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Fax Number: 843-875-4204

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To: Document Control Desk

Company: U.S. Nuclear Regulatory Commission

Location: Washington, DC 20555

Copy to: N/A

Subject: 10CFR 21 Final Notification: Report No. 049

From: Todd Johnson

Direct Phone: 843-486-6149

Department: Product Eng., Aftermarket

☐ Urgent X For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Please see the attached fax related to the Curtiss-Wright Steam & Air Solutions' 10CFR 21 Report No. 049 related to the Exlar SR31 actuator.

Regards,
Todd Johnson
Product Engineering
Curtiss-Wright Steam Air Solutions (SAS)

CURTISS-WRIGHT

Electro-Mechanical Systems
Steam & Air Solutions
585 Trade Center Parkway
Summerville, SC 239483
curtisswright.com

November 17, 2026

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

Subject: 10CFR Part 21 Reporting of Defects for Exlar SR31 Actuator

Dear Sir / Madam:

In accordance with 10CFR 21.21 (a)(2), Curtiss-Wright Steam & Air Solutions (C-W SAS) is submitting this report to identify a reportable wiring defect related to the Exlar SR31 actuator.

- CW Part Number: 890267-702 or 890267-001
- Exlar Model Number: SR31-0301-XFX-EX4-118-AR-XT-P5-26082
- Exlar Part Number: 26082

Please see the following attachments:

- CW Report No. 49
- EGSCS Installed Base

Sincerely,

Todd Johnson
Aftermarket Product Engineering Manager

2026 Curtiss-Wright

NNSOP12001F1 Final Report 10CFR21 Report of a Potential Safety Hazard

Report Number: 049 Prepared By: Nick DiCandido Title: Nuclear Product Engineer Part Name: Exlar SR31 Actuator	File No: 40177A Serial No: 40177A Type: GS-2N Ref: CAR-2026-0076 SAS Part No: 890267-702 or 890267-001 SAS Dwg No: 890267 Rev Level: M

DESCRIPTION OF DEFECT

The Exlar SR31 electro-mechanical actuator assembly is used by Curtiss-Wright (CW) in the safety-related electronic governor speed control system (EGSCS) for various Terry Turbine pump drives (AFW and RCIC).

Two possible part numbers are impacted: 890267-001 (sold before 2014) and 890267-702 (sold after 2014). Both part numbers correspond to the same actuator model number and application.

- SAS Part Number: 890267-702 or 890267-001
- Exlar Model Number: SR31-0301-XFX-EX4-118-AR-XT-P5-26082
- Exlar Part Number: 26082

Two actuators (S/Ns 17060333 and 17060335) sold to Wolf Creek Nuclear Generating Station (WCN) were discovered to have independent wiring defects. The defects were discovered prior to installation of either actuator. The findings, causes of failure and resolution are described below.

S/N 17060333
During inspection, WCN discovered the "F" pin on the low-voltage connector was at a different height than all other pins. The actuator was returned to CW where it was determined the cause to be an improper seated pin during the original assembly process. The low voltage connector was replaced and the actuator was functionally tested and returned to WCN. This actuator was part of a 30-unit order placed in 2016. Several small batches were built, tested and shipped between July of 2016 and March of 2017.

S/N 17060335
The actuator had no apparent defects but was returned from WCN inventory for evaluation. CW performed initial electrical testing and discovered the actuator was not functional. The unit was disassembled and inspected to find two broken wires at the junction of the connector pins in the low-voltage connector. The root cause of this defect is unknown as actuators provided by Exlar are functionally tested at the factory prior to shipment and they had been in CW inventory since 2017. The actuator is currently awaiting repair at CW. This actuator was part of a 30-unit order placed in 2016. Several small batches were built, tested and shipped between July of 2016 and March of 2017.

NNSOP12001F1 Final Report 10CFR21 Report of a Potential Safety Hazard

ENGINEERING EVALUATION & RECOMMENDATIONS
Curtiss-Wright considers the aforementioned wiring defects to be isolated to the two actuators outlined in this report and not indicative of a systemic or pervasive safety issue. Up to this point, there have been no reports of wiring defects associated with Exlar SR31 actuators used in EGSCS applications. The two defects represent less than 3% of actuators currently in operation, sold as spares, or in CW inventory. The two actuators with wiring defects are part of a small batch of five tested on 2-27-2017. Actuator three (S/N 17060331) was evaluated by CW and operates as expected. Actuator four and five (S/Ns 17060332 & 17060334) from the batch are at two different sites. These sites will be notified separately in addition to being included in this Part 21 notification. Actuators with Customers For installed actuators, no action is required due to sites performing periodic surveillance runs of their Terry Turbine systems. No immediate action is required for actuators in customer inventory, although CW recommends sites utilizing the EGSCS for Terry Turbine pump drives (AFW and RCIC) verify all spare Exlar SR31 actuators energize, stroke and function properly. This verification can be performed on-site by installing the spare actuator(s) into the station's training simulator. There are no specific test criteria to be performed. Verification is considered successful if the system powers up, actuator provides feedback and functions as expected using current site procedures. Alternatively, the actuator can be returned to CW for testing and additional refurbishment upon request. To coordinate the return and testing of an Exlar SR31 actuator, please contact the Terry nuclear product team at SAS_TerryTurbine@curtisswright.com. Actuators at Curtiss Wright CW has verified all remaining stock actuators are functional and do not exhibit wiring defects or other operational issues. CW Corrective Action CAR-2026-0076 was created to review current requirements to evaluate spare actuators prior to shipment. Additionally, CW has implemented source surveillance hold points for all repairs and new actuator purchases from Exlar. CW plans to initiate additional checks and functional testing as part of our standard inspection and dedication process. Evaluation/ Recommendation Prepared By: Nick DiCandido Title & Date: Nuclear Product Engineer – 11/17/2026 Approved By: Todd Johnson Title & Date: Aftermarket Product Engineering Manager – 11/17/2026

DISPOSITION, CHECK ONE	
✓	Yes, this constitutes a safety hazard and requires a Final Report be prepared (NNSOP1200F1)
	No, this does not constitute a safety hazard and requires no further reporting

Reviewed by SAS Responsible Officer:

Signature: [signature]

Title & Date: Director, Eng. & Business Development 11/17/26

RETURN TO AFTERMARKET ENGINEERING MANAGER

Electronic Governor Speed Control Systems with the Exlar SR31 Actuator

Client - End User	System Description	Turbine Serial #	Shipment Month/Year
Alabama Power – Farley	GS-2 – AFW	37858A	Jan-08
Alabama Power – Farley	GS-2 – AFW	37858B	Jan-08
SoCal Edison – San Onofre	GS-2 – AFW	40101A	Jun-09
SoCal Edison – San Onofre	GS-2 – AFW	40101B	Jun-09
Evergy - Wolf Creek	GS-2 – AFW	40177A	Dec-12
Constellation – Clinton **	GS-2 – RCIC	38187A	Dec-12
NextEra Energy - Point Beach	GS-2 – AFW	D6729	Sep-13
NextEra Energy - Point Beach	GS-2 – AFW	D6730	Sep-13
Duke Energy – Shearon Harris	GS-2 – AFW	41056A	Dec-14
CNAT – Almaraz	GS-2 – AFW	38467A	Mar-15
CNAT – Almaraz	GS-2 – AFW	38467B	Mar-15
Nebraska Public Power – Cooper	GS-1 – RCIC	35939A	Sep-15
Georgia Power – Hatch **	GS-1 – RCIC	36681A	Mar-16
Georgia Power – Hatch **	GS-1 – RCIC	37121A	Mar-16
TVA – Watts Bar *	GS-2 – AFW	38677A	Jan-17
TVA – Watts Bar *	GS-2 – AFW	38677B	May-17
TVA – Sequoyah	GS-2 – AFW	37480A	Aug-18
TVA – Sequoyah	GS-2 – AFW	37480B	Sep-18
Entergy – ANO *	GS-2 – AFW	42264A	Mar-19
Entergy – ANO *	GS-2 – AFW	37665A	Sep-21
*Indicates EGSCS with a MOOG servo **EGSCS was supplied but never installed			