

# memorandum

Idaho Operations Office

Date: July 9, 2009

Subject: Supplemental Response to Identify Possible Locations at the Idaho National Laboratory for a Storage Facility for Elemental Mercury (EM-ICP-09-013)

To: Mr. David Levenstein, Office of Environmental Management National Environmental Policy Act Document Manager for the Mercury Storage Environmental Impact Statement

Reference: Letter from R B. Provencher to D. Levenstein, Subject: Response to Identify Possible Locations at the Idaho National Laboratory for a Storage Facility for Elemental Mercury (EM-ICP-09-009), dated April 28, 2009

In response to an informal request from Mr. John Dimarzio to look further for buildings that may better fit the mission of the Mercury Storage Facility, an additional existing facility alternative was identified for the Idaho National Laboratory.

The Radioactive Waste Management Complex (RWMC) has a number of buildings in the Transuranic Storage Area (TSA) currently dedicated to storage, staging, characterization, and shipping of transuranic wastes. While currently in use, the current transuranic waste mission is anticipated to be completed by 2015. A Type II Storage Module (tentatively WMF-629) could be made available starting in 2013 for mercury storage subject to the NEPA and decision making process.

The Type II Storage Modules are a series of seven buildings that are covered by an existing RCRA Part B permit with the State of Idaho. Each building is approximately 29,000 sq. ft. of permitted storage space which would be adequate for mercury storage. The facilities were designed and built for hazardous waste storage. As the transuranic mission is completed, a number of the other storage modules could be made available for mercury storage.

I have attached a brief fact sheet regarding the Type II Storage Modules.

If you have any questions, please contact Jeff Perry at (208) 526-4570.



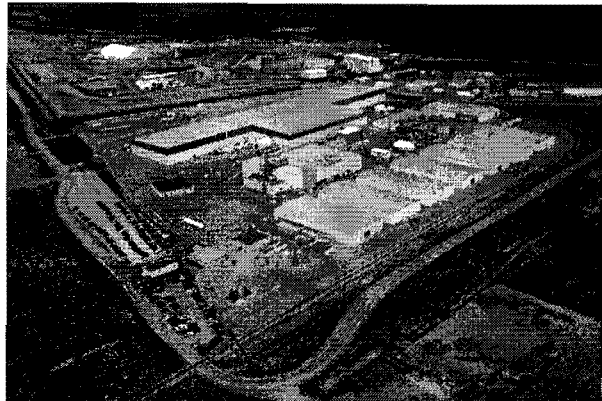
Richard B. Provencher, Deputy Manager  
Idaho Cleanup Project

Attachment

Attachment: Idaho National Laboratory (INL) WMF-629 – Type II Storage Module



Waste in the Type II Storage Module



Radioactive Waste Management Complex showing the 7 Type II Storage Modules in the foreground

**Mission:** The Waste Storage Modules at the Radioactive Waste Management Complex were designed for replacement storage space for the storage of transuranic waste in the Air Support Buildings.

**Description:** This 29,342 sq. ft. building was designed as a replacement storage facility for transuranic waste. Each of the Type II Storage Modules was built between 1993 and 1995 and is a RCRA permitted facility with no interior walls or partitions. These are prefabricated/modular buildings with 2 overhead doors, 24 ft wide x 16 ft high. The fire suppression system is a dry pipe system with dry chemical extinguishers. The building is insulated/heated and is constructed above a curbed concrete slab coated with sealant designed to provide a basin for liquid confinement, as necessary.

**Status:** The facility is currently in use storing and staging transuranic waste for shipment to WIPP. The TRU shipment contract is anticipated to be completed in the 2015 timeframe. One of the seven type II storage modules can be made available by January 1, 2013 if a decision is made to locate the facility in Idaho.

**Requirements for Use:** It is anticipated that the floor would need to be refinished, the Advanced Mixed Waste Treatment Project would need to have a contract clause included making the building available by January 1, 2013, and the RCRA Part B permit would need to be modified to reflect the new mission and material being stored.

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CONCURRENCE:

NCO RK 7/7/09  
EM/WDP EJ 7/7/09  
EM/FMDP J.R.C. 7/08/09.

RECORD NOTES:

1. This letter was written to respond to an informal request to look further for buildings that may better meet the need of the Mercury Storage facility.
2. This letter was written by Jeff Perry after consultation with Rick Provencher and Ed Ziemianski.
3. This letter/memo closes Pegasus number N/A
4. The attached correspondence has no relation to the Naval Nuclear Propulsion Program.