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**NOTIFICATION OF INSTALLATION OF LINER AT THE
BIODENITRIFICATION SURGE LAGOON FACILITY - FEED MATERIALS
PRODUCTION CENTER (FMPC)**

11/02/88

DOE-07-89
DOE-ORO EPA
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LETTER



Department of Energy

Oak Ridge Operations

P. O. Box E

Oak Ridge, Tennessee 37831

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November 2, 1988
DOE-07-89

Mr. Thomas A. Winston, District Chief
Ohio Environmental Protection Agency
Southwest District Office
7 East Fourth Street
Dayton, Ohio 45402-2086

Dear Mr. Winston:

NOTIFICATION OF INSTALLATION OF LINER AT THE BIODENITRIFICATION SURGE LAGOON FACILITY - FEED MATERIALS PRODUCTION CENTER (FMPC)

References: (1) Ohio Environmental Protection Agency, "Final Director's Findings And Orders," Feed Materials Production Center, Issue Date: June 26, 1987.

(2) DOE-FMPC Letter No. DOE-1257-88, J. A. Reafsnyder to T. A. Winston, "Notification Of Projected Thirteen-Week Later Finish Of The Biodenitrification Surge Lagoon Facility - Feed Materials Production Center (FMPC)", Dated August 12, 1988.

This letter provides notification that the new liner for the Biodenitrification Surge Lagoon (BSL) at the Feed Materials Production Center (FMPC) was installed September 26, 1988. This date meets the October 1, 1988 date mandated by Order No. 2 of the Ohio EPA Director's Findings and Orders (Reference 1).

Vigorous and extensive work was required to overcome the setbacks documented in the August 12, 1988 letter (Reference 2). These setbacks included replacement of a nonfunctioning underdrain in the lagoon and repair of extensive wind damage of the existing liner from 80 mph winds on August 3. A second liner contractor was brought in to repair the wind damage and additional construction crews were put on double shifts and weekends to accelerate the work.

Air lance testing of the field seams in the new liner indicated no leaks. Placement of water in the lagoon for electrical conductance testing for leaks started September 28, 1988. Testing of the lagoon should be completed by mid-November 1988. Operational turnover of the facility is scheduled for the end of November 1988.

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Two temporary tanks were installed to perform the function of the BSL and to conduct a test for controlling the nitrate concentration to the Bionitri-fication (BDN) Facility. Wastewaters from the plant were separated into low- and high-nitrate streams. The high-nitrate streams were placed in the south tank; and the low-nitrate streams were placed in the north tank. The two streams were blended to control the nitrate concentration to the BDN Facility. The results of the test showed increased control within the BDN Facility, thereby decreasing plant NPDES violations for nitrate.

A permanent high nitrate tank will be installed as part of the BDN Facility upgrade. When the BSL becomes operational, the temporary tanks will be used until the permanent high-nitrate tank is installed. This will allow the FMPC to provide the best possible treatment of wastewaters under existing equipment conditions.

Sincerely,


James A. Reafsnyder
Site Manager

DP-84:Stone

Mr. T. A. Winston

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