

Central file

Iowa Electric Light and Power Company

January 16, 1980
LDR-80-16

LARRY D. ROOT
ASSISTANT VICE PRESIDENT
NUCLEAR GENERATION

Mr. James G. Keppler, Director
Office of Inspection and Enforcement
Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Mr. Keppler:

The attachment to this letter is our response to IE Bulletin No. 80-01 which concerns the operability of the ADS Valve Pneumatic Supply. As a result of our evaluation, it has been determined that the ADS System at the Duane Arnold Energy Center will remain operable for the conditions under which it is required to be operable including a seismic event.

If you have any questions concerning this response, we will be pleased to further discuss them with you.

Very truly yours,

Larry D. Root

Larry D. Root
Assistant Vice President
Nuclear Generation

LDR/RFS/mz
Attachment

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File: A-101a, BN 80-01

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DUANE ARNOLD ENERGY CENTER

Responses to IE Bulletin No. 80-01

1. Determine if your facility has installed hard-seat check valves to isolate the ADS accumulator system from the pneumatic supply system.

The check valves installed at the DAEC are hard-seated.

2. Determine if periodic leak tests have been performed on your ADS accumulator systems to assure emergency pneumatic supply for the FSAR-required number and duration of valve operations.

Periodic leak tests on the systems have not been performed until this time.

3. Review seismic qualifications of the ADS pneumatic supply system:

- (a) from accumulator system isolation check valve to ADS valve operator,

The system is qualified as Seismic Class I,

- (b) from isolation valve outside containment up to ADS accumulator check valve,

The system is qualified as Seismic Class II except for the penetration and associated isolation valves which are qualified as Seismic Class I.

4. Based upon determination of items 1, 2 and 3 above, evaluate operability of the ADS for the conditions under which it is required to be operable including a seismic event. If operability cannot be established adhere to appropriate Technical Specification action statement.

As a result of the determination made above, the ADS system operability has been evaluated. The accumulators for each ADS valve at the DAEC have a measured volume of more than 200 gallons. An off-the-shelf check valve (spring loaded, bolted bonnet, piston type manufactured by Velan) which is the same as those installed in the ADS system has been bench tested to reveal a leak rate of less than 5 cc/min. Test pressure conditions were similar to those which are characteristic of ADS check valve service.

The evaluation has shown that, even after a seismic event, the ADS system could operate many more times than that which is required by the FSAR.

To further enhance the position stated above, Iowa Electric Light and Power Company will periodically leak test the ADS system check valves beginning with the next refueling shutdown which is scheduled for February 9, 1980.