

Hanford Facility Beryllium Fact Sheet

Building Number/Name: 271B B Plant Support Building
Date prepared: March 25, 1998
Date revised: February 9, 2012
Responsible Contractor: CHPRC
Contact: Kristy Kimmerle, CIH

PAST OPERATIONS

Beryllium brought in facility: NO

Form of beryllium: N/A

Period of beryllium operations (dates): N/A End: N/A

Location(s) in facility that contained beryllium materials: None that were known.

Description of beryllium activities: This facility appeared on the original list of possible beryllium facilities. Reviews of documentation, facility personnel, a UW research representative, and DOE-RL personnel determined that this facility did not have beryllium and should not be on the list. The only links to beryllium use in this facility are a 9/27/62 letter, 2/28/63 DSI, and a 5/14/65 letter addressed to an occupant of 271-B. All of these documents concerned beryllium use in other facilities. However, characterization sampling concluded that there were areas in 271B that had measurable beryllium surface contamination. The building is now a Beryllium Controlled Facility with Beryllium Controlled Areas.

Building monitoring data summary: Characterization sampling was conducted during January and February 2011. The results of the characterization sampling indicate that the Maintenance Shop, the Basement, the 1st Floor, the 3rd Floor and Stairwell #11 of 271B were beryllium-clean. Follow-up sampling in Stairwell 13 and 2nd Floor Office 211 were conducted in June and July 2011 because initial results were above the trigger or control levels allowed. The sample results from the investigative sampling allowed Stairway 13 to be down posted but the floor in Office 211 Piping Room on the 2nd Floor of 271B will remain a Beryllium Controlled Area.

Personnel monitoring data summary: The airborne concentrations of beryllium for the personal exposure monitoring conducted were less than the Reporting Detection Limit (RDL) and the Action Level of 0.1 µg/m³. SWIHD reports 11-21420, 11-21423, 11-21509, 11-21510, 11-21562, 11-21563, 11-21592, 11-21593, 11-21855, 11-21856, 11-21884, 11-21883.

Specify Engineering/Administrative controls used during operations: N/A

Maximum Estimated Past Be exposure: NONE

CURRENT OPERATIONS

Building still present: YES

Beryllium present: YES

Current building occupancy/activity: INACTIVE

Current building occupancy/activity: Although this building is currently unoccupied, annual walkthrough surveillance and various maintenance tasks resulting from surveillances are being conducted. Office 211 Piping Room on the 2nd floor is contaminated with beryllium. The source of the contamination is unknown. Beryllium Work Permits are required to access the Beryllium Controlled Areas.

Maximum Estimated Current Be exposure: LOW

Basis for above information: Reviews of documentation, facility personnel, a UW research representative, and DOE-RL personnel. The reference information is documented in the Beryllium Facility Assessment Form 7/1/2010 and the Beryllium Characterization Report 9/28/2011.

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

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