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UNDERGROUND STORAGE TANK NO. 5

01/22/90

**DOE-452-90
DOE-ORO/WMCO
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LETTER**



Department of Energy
Oak Ridge Operations
P.O. Box 2001
Oak Ridge, Tennessee 37831 -

January 22, 1990
DOE-452-90

President
Westinghouse Materials Company
of Ohio
P. O. Box 398704
Cincinnati, Ohio 45239-8704

Dear Sir:

UNDERGROUND STORAGE TANK NO. 5

- References:
- 1) Letter, J. A. Reafsnyder to President, WMCO, "Underground Storage Tank (UST) Management Plan" (DOE-353-89), dated January 20, 1989
 - 2) Letter, J. A. Reafsnyder to Billy Phillips, OFM, "Feed Materials Production Center Underground Storage Tank Permit Application", (DOE-1121-89), dated June 6, 1989

On September 28, 1989, a potential leak of waste oil from underground storage tank (UST) No. 5, which was used for waste oil from Building 31 floor drain, was found. On September 29, 1989, a suspect release was reported to the Ohio Fire Marshall (OFM). On October 19, 1989, WMCO filed an Unusual Occurrence Report (UOR), which was only used internally by WMCO. On November 13, 1989, three samples were taken from the contents of the tank. An analytical report on these samples was not received by DOE until January 8, 1990. In this report, it was indicated that elevated concentrations of 1,1,1,-trichloroethane, 1,1-dichloroethane, 1,1-dichloroethene and 4-methoxy-4-methyl-2-pentanone were detected. On January 9, 1990, Jack Craig of my staff contacted Catherine McCord of U.S. EPA-5, to confirm UST No. 5 as a RCRA hazardous waste storage tank. It was understood that U.S. EPA was interested in knowing whether UST No. 14 is also a RCRA hazardous waste storage tank. Sampling of this tank has not yet been done.

Our concern about these tanks was brought to your attention during the review of the Underground Storage Tank (UST) Management Plan (Reference 1) and the RCRA Part B permit application (Attachment 1). We have recommended that a detailed RCRA closure plan should be prepared for each tank pursuant to 40 CFR 265 Subpart G, if the RCRA status of both tanks is confirmed. Consequently, the RCRA Part A permit and all sections of the RCRA Part B permit application will need to be revised to reflect the updated status.

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Furthermore, these two tanks cannot be removed pursuant to the UST permit application for the removal of tanks submitted by DOE to the OFM on June 6, 1989 (Reference 2), since their closure plans should be approved by Ohio EPA prior to the closure of the tanks and OFM has no jurisdiction for this approval.

Due to the reported suspect release from UST No. 5, FMPC must conduct corrective action pursuant to Section 3004(u) of the Hazardous and Solid Waste Amendments of 1984 (HSWA) for releases of hazardous wastes or constituents, which pose a threat to human health and the environment, from any solid waste management unit at a storage, treatment or disposal facility seeking a RCRA permit. FMPC should also consider to conduct corrective action beyond the facility boundary pursuant to Section 3004(v).

The first step in any corrective action is to conduct the RCRA facility assessment (RFA) pursuant to U.S. EPA's OSWER Policy Directive 9502.00-5 dated October 9, 1986 to identify actual and potential releases from RCRA regulated units. U.S. EPA and/or the State Agencies are responsible for conducting RFAs. However, for federal facilities, DOE may be required to do that as the lead agency. The objective of this assessment is to determine whether there is sufficient evidence of a release to require the owner/operator (o/o) to undertake a RCRA facility investigation (RFI) to characterize the nature, extent and rate of migration of contaminant releases of concern. The RFI supercedes OAC 1301:7-7-36 (E) for site assessment.

Regulatory agencies then evaluate results of the RFI and determine the need for a corrective measures study (CMS). The o/o in turn proposes an appropriate CMS when required by regulatory agencies. The CMS proposal will be evaluated by regulatory agencies. The appropriate corrective measure implementation (CMI) is then specified. Finally, the o/o has to demonstrate financial assurance, and design, construct, operate, maintain and monitor the CMI. At FMPC, this may mean a reiteration of the FFCA similar to RCRA Item B (B1 to B5) and expansion of RI/FS activities for these units. In addition, FMPC should comply with all relevant regulations regarding 40 CFR 261 to 280 including scheduled inspection, operating records, etc.

The UOR (October 19, 1989) mentions that immediate actions have been taken for UST No. 5 including excavation down to the top of the tank and backfilling the hole. It does not address whether or not the excavated soil was contaminated and how it was disposed of. There is also no mention whether clean soil was used for backfill. In the same report, it also mentions that groundwater was encountered during excavation and two samples of the water were bottled and sent to the FMPC laboratory for analysis. This analysis result should be provided.

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Please provide your response to this transmittal by January 31, 1990. If you have any questions regarding this transmittal, please contact Jack Craig at extension 6159.

Sincerely,



James A. Reafsnyder
FMPC Site Manager

DP-84:Craig

Attachments: As stated

cc:

M. J. Galper, WMCO
S. G. Schneider, WMCO
W. A. Weinreich, WMCO