



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
 WASHINGTON, D.C. 20555-0001

October 24, 1996

Mr. G. R. Horn  
 Senior Vice President of Energy Supply  
 Nebraska Public Power District  
 1414 15th Street  
 Columbus, NE 68601

SUBJECT: COOPER NUCLEAR STATION - REQUEST FOR ADDITIONAL INFORMATION  
 REGARDING AMENDMENT 4.1 TO THE SECOND 10-YEAR INTERVAL INSERVICE  
 INSPECTION PROGRAM (TAC NO. M95833)

Dear Mr. Horn:

By letter dated June 20, 1996, the Nebraska Public Power District (NPPD) submitted Amendment 4.1 to the Second 10-Year Interval Inservice Inspection (ISI) Program for the Cooper Nuclear Station (CNS). Amendment 4.1 contains one revised and four new requests for relief from the ASME Code Section XI requirements for NRC review and approval, in accordance with the requirements of 10 CFR 50.55a. The need for these relief requests was identified during the refueling outage ending December 30, 1995, the last refueling outage in the second interval.

The NRC staff, with technical assistance from its contractor, the Idaho National Engineering Laboratory, has reviewed and evaluated the information provided in the above submittal. Based upon that review, the staff will require additional information in order to complete its review of the relief requests associated with Amendment 4.1 to the Second 10-year Interval ISI Program for CNS. The staff's request for additional information (RAI) is attached. In order for the staff to complete its review in a timely manner, we request that you submit a response to the attached RAI within 60 days of the receipt of this letter. In addition, to expedite our review, please send a copy of your response to:

Michael T. Anderson  
 INEL Research Center  
 2151 North Boulevard  
 PO Box 1625  
 Idaho Falls, Idaho 83415-2209

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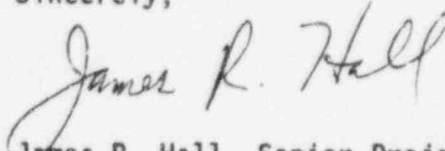
**NRC FILE CENTER COPY**

Mr. G. R. Horn

- 2 -

If you have any questions regarding this request, please call me at  
(301) 415-1336.

Sincerely,

A handwritten signature in cursive script that reads "James R. Hall". The signature is written in dark ink and is positioned above the typed name and title.

James R. Hall, Senior Project Manager  
Project Directorate IV-1  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Docket No. 50-298

Enclosure: Request For Additional Information

cc w/encl: See next page

Mr. G. R. Horn

- 2 -

If you have any questions regarding this request, please call me at  
(301) 415-1336.

Sincerely,

ORIGINAL SIGNED BY:

James R. Hall, Senior Project Manager  
Project Directorate IV-1  
Division of Reactor Projects III/IV  
Office of Nuclear Reactor Regulation

Docket No. 50-298

Enclosure: Request For Additional Information

cc w/encl: See next page

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CHawes

Document Name: C0095833.RAI

OFC	PM/PD4-1	(A) LA/PD4-1
NAME	JRHall/vw <i>JRH</i>	CHawes <i>CH</i>
DATE	<i>10/24/96</i>	<i>10/18/96</i>
COPY	YES/NO	YES/NO

OFFICIAL RECORD COPY

Mr. G. R. Horn  
Nebraska Public Power Company

Cooper Nuclear Station

cc:

Mr. John R McPhail, General Counsel  
Nebraska Public Power District  
P. O. Box 499  
Columbus, NE 68602-0499

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11th & O Streets  
Lincoln, NE 68508

Nebraska Public Power District  
ATTN: Mr. P. D. Graham  
Vice President of Nuclear Energy  
P. O. Box 98  
Brownville, NE 68321

Midwest Power  
ATTN: Richard J. Singer, Manager-Nuclear  
907 Walnut Street  
P. O. Box 657  
Des Moines, IA 50303

Randolph Wood, Director  
Nebraska Department of Environmental  
Control  
P. O. Box 98922  
Lincoln, NE 68509-8922

Nebraska Public Power District  
ATTN: Mr. B. L. Houston, Nuclear  
Licensing & Safety Manager  
P. O. Box 98  
Brownville, NE 68321

Mr. Larry Bohlken, Chairman  
Nemaha County Board of Commissioners  
Nemaha County Courthouse  
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Auburn, NE 68305

Senior Resident Inspector  
U.S. Nuclear Regulatory Commission  
P. O. Box 218  
Brownville, NE 68321

Regional Administrator, Region IV  
U.S. Nuclear Regulatory Commission  
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Arlington, TX 76011

Ms. Cheryl Rogers, LLRW Program Manager  
Division of Radiological Health  
Nebraska Department of Health  
301 Centennial Mall, South  
P. O. Box 95007  
Lincoln, NE 68509-5007

Mr. Ronald A. Kucera, Department Director  
of Intergovernmental Cooperation  
Department of Natural Resources  
P.O. Box 176  
Jefferson City, MO 65102

REQUEST FOR ADDITIONAL INFORMATION  
AMENDMENT 4.1 TO THE SECOND 10-YEAR INTERVAL INSERVICE INSPECTION PROGRAM  
NEBRASKA PUBLIC POWER DISTRICT  
COOPER NUCLEAR STATION  
DOCKET NO. 50-298

By letter dated June 20, 1996, the Nebraska Public Power District (NPPD) submitted Amendment 4.1 to the Second 10-Year Interval Inservice Inspection (ISI) Program for the Cooper Nuclear Station (CNS). Amendment 4.1 contains one revised and four new requests for relief from the ASME Code Section XI requirements for NRC review and approval, in accordance with the requirements of 10 CFR 50.55a. The need for these relief requests was identified during the refueling outage ending December 30, 1995, the last refueling outage in the second interval. The NRC staff, with technical assistance from its contractor, the Idaho National Engineering Laboratory, has reviewed and evaluated the information provided in the above submittal. Based upon that review, the staff requires the additional information discussed below, in order to complete its review of the relief requests associated with Amendment 4.1 to the second 10-year interval ISI program for CNS.

1. Scope/Status of Review

Throughout the service life of a water-cooled nuclear power facility, 10 CFR 50.55a(g)(4) requires that components (including supports) that are classified as American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code Class 1, Class 2, and Class 3 meet the requirements, except design and access provisions and preservice examination requirements, set forth in ASME Code Section XI, Rules for Inservice Inspection of Nuclear Power Plant Components", to the extent practical within the limitations of design, geometry, and materials of construction of the components. This section of the regulations also requires that inservice examinations of components and system pressure tests conducted during the successive 120-month inspection interval comply with the requirements in the latest edition and addenda of the Code incorporated by reference in 10 CFR 50.55a(b) on the date 12 months prior to the start of a successive 120-month interval, subject to the limitations and modifications listed therein. The components (including supports) may meet requirements set forth in subsequent editions and addenda of the Code that are incorporated by reference in 10 CFR 50.55a(b) subject to the limitations and modifications listed therein. The licensee, Nebraska Public Power District, has prepared the Cooper Nuclear Station, Second 10-Year Interval ISI Program Plan to meet the requirements of the 1980 Edition of Section XI of the ASME Code with the 1981 Addenda.

ENCLOSURE

As required by 10 CFR 50.55a(g)(5), if the licensee determines that certain Code examination requirements are impractical and requests relief, the licensee shall submit information to the Nuclear Regulatory Commission (NRC) to support that determination.

The staff has reviewed the information in the *Cooper Nuclear Station, Second 10-Year Interval ISI Program Plan*, Amendment 4.1, submitted by letter dated June 20, 1996, and the requests for relief from the ASME Code Section XI requirements that the licensee has determined to be impractical.

## 2. Additional Information Required

Based on the above review, the staff has concluded that additional information and/or clarification is required to complete the review of the ISI Program Plan Amendment.

1. In the amended second 10-year interval ISI program plan, the Nebraska Public Power District (NPPD) provided an adjusted weld examination list. From this list, it is not apparent what adjustments have been made. Provide a summary of adjustments and the basis for the changes. It should be noted that examinations performed during successive intervals should be performed on the same examination areas. Verify that the successive examination requirements of the Code (IWB-2420 and IWC-2420) have been satisfied.
2. Relief Request Number RI-06, Revision 2, appears to be an end of interval relief request for reactor pressure vessel weld examinations. It is unclear whether the information provided is based on actual examinations performed in accordance with Code requirements. If so, NPPD must submit information on the percentage of coverage obtained for each weld, discuss the limiting factors, and provide a basis for the acceptability for the coverages obtained. Discuss the approach used to maximize coverage of the Code-required examination volume (outside and inside vessel examinations).
3. In Request for Relief RI-21, Rev. 0, NPPD included the Control Rod Drive Return Nozzle Inner Radius. However, the basis only discusses limitations associated with nozzle-to-shell welds. Provide clarification for the subject request for relief relative to inner radius examinations performed on the subject nozzles. Discuss the percent of coverage for the CRD nozzle inner radius and the limiting factors.
4. For Request for Relief RI-23, NPPD has requested relief from Code examination requirements associated with three RCIC welds in the Torus. Provide the basis for the code classification of the subject welds on the strainer, when the subject welds are within the torus.