, 447, 448, 450, 451 & 455 (Revision 0, dated September 5, 2002)*. In accordance with Section 3.3.4 of the *Decommissioning Program Plan*, the Division hereby concurs with the determination that Buildings 445, 448, 450, 451 and 455 are Type 2 facilities. Additionally, the Division concurs that most of Buildings 444 and 447 are Type 2. However, our concurrence is subject to Division approval of work packages prior to conducting work on the following items:

- eight (8) large vertical vacuum casting furnaces located in rooms 10, 109 and 201 of Building 444;
- the old arc furnace located in room 405 of Building 447;
- the Retech Arc Furnace located in room 405B of Building 447;
- three (3) vacuum furnaces located in Room 403 of Building 447; and
- the chip roaster located in Building 447.

Work on the above listed items require Division approval due to the anticipated complexity involved with their decontamination and/or removal and the fact that the associated activities are non-standard. If RFETS is unwilling to accept this approach, then Buildings 444 and 447 will need to be reclassified as Type 3 facilities. Additionally, the Division has prepared several comments that are attached and need to be adequately addressed prior to conducting work related to the comments. If you have any questions regarding this matter please contact James Hindman at (303) 692-3345.

Sincerely,

Steven H. Gunderson  
RFCA Project Coordinator

cc: S. Tower, DOE-RFEO  
C. Freiloth, Kaiser-Hill  
D. Shelton, Kaiser-Hill

T. Rehder, EPA Region VIII  
D. Miller, AGO  
Administrative Records, Building T130G

292

## Article 8

### Buildings 427, 449, 449A, 449C, S449, 453, 454, & 457

- RCLR for the 444 Cluster Closure Project, Revision 0, dated September 23, 2002
- CDPHE concurrence letter dated December 24, 2002



# **Rocky Flats Environmental Technology Site**

## **RECONNAISSANCE LEVEL CHARACTERIZATION REPORT (RLCR)**

### **444 CLUSTER CLOSURE PROJECT**

**Buildings 427, 449, 449A, 449C, S449, 453, 454 & 457 Pad**

**REVISION 0**

**September 23, 2002**

**CLASSIFICATION REVIEW NOT REQUIRED PER  
EXEMPTION NUMBER CEX-005-02**

# RECONNAISSANCE LEVEL CHARACTERIZATION REPORT (RLCR)

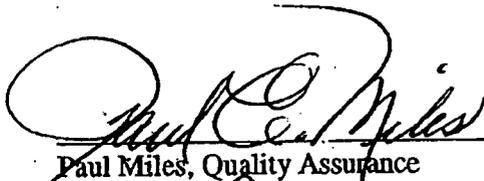
## 444 CLUSTER CLOSURE PROJECT

Buildings 427, 449, 449A, 449C, S449, 453, 454 & 457 Pad

REVISION 0

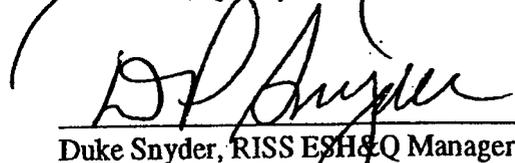
September 23, 2002

Reviewed by:

  
Paul Miles, Quality Assurance

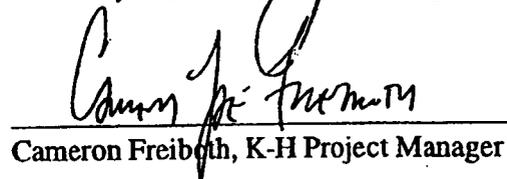
Date: 9/23/02

Reviewed by:

  
Duke Snyder, RISS ESH&Q Manager

Date: 9/27/02

Approved by:

  
Cameron Freiboth, K-H Project Manager

Date: 09/23/02

## STATE OF COLORADO

Bill Owens, Governor  
Douglas H. Benevento, Acting Executive Director

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<http://www.cdphs.state.co.us>

Laboratory and Radiation Services Division  
8100 Lowry Blvd.  
Denver, Colorado 80230-6928  
(303) 692-3090



Colorado Department  
of Public Health  
and Environment

December 24, 2002

Mr. Joseph A. Legare, Assistant Manager  
Environment and Stewardship  
U.S. Department of Energy, RFFO  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

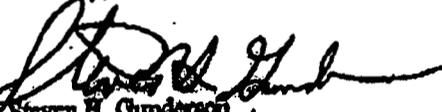
Post-It® Fax Note	7671	Date	01-06-03
To	C. Freiboth	From	J. Hindman
Div/Dept.	K-K	Co.	CDPHE
Phone #	303-966-2828	Phone #	303-692-3345
Fax #	303-966-6678	Fax #	303-759-5355

RE: RLCR for Buildings 427, 449, 449A, 449C, S449, 453, 454, and the 457 Pad at the Rocky Flats Environmental Technology Site (RFETS)

Dear Mr. Legare:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division (the "Division") has completed reviewing the *RFETS Reconnaissance Level Characterization Report (RLCR) for the 444 Cluster Closure Project Buildings 427, 449, 449A, 449C, S449, 453, 454 & 457 Pad (Revision 0, dated September 23, 2002)*. On December 11, 2002, Division representatives toured these facilities accompanied by RFETS personnel. The Division has also reviewed the revised pages to the RLCR submitted via e-mail on December 17, 2002. In accordance with Section 3.3.4 of the *Decommissioning Program Plan*, the Division hereby concurs with the determination that Buildings 427, 449, 449C, S449, 454 and the 457 Pad are Type 1 facilities. Additionally, the Division concurs that Buildings 449A and 453 are Type 2 facilities. In accordance with the protocols approved per the final Rocky Flats Cleanup Agreement (RFCA), activities in these facilities involving decontamination, the removal of facility components, and demolition will need to follow the proper notification procedures, work control practices, and the RFCA consultative process. Additional characterization of the attic portion of Building 449A will be necessary before the Pre-Demolition Survey (PDS) of this facility can be considered complete. However, the connex container incorporated into the western portion of Building 449A may be removed for use as a beryllium waste container without additional characterization or decontamination, as long as the other portions of Building 449A are not disturbed. If you have any questions regarding this matter please contact ~~James Hindman~~ at (303) 692-3345.

Sincerely,

  
Steven H. Gundersen  
RFCA Project Coordinator

cc: S. Tower, DOE-RFFO  
C. Freiboth, Kaiser-Hill  
D. Shelton, Kaiser-Hill

T. Rehder, EPA Region VIII  
D. Miller, AGO  
Administrative Records, Building T130G

## Appendix 5

### CDPHE RSOP Notification Concurrence

#### Building 444 Cluster

- Article 1 February 22, 2001, Facility Component RSOP – Component removal and decontamination activities
- Article 2 March 6, 2003, Notification by RFETS to invoke the RSOP for Facility Component removal and decontamination activities for Buildings 444, 445, 447, 448, 450, and 455
- Article 3 May 9, 2003, Notification by RFETS to invoke the RSOP for Facility Component removal and decontamination activities for Closure of the portions of the portions of RCRA Units 39 and 40 located in Buildings 444 and 447 (incorporates previously submitted CDDs).
- Article 4 September 15, 2004, Building 448 Facility Disposition RSOP
- Article 5 October 7, 2004, Building 447 Facility Disposition RSOP
- Article 6 October 14, 2004, Building 451 Facility Disposition RSOP
- Article 7 February 8, 2005, Buildings 444, 445, & 450 Facility Disposition RSOP

ROCKY FLATS ENVIRONMENTAL  
TECHNOLOGY SITE

RFCAs Standard  
Operating Protocol  
for  
Facility Component Removal,  
Size Reduction, and  
Decontamination Activities

Revision 3  
May 27, 2003

Approval Received February 22, 2001  
Approval letters and references contained in Administrative Record File

Reviewed for Classification/UCNI (U, NU)

By: S. Mathiasmeier (on file)

Date: 02-05-01

## Article 2

**March 6, 2003, Notification by FRETTS to invoke the RSOP for Facility Component Removal, Size Reduction and Decontamination Activities for Buildings 444, 445, 447, 448, 450, 451.**

Revised 02/03

CORRES. CONTROL  
INCOMING LTR NO.

20261 RF03

DUE DATE  
ACTION

DIST.	LTR	OK
BERARDINI, J.H.	X	
BOONAR, E.S.	X	
CROCKETT, G.A.		
DECK, G.A.	X	
DECONIART, K.R.		
DIETER, T.J.		
DIETER, S.E.	X	
FERRERA, D.W.	X	
FERRIS, M.S.		
GERMAN, A.L.		
GIACOMINI, J.J.		
SCOTT, J.H.	X	
LINDSAY, D.C.	X	
LONG, J.W.		
LYLE, J.L.		
MARTINEZ, L.A.	X	
MAGEL, R.E.	X	
MORRIS, K.	X	
PARKER, A.M.	X	
POWERS, K.P.		
RODGERS, A.D.		
SHELTON, D.C.	X	
SPEARS, M.S.		
TRESE, K.D.	X	
TUCKER, N.R.	X	
WILLIAMS, J.L.		
NESTA, S.	X	
CRACKS, L.	X	

COR. CONTROL	X
ADMIN. RECORD	X
PATS/130	

Reviewed for Addressee  
Corres. Control RFP

3/13/03  
Date By

Ref. Ltr. #

DOE ORDER #  
5400-1

RECEIVED

STATE OF COLORADO  
CORRESPONDENCE CONTROL



Colorado Department  
of Public Health  
and Environment

Bill Owens, Governor  
Douglas H. Benevento, Executive Director  
Dedicated to protecting and improving the health and environment of the people of Colorado  
4300 Cherry Creek Dr. S. Laboratory Services Division  
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Phone (303) 692-2000 Denver, Colorado 80230-6928  
TDD Line (303) 691-7700 (303) 692-3090  
Located in Glendale, Colorado  
<http://www.cdphe.state.co.us>

March 6, 2003

Mr. Richard J. DiSalvo, Acting Assistant Manager  
Environment and Stewardship  
U.S. Department of Energy, RFFO  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

RE: Notification by Rocky Flats Environmental Technology Site (RFETS) to invoke the Rocky Flats Cleanup Agreement Standard Operating Protocol (RSOP) for Facility Component Removal, Size Reduction, and Decontamination Activities for Buildings 444, 445, 447, 448, 450, 451, and 455

Dear Mr. DiSalvo:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division (the "Division") has reviewed the January 30, 2003 letter from DOE-RFFO and the accompanying notification package received on February 4, 2003, notifying us of your intent to utilize the RSOP for Facility Component Removal, Size Reduction, and Decontamination Activities (the "Component RSOP") for the decontamination, size reduction, and component removal needed in order to bring Buildings 444, 445, 447, 448, 450, 451, and 455 to the unrestricted release criteria. We hereby formally agree that the activities described in the notification may proceed utilizing the Component RSOP and the active consultative process described in your notification letter. As mentioned in your letter, the building shell, including the floor, must not be breached during component removal activities without specific approval on a case-by-case basis from the Division. If you have any questions regarding this correspondence, please contact me at (303) 692-3367 or James Hindman at (303) 692-3345.

Sincerely,

Steven H. Gunderson  
RFCA Project Coordinator

- cc: S. MacLeod, DOE-RFFO
- S. Tower, DOE-RFFO
- S. NESTA, K-H RISS
- D. Shelton, Kaiser-Hill
- T. Rehder, EPA Region VIII
- D. Miller, AGO
- D. Kruchek, CDPHE
- J. Schieffelin, CDPHE
- RFETS Administrative Records, Building T130G

300

## Article 3

**May 9, 2003, Notification by RFETS to invoke the RSOP for Facility Component Removal, Size Reduction and Decontamination Activities for Closure of the portions of RCRA Units 39 and 40 Located in Buildings 444 and 447.**

- **CDD for Partial Closure of RCRA Process Waste System Unit 40 in Buildings 444/447, dated September 25, 2003**
- **CDD for Partial Closure of Unit 40, Acid and Cyanide Waste System, dated January 13, 2003.**

cc: Childress Oman  
Clark Padron  
Devere  
Merrill

Skuller

# STATE OF COLORADO

Bill Owens, Governor  
Douglas H. Benevento, Executive Director

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Located in Glendale, Colorado  
<http://www.cdphe.state.co.us>

Laboratory Services Division  
8100 Lowry Blvd.  
Denver, Colorado 80230-6928  
(303) 692-3000



Colorado Department  
of Public Health  
and Environment

May 9, 2003

Mr. Richard J. DiSalvo, Acting Assistant Manager  
Environment and Stewardship  
U.S. Department of Energy, RFFO  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

Post-It Fax Note	7871	Date	05-09-03	# of pages	2
To	C. Freiboth	From	J. Hindman		
Co./Dept	K-H RISE	Co.	CDPHE		
Phone #	303-966-2823	Phone #	303-692-3345		
Fax #	303-966-6678	Fax #			

**RE:** Notification by Rocky Flats Environmental Technology Site (RFETS) to invoke the Rocky Flats Cleanup Agreement Standard Operating Protocol (RSOP) for Facility Component Removal, Size Reduction, and Decontamination Activities for Closure of the portions of RCRA Units 39 and 40 Located in Buildings 444 and 447

Dear Mr. DiSalvo:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division (the "Division") has reviewed the February 6, 2003 letter from DOB-RFFO and the accompanying notification package received on February 12, 2003, notifying us of your intent to utilize the RSOP for Facility Component Removal, Size Reduction, and Decontamination Activities (the "Component RSOP") for the closure of the remaining portions of interim status RCRA Units 39 and 40 located in Buildings 444 and 447. As stated in your letter, partial closure of Unit 40 will be completed pursuant to the two previously approved closure description documents for the Process Waste Sinks and the Acid Waste Tank System and the Cyanide Waste Tank System. Specifically, the portions of RCRA Units 39 and 40 that will be closed under this Component RSOP Notification are Units 39.01 (Roll/Fabric Filter System in Building 444), 39.02 (Roll/Fabric Filter System in Building 447), 40.04 (Process Waste Tank T-2), 40.05 (Process Waste Tank T-3), 40.35 (Holding Tank T-4), 40.36 (Sump Tank ST-5), and 40.37 (Tank T-6). We hereby formally agree that the activities described in the notification may proceed utilizing the Component RSOP, with the following conditions:

1. In order for the Division to accept the complete or partial closure of any unit or portion thereof that remains after closure, a certification of closure must be submitted to the Division. The certification of closure will need to be signed by the facility and by an independent Colorado registered professional engineer (P.E.) in accordance with the requirements of the approved Closure Plan and Section 264.115 of the Colorado Hazardous Waste Regulations (6 CCR 1007-3). The certification of closure may be submitted for either a partial closure of a unit or when an entire unit has been completely closed. Regardless of when the certification of closure is prepared and submitted, it is expected that the certifying P.E. will be involved in the closure process to the extent necessary to adequately certify closure.

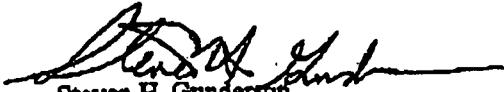
302

RFETS Building 444/447 Units 39 and 40 Closure Notification  
Page 2 of 2  
May 9, 2003

2. An adequate hazardous waste determination must be performed on the wash and rinse waters from the closure activities and they must be managed and disposed of appropriately.
3. The tanks mentioned in Section 2.1.2 of Attachment 1 of the Component RSOP Notification will need to be checked for the presence of sludge. Any sludge found must be managed and disposed of as low-level mixed waste, unless an adequate characterization of the sludge shows otherwise.
4. The secondary containment for each of the tank systems must be included in the closure activities in order to achieve complete closure.

An active consultative process must be utilized to keep us informed of the decommissioning strategy, planning, and activities for this project. As mentioned in your letter, the building shell, including the floor, must not be breached during component removal activities without specific approval on a case-by-case basis from the Division. If you have any questions regarding this correspondence, please contact me at (303) 692-3367 or ~~James Hinderson~~ (303) 692-3345.

Sincerely,

  
Steven H. Gunderson  
RFCA Project Coordinator

cc: D. Maxwell, DOE-RFFO  
S. Tower, DOE-RFFO  
S. Neta, K-H RISS  
D. Shelton, Kaiser-Hill  
T. Rehder, EPA Region VIII  
D. Miller, AGO  
D. Knochek, CDPHE  
J. Schieffelin, CDPHE  
RFETS Administrative Records, Building T130G

# STATE OF COLORADO

Bill Owens, Governor  
Douglas H. Benevento, Acting Executive Director

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(303) 692-3090

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Colorado Department  
of Public Health  
and Environment

September 25, 2002

Mr. Joseph A. Legare, Assistant Manager  
Environment and Stewardship  
U.S. Department of Energy, RFFO  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

Mr. Stephen Nesta, Environmental Manager  
Remediation, Industrial D&D, & Site Services  
Kaiser-Hill Company, L.L.C.  
Rocky Flats Environmental Technology Site  
10808 Highway 93, Unit B, Trailer T-893B  
Golden, CO 80403-8200

**RE: Conditional Approval of Closure Description Document (CDD) for Partial Closure of RCRA Process Waste System Unit 40 in Building 444/447 at the Rocky Flats Environmental Technology Site (RFETS)**

Dear Mr. Legare and Mr. Nesta:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division (the "Division"), has received your notice of intent to partially close RCRA Process Waste System Unit 40 in Building 444/447 and has reviewed the *Closure Description Document for Partial Closure of Interim Status Portion of Unit 40 in Building 444/447 - Process Waste Sinks*. The Division received this CDD from DOE and Kaiser-Hill on January 14, 2002. Based on discussions with facility representatives, the approval of this CDD was deferred until now. This CDD applies to the process waste sinks, sumps, and associated immediate ancillary equipment located in the following rooms in Building 444: 3, 7, 8, 10, 11, 14, 15, T101A, 109B, 118, 125, 137, 143, 143J, 148A, 150, 183, 203, 205, 206, 210, 212, 212A, 212B, 245, 245C, and the tunnel in the basement. This CDD also applies to the process waste sinks, sumps, and associated immediate ancillary equipment located in the following rooms in Building 447: 31, 31A, 36, 401, 401A, 403, 405, 405B, 406B, 407, 420A, 420B, and 501. Closure of the building floors and structures that serve as secondary containment for Unit 40 is deferred to decommissioning and environmental restoration activities conducted pursuant to the Rocky Flats Cleanup Agreement (RFCA).

As stated in the CDD, the portion of Unit 40 described in the CDD will be closed by the method described as "Unit Removal" in Section E of the approved *RCRA Closure Plan for Interim Status Units at RFETS*. In accordance with Section B.3 of the approved *RCRA Closure Plan for Interim Status Units at RFETS*, the Division hereby approves this CDD for the partial closure of RCRA Unit 40 in Building 444/447 with the following conditions:

1. Since the CDD refers to the Integrated Work Control Package (IWCP)/engineering work package for significant details regarding the partial closure of Unit 40, the Division requests that the IWCP/engineering package be provided to the Division for review at least seven (7) calendar days prior to

304

the start of work covered by the CDD. Additionally, if not already included in the IWCP/engineering work package, detailed drawings and/or photographs of the portion of the unit being removed must be provided for Division review at least seven (7) calendar days prior to conducting the work. These drawings/photographs must provide enough detail to describe the boundaries of the portion of the unit being removed.

2. Residual liquids encountered in the unit and liquids resulting from the closure activities must be managed appropriately as process waste and must not be sent to Building 891 for treatment as indicated in Section 3.0 of the CDD. Building 891 is authorized to manage remediation waste, but is not authorized to manage process wastes.
3. Since the CDD also describes non-RCRA decommissioning work (i.e., removal of cabinets and counter tops, disconnection of various plant systems) regulated under the Rocky Flats Cleanup Agreement (RFCA), these activities must be coordinated with Division staff according to the consultative process described in the Decommissioning Program Plan (DPP).
4. Since the portion of Unit 40 contained within Building 444/447 will likely be closed by removing sections under separate work plans that will be coordinated with the D&D schedule for the building, the 180-day limit for completing closure activities per Section B.4.b of the approved *RCRA Closure Plan for Interim Status Units at RFETS* is waived. Closure of the portion of Unit 40 described in this CDD must be scheduled and conducted according to the Integrated Sitewide Baseline. Additionally, a unit-specific closure schedule must be provided to the Division in accordance with Section B.5.d at least seven (7) calendar days prior to the start of closure activities. The unit-specific closure schedule must show how this closure work is integrated with the overall project to decommission and demolish Building 444/447. It is expected that the Division will be notified of any significant changes to the unit-specific closure schedule according to the RFCA consultative process.

If you have any questions concerning this matter, please contact James Hindman at (303) 692-3345.

Sincerely,



Joe Schieffelin, Unit Leader  
Hazardous Waste Compliance Unit  
Federal Facilities Program

cc: S. MacLeod, U.S. DOE-RFFO  
A. Rosenman, Kaiser-Hill  
D. Shelton, Kaiser-Hill  
D. Miller, AGO  
T. Rehder, EPA

S. Garcia, City of Broomfield  
S. Gunderson, CDPHE  
Jefferson County Health Department  
Administrative Record, Building T130G

RECEIVED

CORRES. CONTROL  
INCOMING LTR NO.

2003 JAN 21 5 05 PM

STATE OF COLORADO

00024 RF03

CORRESPONDENCE  
CONTROL

Bill Owens, Governor  
Douglas H. Benevento, Acting Executive Director

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Denver, Colorado 80230-6928  
(303) 692-3090

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Colorado Department  
of Public Health  
and Environment

DUE DATE  
ACTION

DIST.	LTR	ENC
BOGNAR E	X	
CROCKETT G		
DECK C A	X	
DEGENHART K		
DIETER T J		
DIETERLE S E		
FERRERA D W	X	
FERRER M S		
GERMAN A L		
GIACOMINI J J		
ISON J H		
LINDSAY D C		
LONG J W		
LYLE J L		
MARTINEZ L A	X	
NAGEL R E	X	
NORTH K	X	
PARKER A M		
POWERS K		
RODGERS A D		
SHELTON D C	X	
SPEARS M S		
TRICE K D		
TUCKER N R		
WILLIAMS J L		
FRIGOLI C	X	
NESTA S	X	
ROZANOVAYA	X	
BULLER L	X	

January 13, 2003

Mr. Joseph A. Legare, Assistant Manager  
Environment and Stewardship  
U.S. Department of Energy, RFEO  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

Mr. Stephen Nesta, Environmental Manager  
Remediation, Industrial D&D, & Site Services  
Kaiser-Hill Company, L.L.C.  
Rocky Flats Environmental Technology Site  
10808 Highway 93, Unit B, Building 116  
Golden, CO 80403-8200

RE: Conditional Approval of Closure Description Document (CDD) for Partial Closure of Unit 40, Acid Waste System and Cyanide Waste System in Building 444/447 at the Rocky Flats Environmental Technology Site (RFETS).

Dear Mr. Legare and Mr. Nesta:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division (the "Division"), has received your notice of intent to partially close Hazardous/Mixed Waste Unit 40 in Building 444/447 and has reviewed the *Closure Description Document for Partial Closure of Interim Status Portion of Unit 40 in Building 444/447 - Acid Waste System and Cyanide Waste System*. The Division received this CDD from DOE and Kaiser-Hill on January 28, 2002. Based on discussions with facility representatives, the approval of this CDD was deferred until a meeting on January 8, 2003 where facility representatives decided that these closure activities should proceed as described in the CDD. This CDD applies to the acid and cyanide waste systems, specifically the acid and cyanide waste tanks located in Room 9A in the basement of Building 444, and ancillary equipment associated with these tanks. The acid waste tanks are identified in the *Master List of RCRA Hazardous Waste Units at Rocky Flats* as Acid Waste Tank T-1 (Interim Status Unit 40.02) and Acid Waste Tank T-2 (Interim Status Unit 40.03) whereas the cyanide waste tanks are identified in the same list as Cyanide Waste Tank T-3 (Interim Status Unit 40.06) and Cyanide Waste Tank T-4 (Interim Status Unit 40.07).

As stated in the CDD, the portion of Unit 40 described in the CDD will be closed by the method described as "Clean Closure by Decontamination" in Section C of the approved *RCRA Closure Plan for Interim Status Units at RFETS*. The CDD also states that portions of the system that cannot be rinsed or

COB CONTROL	X
ADMIN RECORD	X
PATS/130	

Reviewed for Addressee  
Corres. Control RFP

1/21/03  
Date By

Ref. Ltr. #

DOE ORDER #  
5400.1

306

verified as clean closed will be removed and managed as low-level mixed waste. Verbal approval was granted by James Hindman of the Division on January 8, 2003 to begin rinsing activities as described in the CDD. In accordance with Section B.3 of the approved *RCRA Closure Plan for Interim Status Units at RFETS*, the Division hereby approves this CDD for the partial closure of hazardous/mixed waste Unit 40 in Building 444/447 with the following conditions:

1. Samples of the final rinsate from the Cyanide Waste System must be analyzed for cyanides in addition to the other parameters described in the CDD.
2. Since the CDD also describes non-RCRA decommissioning work (i.e., disconnection and/or removal of various plant systems) regulated under the Rocky Flats Cleanup Agreement (RFCA), these activities must be coordinated with Division staff according to the RFCA consultative process.
3. Since the acid and cyanide waste systems are located within a building where beryllium contamination is possible, any equipment, waste, or other material removed from the area must be properly characterized for possible beryllium contamination and managed appropriately.

In accordance with 6 CCR 1007-3, Section 265.113(b) and Section B.4.b of the approved *RCRA Closure Plan for Interim Status Units at RFETS*, RFETS is expected to complete the required closure activities identified in this approved CDD for the acid and cyanide waste systems within 180 days after the approval date of January 13, 2003. If you have any questions concerning this matter, please contact James Hindman at (303) 692-3345.

Sincerely,



Joe Schieffelin, Unit Leader  
Hazardous Waste Compliance Unit  
Federal Facilities Program

cc: S. MacLeod, U.S. DOE-RFFO  
S. Tower, U.S. DOE-RFFO  
C. Freiboth, Kaiser-Hill  
S. Nesta, Kaiser-Hill  
A. Rosenman, Kaiser-Hill  
D. Shelton, Kaiser-Hill

T. Rehder, EPA  
S. Garcia, City of Broomfield  
Jefferson County Health Department  
D. Miller, AGO  
S. Gunderson, CDPHE  
Administrative Record, Building T130G

## Article 4

September 15, 2004, Building 448 Facility Disposition RSOP

Revised 08/04

CORRES. CONTROL  
INCOMING LTR NO.

00412 RF04

DUE DATE  
ACTION

RECEIVED

2004 SEP 20 A 11:38

STATE OF COLORADO

Bill Owens, Governor  
Douglas H. Benevento, Executive Director

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Denver, Colorado 80230-6928  
(303) 692-3090

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Colorado Department  
of Public Health  
and Environment

DIST.	LTR	ENC
BERARDINI, J.H.	X	
BOGNAR, E.S.	X	
BROOKS, L.	X	
BUTLER, L.	X	
CARPENTER, M.	X	
CROCKETT, G.A.	X	
DECK, C.A.	X	
DEGENHART, K.R.	X	
DIETER, T.J.	X	
FERRERA, D.W.	X	
GIACOMINI, J.J.	X	
LINDSAY, D.C.	X	
LONG, J.W.	X	
LYLE, J.L.	X	
MARTINEZ, L.A.	X	
NAGEL, R.E.	X	
NESTA, S.	X	
NORTH, K.	X	
RODGERS, A.D.	X	
SHELTON, D.C.	X	
SPEARS, M.S.	X	
PIZZUTO, V.M.	X	
TUOR, M.R.	X	
WIEMELT, K.	X	
WILLIAMS, J.L.	X	
ZAHM, C.	X	
Freiboth, C.	X	

September 15, 2004

Mr. Joseph Legare  
Director, Project Management Division  
U.S. Department of Energy, Rocky Flats Project Office  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

RE: B448 Facility Disposition RSOP Notification

Dear Mr. Legare:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division has reviewed your September 14, 2004 letter notifying us that the Facility Disposition RSOP will be utilized during the demolition of Building 448. We hereby agree that B448 may be demolished utilizing the Facility Disposition RSOP.

However, as discussed in our PDSR approval letter, since there are areas of the slab that may be greater than 3 feet below future grade, and may remain, the location and level of beryllium contamination above 0.2 ug/100cm<sup>2</sup> that may have been fixed on the remaining concrete must be properly documented in the Closeout Report. Also, based on the future depth of the slab, at least some of the slab is expected to be removed and concrete with beryllium contamination above 0.2 ug/100cm<sup>2</sup> prior to application of fixative cannot be recycled and must be sent offsite for proper disposal.

If you have any questions regarding this correspondence please contact me at (303) 692-3367 or David Kruckek at (303) 692-3328.

Sincerely,

Steven H. Gunderson  
RFCA Project Coordinator

COR. CONTROL	X
ADMIN. RECORD	X
PATS/130	

Reviewed for Addressee  
Corres. Control RFP

9/20/04  
Date By

cc: Gary Morgan, DOE  
Mark Aguilar, EPA  
Sam Garcia, EPA  
Cameron Freiboth  
Administrative Records Building T130G  
Karen Wiemelt, KH  
Dave Shelton, KH  
Steve NESTA, KH

Ref. Ltr. #

DOE ORDER #

5403.1

309

## Article 5

October 7, 2004, Building 447 Facility Disposition RSOP

## STATE OF COLORADO

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Douglas H. Benevento, Executive Director

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Colorado Department  
of Public Health  
and Environment

October 7, 2004

Mr. Joseph Legare  
Director, Project Management Division  
U.S. Department of Energy, Rocky Flats Project Office  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

**RE: B447 Facility Disposition RSOP Notification**

Dear Mr. Legare:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division has reviewed your October 1, 2004 letter (received October 7, 2004) notifying us that the Facility Disposition RSOP and Component Removal RSOP, as well as the ER RSOP, will be utilized during the demolition of Building 447. We hereby agree that Building 447 may be demolished utilizing the Facility Disposition RSOP and Component Removal RSOP.

However, the information provided in the "Description of Planned Activities", Attachment 1 to this Notification does not sufficiently describe the processes or activities to be performed during demolition of B447, or to identify and protect the remaining contamination or prevent releases of contamination during demolition. As such, detailed work plans will need to be provided prior to initiating demolition activities. In addition, the 6-point analysis required in Section 3.8 of the Component Removal RSOP also needs to be provided prior to initiating demolition activities.

Rather than providing another letter, this information and other issues that may arise may be provided and discussed utilizing the consultative process, and resolutions captured in Contact Records.

It is also our understanding, as stated in our PDSR approval letter, that close-in air monitoring for possible beryllium releases will be performed during demolition of B447, as well as appropriate monitoring for possible radiological issues.

If you have any questions regarding this correspondence please contact me at (303) 692-3367 or David Kruchek at (303) 692-3328.

Sincerely,

Steven H. Gunderson  
RFCA Project Coordinator

cc: Gary Morgan, DOE  
Mark Aguilar, EPA  
Sam Garcia, EPA  
Dyan Foss, KH  
Administrative Records Building T130G

Cameron Freiboth, KH  
Dave Shelton, KH  
Steve Nosta, KH  
J. Mike Swartz, KH

## Article 6

October 14, 2004, Building 451 Facility Disposition RSOP

Revised 10/04

CORRES. CONTROL  
INCOMING LTR NO.

00467RF04

DUE DATE

ACTION

DIST.	LTR	ENC
BERARDINI, J.H.	X	
BOGMAR, E.S.	X	
BROOKS, L.	X	
BUTLER, L.	X	
CARPENTER, M.	X	
CRUCCI, J.A.		
CROCKETT, G.A.		
DECK, C.A.	X	
DEGENHART, K.R.		
DEL VECCHIO, D.		
DIETER, T.J.		
FERRERA, D.W.	X	
GIACOMINI, J.J.		
LINDSAY, D.C.	X	
LONG, J.W.		
LYLE, J.L.		
MARTINEZ, L.A.	X	
MAGEL, R.E.	X	
NESTA, S.	X	
NORTH, K.	X	
SHELTON, D.C.	X	
SPEARS, M.S.	X	
TUOH, M.R.	X	
WEMELT, K.	X	
WILLIAMS, J.L.		
ZAHN, C.	X	
Foss, D.	X	
Freiboth, C.	X	
Swartz, M.	X	

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2004 OCT 20 A 5:00 STATE OF COLORADO

Bill Owens, Governor  
Douglas H. Benvenuto, Executive Director

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Colorado Department  
of Public Health  
and Environment

October 14, 2004

Mr. Joseph Legare  
Director, Project Management Division  
U.S. Department of Energy, Rocky Flats Project Office  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

RE: B451 Facility Disposition RSOP Notification

Dear Mr. Legare:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division has reviewed your October 12, 2004 letter notifying us that the Facility Disposition RSOP and Component Removal RSOP, as well as the ER RSOP, will be utilized during the demolition of Building 451. We hereby agree that Building 451 may be demolished utilizing the Facility Disposition RSOP and Component Removal RSOP.

Although not included in this Notification, as stated, the 6-point analysis required in Section 3.8.1 of the Component Removal RSOP, and our concurrence, has been provided in a Contact Record dated 10/12/04.

As also discussed in Attachment 1, and in our October 6, 2004 PDSR approval letter, prior to final determination regarding the disposition of the B451 slab, the results of the characterization of the slab will need to be provided to us for our approval, which will be provided utilizing the consultative process and recorded in a Contact Record.

Although it is stated in your letter that the Pre-Demolition Survey Report (PDSR) was submitted to us on November 21, 2002, it should be recognized that the PDSR for B451 was actually dated September 25, 2004 and sent to us on Oct 1, 2004. As such, the referenced date of November 12, 2002 is assumed to be related to the RLCR rather than the PDSR as stated.

It is also our understanding that close-in air monitoring for possible beryllium releases will be performed during demolition of B451, as well as appropriate monitoring for possible radiological issues.

If you have any questions regarding this correspondence please contact me at (303) 692-3367 or David Kruchek at (303) 692-3328.

Sincerely,

Steven H. Gunderson  
RFCA Project Coordinator

CDR. CONTROL	X
ADMIN. RECORD	X
FATS130	

Reviewed for Address  
Corres. Control RFP

10/14/04  
Date By

cc: Gary Morgan, DOE  
Mark Aguilar, EPA  
Sam Garcia, EPA  
Dyan Foss, KH  
Administrative Records Building T130G

Cameron Freiboth, KH  
Dave Shelton, KH  
Steve Nosta, KH  
J. Mike Swartz, KH

Ref. Ltr. #

DOE ORDER #  
5400-1

313

## Article 6

**February 8, 2005, Buildings 444, 445 & 450 Facility Disposition  
RSOP**

# STATE OF COLORADO

Bill Owens, Governor  
Douglas H. Benevento, Executive Director

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Denver, Colorado 80246-1530 8100 Lowry Blvd.  
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TDD Line (303) 691-7700 (303) 692-3090  
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<http://www.cdphe.state.co.us>



Colorado Department  
of Public Health  
and Environment

February 8, 2005

Mr. Joseph Legare  
Director, Project Management Division  
U.S. Department of Energy, Rocky Flats Project Office  
10808 Highway 93, Unit A  
Golden, CO 80403-8200

**RE: B444, 445, & 450 Facility Disposition RSOP Notification**

Dear Mr. Legare:

The Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division has reviewed your January 27, 2005 letter (received February 1, 2005) notifying us that the Facility Disposition RSOP and Component Removal RSOP will be utilized during the demolition of Buildings 444, 445, and 450. We hereby agree that Buildings 444, 445, and 450 may be demolished utilizing the Facility Disposition RSOP and Component Removal RSOP.

However, we are not agreeing, at this time, with any conclusions regarding the proposed demolition strategy as discussed in your letter. Specifically, we do not necessarily agree that the contaminated concrete ducts beneath the slabs (nor any contaminated part of these buildings) may be left in place if greater than 3 feet below grade, nor the proposal to fill these ducts with flowable fill without first applying fixative, nor that the only remaining contamination is located in the areas as identified in B444. We also recognize that the information provided in "Enclosure 1 Building Demolition Description with Conditions", which we believe to be the KH notification letter provided, does not sufficiently describe the processes or activities to be performed during demolition of B444, 445, or 450. As such, detailed work plans (as well as the PDSRs) will need to be provided prior to initiating demolition activities.

As stated in your letter, this information and other issues that may arise will be provided and discussed utilizing the consultative process, and resolutions captured in Contact Records as appropriate.

If you have any questions regarding this correspondence please contact me at (303) 692-3367 or David Kruchek at (303) 692-3328.

Sincerely,

Steven H. Gunderson  
RFCA Project Coordinator

cc: Gary Morgan, DOE  
Mark Aguilar, EPA  
Sam Garcia, EPA  
Dyan Foss, KH  
Administrative Records Building T130G

Cameron Freiboth, KH  
Dave Shelton, KH  
Steve Nesta, KH  
J. Mike Swartz, KH

## Appendix 6

**Closure Summary Report for Interim Status RCRA Units  
40.02, 40.03, 40.04, 40.05, 40.06, 40.07, 40.35, 40.36, 40.37.**

## **CLOSURE SUMMARY INFORMATION FOR INTERIM STATUS RCRA UNITS 40.02, 40.03, 40.04, 40.05, 40.06, 40.07, 40.35, 40.06, 40.37 in buildings 444 and 447.**

Pursuant to the *Rocky Flats Environmental Technology Site's (RFETS) "Closure Plan for Interim Status Units at RFETS,"* Rev. 2/15/2000, the *Rocky Flats Environmental Technology Site's (RFETS) "RFCA Standard Operating Protocol (RSOP) for Facility Component Removal, Size Reduction, and Decontamination Activities, Notification Letter, April 15, 2002"* (02-RF-00235), Kaiser-Hill is submitting the following closure summary information for the units in Buildings 444 and 447.

This summary information pertains to RCRA closure activities for Units 40.02 (Acid tank T-1), 40.03 (Acid Tank T-2) 40.06 (Cyanide Tank T-3), 40.07 (Cyanide Tank T-4) 40.04 (T-2), 40.05 (T-3), 40.35 (T-4), 40.36 (ST-5), 40.37 (T-6) ancillary piping, pumps, and secondary containments and liners in buildings 444 and 447. This summary is a requirement of Section 5, Closure of RCRA – Regulated Units, of the RSOP for Facility Component Removal, Size Reduction, and Decontamination Activities. This report contains a description of major closure activities and any deviations from those stated in the RSOP Notification Letter and other relevant information.

### **1.0 DESCRIPTION OF MAJOR CLOSURE ACTIVITIES**

Partial closure of Unit 40 was completed pursuant to RSOP Notification Letter for Component Removal, Size Reduction, and Decontamination Activities for RCRA Unit 39 and 40 Final Closure in Building 444/447 (CDPH approval – 09 May 03). This RSOP notification included the following Closure Description Documents:

- Closure Description Document for Partial Closure of Interim Status Portion of Unit 40 Building 444/447 – Process Waste Sinks (CDPHE approval – 25 Sept. 02),
- Closure Description Document for Partial Closure of Interim Status Portion of Unit 40 Building 444 – Acid Waste System and Cyanide Waste system (CDPHE approval Jan. 13, 03)

As discussed in the RSOP Notification Letter, Units 39.01 and 39.02 were roll filter units, which were removed during maintenance activities conducted as a portion of the RCRA Stable effort in 1997. These roll filter units were dispositioned as LLMW. The secondary containments for these units remained in place as they also serviced Units 40.36 and 40.37. Unit numbers 40.02, 40.03, 40.04, 40.05, 40.06, 40.07, 40.35, 40.36, and 40.37 were declared RCRA Stable and left in place. The original closure strategy for these units, was "Clean Closure" Clean Closure Option #2, under Section 5.1.1 of the RSOP. However, this strategy proved to be impractical and was not used. The final closure strategy varied on a case-by-case basis, and the details for each unit are summarized in this report.

Process waste sinks, sump systems, piping and associated ancillary equipment in buildings 444 and 447 were removed using work packages, T0110697, T0110698, T0110699 and T0109398 in accordance with the CDD approved on 25 Sept, 02. These items were dispositioned as LLMW.

RCRA Units 40.02, 40.03, 40.06 and 40.07 (Acid and Cyanide Waste Tanks) were taken out of service, and isolated from the process waste system, when building operations ceased in the early 1990s. These tanks were chemically decontaminated,

the final rinsate sampled, (RIN Number 03D0655) and all constituents of concern were below the RFCA Tier II action levels for groundwater. A state of Colorado registered PE performed the Clean Closure Certification, dated 08/16/04. Even though the tanks met the requirements for "Clean Closure" the closure strategy for these tanks was changed to "Closure by Removal". They were removed and disposed as sanitary waste in accordance with contact record 08/07/03 (Appendix 2, Article 44). The polymer secondary containment berm liners for these units were chemically decontaminated and sampled (RIN Numbers 03S0178, 03D0266) and did not meet clean closure standards. However, they were proven to be RCRA non-hazardous and were removed and managed as LLW. These closure activities were conducted under work package T011828-117.

The remaining portions of the process waste system were the tank units and associated secondary containment, piping, sumps and ancillary equipment that were left in place to manage ground water throughout the 444 cluster. Removal of these units was accomplished utilizing work package number T011828-117.

Unit 40.37, (T-6) was located in building 447. Due to the polymer composition of this tank, the closure strategy was changed to "Closure by Removal" per contact record 12/04/03 (Appendix 2, Article 48). The tank and its secondary containment berm were removed, packaged into box number B06954, and disposed as LLMW.

RCRA Units 40.04, and 40.05 (T-2 and T-3), the large holding tanks located in Room 1 of building 444, were used solely for ground water management since 1993. Samples of the water were collected from 1996 to 2000 and in 2001, per discussion with CDPHE, the F-codes associated with the tanks were dropped. Sampling was then performed on a quarterly basis, until the third quarter of 2003, when the ground water was approved for release directly to the storm drain system. The final rinsate for each tank was sampled (RIN Number 04S0011) and all constituents of concern were below the RFCA Tier II action levels for groundwater, except for a slightly elevated level of chromium, in tank T-3. However, the clean closure strategy was abandoned when physical inspection of the tank interiors revealed that both T-2 and T-3 contained several inches of sludge. The sludge was sampled (RIN Number 04C0807) and found to be RCRA non-hazardous. It was, however, contaminated with beryllium and depleted uranium. The closure strategy was changed to "Closure by Removal" per contact record 12/02/04, (Appendix 2, Article 63). The tanks were disposed as LLW.

Associated with tanks T-2 and T-3 were RCRA Units 40.35 (T-4), 40.36 (ST-5) and the Filter Sock Tank. Due to the material composition and size of these tanks, the closure strategy was also changed to "Closure by Removal" per contact record 12/04/03 (Appendix 2, Article 48).

The secondary containment berm walls for Units 40.04, 40.05, 40.35, and 40.36 were partially destroyed before chemical decontamination and sampling activities could be performed. Contact records 12/06/04 (Appendix 2, Article 64) and (Appendix 2, Article 65) address this issue and change the closure strategy to "Closure by Removal". After berm wall removal, the berm floors were scarified to perform surface decontamination. The scarification debris was sampled (RIN Number 05D0432) and was found to be RCRA non-hazardous.

RCRA Unit numbers 40.35 and 40.36, the filter sock tank, the berm wall debris, along with scarifying debris and remaining ancillary equipment and piping were packaged into cargo number X35872 and disposed as LLMW.

The above closure activities generated 299.51 tons (137 m<sup>3</sup>) LLMW, 8.62 tons (56 m<sup>3</sup>) LLW and 4.43 tons (8.5 m<sup>3</sup>) sanitary waste.

## 2.0 SUMMARY

The requirements stated in the RSOP Notification Letter for closure of RCRA Interim Status units 40.02, 40.03, 40.04, 40.05, 40.06, 40.07, 40.35, 40.36, 40.37 have been fulfilled. The tanks, ancillary equipment secondary containment berms / liners, sinks, ancillary equipment and piping were disassembled, appropriately characterized and packaged for disposal as LLMW, LLW or sanitary waste. All deviations from the original RSOP Notification and Closure Description Documents were properly documented through Regulatory Contact Records.

319  
319