



Nebraska Public Power District

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NLS2017006
February 2, 2017

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

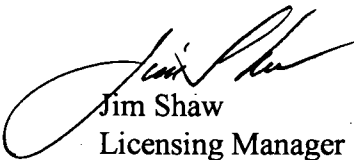
**Subject: Inservice Inspection OAR-1 Owner's Activity Report
Cooper Nuclear Station, Docket No. 50-298, DPR-46**

Dear Sir or Madam:

The purpose of this letter is to provide to the Nuclear Regulatory Commission the Inservice Inspection OAR-1 Owner's Activity Report for the Fall 2016 Refueling Outage at Cooper Nuclear Station (CNS). This report is submitted in accordance with the requirements of the American Society of Mechanical Engineers Boiler and Pressure Vessel Code, Section XI, Code Case N-532-5. The enclosure contains the completed OAR-1 Owner's Activity Report form, a table identifying the description of items with flaws or relevant conditions that required evaluation for continued service, and a table providing an abstract of repair/replacement activities required for continued service.

This letter does not contain commitments. Should you have any questions regarding this matter, please contact me at (402) 825-2788.

Sincerely,



Jim Shaw
Licensing Manager

/bk

Enclosure: OAR-1 Owner's Activity Report

cc: Regional Administrator w/enclosure
USNRC - Region IV

Cooper Project Manager w/enclosure
USNRC - NRR Plant Licensing Branch IV

Senior Resident Inspector w/enclosure
USNRC - CNS

NPG Distribution w/o enclosure

CNS Records w/enclosure

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NLS2017006
Enclosure
Page 1 of 4

Enclosure

OAR-1 Owner's Activity Report

Cooper Nuclear Station Form OAR-1 Owner's Activity Report

| | | | |
|---|--|-------------------------|--|
| Report Number | <u>RE29-1</u> | | |
| Plant | <u>Cooper Nuclear Station, P.O. Box 98, 72676 648A Ave. Brownville, NE 68321</u> <small>(Name and Address of Plant)</small> | | |
| Unit No. | <u>1</u> <small>(if applicable)</small> | Commercial Service Date | <u>7/1/1974</u> Refueling Outage No. <u>RE29</u> |
| Current Inspection Interval | <u>5th Interval (Class 1, 2, 3); 3rd Interval (Class MC)</u> <small>(1st, 2nd, 3rd, 4th, other)</small> | | |
| Current Inspection Period | <u>1st Period (Class 1, 2, 3, MC)</u> <small>(1st, 2nd, 3rd)</small> | | |
| Edition and Addenda of Section XI applicable to the inspection plans | <u>2007 Edition, 2008 Addenda</u> | | |
| Date and Revision of inspection plans | <u>3/30/16, Revision 0 (Class 1, 2, 3 combined)</u> | | |
| Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans | <u>Same</u> | | |
| Code Case used: | <u>N-513-3, N-532-5</u> <small>(If applicable)</small> | | |

| CERTIFICATE OF CONFORMANCE | |
|--|---------------------|
| I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of <u>RE29</u> conform to the requirements of Section XI. <small>(Refueling Outage Number)</small> | |
| Signed <u>Troy Barker-Engineering Programs & Components Manager/</u> <small>Owners or Owner's Designee, Title</small> | Date <u>1/23/17</u> |

| CERTIFICATE OF INSERVICE INSPECTION | |
|--|---|
| I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Nebraska</u> and employed by <u>Hartford Steam Boiler Inspection and Insurance Company</u> of <u>Hartford, Connecticut</u> have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI. | |
| By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection. | |
| Scott Mascarello <small>Inspector's Signature</small> | Commissions <u>14725 A, N, I, IS, C</u> <small>National Board, State, Province, and Endorsements</small> |
| Date <u>01/24/17</u> | |

| COOPER NUCLEAR STATION | | |
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| TABLE 1 | | |
| ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE | | |
| Examination Category and Item Number | Item Description | Evaluation Description |
| D-B, D2.10 | On 8/23/2016, a four (4) inch diameter piping section of the service water system between valve SW-V-127 and a soc-o-let was identified as having a through wall leak per station work order 5121122. The condition was entered into the station corrective action program per CR-CNS-2016-04984. | This pipe section was evaluated to allow continued operation until it could be repaired in refueling outage RE-29 by application of Code Case N-513-3. |
| D-B, D2.10 | On 8/30/2016, areas of wall thickness below the design minimum were identified in an eighteen (18) inch diameter service water piping section SW-E-9-2851-2 per station work order 5121084. The condition was entered into the station corrective action program per CR-CNS-2016-05167. | This pipe section was evaluated to allow continued operation until it could be repaired in refueling outage RE-29 by application of Code Case N-513-3. |
| D-B, D2.10 | On 9/13/2016, areas of wall thinning below the minimum design wall thickness were discovered in an eighteen (18) inch diameter service water piping section SW-Z4-2851-7 per station work order 5120799. The condition was entered into the station corrective action program per CR-CNS-2016-05558. | This pipe section was evaluated to allow continued operation until it could be repaired in refueling outage RE-29. |
| D-B, D2.10 | On 9/15/2016, areas of wall thinning below the minimum design wall thickness were discovered in an eighteen (18) inch diameter service water piping section SW-E-3-2851-3 per station work order 5121085. The condition was entered into the station corrective action program per CR-CNS-2016-05628. | This pipe section was evaluated to allow continued operation until it could be repaired in refueling outage RE-29. |

| COOPER NUCLEAR STATION | | | | |
|---|--|---|-----------------------|--|
| TABLE 2 | | | | |
| ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE | | | | |
| Code Class | Item Description | Description of Work | Date Completed | Repair/ Replacement Plan Number |
| 3 | As identified in Table 1 above, the through wall leak identified in a service water system piping section between valve SW-V-127 and a soc-o-let was repaired in refueling outage RE-29. | Section of the through wall flaw was replaced under station work order 5147447. | 11/2/2016 | 16-021 |
| 3 | As identified in Table 1 above, the wall thinning areas of service water system piping section SW-E-9-2851-2 was repaired in refueling outage RE-29. | The affected section of piping was replaced under station work order 5148641. | 10/16/2016 | 16-028R1 |
| 3 | As identified in Table 1 above, the wall thinning areas of service water system piping section SW-Z4-2851-7 was repaired in refueling outage RE-29. | Localized areas were repaired under station work order 5150017. | 10/31/2016 | 16-023 |
| 3 | As identified in Table 1 above, the wall thinning areas of service water system piping section SW-E-3-2851-3 was repaired in refueling outage RE-29. | Localized areas were repaired under station work order 5150817. | 10/31/2016 | 16-026 |
| 3 | Service water system piping section located upstream of SW-H231 was identified to have a through wall leak during refueling outage RE29. The condition was entered into the station corrective action program per CR-CNS-2016-07313. | Section of the through wall flaw was replaced under station work order 5154941. | 10/26/2016 | 16-042R1 |