ENERGY SERVICES GROUP

June 8, 1990

Director of Nuclear Reactor Regulations
U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, DC 20555

REPORT #145
ADDENDUM 3

Dear Sir,

On April 29, 1988, we (IMO DELAVAL at the time) notified the Commission of a potential problem with certain control system devices manufactured by California Controls - Calcon.

The initial report was followed by Addendum #1 on May 12, 1988 and Addendum #2 on September 13, 1989.

The purpose of this letter is two-fold. First, to clarify recommendations in our Addendum #1 and secondly, to inform the Commission of the results of preventative action taken by Calcon and Cooper Industries.

Georgia Power Company recently experienced a failure of a pressure sensor in a low pressure lube oil trip application (Cooper P/N F-573-156) after nine years of satisfactory service. This component was the specific subject of Addendum #1, explaining a design change to prevent unexpected failure. The modified device is identified as manufacturer's part number B4400B. The device recently failed is the original style, P/N B4400. Testing conducted at Cooper Industries in San Leandro, California and witnessed by Georgia Power, confirm that their failure was the same as described in Addendum #1.

Our recommendation of May 12, 1988, may have been confusing and in light of this failure after 9 years, it is appropriate to restate our recommendation. Cooper Industries recommends that all pressure sensor devices, Cooper P/N F-573-156, be modified or replaced by devices identified as Calcon P/N B4400B. This recommendation applies to all utilities identified in Report Addendum #1.

ENTERPRISE ENGINE SERVICES

14490 Catalina Street
P.O. Box 1837
San Leandro, CA 94577
(415) 614-7400 Fax (415) 614-7409

AJAX® • COBERRA® • COOPER-BESSEMER® • ENTERPRISE™ • EN-TRONIC® • PENN™ • SUPERIOR® • TEXCENTRIC® PRODUCTS

9006210384 900608
PDR ADOCK 05000259
S PNU

IE14

Our initial report dealt with (4) four different control device types. Preventative action taken is as follows:

AIR START VALVES: P/N KR-001-000, KR-004-001, KR-004-002

A new piston design has been engineered and tested collectively by Calcon and Cooper as described in the above referenceed Addendum #2. This new design is currently available and is being retrofitted to several utility installations.

PRESSURE SENSOR: P/N F-573-156

As described in Addendum #1, a design change has been implemented to alleviate the noted failure. Over the last two (2) years, more than 100 devices have been modified or sold to all affected utilities.

HIGH TEMPERATURE JACKET WATER TRIP: P/N F-573-330

While no specific component failures have occurred, the setting and verification of same, is procedure sensitive. We have established a standard procedure to simulate actual installed conditions and over the last year have found it to be reliable for both setting and verification.

HIGH PRESSURE CRANKCASE TRIP: P/N F-573-159

Again, we have no reported failures of this device. As the device is not as sensitive as the temperature trip above, no enhancement of the standard procedure has been found necessary.

Several other activities have combined to improve the overall reliability of the Calcon product.

A primary constituent of this has been the change in management at Calcon. As noted in our original notification, new management had just been installed. The current Manager has demonstrated a sincere desire to improve product reliability and the effect of his work is showing.

Cooper Industries continues to perform source inspections at Calcon on all product shipments. Functional tests are a regular part of this witness activity.

The implementation of a formal commercial grade part dedication program, consistent with EPRI-5652, is driving a more effective verification program at Cooper. For instance, we are currently developing the capability to test and verify performance characteristics of pneumatic and electrical devices; including Calcon.

We feel that the corrective and preventive action described above and in previous addenda are satisfactory relative to the 10CFR21 notification. Accordingly, we consider the reportability issue to be closed.

The above efforts (source inspection and product testing) will continue, of course, as will product improvements.

A copy of this letter will be forwarded to all affected utilities in our original April 29, 1988 letter, as indicated by the carbon copy list.

Sincerely,

Bruce C. Guntrum
Manager, Quality Assurance

BCG:ej

cc: See attached

10CFR21 Report #145, Addendum 3
cc:

Gulf States Utilities
P.O. Box 220
St. Francisville, LA 70775
Attention: Director, Nuclear Licensing

Carolina Power and Light Company
Harris Nuclear Project
P.O. Box 165
New Hill, NC 27562
Attention: Mr. C.S. Hinnant
Plant General Manager

Carolina Power and Light Company
Harris Nuclear Project
P.O. Box 1551
Raleigh, NC 27602
Attention: R.A. Watson
Sr. Vice President

Carolina Power and Light Company
Harris Nuclear Project
P.O. Box 165
New Hill, NC 27562
Attention: Mr. R.B. VanMetre
Manager, Technical Support

Carolina Power and Light Company
Shearson Harris Nuclear Plant
P.O. Box 165
New Hill, NC 27562
Attention: Mr. George Forehand
Manager, QA/QC

Duke Power Company
P.O. Box 33189
Charlotte, NC 28242
Attention: W.T. Robertson, Jr.
V.P. Procurement, Services & Materials

Southern California Edison
P.O. Box 138 D4E
San Clemente, CA 92672
Attention: Q.A. Manager

10CFR21 Report #145 Addendum 3
cc:

Tennessee Valley Authority
400 W. Summit Hill Drive
WT10 C126 H-K
Knoxville, TN 37902-1499
Attention: R.C. Weir

Sacramento Municipal Utility District
14440 Twin Cities Road
Herald, CA 95638
Attention: Mr. Donald R. Ferguson
Nuclear Engineering Manager
M.S. 208-6

Georgia Power Company
Plant Vogtle
P.O. Box 1600
Waynesboro, GA 30830
Attention: Mr. G. Bockhold, Jr.
Plant Manager

System Energy Resources
P.O. Box 756
Port Gibson, MS 39150
Attention: C.R. Hutchinson
General Manager, SERI

System Energy Resources
P.O. Box 429
Port Gibson, MS 39150
Attention: Fred Titus, Director
Nuclear Plant Engineering

System Energy Resources
P.O. Box 31995
Echelon One
1340 Echelon Parkway
Jackson, MS 39286-1995
Attention: Mr. T.H. Cloninger
V.P. Nuclear Engineering and Support

Long Island Lighting Company
Shoreham Nuclear Power Station
North Country Road
Wading River, NY 11791
Attention: Manager, Nuclear Operations Support Department

10CFR21 Report #145 Addendum 3
cc:

Texas Utilities Electric
Skyway Tower
400 North Oliver Street
L.B. 81
Dallas, TX 75201
Attention: Mr. W.J. Cahill
Executive Vice President

Cleveland Electric Illuminating Company
Perry Nuclear Power Plant
P.O. Box 97
Perry, OH 44081
Attention: A. Kaplan
Vice President, Nuclear

Cleveland Electric Illuminating Company
c/o Perry Nuclear Power Plant
P.O. Box 97
Perry, OH 44081
Attention: Mr. E. Riley
Director, Nuclear Quality Assurance Department

Cleveland Electric Illuminating Company
c/o Perry Nuclear Power Plant
P.O. Box 97
Perry, OH 44081
Attention: Mr. S. Kensicki
Director, Perry Plant Technical Department

Tennessee Valley Authority
1101 Market Street, LP 5N 152B
Chatanooga, TN 37402
Attention: Mr. T.W. Overlid
Manager, Nuclear Experience Review Program

Tennessee Valley Authority
WT10 B-77 H-K
400 W. Summit Hill Drive
Knoxville, TN 37902
Attention: Tim Chan

Washington Public Power Supply System
P.O. Box 460
Richland, WA 99352
Attention: Mr. L.C. Oakes
Manager, WNP-1 Engineering