



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

AUG 30 1979

In Reply Refer To:
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Duke Power Company
Attn: W. O. Parker, Jr.
Vice President, Steam Production
Post Office Box 2178
Charlotte, North Carolina 28242

Gentlemen:

Enclosed is IE Bulletin 79-13, Revision 1 which requires action by you with regard to your power reactor facility(ies) identified in Enclosure 3.

Should you have any questions regarding this Bulletin or the actions required by you, please contact this office.

Sincerely,

James P. O'Reilly
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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Duke Power Company

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cc w/encl:

M. D. McIntosh, Plant Manager
Post Office Box 488
Cornelius, North Carolina 28031

J. C. Rogers, Project Manager
Post Office Box 33189
Charlotte, North Carolina 28242

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

August 30, 1979

IE Bulletin No. 79-13
Revision 1

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 and reported crack indications.

The feedwater nozzle-to-pipe configurations are shown on the attached figures 1 and 2. Weld joint detail showing the principal crack at San Onofre are shown on the attached figure 3.

DUPLICATE DOCUMENT

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