

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9202040009    DOC. DATE: 92/01/29    NOTARIZED: NO    DOCKET #  
 FACIL: 50-261 H.B. Robinson Plant, Unit 2, Carolina Power & Light C    05000261  
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 RECIP. NAME    RECIPIENT AFFILIATION  
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SUBJECT: Part 21 rept re cracks below & through upper & lower ring groove of piston castings produced by supplier. Pistons supplied as spares to facility. Util requested to inspect pistons using magnetic particle insp techniques.

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Coltec Industries



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January 29, 1992

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: Coltec Industries Inc, Fairbanks Morse Engine Division  
Model 38TD8-1/8 Emergency Generators  
Potential Piston Cracking  
Part 21 Report

Gentlemen:

We have determined that piston castings produced by one of our suppliers using a particular foundry practice may have cracks below and through the upper and lower ring groove.

The suspect pistons were produced by the suppliers foundry from late 1988 thru the present. The process has now been modified to eliminate this cause of cracking.

Four (4) of the suspect pistons have been supplied to Carolina Power and Light Co., H.B. Robinson Nuclear Plant as spare parts. They can be identified as Fairbanks Morse Part Number 16 607 765. Two pistons were purchased in 1989 and two were purchased in 1991. It has been determined through discussions with the site that two (2) of the pistons have been installed in one of the engines (Serial Number 868030, lower #2 and #8 ) and two (2) are in replacement parts stock.

The Utility should inspect the pistons and replace as necessary. The suggested method of inspection is by magnetic particle.

The expected mode of failure of these pistons, if cracked, would be separation of the piston crown from the skirt which would cause subsequent failure of liner/connecting rod.

*JE 9/10*

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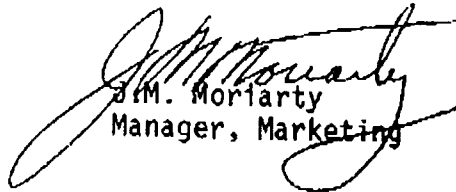
January 29, 1992

Carolina Power and Light Co., H.B. Robinson Plant is the only U.S. Nuclear installation that has received suspect pistons.

A copy of this report is being forwarded to the Utility involved.

We will keep you informed of our progress in this matter.

Very truly yours,

  
J.M. Moriarty  
Manager, Marketing

JMM/jl

cc: Carolina Power & Light Co.  
Department Manager  
H.B. Robinson  
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