

Technical Review of the Mound Site

Summary

by **EHS TECHNOLOGY GROUP, LLC**

Reference Document: Building 72 Data Package (Demolition); Public Review Draft, October 2004

Purpose: The purpose of this document is to notify the public of the Demolition Activity proposed for Building 72.

Assessment of Review: EHS has had the opportunity to review and comment on this Building Data Package. We concur with the planned demolition action for the Building 72. This data package was prepared in accordance with the requirements specified in the *Work Plan for Environmental Restoration (ER) of the DOE Mound Site, The Mound 2000 Approach*. As such, all appropriate inquiry was made into the condition of the building and any associated environmental concerns that would impact the demolition activities were assessed.

Technical Analysis: Building 72 (Hazardous Waste Storage Facility) was constructed in 1981 and was originally located approximately six-hundred feet southeast of where the current structure is sited. The current Building 72, designated as PRS 60, was constructed as a hazardous waste storage facility in 1984 using part of the framing from the original "Building 72" framing. In addition, a waste sampling station, unrelated to Building 72, will be demolished with the building. This is a booth sitting on the top of an open manhole and was used to monitor the plant sanitary outfall pipeline.

Building 72 was constructed as a hazardous wastes storage facility and was operated as a RCRA permitted non-radioactive containerized hazardous waste storage facility. The storage area was separated into three bays in order to keep separate incompatible wastes. Bays 1, 2 and 3 stored flammable liquids, corrosive alkalis, and corrosive acids, respectively. The physical forms of the wastes were mainly free liquids, solids, and sludges; however all wastes were contained and managed as free liquids. The building is not radiologically contaminated. The building underwent a RCRA hazardous waste storage facility closure in 2003.

There are three PRS (Potential Release Sites) associated with Building 72 and its outside storage area. PRS 60 is Building 72, a former hazardous waste storage facility. This facility underwent RCRA closure in 2003. PRS 61 is an outdoor hazardous waste storage area where waste oils were stored and PRS 62 is an outdoor empty drum storage area. A PRS package will be prepared to disposition these three PRS. Additionally, Building 72 is located within the boundary of PRS 41 (also known as Area 3, Thorium Drum Storage and Redrumming Area). The storage and redrumming activities predate the construction of Building 72. After the building demolition, the two elevated historic sample results will be removed and verified as part of the PRS 41 Removal Action activities.

As always, coordination between CH2M Hill, the cleanup contractor at the Mound Site, and Miamisburg Mound Community Improvement Corp. (MMCIC -developer of the Mound site) will result in the return of these areas to the proposed use in the Mound Comprehensive Reuse Plan.

Substantive Comments: EHS concurs with the planned demolition action for Building 72. We understand that the PRS which identify soils contamination in and around Building 72 will be addressed under a separate PRS data package. In addition, the soils contamination under the building will be investigated as part of the PRS 41 Removal Actions after Building 72 is demolished.

Coordination between CH2M Hill, the DOE and MMCIC to ensure the building area is left in a condition consistent with the Mound Reuse Plan.

If EHS's understandings are correct, no specific response to the above comment is necessary, and we understand that these comments will be included in the OSC report.