Event #:	58330		
Event Type:	Part 21		
Reporting Org:	ABB Motors and Mechanical	**Notify Date/Time:**	2026-06-26 14:27 (EDT)
Licensee:		**Event Date/Time:**	2026-04-28 00:00 (EDT)
		Modify Date/Time:	2026-07-31 17:59
Region:	1		
City:	Flowery Branch	**Agreement State:**	Yes
County:		**License #:**	
State:	GA		
Notified by:	Sam Bosworth	**Notifications:**	Bickett, Carey R1DO
HOO:	Ian Howard		Part 21/50.55 Reactors, - EMAIL
Emergency Class:	Non Emergency		
10 CFR Sections:			
21.21(a)(2)	Interim Eval Of Deviation		

INTERIM PART 21 REPORT - VALVE ASSEMBLY MOTOR FAILURE

The following is a summary of information provided by ABB Motors and Mechanical (ABB) via phone and email:

Potential defects were identified in safety-related motors supplied via Flowserve. Flowserve and ABB were informed that during commissioning of a new SBD-3 actuator and valve assembly, the actuator motor failed to operate. A summary of a third-party failure analysis provided by Bruce Power indicated that the likely cause of the failure was attributable to mechanical interference between a rotor balance weight and the stator winding causing insulation damage and turn-to-turn short. To date, the subject motor has not been returned to ABB for inspection.

Affected Plants: Unknown

Component Information:

Component Type: Safety-related AC electric motors for motor-operated valve (MOV) applications.

Motor Serial Number: GG215020118 supplied to Flowserve Corp.- Limitorque Actuation.

Motor Identifier: Flowserve part# R-403-F03-080000A20

Description: 100 ft-lb, 3/60/575, 2-pole motor

Contact Information:

Sam Bosworth

ABB Motors and Mechanical Inc.

Interim Quality Manager

Office: (678) 947-7274

Email: sam.bosworth@us.abb.com

Address: 4349 Avery Drive, Flowery Branch, GA, 30542

* * * UPDATE ON 07/31/2026 AT 1705 EDT FROM SAM BOSWORTH TO KAREN COTTON * * *

The following information was provided by ABB Motors and Mechanical (ABB) via email:

"ABB continues to perform an extent of condition analysis to identify motor designs which could potentially be affected. Subsequently, a review of available Borescope inspections of the motor lot size procured on this specific order was completed eliminating motors which could be visually verified to have no weights added to the rotor during the balancing process. As an engineering enhancement of the motor design, Balance weights Have been eliminated. Work instructions have been revised accordingly. Inspection checks have also been implemented to verify no balance weights have been used.

"ABB has identified seven motors at risk using several parameters including but not limited to ship date and inspection records. The list of motors below, identified by serial number, is being shared with our customer Flowserve for assistance identifying the location and end user of the motor. This information will be provided when available. It should be noted that if a motor has been in service and operating without issue there is minimal risk for this condition. ABB recommends performing a megger test on the following serial numbers which can be found on the motor nameplate. If utility has a defined preventative maintenance program for insulation resistance follow that protocol.

"Testing Guidance:

• Compare new megohm readings to historical baseline data

• Consistent readings confirm motor integrity

• For motors without baseline data: acceptable minimum is 5 megaohms (new condition)

• Results at or above baseline = Motor can be cleared from this nonconformance

"List of Motors

GG215120026

GG201320128

GG194420114

GG194020217

GG184220163

89160683-010-002

81199658-010-001

"This is the second Interim notification. Per the requirements of 10 CFR 21.21(d) a follow-up notification of evaluation status will be submitted on or before August 14, 2026."

Notified R1DO (Haney), Part 21 Reactors (email).