



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

JUN 18 1985

Docket No. 50-322

MEMORANDUM FOR: Chairman Palladino  
Commissioner Roberts  
Commissioner Asselstine  
Commissioner Bernthal  
Commissioner Zech

FROM: Hugh L. Thompson, Jr., Director  
Division of Licensing

SUBJECT: BOARD NOTIFICATION 85-063 TDI DIESEL AIR START CHECK  
VALVE CRACKS AT SHOREHAM

In accordance with the procedures for Board Notification, the following information is being provided directly to the Commission. The appropriate boards and parties, for all facilities with TDI diesel generators, are being informed by a copy of this memorandum. This information is relevant to all facilities that have diesel generators manufactured by TDI, including Shoreham, which is currently before the Commission.

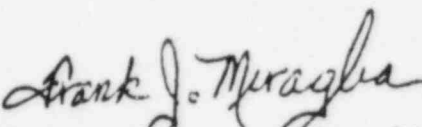
Enclosure 1 is a memo from Richard Starostecki of Region I to the Director, Division of Licensing which describes problems with cracks in, and failures of, certain check valves used in TDI diesel generators. As noted in the Enclosure, problems were first identified at Grand Gulf, and then subsequently at Shoreham. Although these check valves may be used in all TDI engines, problems have only been identified in valves associated with air start systems, and only the TDI engines at Shoreham, Catawba, Midland, San Onofre, Rancho Seco, and River Bend have these particular check valves installed in their air start systems. All engines may have Williams-Gauge check valves installed in their lube oil and/or jacket cooling water systems.

Replacement check valves manufactured by a different vendor as recommended by TDI have either been ordered or are on hand at all sites where the valves are

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installed in air start systems. The staff believes that the problems with these valves are due to a combination of high cycle and low cycle fatigue. Because the valves in the lube oil and jacket water systems operate in a medium with a much higher viscosity, and because they are not subjected to the rapid cycling motion of the air start check valves, we do not believe that there is an immediate problem in those systems.

  
for Hugh L. Thompson, Jr., Director  
Division of Licensing

Enclosure:

Memo from Richard Starostecki (Region I)  
to Hugh L. Thompson (DL) dated 4/19/85

cc: SECY (2)  
OPE  
OGC  
EDO  
Parties to the Proceeding  
ACRS (10)  
See next page

ASLABs for: Midland  
Shoreham  
Shearon Harris  
Comanche Peak  
Perry  
Vogtle  
WNP-1  
ASLABs for: Shoreham  
Catawba