



Sequoyah Nuclear Plant, Post Office Box 2000, Soddy Daisy, Tennessee 37384

March 1, 2023

10 CFR 21.21(a)(2)

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

Sequoyah Nuclear Plant, Unit 1  
Renewed Facility Operating License No. DPR-77  
NRC Docket No. 50-327

**Subject: Interim Report of a Deviation or Failure to Comply Associated with a Limitorque Actuator**

**Reference:** Letter from TVA to NRC, "Interim Report of a Deviation or Failure to Comply Associated with a Limitorque Actuator," dated January 24, 2023

In accordance with the requirements of 10 CFR 21.21(a)(2), the Tennessee Valley Authority is submitting this interim report for Sequoyah Nuclear Plant (SQN), Unit 1.

On October 19, 2022, during as-left testing of the Unit 1, turbine-driven auxiliary feedwater pump, trip and throttle valve (actuator, QA 1, motor operated valve, Limitorque model SMB-000) a motor (the motor is a sub-component of the valve actuator) anomaly was identified. The motor test revealed higher than expected current and the motor was running at higher-than-expected RPMs. The increased current appeared to be associated with the motor shunt winding. On December 1, 2022, SQN completed its 10 CFR Part 21 discovery process and determined the need to perform a 10 CFR Part 21 Evaluation.

The motor was returned to Flowserve (at Framatome's request) for evaluation. The vendor evaluation is ongoing and will not be complete in time to support the requirement to complete SQN's Evaluation within 60 days. Because the 10 CFR Part 21 Evaluation cannot be completed within 60 days of discovery, and the initial requested extension of 30 days, SQN is submitting this interim report.


By the reference letter, SQN requested an initial evaluation extension to complete the 10 CFR Part 21 Evaluation no later than March 1, 2023. As of March 1, 2023, the vendor and SQN staff are continuing discussions regarding the issue and the 10 CFR Part 21 Evaluation has not been completed. Thus, SQN requests an additional evaluation extension to May 1, 2023, to further evaluate the reported issue.

There are no new regulatory commitments contained in this letter. Should you have any questions concerning this submittal, please contact Mr. Rick Medina, Site Licensing Manager, at (423) 843-8129.

U.S. Nuclear Regulatory Commission  
Page 2  
March 1, 2023

Respectfully,

Marshall,  
Thomas B.

 Digitally signed by Marshall,  
Thomas B.  
Date: 2023.03.01 08:07:52  
-05'00'

Thomas B. Marshall  
Site Vice President  
Sequoyah Nuclear Plant

cc: NRC Regional Administrator – Region II  
NRC Senior Resident Inspector – Sequoyah Nuclear Plant