

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE--PNO-I-85-22

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by the Region I staff on this date.

Facility: Long Island Lighting Company
Shoreham, New York
Shoreham Nuclear Power Station
(DN 50-322)

Licensee Emergency Classification:
 Notification of Unusual Event
 Alert
 Site Area Emergency
 General Emergency
 Not Applicable

Subject: TDI DIESEL AIR START CHECK VALVE CRACK

On April 2, 1985 the licensee found a crack in a Trans America DeLaval Inc. (TDI) emergency diesel generator (EDG) No. 101 air start check valve body. The air start system associated with each EDG starts the engine upon receipt of an emergency signal. The valves are made by Williams Gauge Co. of Pittsburg, Pennsylvania and each engine has two such valves. The TDI EDGs are not required for low power plant conditions. The reactor is currently subcritical and shutdown, with the mode switch in Refuel.

The licensee had been inspecting these valves because of an unrelated cracked disc stem problem experienced at Grand Gulf. Unlike the Grand Gulf problem, however, the crack found on the Shoreham EDG-101 check valve is a 180-degree circumferential through-wall condition on an interbody backseating portion of the valve. A complete 360-degree crack would result in dislodging this segment of the valve body, thereby disabling a portion of the air start system and possibly preventing the engine from starting or continuing to run. The originally planned inspection of the Shoreham air start valves for disk stem cracks has yielded some indications by dye penetrate testing on EDG-102. These are currently being reviewed by LILCo. Inspection of all six TDI engine air start check valves is expected to be completed by the end of this week.

Region I will respond to media inquires. The State of New York has been informed. The resident inspector is following this matter on site.

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(Reactor Licensees)

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