

Transamerica  
Delaval



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



100 Years

December 9, 1986

Report #137

PTZ1 86390  
Publicly Available

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

Dear Sir:

In accordance with the requirements of Title 10, Chapter 10, Code of Federal Regulations, Part 21, Transamerica Delaval Inc. hereby notifies the Commission of a potential defect in a component of a DSRV Standby Diesel Generator. There exists a potential problem with the K-1 relay (part of Voltage Regulator system) which could result in engine/generator non-availability.

Transamerica Delaval has supplied DSRV engines with this potential defect to the following site:

<u>Utility</u>	<u>Site</u>	<u>Serial #</u>	<u>Model</u>
Cleveland Electric	Perry	75051-54	DSRV-16-4

The voltage regulator is manufactured by Basler Electric and is part of the generator system provided by General Electric. Cleveland Electric is the only domestic plant with this configuration.

The K-1 relay is an integral part of the field flash circuit and is required to flash the field on initial engine/generator start-up. If the K-1 relay does not function properly, field flash will not occur and generator output will be adversely affected.

Several failures of the closing and trip relays internal to the K-1 relay have been reported by overseas nuclear power plants. An exact cause of these failures, however, has not yet been determined. This investigation has been tasked to General Electric and Basler.

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We will keep the Commission and Cleveland Electric appraised as information becomes available from this investigation.

A copy of this letter will be sent to Cleveland Electric as noted by the carbon copy list.

Our evaluation of this matter was concluded on December 8, 1986.

Sincerely,

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: Cleveland Electric Illuminating Company  
c/o Perry Nuclear Power Plant  
P.O. Box 97  
Perry, Ohio 44081  
Attn: Mr. C.M. Shuster, Manager  
Nuclear Quality Assurance