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UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TEXAS 76012

August 30, 1979

In Reply Refer To:

RIV

Docket Nos. 50-498/IE Bulletin No. 79-13, Revision 1
50-499/IE Bulletin No. 79-13, Revision 1

Houston Lighting & Power Company
ATTN: Mr. E. A. Turner, Vice President
Power Plant Construction and
Technical Services

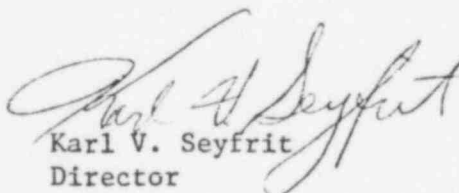
Post Office Box 1700
Houston, Texas 77001

Gentlemen:

IE Bulletin 79-13 was originally sent to you for action on June 27, 1979. The enclosed IE Bulletin 79-13, Revision 1 is forwarded to you for information. No written response is required. This Revision is being dispatched for action to the additional Utilities, listed in Enclosure 3, who are applicants for operating licenses.

If you desire additional information regarding this matter, please contact this office.

Sincerely,


Karl V. Seyfrit
Director

Enclosures:

1. IE Bulletin No. 79-13,
Revision 1
2. List of IE Bulletins
Issued in Last Six
Months
3. Designated Applicants for
Operating Licenses

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UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
WASHINGTON, D.C. 20555

IE Bulletin No. 79-13
Revision 1
Date: August 30, 1979
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CRACKING IN FEEDWATER SYSTEM PIPING

Description of Circumstances:

On May 20, 1979, Indiana and Michigan Power Company notified the NRC of cracking in two feedwater lines at their D. C. Cook Unit 2 facility. The cracking was discovered following a shutdown on May 19 to investigate leakage inside containment. Leaking circumferential cracks were identified in the 16-inch feedwater elbows adjacent to two steam generator nozzle elbow welds. Subsequent radiographic examination revealed crack indications in all eight steam generator feedwater lines at this location on both Units 1 and 2.

On May 25, 1979, a letter was sent to all PWR licensees by the Office of Nuclear Reactor Regulation which informed licensees of the D. C. Cook failures and requested specific information on feedwater system design, fabrication, inspection and operating histories. To further explore the generic nature of the cracking problem, the Office of Inspection and Enforcement requested licensees of PWR plants in current outages to immediately conduct volumetric examination of certain feedwater piping welds.

As a result of these actions, several other licensees with Westinghouse steam generators reported crack indications. Southern California Edison reported on June 5, 1979, that radiographic examination revealed indications of cracking in feedwater nozzle-to-piping welds on two of three steam generators of San Onofre Unit 1. On June 15, 1979, Carolina Power and Light reported that radiography showed crack indications in similar locations at their H. B. Robinson Unit 2. Duquesne Power and Light confirmed on June 18, 1979, that radiography has shown cracking in their Beaver Valley Unit 1 feedwater piping to vessel nozzle weld. Public Service Electric and Gas Company reported on June 20, 1979, that Salem Unit 1 also has crack indications. Wisconsin Public Service Company decided on June 20, 1979, to cut out a feedwater nozzle-to-pipe weld which contained questionable indication, for metallurgical examination. As of June 22, 1979, and since May 25, 1979, seven other PWR facilities have inspected the feedwater nozzle-to-pipe welds without finding cracking indications.

The feedwater nozzle-to-pipe configurations are shown on the attached Figures 1 and 2. A weld joint detail showing the principal weld joint detail showing the principal configurations for San Onofre are shown on the attached Figures 3 and 4.

DUPLICATE DOCUMENT

Entire document previously entered into system under:

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DESIGNATED APPLICANTS FOR OPERATING
LICENSES

Salem 2

North Anna 2

Diablo Canyon 1 & 2

Sequoyah 1

McGuire 1

San Onofre 2

Summer

Watts Bar 1 & 2

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