

Part 21 (PAR)

Event # 47425

<b>Rep Org:</b> BALDOR ELECTRIC CO.		<b>Notification Date / Time:</b> 11/09/2011 16:19 (EST)	
<b>Supplier:</b> BALDOR ELECTRIC CO.		<b>Event Date / Time:</b> 11/08/2011 (EST)	
<b>Last Modification:</b> 11/09/2011			
<b>Region:</b> 1	<b>Docket #:</b>		
<b>City:</b> GAINESVILLE	<b>Agreement State:</b> Yes		
<b>County:</b>	<b>License #:</b>		
<b>State:</b> GA			
<b>NRC Notified by:</b> FLOYD BUSH	<b>Notifications:</b> RICHARD CONTE	R1DO	
<b>HQ Ops Officer:</b> JOHN KNOKE	GEORGE HOPPER	R2DO	
<b>Emergency Class:</b> NON EMERGENCY	BRITTAIN HILL	NMSS E	
<b>10 CFR Section:</b>	Part 21 Group email		
21.21	UNSPECIFIED PARAGRAPH		

MOTOR POWER LEADS UNDERSIZED

The following information was provided by Baldor Electric via facsimile:

"Description of Defect: Motor power leads are undersized, #12AWG should be #8AWG. [Baldor] corrected the electrical design where the lead size is specified.

"Advice Related to Defect: Motors in service are not at risk unless held at locked rotor for more than 8 seconds. Normal operation, with instantaneous inrush while starting and running at loads as high as 40% locked rotor torque as name-plated, will not result in a failure. Holding the shaft blocked for 10 seconds could result in lead failure. Baldor-Reliance recommends changing the motors out as soon as convenient, i.e. during next outage. Any motors in storage should be replaced ASAP for future use.

"Part/Component Name: Actuator Motors Limitorque P/N R-402-FO6-582100A20

"Location Of All Units:

- 1) AREVA or PSE&G
- 2) AREVA or PSE&G
- 3) Baldor Electric, Gainesville, GA"

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IE19

# **EAT DOR**

A MEMBER OF THE AEG GROUP

Floyd C. Bush •  
Navy/Nuclear QC Mgr



**To:** NRC Operations Center      **Fax:** 301-816-5151

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**From:** Floyd C. Bush      **Date:** 11/09/11

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**Re:** Nuclear Nonconformance Report      **Pages:** 2

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**CC:** [Click here and type name]

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Urgent     For Review     Please Comment     Please Reply     Please Recycle

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Requirements of 10CFR21 reporting attached is nonconformance initiated for motors supplied  
Flowserve, Lynchburg, VA for application in nuclear utilities



DATE: 11/8/11

TITLE: 10CFR21 Evaluation-NUCLEAR NONCONFORMANCE REPORT

DISTRIBUTION: Floyd Bush, Dale Graves, Jim Thigpen, Jerry Martin, Matt Price

1. Customer: Flowserve, Limitorque  
PO Box 11618  
Lynchburg, VA 24506

2. Purchase Order: 1) 176922 L/I 0002-QTY 2  
2) 183917-QTY 1  
3) 186012-QTY 1

3. Part/Component Name: Actuator Motors Limitorque P/N R-402-F06-582100A20

4. Part/Component ID#: 1) B589345-010T1, B589345-010T2  
2) B733517-010T1  
3) B766515-010T1

5. Quantity On Hand: B766515-010T1      Shipped:      B589345-010T1 & T2, B733517-010T1  
PO 186012      PO 176922      PO 183917

6. Location Of All Units: 1) AREVA or PSE&G  
2) AREVA or PSE&G  
3) Baldor Electric , Gainesville, GA

7. Date Nonconformance Ascertained: 11/8/11

8. Description of Defect/Nonconformance: Motor power leads are undersized, #12AWG, should be #8AWG

9. Corrective Action Taken: Corrected the electrical design where the lead size is specified.

10. Any Advice Related to Defect/Nonconformance: Motors in service are not at risk unless held at locked rotor for more than 8seconds. Normal operation with instantaneous inrush while starting and running at loads as high as 40% locked rotor torque as name-plated will not result in a failure. Holding the shaft blocked for 10 seconds could result in lead failure. Baldor-Reliance recommends changing the motors out as soon as convenient, i.e. during next outage. Any motors in storage should be replaced ASAP for future use.

11. Individual Completing This Report:

Floyd Bush  
QA Manager, Baldor Electric Company  
Gainesville, GA 30542  
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Phone: 678-947-7311  
11/9/11