



December 11, 2018

NG-18-0137  
10 CFR 50.55a

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

Duane Arnold Energy Center  
Docket No. 50-331  
Renewed Op. License No. DPR-49

Inservice Inspection Report

In accordance with the Code of Federal Regulations, Title 10, Part 50.55a, NextEra Energy Duane Arnold, LLC, submits the attached Inservice Inspection (ISI) Summary Report (Owner's Activity Report, Form OAR-1) for the Duane Arnold Energy Center (DAEC).

This report has been prepared in accordance with Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, 2007 Edition through 2008 Addenda, and ASME Code Case N-532-5. This report includes the examinations performed at the DAEC during Cycle 26 operations and Refueling Outage RFO26 of the fifth 10-year ISI interval.

This letter contains no new commitments nor revises any previous commitments.

If you have any questions, please contact J. Michael Davis at (319) 851-7032.

A handwritten signature in black ink, appearing to read "Dean Curtland".

Dean Curtland  
Site Director, Duane Arnold Energy Center  
NextEra Energy Duane Arnold, LLC

Attachment

cc: Administrator, Region III, USNRC  
Project Manager, DAEC, USNRC  
Senior Resident Inspector, DAEC, USNRC

NextEra Energy Duane Arnold, LLC  
Duane Arnold Energy Center

Inservice Inspection  
Summary Report  
For  
RFO 26

Duane Arnold Energy Center  
3277 DAEC Rd  
Palo, IA 52324

Date of Commercial Service  
February 1, 1975

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## Section 1

### Summary

The Duane Arnold Energy Center, Fifth Ten-Year Inservice Inspection (ISI) Plan was developed to comply with 10 CFR 50.55a(g), which implements, by reference, the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, 2007 Edition through the 2008 Addenda.

The following summary report is being submitted pursuant to the reporting requirements of ASME Section XI as amended by ASME Code Case N-532-5, "Repair/Replacement Activity Documentation Requirements and Inservice Summary Report Preparation and Submission Section XI, Division 1."

This summary report contains the Form OAR-1 Owner's Activity Report and Tables 1 and 2 of the ASME Code Case N-532-5 with information for Duane Arnold Energy Center during Cycle 26 and Refueling Outage RFO26. This is the fifth inspection interval, first period, first outage and includes Repair/Replacement Activities from October 31, 2016 to September 21, 2018.

## Section 2

### FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number ISI-PDA-RFO26-2018  
Plant Duane Arnold Energy Center, 3277 DAEC Road, Palo, IA 52324  
Unit No. 1 Commercial Service Date February 1, 1975 Refueling Outage No. RFO26  
Current Inspection Interval ISI - Fifth Interval IWE - Third Interval  
Current Inspection period ISI - First Period IWE - First Period  
Edition and Addenda of Section XI applicable to the inspection plan 2007 Edition through 2008 Addenda  
Date and revision of inspection plan ISI - August 29, 2018 Rev. 2 IWE - September 6, 2018 Rev.0  
Edition and Addenda of Section XI applicable to repairs and replacements, if different than the inspection plan Same  
Code Cases used: N-508-4, N-532-5, N-613-2

#### CERTIFICATE OF CONFORMANCE

I certify that (a) the statements made in this Owner's Activity Report are correct; (b) and the examinations and tests met the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of RFO26 conform to the requirements of Section XI.

Signed R. Foster P. ... Engr. Man  
Owner or Owner's Designee, Title

Date 12/10/18

#### 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 Iowa 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 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/replacements 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.

[Signature]  
Inspector's Signature

Commissions NB 14084 AZ, N, I  
National Board, State, Province and Endorsements

Date 12/10/2018

### Section 3

<b>TABLE 1</b>		
<b>ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE</b>		
<b>Examination Category and Item Number</b>	<b>Item Description</b>	<b>Evaluation Description</b>
N/A	N/A	N/A

## Section 4

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	GBC002, RHRSW, 45 Degree Elbow	Replaced Elbow	3/21/17	40373671-01
3	V13-0057, 3/4" Valve	Replace 3/4" valve & short section of piping	08/17/18	40603942-01
1	CV4415, Inboard MSIV	Remove Unacceptable PT Indications	10/04/18	40598471-10
3	GBC001, RHRSW Piping	Replaced a short section of 16" pipe due to wall thinning	09/09/18	40568577-14
1	DCA014, Rod Hanger	Replaced Hanger Rod	09/25/18	40622076-01