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

AEOD/E129

DEC 7 1981

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MEMORANDUM FOR: Carlyle Michelson, Director
Office for Analysis and Evaluation
of Operational Data

FROM: Matthew Chiramal
Office for Analysis and Evaluation
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50-324

SUBJECT: BRUNSWICK 2 DIESEL GENERATOR JACKET WATER TEMPERATURE CONTROL VALVE AND MANUAL BYPASS VALVE (LER NO. 50-324 - 81-66 FOLLOWUP)

Event Description: On July 14, 1981, while performing the monthly load test on Diesel Generator 2 (DG2), the diesel generator tripped and locked out due to jacket water temperature exceeding the trip set point of 200°F. The trip occurred due to operator error in not adequately monitoring the jacket water temperature during adjustment of the temperature control manual bypass valve.

Discussion of Event: DG-2 (like the other three diesel generators at this station) has an automatic temperature control valve in its jacket cooling water system. DG-2, however, has been operating with the automatic temperature control valve inoperable and the manual bypass valve around the automatic valve adjusted for full load operation. Thus, the diesel generator was fully operable and capable of performing its design functions.

The monthly load test of DG-2 requires the adjustment of the bypass valve to control jacket water temperature at various generator loads. During these adjustments, the operator allowed the temperature to exceed the trip set point and caused the unit to trip and lock out. Following the trip, the diesel was restarted and the monthly test was satisfactorily completed. At the completion of the test, the manual bypass valve was once again placed in the required position for full load operation of the DG.

Finding: DG-2 has been operating with its automatic jacket water temperature control valve inoperable. However, the manual bypass has been adjusted to compensate for the loss of the automatic valve and the DG is operable and capable of performing its design functions. When the automatic control valve is repaired, the jacket water cooling system of DG-2 will be fully operational again.

The LER did not contain the information regarding the inoperable automatic temperature control valve. Most of the information discussed above was obtained in separate telecommunications with the licensee (Project Manager in attendance) and the resident inspector. I recommend no further AEOD action on this event.

Matthew Chiramal
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of Operational Data

cc: JVanVleet, NRR