

WOLF CREEK NUCLEAR OPERATING CORPORATION

February 13, 2017

Cynthia R. Hafenstine
Manager Regulatory Affairs

RA 17-0004

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Reference: Letter dated December 10, 2014, from E. R. Oesterle, USNRC, to A. C. Heflin, WCNOG

Subject: Docket No. 50-482: Inservice Inspection Program Owner's Activity Reports for Third Interval, Third Period, Refueling Outage 21; and Fourth Interval, First Period, Refueling Outage 21

Gentlemen:

Enclosed are the Wolf Creek Nuclear Operating Corporation (WCNOG) Owner's Activity Reports (Form OAR-1, Report Number WCRE-16, I3-P3-RF21 and Form OAR-1, Report Number WCRE-30, I4-P1-RF21) for inservice inspections performed after Wolf Creek Generating Station's (WCGS) twentieth refueling outage (RF20) that concluded on May 3, 2015, and up to, and including, WCGS' twenty-first refueling outage (RF21) that concluded on November 21, 2016. The third interval of the WCNOG Inservice Inspection (ISI) Program ended on September 2, 2015, with the exception of the Category B-N-2 and B-N-3 examinations of the reactor pressure vessel interior attachments and core support structure. These inspections for the third interval were extended until RF21 as approved by the Nuclear Regulatory Commission in the Reference. The fourth interval of the WCNOG ISI Program began on September 3, 2015, thus RF21 was the first refueling outage of the first period of the fourth interval.

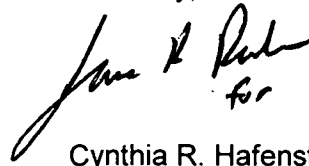
Report WCRE-16, I3-P3-RF21 (Enclosure I) is submitted pursuant to the requirements of paragraph IWA-6240 of Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure (B&PV) Code 1998 Edition through 2000 Addenda and ASME Code Case N-532-4 as documented on Form OAR-1.

Report WCRE-30, I4-P1-RF21 (Enclosure II) is submitted pursuant to the requirements of paragraph IWA-6240 of Section XI of the ASME B&PV Code 2007 Edition through 2008 Addenda and ASME Code Case N-532-5 as documented on Form OAR-1.

A047
NRR

This letter contains no commitments. If you have any questions concerning this matter, please contact me at (620) 364-4204.

Sincerely,

A handwritten signature in black ink, appearing to read "Cynthia R. Hafenstine" with a large flourish at the end. Below the signature, the word "for" is written in a smaller, simpler font.

Cynthia R. Hafenstine

CRH/rit

Enclosures: I – WCNOG ISI Program Third Interval, Third Period, RF21 Owner's Activity Report
II – WCNOG ISI Program Fourth Interval, First Period, RF21 Owner's Activity Report

cc: K. M. Kennedy (NRC), w/e
B. K. Singal (NRC), w/e
N. H. Taylor (NRC), w/e
Senior Resident Inspector (NRC), w/e

ENCLOSURE I

**WCNOC
ISI Program
Third Interval, Third Period, RF-21
Owner's Activity Report
(Form OAR-1, Report Number WCRE-16, I3-P3-RF21)
(4 pages)**

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number WCRE-16, I3-P3-RF21

Plant Wolf Creek Generating Station, 1550 Oxen Lane Northeast, Burlington, Kansas 66839

Unit No. 1 Commercial service date 9-3-1985 Refueling outage no. RF-21
(if applicable)

Current inspection interval
3rd
(1st, 2nd, 3rd, 4th, other)

Current inspection period
3rd
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plans 1998 Edition through 2000 Addenda

Date and revision of inspection plans WCRE-16 Rev. 10, dated 5-7-2015

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

Code Cases used: See Attachment 1
(if applicable)

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 RF-21 conform to the requirements of Section XI.
(refueling outage number)

Signed *Donna E. Touger* ISI Engineer Date 2/7/2017
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 the State or Province of Kansas and employed by The Hartford Steam Boiler Inspection and Insurance Company of Hartford, CT 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 a loss of any kind arising from or connected with this inspection.

Barry S. M... Commissions NO14733 ANI, KS695
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-8-2017

TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED
EVALUATION FOR CONTINUED SERVICE

Examination Category and Item Number	Item Description	Evaluation Description
None		

TABLE 2
 ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed Note 1	Repair/Replacement Plan Number
3	EF076HBC-24 ESW Piping	Install one 6" encapsulation over degraded areas due to ID pitting.	08/06/2015	2015-064
3	EF137HBC-24 ESW Piping	Install one 2" encapsulation over degraded area due to ID pitting.	12/07/2016	2015-065
3	EF137HBC-24 ESW Piping	Install one 2" encapsulation over degraded area due to ID pitting..	12/14/2016	2015-074
3	EF137HBC-24 ESW Piping	Install one 2" encapsulation over degraded area due to ID pitting.	12/14/2016	2015-076

Note 1: The date completed is the date the Form NIS-2A was certified.

ATTACHMENT 1

Code Cases used:

N-460	N-513-2	N-532-4
N-533-1	N-552	N-566-2
N-616	N-623	N-624
N-639	N-652	N-658
N-685	N-686	N-695
N-700	N-706	

ENCLOSURE II

**WCNOC
ISI Program
Fourth Interval, First Period, RF-21
Owner's Activity Report
(Form OAR-1, Report Number WCRE-30, I4-P1-RF21)
(3 pages)**

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number WCRE-30, I4-P1-RF21

Plant Wolf Creek Generating Station, 1550 Oxen Lane Northeast, Burlington, Kansas 66839

Unit No. 1 Commercial service date 9-3-1985 Refueling outage no. RF-21
(if applicable)

Current inspection interval
4th
(1st, 2nd, 3rd, 4th, other)

Current inspection period
1st
(1st, 2nd, 3rd)

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

Date and revision of inspection plans WCRE-30 Rev. 1, dated 9-22-2016

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

Code Cases used: N-532-5, N-706-1
(if applicable)

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 RF-21 conform to the requirements of Section XI.
(refueling outage number)

Signed *James E. Tompkins* ISI Engineer Date 2/7/2017
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 the State or Province of Kansas and employed by The Hartford Steam Boiler Inspection and Insurance Company of Hartford, CT 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 a loss of any kind arising from or connected with this inspection.

Brian Sallie Commissions NB 14733 ANI, KS 695
Inspector's Signature National Board, State, Province, and Endorsements

Date 2-8-2017

TABLE 1
ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED
EVALUATION FOR CONTINUED SERVICE

Examination Category and Item Number	Item Description	Evaluation Description
None		

TABLE 2
 ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed Note 1	Repair/Replacement Plan Number
3	PAL02 Feed Water Pump	Replace existing stuffing box extension due to a pin hole leading to an internal annulus.	02/07/2017	2016-018
1	RBB01 Reactor Vessel	Install canopy seal weld clamp on nozzle assembly at penetration #77 due to seal weld leak. This plan also installed 4 other canopy seal weld clamps as an Engineering proactive recommendation on penetrations 11, 12, 23, and 26.	02/01/2017	2016-068
1	EBB01A Steam Generator	Install mechanical tube plugs in one U Tube due to eddy current results with a flaw over 40% nominal tube wall thickness	12/12/2016	2016-079
1	EBB01B Steam Generator	Install mechanical tube plugs in two U Tubes due to eddy current results with a flaw over 40% nominal tube wall thickness.	12/12/2016	2016-080
1	EBB01D Steam Generator	Install mechanical tube plugs and one stabilizer in two U Tubes due to eddy current results with greater than 40% nominal tube wall thickness and a flaw in the portion of tube inside the tube sheet.	12/12/2016	2016-081
1	EBB01C Steam Generator	Install mechanical tube plug and stabilizer in one U Tubes due to eddy current results with a flaw in the portion of tube inside the tube sheet.	12/12/2016	2016-082

Note 1: The date completed is the date the Form NIS-2A was certified.