CP&L

34 JUN 5 PI2: 22 Carolina Power & Light Company

P. O. Box 101, New Hill, N. C. 27562 May 31, 1984

Mr. James P. O'Reilly United States Nuclear Regulatory Commission Region II 101 Marietta Street, Northwest (Suite 2900) Atlanta, Georgia 30303

NRC-223

CAROLINA POWER & LIGHT COMPANY
SHEARON HARRIS NUCLEAR POWER PLANT
1986 - 900,000 KW - UNIT 1
G. H. BETTIS OPERATORS ON RUSKIN-SUPPLIED
HVAC DAMPERS, ITEM 157

Dear Mr. O'Reilly:

Attached is an interim report on the subject item which was deemed reportable per the provisions of 10 CFR50.55(e) and 10 CFR, Part 21, on May 22, 1984. CP&L is pursuing this matter, and it is currently projected that corrective action and submission of the final report will be accomplished by December 31, 1984.

Thank you for your consideration in this matter.

Yours very truly,

R. M. Parsons

Project General Manager

Em Parsons

Shearon Harris Nuclear Power Plant

RMP/sh

Attachment

cc: Messrs. G. Maxwell/R. Prevatte (NRC-SHNPP)
Mr. R. C. DeYoung (NRC)

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CAROLINA POWER & LIGHT COMPANY SHEARON HARRIS NUCLEAR POWER PLANT

UNIT 1

INTERIM REPORT

G. H. BETTIS OPERATORS ON RUSKIN-SUPPLIED HVAC DAMPERS

> NCR-83-103 NCR-84-333

ITEM 157

MAY 25, 1984

REPORTABLE UNDER 10CFR21 AND 10CFR50.55(e)

SUBJECT:

Shearon Harris Nuclear Power Plant Unit! G. H. Bettis operators, Purchase Order NY-435205 on Ruskin-supplied HVAC dampers

ITEM:

The following damper tag numbers are affected by this condition:

| AR-D3-1 | CB-D2SB-1 |
|--------------|--------------|
| AV-D15SA-1 | AV-D78SA-1 |
| FL-D35SA-1-4 | AV-D79SB-1 |
| FL-D36SB-1-4 | FL-D9SB-1-4 |
| FL-D37SA-1-4 | FL-D11SA-1-4 |
| FL-D38SB-1-4 | FL-D12SB-1-4 |
| AV-D82SA-1 | FL-D21SA-1-4 |
| AV-D83SB-1 | FL-D22SB-1-4 |
| AV-D86SA-1 | FL-D5SB-1-4 |
| AV-D87SB-1 | FL-D8SA-1-4 |
| AR-D4-1 | FL-D4SA-1-4 |
| AV-D9SA-1 | |

SUPPLIED BY:

Ruskin Manufacturing Company

NATURE OF DEFICIENCY:

The following condition was discovered as a result of some Bettis operators failing a vendor in-house operational test: According to Bettis, some of the internal seals (made of ethylene propylene) in the operators become swollen, apparently due to absorption of the internal lubricant (Mobil Grease 28). This swelling increases friction within the operator. This increased friction may result in increased operator actuation time beyond that required for design conditions.

DATE PROBLEM WAS CONFIRMED TO EXIST:

Based on a copy of a telex from Ruskin to Ebasco dated December 2, 1983 (received approximately December 5, 1983), which indicated a 10CFR21 reportable condition concerning Bettis actuators, the condition was determined to be potentially reportable on December 20, 1983. Also, site-generated NCR-83-103 on December 28, 1983 and NCR-84-333 on February 10, 1984 were issued.

DATE PROBLEM REPORTED:

Mr. K. V. Hate' actified the NRC (Mr. A. Hardin) on December 21, 1983 of a potentially reportable item per 10CFR21 and 10CFK50.55(e). G. H. Bettis reported the problem to the NRC on November 13, 1983. On January 18, 1984, CP&L informed the NRC by Letter NRC-169 that we would require until February 20, 1984 to determine the reportability of this item.

On February 17, 1984, CP&L informed the RRC by Letter NRC-182 that we would require until March 23, 1984 to determine reportability.

On March 23, 1984, CP&L informed the NRC by Letter NRC-198 that we would require until May 23, 1984 to determine reportability.

On May 22, 1984, CP&L (Mr. K. V. Hate') notified the NRC (Mr. D. Myers) that the December 21, 1983 potentially reportable item had been evaluated and found to be reportable per 10CFR21 and 10CFR50.55(e).

SCOPE OF PROBLEM:

The following safety-related HVAC systems/areas are affected:

- A. RAB Electrical Penetration Area
- B. RAB RHR Heat Exchanger Area
- C. RAB Mechanical Penetration Area
- D. RAB H&V Penetration Area
- E. RAB Charging Pump Area
- F. RAB Valve Gallery
- G. RAB Pipe Tunnels and Charging Pump Areas Exh. System
- H. FHB Normal Exhaust System
- I. FHB Normal Supply System
- J. FHB Loading Area

SAFETY IMPLICATION:

Should the dampers fail to operate within the required actuation time, areas may not properly isolate and airborne contaminants may not be controlled as intended.

REASON DEFICIENCY IS REPORTABLE

IS REPORTABLE: Should the dampers fail to operate within the design time limit during anticipated accident conditions, the radio-logical releases may exceed the 10CFR100 guidelines.

CORRECTIVE ACTION:

Replace lubricant and seals in affected G. H. Bettis actuators on Ruskin dampers supplied to SHNPP. G. H. Bettis is making available repair kits that contain the recommended lubricant, Molykote 44, and replacement seals.

PREVENTIVE MEASURES:

Future orders for nuclear-qualified actuators should be furnished with Molykote 44 lubricant and EP seals.

FINAL REPORT:

Ruskin Manufacturing Company has placed an or or for repair kits to replace seals and lubricants for all affected dampers. Repairs will be made as kits are received with completion by December 31, 1984. At that time, a final report will be issued.