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Reliance Electric
P. O. Box 250, 4349 Avery Drive
Flowery Branch, GA 30542 USA
Tel 678.947.7350

December 22, 2011

To: Document Control Desk
United States Nuclear Regulatory Commission
Washington, DC 20555

Dear Sir or Madam:

In accordance with Title 10, Code of Federal Regulations, Part 21, Baldor Electric is making formal and final notification as required by 10CFR21.21 for event #47425.

A. Name and address of the individual informing the NRC.
James Thigpen
Quality Assurance Manager
Baldor Electric/Gainesville Motor Plant
4349 Avery Drive
Flowery Branch, Georgia 30506

B. Identification of Basic Component being Supplied.
AC Motor

C. Name of firm supplying basic component.
Baldor Electric/Gainesville Motor Plant
4349 Avery Drive
Flowery Branch, Georgia 30506

D. Nature of the defect, deviation, or failure to comply.

Subject: Nuclear Nonconformance Event Number 47425

This notice was issued because during an order review of motor specification B766515, design engineering was adding a revision to the design for a voltage addition. During this review engineering determined that three previous motors had shipped with power leads specified that are too small for the possible locked rotor current if the motor design is stalled for more than 8 seconds. The expectation from our customer(Flowserve), is motors with a locked rotor condition for up to 15 seconds will not sustain permanent damage.

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STEPS TAKEN TO PREVENT FUTURE OCCURRENCES

All electrical designs used on nuclear motors with a voltage less than or equal to 300 volts have been identified and analyzed to insure that the leads are sized properly. Also, design engineering will no longer use the "same as except" feature to create a new or modified electrical design. This will require engineering to always manually identify and input a lead descriptor.

We have notified Flowserve Quality Assurance. Through them we will initiate replacement of the three motors identified as shipped.

All affected motors (Spec. ID B589345) have been identified and recalled by way of this notification. The lead descriptor part number has been revised for these motors with increased lead size that will sustain locked rotor amps for up to 15 seconds without any permanent damage.

Motor Bill of materials for all effected specification ID's have been changed to new lead descriptor.

CONCLUSION

The problem of inadequate lead size to accommodate 15 second locked rotor is confined to the specific sales orders identified below and are used only for a specific customer. The specific problem motors for specific sales orders have been identified. The issue is confined to this limited number of motors and these motors are being recalled. The correction of the design for Spec. ID B589345 has already been implemented and verified to be correct. Engineering has taken steps to insure this issue will not be reproduced.

D. The Discovery Date.
November 8, 2011.

E. The Quantity and Location of Motors Affected.

PART/COMPONENT NUMBER:

1) B589345-010 T1 & T2	Flowserve P/N	R-402 -F06-582100A20
2) B733517-010 T1-	Flowserve P/N	R-402 -F06-582100A20
3) B766515-010 T1-	Flowserve P/N	R-402 -F06-582100A20

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	1	2	3
Flowserve PO #	176922 L/I 0002	176922 L/I 0002	183917
End User/Sold to:	PSE&G Salem/ Flowserve	PSE&G Salem/ Flowserve	Areva / Flowserve
Motor P/N	R-402-F06-582100A20	R-402-F06-582100A20	R-402-F06-582100A20
Motor S/N	B589345-010 T1	B589345-010 T2	B733517-010 T1
Shipped On:	6/25/10	6/25/10	08/05/11
Replacement Motor ID	B9112565-020 T1	B9112565-020 T1	B9112564-010 T1
Status	Motor in service at PSE&G Salem. Will be replaced with new motor at next outage.	Motor in service at PSE&G Salem. Will be replaced with new motor at next outage.	Motor at PSE&G Salem. Will be replaced with new motor.

F. **The Corrective Action which has been completed.**
Baldor initiated corrective action per Baldor CAR-00363 on November 28, 2011 which was completed and received final approval by James Thigpen QA manager Baldor. Final verification of actions will be and verified for effectiveness by 4/01/2012.

G. **Other Information.**

Replacement motor orders are in process for the three recalled motors.

Return Authorizations have been issued for all motors by Flowserve or Areva. Jeff McConkey, Flowserve QA manager, indicates that two of the motors are in service at PSE&G Salem and based on Baldor engineering evaluation information they will remain in service until the next outage, at which time the motors will be replaced with new motors supplied from Baldor. Orders for new motors are in process to be shipped to Flowserve as replacement motors for those motors recalled.

Sincerely,

James J Thigpen

Mr. James Thigpen
Quality Assurance Manager, Gainesville Motor Plant
Baldor Electric Co.