

Mr. Vojin Janjic, Section Manager
Tennessee Department of Environment and Conservation
Division of Water Resources – Permit Section
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243

Dear Mr. Janjic:

89303322DEM000067: Quarterly Status Report for the Process Waste Treatment Complex (PWTC) Upgrades at the Oak Ridge National Laboratory (ORNL) USDOE-ORNL, National Pollutant Discharge Elimination System (NPDES) Permit No. TN0002941

- References:
1. Letter from Mr. Vojin Janjic to Mr. Johnny O. Moore and Mr. Raymond J. Skwarek, "Proposed Removal of Air Stripper, Process Wastewater Treatment Complex (PWTC) USDOE – ORNL, NPDES Permit No. TN0002941, Oak Ridge, Roane County, Tennessee," dated May 9, 2016
 2. Letter from Mr. Raymond J. Skwarek to Mr. Vojin Janjic, "Upgrades to the Process Wastewater Treatment Complex (PWTC) at the Oak Ridge National Laboratory (ORNL) USDOE – ORNL, NPDES Permit No. TN0002941," dated June 29, 2016 (UCOR-16-0595)

As required in the May 9, 2016, letter (Reference 1), this letter provides an update on the progress of the Engineering Evaluation and Life Extension Study findings and recommended system upgrades to the Liquid and Gaseous Waste Operations PWTC at ORNL.

The enclosed report provides an update on the status and schedule for each project, as initially described in the June 2016 Quarterly Status Report (Reference 2), for the period from October – December 2023. With the completion of the Building 3608 Piping Replacement Project during this reporting period, the only remaining project from the PWTC Upgrades described in the June 29, 2016 letter (Reference 2) is the resealing of the Building 3608 Dike. Since this project is not scheduled to begin until Fiscal Year 2025, submittal of these quarterly status reports will be placed on hold until there are updates to report on this project.

If you have any questions or need additional information, please contact Kevin Crow at (865) 363-5382.

Sincerely,

Emily M. Day
Regulatory Strategy and
Integration Manager

EMD:KRC:alt

Enclosure: *Quarterly Status Report for the PWTC Upgrades (October – December 2023)*

Mr. Vojin Janjic
Page 2
ORRCC-23-0936
December 20, 2023

c/enc: D. R. Beckworth
L. M. Beckworth
E. A. Brucken
M. L. Carden, DOE OREM
K. R. Crow
J. Y. Daffron, DOE OREM
T. W. Doty, DOE SC-OR
J. I. Frazier, TDEC-Knoxville
W. D. Goddard, UT-Battelle
J. G. Hardin, DOE OREM
M. B. Haugh
J. J. Maddox
M. P. Noe, DOE OREM
E. C. Phillips, DOE OREM
A. H. Saunders
M. L. Sensibaugh
B. W. Staggs, DOE OREM
E. F. Sutton, DOE OREM
S. M. Terpstra, TDEC-Nashville
V. L. Thomas
R. C. Young, TDEC-DoR-OR
File-OREM Mailroom
File-DMC-RC

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Quarterly Status Report for the Process Waste Treatment Complex (PWTC) Upgrades at the Oak Ridge National Laboratory (ORNL) USDOE-ORNL, National Pollutant Discharge Elimination System (NPDES) Permit No. TN0002941/Quarterly Status Report for the PWTC Upgrades (October – December 2023)

QUARTERLY STATUS REPORT FOR THE PWTC UPGRADES (OCTOBER – DECEMBER 2023)

PROJECT	DESCRIPTION	PROJECTED SCHEDULE (SITE WORK)	STATUS
Building 3608 Facility Piping Replacement Project	Replace above-ground process waste piping and valves within Building 3608 treatment system	FY 2021 – FY 2024	Project Complete. Project began in June 2021. 19 of 19 piping runs have been replaced: <ul style="list-style-type: none"> • J-1001-A&B Metals System • 1022-A&B Sludge Holding System • 1026 Sulfuric Acid Line • F-1001 Metals Tank to F-1003 Rapid Mix Tank • 1002-A&B Non-metals System • F-1001-C Jet Mixer • F-1002-C Jet Mixer • Zeolite to F-1002 Non-metal Tank • F-1003 Rapid Mix System (2600 to 1003 Pipeline) • F-1006 Clarifier to F-1050 Surge Tank • F-1050 Surge Tank to Zeolite • F-1050 to 1026 Acid Line • J-1006 to F-1022 Sludge Holding • F-1025-A&B Caustic System • Spent Backwash Recycle Line • Non-rad Tanker Receipt Station • Rad tanker Receipt Station • 1002 to Dual Media • 1032 Plant Sump (Note: A small portion, a deteriorating underground pipeline running from Building 3544 to Building 3608, was completed in FY 2021 through internal lining.)
Process Waste Dike Repair/Reseal Project	Concrete dike repairs and resealing	FY 2023 – FY 2025	The 2600 Dike Reseal has been completed. Resealing of the 3608 Dike will be performed in FY 2025.

QUARTERLY STATUS REPORT FOR THE PWTC UPGRADES (OCTOBER – DECEMBER 2023)

PROJECT	DESCRIPTION	PROJECTED SCHEDULE (SITE WORK)	STATUS
Building 3544 Deactivation Project	Shutdown treatment operations associated with Building 3544 and prepare the facility for deactivation.	FY 2021 – FY 2022	The project has completed all activities for cold-standby. (Building has been transferred to D&D. D&D is planning for utility isolation.)