



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

February 18, 2026

10 CFR 21.21(d)(3)(ii)

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

Sequoyah Nuclear Plant, Units 1 and 2  
Renewed Facility Operating License Nos. DPR-77 and DPR-79  
NRC Docket Nos. 50-327 and 50-328

**Subject: 10 CFR 21.21 Report Regarding Limitorque Actuator/Motor Assemblies  
SMB-2 and SB-1**

In accordance with Title 10 of the Code of Federal Regulations (10 CFR) Part 21, "Reporting of Defects and Noncompliance," the Tennessee Valley Authority is providing the required written notification of a defect in 2 basic components associated with a Flowserve Limitorque Actuator/Motor. The enclosures to this letter provides the information required in 10 CFR 21.21(d)(4).

There are no regulatory commitments contained in this letter. Should you have any questions concerning this submittal, please contact Mr. Rick Medina, Sequoyah Site Licensing Manager, at (423) 843-8129 or rmedina4@tva.gov.

Respectfully,

**Michael, Kevin**  
**Mckinley**

Digitally signed by  
Michael, Kevin Mckinley  
Date: 2026.02.18 11:23:29  
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Kevin M. Michael  
Site Vice President  
Sequoyah Nuclear Plant

Enclosures: 1. Part 21 Notification of Limitorque Model SMB-2  
2. Part 21 Notification of Limitorque Model SB-1

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

## ENCLOSURE 1

### PART 21 NOTIFICATION OF LIMITORQUE MODEL SMB-2

- (i) Name and address of the individual or individuals informing the Commission.

Mr. Kevin Michael  
Tennessee Valley Authority  
Vice President, Sequoyah Nuclear Plant Units 1 and 2  
Post Office Box 2000  
Soddy-Daisy, TN 37384

- (ii) Identification of the facility, the activity, or the basic component supplied for such facility or such activity within the United States which fails to comply or contains a defect.

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Basic Component: Limitorque Actuator, Motor Operated, Model SMB-2

- (iii) Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect.

Actuator Supplier:  
Flowserve  
5114 Woodall Road  
Lynchburg VA 24502

- (iv) Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply.

#### Description of the Defect:

During pre-maintenance inspections, technicians identified that the motor pinion gear supplied with the new SMB-2 actuator/motor assembly had been installed in reverse orientation. That is, the pinion gear shoulder that contains the lockwire groove was closest to the motor flange. This configuration resulted in minimal tooth engagement between the motor pinion gear and worm shaft clutch gear, which could have resulted in premature failure of the actuator.

#### Safety Hazard Created by the Defect:

The intended location for the SMB-2 actuator/motor assembly was a containment spray system normally closed valve. The valve is design to operate open on a high-high containment pressure signal concurrent with the start of the containment spray pump. The operation of this valve is for mitigation of design basis events: loss-of-coolant accident or a steam line break inside containment. Premature failure of this valve concurrent with single-failure criteria could result in a loss of safety function in the containment spray system.

- (v) The date on which the information of such defect or failure to comply was obtained.

Discovery date: TVA determined a defect in the basic component that could create a substantial safety hazard existed on January 20, 2026.

- (vi) In the case of a basic component which contains a defect or fails to comply, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, manufactured, or being manufactured for one or more facilities or activities subject to the regulations in this part.

TVA purchased 1 Limitorque actuator, model SMB-2. This actuator/motor assembly was corrected before installation as motor-operated valve in the containment spray sump return header.

- (vii) The corrective action which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action.

The motor pinion gear was corrected during pre-maintenance inspection.

- (viii) Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees.

None.

- (ix) In the case of an early site permit, the entities to whom an early site permit was transferred.

Not applicable.

## ENCLOSURE 2

### PART 21 NOTIFICATION OF LIMITORQUE MODEL SB-1

- (i) Name and address of the individual or individuals informing the Commission.

Mr. Kevin Michael  
Tennessee Valley Authority  
Vice President, Sequoyah Nuclear Plant Units 1 and 2  
Post Office Box 2000  
Soddy-Daisy, TN 37384

- (ii) Identification of the facility, the activity, or the basic component supplied for such facility or such activity within the United States which fails to comply or contains a defect.

Sequoyah Nuclear Plant, Units 1 and 2  
Renewed Facility Operating Licensing Nos. DPR-77 and DPR-79  
NRC Docket Nos. 50-327 and 50-328

Basic Component: Limitorque Actuator, Motor Operated, Model SB-1

- (iii) Identification of the firm constructing the facility or supplying the basic component which fails to comply or contains a defect.

Actuator Supplier:  
Flowserve  
5114 Woodall Road  
Lynchburg VA 24502

- (iv) Nature of the defect or failure to comply and the safety hazard which is created or could be created by such defect or failure to comply.

Description of the Defect:

During pre-maintenance inspections, technicians identified an insufficient amount of grease or lubricant had been applied in the intermittent gearbox for the limit switch. It was estimated that the gearbox only contained 25 percent of the necessary grease. This could result in premature wear of the limit switch gears and limit switch malfunction.

Safety Hazard Created by the Defect:

The intended location for the SB-1 actuator/motor assembly was the containment spray system with a valve that is in a normally closed configuration. The valve is designed to operate open on a high-high containment pressure signal concurrent with the start of the containment spray pump. The operation of this valve is for mitigation of design basis events: loss-of-coolant accident or a steam line break inside containment. Premature gear failure of the limit switch could result in valve failure on demand and, when combined with single-failure criteria, could result in a loss of safety function in the containment spray system.

- (v) The date on which the information of such defect or failure to comply was obtained.

Discovery date: TVA determined a defect in the basic component that could create a substantial safety hazard existed on January 20, 2026.

- (vi) In the case of a basic component which contains a defect or fails to comply, the number and location of these components in use at, supplied for, being supplied for, or may be supplied for, manufactured, or being manufactured for one or more facilities or activities subject to the regulations in this part.

TVA purchased 1 Limatorque actuator, model SB-1. This actuator/motor intermittent gearbox lubricant issue was corrected prior to installation as a motor-operated valve in the containment spray pump discharge header.

- (vii) The corrective action which has been, is being, or will be taken; the name of the individual or organization responsible for the action; and the length of time that has been or will be taken to complete the action.

The actuator/motor intermittent gearbox lubricant was corrected during pre-maintenance inspection.

- (viii) Any advice related to the defect or failure to comply about the facility, activity, or basic component that has been, is being, or will be given to purchasers or licensees.

None.

- (ix) In the case of an early site permit, the entities to whom an early site permit was transferred.

Not applicable.