

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

Date/Time: February 7, 2005

Site Contact(s): Dyan Foss
Phone: (303) 994-0325

Regulatory Contact: Edd Kray
Phone: (303) 994-3441

Agency: CDPHE

Purpose of Contact: Disposition of Area 7 Survey unit 8

Discussion

In accordance with the 776/777 DOP, Appendix I, the preparation of the facility for demolition is conducted in consultation with the CDPHE and is based on a series of decisions primarily related to maintaining releases to the environment and doses to the workers as low as reasonably achievable (ALARA). This contact record documents the activities that were conducted to prepare Area 7, survey unit 8 for demolition. Survey unit 8 comprises the compressor house on the north side of building 776.

The preparation process for survey unit 8 was initiated December 19, 2004 when a package for in-process radiological surveys was prepared and executed. Once the surveys were complete, it was determined that the in process and final surveys could be combined, and the CDPHE representative concurred with this approach. The area was surveyed in accordance with the Radiological Pre-Demolition Survey Plan for Buildings 776/777. As part of the ALARA-based decontamination, concrete shaving and hotspot removals were performed on a few floor and wall surfaces.

In addition to the radiological hazards, the non-radiological hazards have also been addressed in survey unit 8. The following summarizes the non-radiological activities:

- Portions of the floor in Room 150 were considered secondary containment for mixed residue transfer line. These areas were washed and rinsed, and CDPHE approved closure of this area in a contact record dated 12/16/04, contingent on final disposition of the building by removal.
- Chemicals and hazardous substances have been removed.
- Beryllium regulated and controlled areas have been closed. This survey unit includes rooms 150 and 150A, which were never listed on the historical list of rooms with potential beryllium contamination. The baseline beryllium characterization and subsequent surveys following equipment removal of this room found no removable beryllium contamination. Twenty-five (25) additional

samples were collected in the survey unit on horizontal surfaces from floor to ceiling. All samples were below the analytical reporting limit of 0.1 ug/100 cm².

- Polychlorinated biphenyls (PCB) hazards and equipment have been removed.
- Asbestos has been abated.

Based on the survey results and the principles of ALARA, the risks (industrial and radiological) to the workers are greater than the benefit in source term reduction that would be gained through additional decontamination. The state project representative agrees that decontamination inside survey unit 8 has progressed to the point of reasonably achievable. The following areas will require additional controls during demolition:

- The seam between the wall and slab for the wall between survey unit 8 and survey units 9 and 11
- The stairs leading into survey units 11 and 9 from survey unit 8

The controls for these areas may include any combination of the following:

- The areas will be painted orange, or some other bright color, to make the area readily identifiable during demolition.
- Special briefings will be held with equipment operators and dust control and waste crews prior to initiating demolition of these areas.
- Measures will be taken to minimize the stockpiling of the debris associated with this activity.

In summary, ALARA-based decontamination has been completed, Survey unit 8 will be surveyed for removable contamination, and controls applied during demolition. Due to the low levels of contamination in survey unit 8, encapsulation is not required, and the entire unit will not be painted with the exception of the areas mentioned above. This contact record will be placed in the demolition file for this survey unit.

Contact Record Prepared By: Dyan Foss

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