

Hanford Facility Beryllium Fact Sheet

Building Number/Name: 2736Z Plutonium Storage Facility
Date prepared: June 30, 2004
Date revised: January 26, 2012
Responsible Contractor: CHPRC
Contact: Kristy Kimmerle, CIH

PAST OPERATIONS

Beryllium brought in facility: YES

Form of beryllium: SOLID

Period of beryllium operations (dates): Built in 1971. Unknown

Location(s) in facility that contained beryllium materials: Miscellaneous plutonium products potentially containing trace quantities of beryllium were stored in sealed 3013-type containers within vaults 1, 3 and 4. Plutonium products stored in sealed containers in 2736Z may have contained beryllium-contaminated plutonium residues. These waste residues included Rocky Flats Environmental Technical Site (RFETS) incinerator fly ash known to contain beryllium contamination. The sealed plutonium containers were specifically designed to prevent material leaks. Consequently, only extremely limited material excursions occurred in 2736Z during its service as a storage area for this material. All remaining stored plutonium material was removed from 2736Z in 2009. Vertical-style plutonium storage can Continuous Monitoring Units (CMUs) contained a beryllium-copper (BeCu) spring inside the can holder sensing unit. A small 0.15" portion of this BeCu material protruded from the center of the CMU. All CMUs were removed and sent to ERDF as waste in 2011.

Description of beryllium activities: Storage only.

Building monitoring data summary: An extensive wipe and bulk sampling campaign to evaluate potential beryllium contamination associated with the CMU BeCu springs was completed in 2010. Documentation and laboratory results for these wipe samples are recorded under IHSF-05949. Documentation and laboratory results for these bulk samples are recorded under IHSF-05950. All samples results were below the surface contamination levels in the Hanford Chronic Beryllium Disease Prevention Program.

Personnel monitoring data summary: None.

Specify Engineering/Administrative controls used during operations: Vaults 1, 3 and 4 were controlled administratively as Beryllium Controlled Areas (BCAs) after initiation of the Hanford Site Chronic Beryllium Disease Prevention Program (DOE-0342) at the beginning of 2010 until late 2011. 2736Z entered the final stages of D&D operations at that time. The rubble pile containing debris from 2736Z is comingled with rubble from 2736ZA and 2736ZB. The perimeter of the D&D site encompassing these building will be controlled as a BCA until D&D operations is complete and all debris from these facilities have been removed.

Comments, including any additional information needed (specify): N/A

Maximum Estimated Past Be exposure: None

CURRENT OPERATIONS

Building still present: YES

Beryllium present: Yes

Current building occupancy/activity: Work is currently underway for building demolition under beryllium controls January 2011. Demolition in process with estimated completion by the end of March 2012

Maximum Estimated Current Be Exposure from Routine Operations: NONE

Basis for above information: Beryllium Facility Assessment 2736Z 1/4/2010.

For questions or comments, please send email to Kristy_J_Kimmerle@rl.gov