



ENERGY SERVICES GROUP

March 1, 1988

Director of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Mail Station P1-137  
Washington, D.C. 20555

Report #148  
Addendum 2

Dear Sir,

On December 20, 1988, the Energy Services Group, a division of Cooper Industries notified the Commission of a potential defect in a component part of the fuel injection pump of a DSR or DSRV Standby Diesel Generator (reference our report #148).

The purpose of this letter is to update the Commission with the results of recent component inspections and discussions with the original component manufacturer.

Over the last several weeks, we have had opportunity to examine thirty three (33) delivery valves. Twenty-eight (28) of these were from used fuel pumps having less than 500 operating hours. We have also examined five (5) new delivery valve assemblies from our warehouse stock.

The twenty-eight used pieces are all date stamped in 1977 (January, July, & October). Of these, six (6) pieces have been rejected due to cracks or indications in the bore resulting from improper grinding. The five (5) new pieces were all undated and are assumed, therefore, to be post 1984 vintage; they were all found to be satisfactory.

As a result of this new information, our original December 20, 1988 recommendation is modified slightly. We recommended an examination of each delivery valve assembly during the next scheduled plant outage. This examination should be performed using magnetic particle techniques. Cracks or indications resulting from improper grinding techniques are cause for rejection (Note: residual magnetism in the delivery valve from MPI must be removed prior to reassembly). In the interim, engine cylinder temperatures should be monitored looking for lower than normal operating temperatures. Our instruction manual allows  $\pm 75$  degrees Fahrenheit from the average of all cylinders.

8903200079 890301  
PDR PT21 EMVCOIN  
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ENTERPRISE ENGINE SERVICES

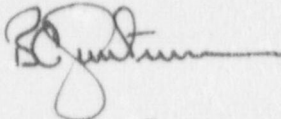
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AJAX\* • COOPER-BESSEMER\* • ENTERPRISE\* • EN-TRONIC\* • NORDBERG\* • PENN\* • SUPERIOR\* PRODUCTS

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A copy of this letter will be forwarded to all those on distribution of our original notification.



Bruce C. Guntrum  
Manager, Quality Assurance

BCG/dfa

see attached c.c.



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cc: Gulf States Utilities Company  
P.O. Box 220  
St. Francisville, LA 70775

Attn: Director, Nuclear Licensing

Carolina Power & Light Company  
Shearon Harris Nuclear Plants  
P.O. Box 165  
New Hill, North Carolina 27562

Attn: Mr. R.A. Watson  
Vice President

Mr. E.E. Wallett, Manager,  
Modification Projects

Mr. George Forehand  
Director, QA/QC

Duke Power - Catawba  
Mill Power Supply Company  
P.O. Box 33189  
Charlotte, North Carolina 28242

Attn: W.T. Robertson, Jr., Vice President  
Procurement, Services & Materials

Southern California Edison  
23 Parker Street  
Irvine, CA 92718

Attn: Q.A. Manager

Cleveland Electric Illuminating Company  
C/O Perry Nuclear Power Plant  
P.O. Box 97  
Perry, Ohio 44081

Attn: Mr. E. Riley, Director  
Nuclear Quality Assurance





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cc.: (Continued)

Tennessee Valley Authority - Bellefonte  
400 West Summit Hill Drive  
W7C126  
Knoxville, Tennessee 37902

Attn: Mr. I.L. Beltz

Washington Public Power Supply System  
P.O. 460  
Richland, WA 99352

Attn: Mr. G.K. Dyekman, Manager  
WNP-1 Engineering

Texas Utilities Electric  
Skyway Tower  
400 North Oliver Street  
L.B. 81  
Dallas, Texas 75201

Attn: Mr. W.G. Council, Jr.  
Executive Vice President

Sacramento Municipal Utility District  
14440 Twin Cities Road  
Herald, CA 95638

Attn: Mr. D.R. Ferguson  
Nuclear Engineering Dept., M.S. 208-6

Judy R. Beal  
Purchasing Department, M.S. 50

Georgia Power Company  
Plant Vogtle  
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Attn: Mr. George Bockhold, Jr.  
Plant Manager



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cc.: (Continued)  
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Attn: J.W. Cook, Vice President  
Projects (10CFR21)

System Energy Resources Inc.  
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Attn: Mr. Ted H. Cloninger, Vice President  
Nuclear Engineering & Support

Attn: C.R. Hutchinson  
General Manager  
P.O. Box 756  
Port Gibson, Mississippi 39150

Attn: Fred W. Titus, Director  
Nuclear Plant Engineering  
P.O. Box 429  
Port Gibson, Mississippi 39150

Long Island Lighting Company  
Shoreham Nuclear Power Station  
North Country Road  
Wading River, New York 11791

Attn: Manager, Nuclear Operations Support Dept.

Tennessee Valley Authority - Hartsville  
400 West Summit Hill Drive  
WT 7C126 P-K  
Knoxville, Tennessee 37902-1499

Attn: Mr. C.A. Chandley  
Mechanical Engineering Chief



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