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Transamerica
Delaval



Transamerica Delaval Inc.
Enterprise Engine Division
Enterprise Way & 85th Avenue
P.O. Box 2161
Oakland, California 94621
(415) 577-7400



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copy for M, Jordan, Bee
② Yes - please see that
this gets locked by
BG

February 19, 1986

Report #134

Director, Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sir:

In accordance with the requirements of Title 10, Chapter 10, Code of Federal Regulations, Part 21, Transamerica Delaval hereby notifies the Commission of a potential defect in a component of a DSR or DSRV Standby Diesel Generator. There could exist a potential problem with a K-1 Relay in the generator voltage regulator.

Transamerica Delaval has supplied DSR and DSRV series engines with this potential problem to the following nuclear sites:

<u>Utility</u>	<u>Site</u>	<u>Serial #</u>	<u>Model</u>
Long Island Lighting	Shoreham	74010-12	DSR-48
Carolina Power	Shearon Harris	74046-49	DSRV-16-4
Cleveland Electric	Perry	75051-54	DSRV-16-4
Texas Utilities	Commanche Peak	76001-04	DSRV-16-4
TVA	Hartsville/Phipps Bend	77024-35	DSRV-16-4

A recently completed analysis indicates that the K-1 relay was supplied to these sites with an incorrect voltage range. The relays have been environmentally qualified to IEEE-323 with a 100-140 VDC operating range whereas customer specifications require a 90-140 VDC range.

The K-1 relay is manufactured by Gould/ITE (now Telemecanique) and is mounted in the Generator Control Panel. This panel is part of the Standby Diesel Generator system supplied by Transamerica Delaval.

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Director, Office of Inspection and Enforcement
February 19, 1986
Page 2

This relay is interconnected in the field flash circuit and must operate properly for field flash operation to begin. DC voltage is provided for engine-generator startup from customer supplied on-site battery sources. If the voltage supplied is between 90-100 VDC, the K-1 relay may not operate properly, adversely affecting generator output.

Immediate correction of this problem is necessary. This can be effected in either of two ways; the Utility can modify its DC voltage source and specification to assure a supply range of 100-140 VDC or the voltage regulator circuitry can be modified to reliably accept a DC voltage supply in the 90-140 VDC range. Since action is required by others, we cannot estimate when the corrective action will be completed.

A copy of this letter will be sent to all of the sites referenced in paragraph 2 of this letter as indicated by the carbon copy list.

Our evaluation of this matter was concluded on February 14, 1986.

Very truly yours,

A handwritten signature in dark ink, appearing to read 'B.C. Guntrum', written over a horizontal line.

B.C. Guntrum
Manager, Quality Assurance

BCG:ddm

cc: LILCO
CP&L
CEI
TUSI
TVA Stride

**Transamerica
Delaval**



cc: Long Island Lighting Co.
Shoreham Nuclear Power Station
North Country Road
Wading River, New York 11791

Attn: Manager, Nuclear Operations
Support Department

Carolina Power & Light Co.
Shearon Harris Nuclear Plants
P.O. No. 101
New Hill, North Carolina 27562

Attn: Mr. R.A. Watson, Vice President
Mr. L.I. Loflin, Harris Plant Eng.
Mr. N.J. Chiangi, Manager, Q.A.

Cleveland Electric Illuminating Co.
c/o Perry Nuclear Power Plant
P.O. Box 97
Perry, Ohio 44081

Attn: Mr. C.M. Shuster, Manager
Nuclear Quality Assurance

Texas Utilities Services Inc.
P.O. Box 2300
Glen Rose, Texas 76043

Attn: Mr. J.T. Merritt, Jr.
Engineering & Construction Mgr.

TVA Hartsville
W10 D224-400 Commerce Avenue
Knoxville, Tennessee 37902

Attn: Mr. C.A. Chandley
Chief, Mech. Eng. Branch