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May 27, 1982

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Director of Nuclear Reactor Regulation
ATTN: Mr. J. F. Stolz, Chief
Operating Reactors Branch #4
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: Arkansas Nuclear One - Unit 1
Docket No. 50-313
License No. DPR-51
Seismic Qualification of the
Emergency Feedwater System
for ANO-1

Gentlemen:

Your letter of April 2, 1982 (1CNA048202), requested further information on the seismic qualification of the emergency feedwater (EFW) system for Arkansas Nuclear One - Unit 1. We have reviewed your questions and these are our responses:

- Question 1: Enclosure 1 of Generic Letter 81-14 (GL 81-14) defines the auxiliary feedwater (AFW) system to be considered as:
- (a) "The AFW system boundary from suction to discharge (including the water source and heat sink) shall include those portions of the system required to accomplish the AFW system function and connected branch piping up to and including the second valve which is normally closed or capable of automatic closure when the safety function is required."
 - (b) "The AFW system boundary shall also include any portion of branch piping that is structurally coupled to the AFW system boundary such that the seismic response of the branch piping transmits loads to the AFW system. As a minimum, this includes the branch lines outside the AFW system boundary to a point of three orthogonal restraints."
 - (c) "All mechanical and electrical equipment, piping (e.g., instrument air), conduits and cable trays, which are necessary or contain items which are necessary for the operation of the AFW system, shall also be considered."

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- (d) "In addition, the structures housing these systems and components shall be included."

Clarify the extent to which your AFW system boundary, considered in your August 7, 1981 response letter, coincides with the boundary defined in GL 81-14.

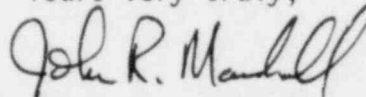
- Response 1:
- (a) The ANO-1 EFW boundary includes those portions of the system required to accomplish the EFW system function and connected piping up to and including a valve which is normally closed or capable of remote closure if required. Pump recirculation flow can not be isolated remotely.
 - (b) The seismic analysis of ANO-1 EFW piping includes loads transmitted by branch piping to a point of three orthogonal restraints.
 - (c) All mechanical and electrical equipment which is necessary or contain items which are necessary for startup and continuous operation of the ANO-1 EFW system are designed to withstand seismic loads.
 - (d) The structures housing ANO-1 EFW system components are designed to seismic Category I requirements as defined in the ANO-1 FSAR.

Question 2: Clarify the extent to which your AFW system is included within the scope of seismic related Bulletins 79-02, 79-04, 79-07, 79-14 and 80-11, and IE Information Notice 80-21.

Response 2: As was stated in our letter of August 7, 1981, our ANO-1 emergency feedwater (EFW) system is designed, constructed and maintained in accordance with Seismic Category I requirements in effect when the plant was constructed. Also, the ANO-1 EFW system was included within the scope of our evaluation in response to I.E. Bulletins 79-02, 79-04, 79-07, 79-14 and 80-11, and Information Notice 80-21 as were other Seismic Class 1 systems.

We hope this information answers your questions and allows you to complete your review.

Yours very truly,



John R. Marshall
Manager, Licensing

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