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**SUBMITTAL OF LEAK REPAIR STATUS FOR URANYL NITRATE TANK
SYSTEM**

07/15/94

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LETTER



Department of Energy
Fernald Environmental Management Project
P. O. Box 398705
Cincinnati, Ohio 45239-8705
(513) 648-3155

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JUL 15 1994

DOE-2091-94

Mr. Thomas A. Winston, P.E.
District Chief, SWDO
Ohio Environmental Protection Agency
401 E. Fifth Street
Dayton, Ohio 45402-2911

Dear Mr. Winston:

SUBMITTAL OF LEAK REPAIR STATUS FOR THE URANYL NITRATE TANK SYSTEM

- Reference:
1. Letter, C:OP:94-0604, J. P. Hamric and J. W. Thiesing to T. A. Winston, "Status of Leak Repairs for the Uranyl Nitrate Tank System," dated June 10, 1994
 2. Letter, DOE-1840-94, J. P. Hamric to T. A. Winston, "Submittal of Removal Action Work Plan for the Uranyl Nitrate Removal Action and Status of Leak Repairs," dated June 3, 1994
 3. Letter, DOE-0859-94, J. A. Rasile and J. P. Hamric to R. Fisher, "Response to Deficiencies Identified in December 9, 1993 Inspection of Uranyl Nitrate Tank System and Request for Additional Information," dated January 28, 1994

In Reference 1, the Fernald Environmental Management Project (FEMP) committed to providing an updated report by July 15, 1994, on the status of the remaining leak repairs in the Uranyl Nitrate Hexahydrate (UNH) Tank System. Installation of Plidco rings and oversleeves has been completed on the seven remaining leaks identified in Reference 1. All leaks identified in Reference 3 have now been repaired. All repairs have been verified to assure that the leaks have been stopped.

A new leak has been identified on the 1½-inch line at the bottom of Tank F1-301. Tank F1-301 is located within a permanent secondary containment area in the Hot Raffinate Building and contains 1,990 gallons of UNH solution. The leak is minor in nature, with a leak rate of approximately one drop per minute. The repair of two other leaks on the same line has left inadequate space for installation of another Plidco oversleeve. Attempting to tighten the flange will risk failure of the line and the resultant release of the tank contents. Other alternatives have also been determined to be ineffective. Given the minor nature of the leak and complications of the leak location, it

is our determination that no further attempts at repair are prudent prior to neutralization of the tank contents. The UNH solution released from the tank is being collected and returned to the tank. The tank will continue to be inspected on a daily basis.

If you have any questions regarding this information or require additional information, please contact Ed Skintik at (513) 648-3151.

Sincerely,

for *Jay A. Tolare*

Walter J. Quaider
Acting Associate Director
Office of Safety, Operations
and Technical Support

FN:White

cc:

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W. J. Quaider, DOE-FN
J. M. Sattler, DOE-FN
E. P. Skintik, DOE-FN
J. H. Trygier, DOE-FN

** A copy of this letter is being faxed on July 15, 1994 to OEPA