

Technical Review of the Mound Site

Summary

by EHS TECHNOLOGY GROUP, LLC

Reference Document: PH Building (Pump House) and Building 24 Data Package (Demolition); Public Review Draft, February 2005

Purpose: The purpose of this document is to notify the public of the Demolition Activity proposed for PH and 24 Building.

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 PH Building (Pump House) and Building 24. 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: P Building (Pump House) was constructed in 1948 as one of the Mound's original structures. The building was constructed to provide a location for pumping fuel oil and brine water to the Mound facility power plant. This building contained two pits which housed piping for two chlorinating units and pumps for the brine units. The brine pumps were used to regenerate water from the softeners in the Power Plant. The chlorination of water occurred for the facility water supply. The building also contained a 300,000 gallon above ground steel tank for No. 6 fuel oil. The fuel oil was pumped from rail cars to holding tanks in PH building, then on to four underground storage tanks by the Power Plant.

Building 24 was constructed in 1965 as a water treatment plant. This building contained two large capacity (100,000 gallon) zeolite softening bed tanks and chemicals and injection equipment for chlorination and rust inhibition of water from the on-site water wells. The building also had booster pumps for the distribution of the treated water.

Substantive Comments: EHS concurs with the planned demolition action for PH Building (Pump House) and Building 24. We understand that all chemicals will be removed prior to demolition and all equipment will either be removed prior to demolition or demolished with the structure.

EHS understands that the contaminated soils adjacent to the base of Building 24 will be addressed as part of the Building 24 decontamination and decommissioning process and the surrounding soil will be addressed as part of the PRS 441, which is as yet unbinned.

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