

July 9, 1985

Docket No. 50-331

Mr. Lee Liu
Chairman of the Board and
Chief Executive Officer
Iowa Electric Light and Power Company
Post Office Box 351
Cedar Rapids, Iowa 52406

Dear Mr. Liu:

SUBJECT: IGSCC IN STAINLESS STEEL PIPING

Re: Duane Arnold Energy Center

Your submittals of June 18, 1984 and May 3, May 24, June 7, and June 14, 1985 describe your piping inspection and repair program for the current outage at the Duane Arnold Energy Center (DAEC). Your staff's presentation, during a meeting with the NRC staff in Bethesda, Maryland on April 22, 1985, provided results of your piping inspection in accordance with our Generic Letter 84-11, and your plans for repair of the pipe cracks. The subsequent information provided by you indicates that a total of 183 welds in the reactor coolant piping system were ultrasonically inspected. In addition, 104 large-diameter welds in the recirculation piping system were treated with the induction-heating-stress-improvement (IHSI) procedure. Eleven recirculation piping welds which were found either to be cracked or had indications of cracks, were repaired by weld overlay. Your leak detection system will provide enhanced assurance of pipe crack detection as a result of your upgrading the leak detection capability and meeting the leakage limit requirement recommended in Generic Letter 84-11.

We have reviewed the above and other information provided by you on the inspection and repairs performed and conclude that your response to our Generic Letter 84-11 and the completed overlay repairs meet the NRC guidance and are acceptable. Therefore, Duane Arnold Energy Center can be safely operated for at least one additional operating cycle.

The Safety Evaluation supporting our conclusions will be transmitted under separate cover.

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Q PDR

Mr. Lee Liu

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We request that your plans for inspection and/or modifications of the reactor coolant pressure boundary piping system during the next refueling outage be submitted for our review at least three months prior to the start of the refueling outage.

Sincerely,

Original signed by/

Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing

cc: See next page

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*Please see previous concurrence page.

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Mr. Lee Liu
Iowa Electric Light and Power Company
Duane Arnold Energy Center

cc:

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