



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES

William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243-1102

April 11, 2023

Mr. Paul Thomas
Tennessee Valley Authority
e-copy: prthomas0@tva.gov
1101 Market St
LP 5E-C
Chattanooga, TN 37402

Subject: **Preliminary Engineering Report for KIF FGD WWT Pilot**
Tennessee Valley Authority (TVA) Kingston Fossil Plant (KIF)
Wastewater Project Number: 23.0134
County: Roane

Dear Mr. Thomas:

The Tennessee Department of Environment and Conservation, Division of Water Resources (the Division), acknowledges the receipt of the above-referenced preliminary engineering report and preliminary plans. The report and plans describe the process for pilot testing two wastewater treatment technologies (WWT) for the flue gas desulfurization (FGD) waste stream at the TVA KIF site.

The pilot scale processes include 1) membrane-based treatment and 2) biological treatment followed by membrane-based treatment. The pilot studies are proposed to determine overall effectiveness and feasibility of these treatment options. The project is associated with NPDES Permit TN0005452. The pilot plants are internal to the overall site treatment processes and are not anticipated to change the volume or characteristics of the authorized discharge.

The pilot project is anticipated to run approximately 30 days.

The Division has no objection to the pilot study. Any substantial changes to the project should be submitted to the Division for comment. The Knoxville Environmental Field Office (865-594-6035) should be notified at plant start up and termination of the pilot.

To expedite matters, please reference 23.0134 on any future correspondence. If we may be of any assistance, please feel free to contact Mr. Tim Hill, P.E. at (865) 364-9535 or by E-mail at *Timothy.Hill@tn.gov*.

Sincerely,

A handwritten signature in blue ink that reads "Angela Jones". The signature is fluid and cursive, with the first name "Angela" being more prominent than the last name "Jones".

Angela Jones, P.E.
Manager, Engineering Service Unit

cc:

Mr. Timothy Jackson, Plant Manager, Tennessee Valley Authority, tdjackson0@tva.gov
Mr. Michael J. Atchley, Unit Manager, TDEC Division of Water Resources, Michael.Atchley@tn.gov
Ms. Britta Paule Lees, PWS, TN-QHP, Specialist, Water Permits, Compliance, & Monitoring,
Tennessee Valley Authority (TVA), bplees@tva.gov
Mr. Robert Wilkenson, CCR Technical Manager TDEC BOE, robert.s.wilkinson@tn.gov
Mr. Vojin Janjic, Manager, TDEC WBSU, Vojin.janjic@tn.gov