

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE REGULATORY CONTACT RECORD

Date/Time: January 13, 2005

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Agency: CDPHE

Purpose of Contact: Disposition of Area 6 Survey unit 4

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 6 Survey unit 4 for demolition. Survey unit 4 consisted of rooms 152, 154A, and 154B.

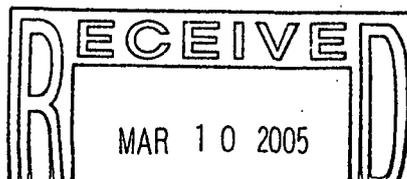
The preparation process for survey unit 4 was initiated April 4, 2004 when a package for in-process radiological surveys was prepared and executed. Once the surveys were complete, the following actions were taken as part of the ALARA-based decontamination effort:

- Concrete shaving was performed on floor surfaces; manual chipping was used to remove hot spots.
- Portions of contaminated masonry walls were removed.

The area was resurveyed in accordance with the Radiological Pre-Demolition Survey Plan for Buildings 776/777. The surveys were provided to the CDPHE project representative, and a walk down of the area was conducted.

In addition to the radiological hazards, the non-radiological hazards have also been addressed in survey unit 4. The following summarizes the non-radiological activities:

- Room 152 was a mixed residue container storage vault (RCRA unit 90.85). The unit was closed by the rinsate method as documented in a contact record with Harlen Ainscough dated 11/15/04.
- Chemicals and hazardous substances have been removed.
- Survey unit 4 comprises rooms 152, 154A, and 154B; none of these rooms were listed on the historical list of rooms with potential beryllium contamination. The baseline beryllium characterization of these rooms conducted by KH in 1999



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found no removable beryllium contamination. Subsequent surveys following equipment removal have found no removable beryllium present in this survey unit. Prior to final encapsulation, twenty-seven (27) 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 in Survey unit 4 has progressed to the point of reasonably achievable removal and that the subsequent step of encapsulation is appropriate.

In summary, ALARA-based decontamination has been completed, Survey unit 4 will be encapsulated and surveyed for removable contamination, and controls will be applied during demolition. This contact record will be included in the demolition work packages for this survey unit.

Contact Record Prepared By: Dyan Foss

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