

APPENDIX A

Anchor Darling Valve Company  
Docket No. 99900053/83-01

NOTICE OF NONCONFORMANCE

Based on the results of an NRC inspection conducted on January 25-28, 1983, it appears that certain of your activities were not conducted in accordance with NRC requirements as indicated below:

Criterion V of Appendix B to 10 CFR Part 50 states: "Activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings. Instructions, procedures, or drawings shall include appropriate quantitative or qualitative acceptance criteria for determining that important activities have been satisfactorily accomplished."

Nonconformances with these requirements are as follows:

- A. Paragraph 7.4.3 in Section 7.0 of the Quality Assurance Manual (QAM) states, in part, ". . . The Design Report shall demonstrate the validity of the structural design to sustain and meet the requirements of the applicable Design Specification . . . Design adequacy may be verified by design reviews, alternate calculations, qualification testing or any combination of these methods."

Paragraph 2 in the Ebasco Services, Incorporated (Ebasco) Specification No. 88-70 indicates that the applicable ambient outdoor temperature range is from 0° F to 104° F. The applicable Ebasco valve list indicates that the 20-inch feedwater isolation valves are installed outside the containment building.

Contrary to the above:

1. The Design Report for 900-pound feedwater isolation valves furnished to Waterford Generating Station, Unit 3, did not address or demonstrate the validity of the design with respect to closing of the valve within the required time at temperatures as low as 0° F.
2. Closing speed design adequacy at temperatures as low as 0° F was not verified as evidenced by Wyle Laboratories Report No. 43847-2, Revision C, which indicated that the lowest temperature of the hydraulic actuator during qualification testing was 70° F.

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- B. Paragraph 7.4.4 in Section 7.0 of the QAM states, in part, "The Project Engineer shall insure that any modification of any document used for construction, from the corresponding document used for design analysis shall be reconciled with the Design Report by the person or organization responsible for the design . . . ."

Contrary to the above, modification documents pertaining to site installation of an electric heater and shroud on the 20-inch feedwater isolation valves were not reconciled with the Design Report in regard to the effect of the modification on the validity of the seismic calculations.