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Docket No. 50-382

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New Orleans, Louisiana 70174

LB#3 File  
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ACRS (10)

Dear Mr. Maurin:

The Equipment Qualification Branch has reviewed your June 25, 1982  
submittal on purge valve operability. As a result of that review, we  
have identified four open items, which are described in the attachment.  
Please provide the staff's project manager with a schedule for responding  
to these open items.

Sincerely,

Original signed by:  
Janis D. Kerrigan, Acting Chief  
Licensing Branch No. 3  
Division of Licensing

Enclosure: As stated

cc w/enclosure:  
See next page

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DATE ▶	9/22/82	9/22/82					

WATERFORD

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Containment Purge and Vent Valve Operability  
Waterford 3  
Open Items

1. Seismic loads are to be considered in combination with the Design Basis Accident (DBA) - LOCA loads for the Waterford 3 plant safety-related equipment. The applicant's response to the request for an evaluation of the operability of these valves under combined SSE and LOCA loads was that pipe break loads were not imposed since the valves are located in a moderate energy system. The aerodynamic loads in a LOCA event however are likely to be a significant load in a DBA-LOCA + SSE event. The valves were analyzed for LOCA and seismic testing was performed on the valve actuator separately. No seismic testing was indicated for the valve assembly.

The applicant should provide operability assurance of the valve assembly's ability to operate under a combined DBA-LOCA + SSE event.

2. The valve operability analysis under LOCA conditions is noted as using  $1.5 "S"$  (" $S$ " is the allowable stress figure found in Section VIII of the ASME Boiler and Pressure Vessel Code), or for shear strength  $.75 "S"$ , as allowable stresses. These values are effectively the minimum yield strength of the material and may indicate no margin is available beyond the design loads. A more conservative allowable (such as the Section III recommended  $.6 S$  for shear stress) should be used. Margins should be used in the allowable stresses to account for deviations in manufacturing or design.

3. The applicant should verify, through the valve actuator vendor (Bettis), or through torque curves for the valve actuator model used, that the end-of-stroke torque availability is the minimum torque availability for the actuators used.
4. The applicant should confirm the installation of valve travel stops to limit the opening of the valves to a maximum opening of 40°.