



*Energy Harbor Nuclear Corp.
Davis-Besse Nuclear Power Station
5501 N. State Route 2
Oak Harbor, Ohio 43449*

Terry J. Brown
Site Vice President, Davis-Besse Nuclear

419-321-7676

June 10, 2020
L-20-131

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT:
Davis-Besse Nuclear Power Station, Unit No. 1
Docket No. 50-346, License No. NPF-3
Davis-Besse Nuclear Power Station, Unit 1 Cycle 21 and Refueling Outage 21 Inservice
Inspection Summary Report

In accordance with the 2007 Edition through the 2008 Addenda of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Subsubarticle IWA-6240 and ASME Code Case N-532-5, enclosed is the summary report covering inservice inspection (ISI) activities performed during operating cycle 21 and refueling outage 21 for the Davis-Besse Nuclear Power Station, Unit No.1.

In lieu of the traditional summary report, the enclosure contains the form OAR-1, "Owner's Activity Report" for inservice inspections for the Class 1, 2, 3, and metal containment (MC) components. The report is for examinations performed during the cycle that were scheduled in accordance with the Fourth Interval Inspection Plan beginning September 21, 2012.

There are no regulatory commitments contained in this submittal. If there are any questions or if additional information is required, please contact Mr. Thomas A. Lentz, Manager, Nuclear Licensing and Regulatory Affairs, at (440) 280-5567.

Sincerely,

A handwritten signature in blue ink, appearing to read "Terry Brown", written over a horizontal line.

Terry J. Brown

Enclosure:
ISI Owner's Activity Report, Cycle 21 and 21st Refueling Outage

cc: NRC Region III Administrator
NRC Resident Inspector
NRC Project Manager
Utility Radiological Safety Board

Enclosure

L-20-131

ISI Owner's Activity Report
Cycle 21 and 21st Refueling Outage
DB-OAR1-21R

6 Pages

ISI OWNER'S ACTIVITY REPORT

CYCLE 21 & 21st REFUELING OUTAGE

OUTAGE START DATE: February 29th, 2020

OUTAGE COMPLETION DATE: March 27th, 2020

REPORTING DATE: May 18th, 2020

DAVIS-BESSE NUCLEAR POWER STATION, UNIT No. 1

5501 North State Route #2
Oak Harbor, OH 43449

OWNER: ENERGY HARBOR NUCLEAR GENERATION, LLC

168 E. Market Street
Akron, OH 44308

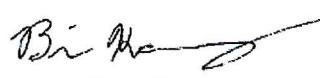
NRC DOCKET NUMBER: 50-346


OPERATION LICENSE: NPF-3

COMMERCIAL OPERATION: July 31, 1978

Prepared By: Alan Scheanwald  May 18 2020 9:04 AM
Signature Date

Reviewed By: Luke Twarek  Twarek, Luke C6475
May 18 2020 3:45 PM
Signature Date

Approved By: Brian Kanney  May 18 2020 3:59 PM
Supervisor – Programs Signature Date

Approved By: Grover Wilson IV  Wilson IV, Grover C6478
May 26 2020 4:05 PM
Manager – Strategic Engineering Signature Date

ABSTRACT

The 21st cycle of operation at the Davis-Besse Nuclear Power Station began on March 27th, 2018 and lasted until March 27th, 2020. Examinations performed during the cycle were scheduled in accordance with the 4th Interval Inspection Plan beginning September 21, 2012.

The following report is a summary of the Class 1, 2, 3 and Metal Containment (MC) inspection results performed during the 21st cycle of operation. This report was prepared in accordance with the requirements of subsubarticle IWA-6240 of Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, 2007 Edition; with 2008 Addenda, as well as Code Case N-532-5.

The application of Code Case-N-532-5, as endorsed in Table 1, "Acceptable Section XI Code Cases" of Regulatory Guide 1.147, Revision 19 permits the issuance of an Owner's Activity Report form (OAR-1) in lieu of a traditional summary report.

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number DB-OAR1-21R

Plant Davis-Besse Nuclear Power Station

Unit No. 1 Commercial Service Date July 31, 1978 Refueling Outage No. 1R21
(if applicable)

Current Inspection Interval 4th Interval beginning 9/21/12
(1st, 2nd, 3rd, 4th, other)

Current Inspection Period 2nd Period beginning 9/21/15 & 3rd Period beginning 9/21/19
(1st, 2nd, 3rd)

Edition and Addenda of Section XI applicable to the inspection plan 2007 Ed. / 2008 Add (4th Int.)

Date and Revision of inspection plans 4th Interval Inspection Plan Rev. 4 (01/31/2020)

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

Code Case Used: N-513-4, N-526, N-532-5, N-586-1, N-639, N-663, N-706-1, N-722-1, N-729-4, N-770-2, N-786-1
(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 completion of 1R21
(refueling outage number)

conform to the requirements of Section XI.

Signed Alan Schenwald ISI Program Owner Date 05/13/2020
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 STEAMBOILER INSPECTION AND INSURANCE CO., HARTFORD, CT have inspected the items described in the 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.

RZH Commission 15727 B1NR 041380
Inspector's Signature (National Board Number and Endorsement)

Date 05-14-2020

TABLE 1

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

Examination Category and Item Number	Item Description, Component ID	Evaluation Description
B-P & B15.10	RC13 Pressure Test Zone (Class 1 Bolted Connections)	<p>The following relevant conditions were noted during examination of Class 1 bolted connections.</p> <ul style="list-style-type: none">• Valve DH11 (Condition Report 2020-01980) – Borated water leak at valve body-to-bonnet bolted connection.• Valve DH21 (Condition Report 2020-01601) – Borated water leak at valve body-to-bonnet bolted connection.• Valve DH23 (Condition Report 2020-01612) – Borated water leak at valve body-to-bonnet bolted connection.• Valve RC262 (Verified bounded by Condition Report 2010-72536) - Borated water leak at valve body-to-bonnet bolted connection.• Pump P36-4 (Condition Report 2020-02110) – Borated water leak at pump casing bolted connection. <p>All relevant conditions were addressed per IWA-5250 as necessary and evaluated per IWA-5251 and the site's boric acid program. In addition, they were cleaned prior to being returned to service.</p>

TABLE 2

ABSTRACT OF REPAIR/REPLACEMENT ACTIVITIES REQUIRED FOR CONTINUED SERVICE

Code Class	Item Description	Description of Work	Date Completed	Repair/Replacement Plan Number
1	OTSG 1B Tubes	Plug tubes following examinations	03/31/2020	200767793
1	OTSG 2A Tubes	Plug tubes following examinations	03/31/2020	200767792
3	CCW Heat Exchanger #3 (E22-3)	Repair heat exchanger with through-wall defect	05/17/2018	200741172
3	Emergency Diesel Generator (K5-2) Intake Silencer	Repair silencer with through-wall defect	11/09/2018	200751858