



Nebraska Public Power District

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NLS2019005

February 14, 2019

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 2018 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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OAR-1 Owner's Activity Report

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number RE30-1

Plant Cooper Nuclear Station, P.O. Box 98, 72676 648A Ave, Brownville, NE 68321

Unit No. 1 Commercial Service Date 7/1/1974 Refueling Outage No. RE30
(if applicable)

Current Inspection Interval 5th Interval (Class 1, 2, 3); 3rd Interval (Class MC)
(1st, 2nd, 3rd, 4th, other)

Current Inspection Period 1st Period (Class 1, 2, 3, MC)
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plans 2007 Edition, 2008 Addenda

Date and Revision of inspection plans 1/24/19, Revision 2 (Class 1, 2, 3 combined)

Edition and Addenda of Section XI applicable to repair/replacement activities, if different than the inspection plans
Same

Code Cases used for inspection and evaluation: N-513-4 Approved per Relief Request RR5-03, N-532-5
(If applicable, including cases modified by Case N-532 and later revisions)

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 RE30 conform to the requirements of Section XI.
(Refueling Outage Number)

Signed Steve Nelson Date 2/8/2019
Steve Nelson-Acting Engineering Programs & Components Manager
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by The Hartford Steam Boiler Inspection and Insurance Company of Hartford, Connecticut 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 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 Scott Mascarello Commission NB# 14725, Endorsements C, I, N, R
Inspector's Signature (National Board Number and Endorsement)

Date 2-11-19

COOPER NUCLEAR STATION**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 9/12/18, a localized area of wall thinning below the design minimum wall thickness was identified on eighteen (18) inch diameter Service Water piping section SW-E-10-2851-3. The condition was entered into the station corrective action program per CR-CNS-2018-05403.	The pipe section was evaluated by the application of Code Case N-513-4 as approved per Relief Request RR5-03 to allow continued operation until it could be repaired in refueling outage RE30.
D-B, D2.10	On 9/14/18, a localized area of wall thinning below the design minimum wall thickness was identified on eighteen (18) inch diameter Service Water piping section SW-E-8-2851-3. The condition was entered into the station corrective action program per CR-CNS-2018-05439.	The pipe section was evaluated by the application of Code Case N-513-4 as approved per Relief Request RR5-03 to allow continued operation until it could be repaired in refueling outage RE30.
D-B, D2.10	On 9/17/18, a localized area of wall thinning below the design minimum wall thickness was identified on eighteen (18) inch diameter Service Water piping section SW-E-7-2851-7. The condition was entered into the station corrective action program per CR-CNS-2018-05470.	The pipe section was evaluated by the application of Code Case N-513-4 as approved per Relief Request RR5-03 to allow continued operation until it could be repaired in refueling outage RE30.
D-B, D2.10	On 9/27/18, a localized area of wall thinning below the design minimum wall thickness was identified on eighteen (18) inch diameter Service Water piping section SW-P-8A-2851-3. The condition was entered into the station corrective action program per CR-CNS-2018-05663.	The pipe section was evaluated by the application of Code Case N-513-4 as approved per Relief Request RR5-03 to allow continued operation until it could be repaired in refueling outage RE30.
D-B, D2.10	On 9/28/18, localized areas of wall thinning below the design minimum wall thickness were identified on eighteen (18) inch diameter Service Water piping section SW-P-4A-2851-3. The condition was entered into the station corrective action program per CR-CNS-2018-05684.	The pipe section was evaluated to allow continued operation until it could be repaired in refueling outage RE30.

COOPER NUCLEAR STATION 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 9/28/18, localized areas of wall thinning below the design minimum wall thickness were identified on eighteen (18) inch diameter Service Water piping section SW-P-3A-2851-3. The condition was entered into the station corrective action program per CR-CNS-2018-05691.	The pipe section was evaluated to allow continued operation until it could be repaired in refueling outage RE30.
D-B, D2.10	On 9/29/18, localized areas of wall thinning below the design minimum wall thickness were identified on eighteen (18) inch diameter Service Water piping section SW-Z8-2851-7. The condition was entered into the station corrective action program per CR-CNS-2018-05713.	The pipe section was evaluated to allow continued operation until it could be repaired in refueling outage RE30.
D-B, D2.10	On 9/29/18, localized areas of wall thinning below the design minimum wall thickness were identified on eighteen (18) inch diameter Service Water piping section SW-Z6-2851-7. The condition was entered into the station corrective action program per CR-CNS-2018-05716.	The pipe section was evaluated to allow continued operation until it could be repaired in refueling outage RE30.
D-B, D2.10	On 10/7/18, a localized area of wall thinning below the design minimum wall thickness was identified on eighteen (18) inch diameter Service Water piping section SW-P-3C-2851-3. The condition was entered into the station corrective action program per CR-CNS-2018-06138.	The pipe section was evaluated to allow continued operation until it could be repaired in refueling outage RE30.
D-B, D2.10	On 10/7/18, a localized area of wall thinning below the design minimum wall thickness was identified on eighteen (18) inch diameter Service Water piping section SW-Z12-2851-7. The condition was entered into the station corrective action program per CR-CNS-2018-06140.	The pipe section was evaluated to allow continued operation until it could be repaired in refueling outage RE30.

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	Localized wall thinning identified in pipe section SW-E-11-2852-8 was replaced in Cycle 30. This condition was identified in CR-CNS-2016-08783.	Pipe below Min-Wall. Replaced section of Service Water pipe in Cycle 30 per Work Order 5148640.	12/18/16	16-045R3
3	Localized wall thinning identified in pipe section SW-E-9-2851-3 downstream of support SW-H-58 was repaired in Cycle 30. Condition identified in CR-CNS-2016-08790.	Pipe was below Min-Wall. Repaired section of Service Water pipe per Work Order 5166222.	12/16/16	16-047
3	Service water pump C (SW-P-C) sent to manufacturer for restoration. Sections of pump columns and discharge head were thinned.	Repaired the pump columns and discharge head by weld build up per PO# 4500189099 and reinstalled per Work Order 5061142.	3/30/17	15-052R2
3	Localized wall thinning identified by CR-CNS-2018-01415 and CR-CNS-2018-01416 in pipe section SW-E-4-2851-3 downstream of SW-H-52 was repaired in Cycle 30.	Pipe below Min-Wall. Replaced section of Service Water pipe per Work Order 5235199.	3/15/18	18-016
3	As identified in Table 1, the localized wall thinning identified in pipe section SW-E-10-2851-3 was replaced in RE-30.	Pipe was below Min-Wall. Replaced section of thinned pipe per Work Order 5265739.	10/18/18	18-039
3	As identified in Table 1, the localized wall thinning identified in pipe section SW-E-8-2851-3 was repaired in RE30.	Pipe was below Min-Wall. Repaired thin section of pipe per Work Order 5266082.	10/18/18	18-040
3	As identified in Table 1, the localized wall thinning identified in pipe section SW-E-7-2851-7 was repaired in RE30.	Pipe was below Min-Wall. Repaired section of Service Water pipe per Work Order 5266083.	10/18/18	18-041
3	As identified in Table 1, the localized wall thinning identified in pipe section SW-P-3A-2851-3 was repaired in RE30.	Pipe below Min-Wall. Repaired section of Service Water pipe per Work Order 5267092.	10/18/18	18-044

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, the localized wall thinning identified in pipe section SW-P-4A-2851-3 was repaired in RE30.	Pipe below Min-Wall. Repaired section of Service Water pipe per Work Order 5267091.	10/18/18	18-045
3	As identified in Table 1, the localized wall thinning identified in pipe section SW-P-8A-2851-3 was repaired in RE30.	Pipe below Min-Wall. Repaired section of Service Water pipe per Work Order 5267011.	10/18/18	18-046
3	As identified in Table 1, the localized wall thinning identified in pipe section SW-Z8-2851-7 was repaired in RE30.	Pipe below Min-Wall. Repaired section of Service Water pipe per Work Order 5267093.	10/18/18	18-047
3	As identified in Table 1, the localized wall thinning identified in pipe section SW-Z6-2851-7 was repaired in RE30.	Pipe below Min-Wall. Repaired section of Service Water pipe per Work Order 5267094.	10/18/18	18-048
3	As identified in Table 1, the localized wall thinning identified in pipe section SW-Z12-2851-7 was repaired in RE30.	Pipe below Min-Wall. Repaired section of Service Water pipe per Work Order 5268304.	10/18/18	18-050
3	As identified in Table 1, the localized wall thinning identified in pipe section SW-P-3C-2851-3 was repaired in RE30.	Pipe below Min-Wall. Repaired section of Service Water pipe per Work Order 5268305.	10/18/18	18-051
1	Cracked welds found on support RF-H71 were repaired in RE30.	Hanger was welded per work order 5267634.	10/28/18	18-057