



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION III  
2443 WARRENVILLE RD. SUITE 210  
LISLE, IL 60532-4352

March 1, 2017

Mr. Dean Curtland  
Director of Site Operations  
NextEra Energy Duane Arnold, LLC  
3277 DAEC Road  
Palo, IA 52324-9785

SUBJECT: ANNUAL ASSESSMENT LETTER FOR DUANE ARNOLD ENERGY CENTER  
(REPORT 05000331/2016006)

Dear Mr. Curtland:

The NRC has completed its end-of-cycle performance assessment of Duane Arnold Energy Center, reviewing performance indicators (PIs), inspection results and enforcement actions from January 1, 2016, through December 31, 2016. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Duane Arnold Energy Center during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green) and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

In addition to the baseline inspection, the NRC plans to conduct a Temporary Instruction in accordance with TI 2515/191, "Inspection of the Implementation of Mitigating Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communications/Staffing/Multi-Unit Dose Assessment Plans," and infrequently performed inspections using Inspection Procedure (IP) 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants," and IP 60853, "On-Site Fabrication of Components and Construction of an ISFSI."

D. Curtland

- 2 -

From January 1 to December 31, 2016, the NRC issued three traditional enforcement violations associated with impeding the regulatory process. Duane Arnold Energy Center does not have a history of a high number of traditional enforcement items so the NRC does not plan to conduct IP 92723, "Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12-Month Period." However, the NRC recognizes the importance in noting the trend and of the continued assessment of the effectiveness of licensee actions.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 630-829-9731 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

Karla Stodter, Chief  
Branch 1  
Division of Reactor Projects

Docket No. 50-331  
License No. DPR-49

Enclosure:  
Inspection Plan

cc: Distribution via LISTSERV®

D. Curtland

- 3 -

Letter to Dean Curtland from Karla Stoedter dated March 1, 2017

SUBJECT: ANNUAL ASSESSMENT LETTER FOR DUANE ARNOLD ENERGY CENTER  
(REPORT 05000331/2016006)

DISTRIBUTION:

Jeremy Bowen  
RidsNrrDorLpl3-1 Resource  
RidsNrrPMDuaneArnold Resource  
RidsNrrDirslrib Resource  
Cynthia Pederson  
Darrell Roberts  
Richard Skokowski  
Allan Barker  
Carole Ariano  
Linda Linn  
DRPIII  
DRSIII  
[ROPAssessment.Resource@nrc.gov](mailto:ROPAssessment.Resource@nrc.gov)

ADAMS Accession Number: ML17054D168

OFFICE	RIII						
NAME	KStoedter:bw						
DATE	02/16/2017						

**OFFICIAL RECORD COPY**

**Duane Arnold**  
**Inspection / Activity Plan**  
**03/01/2017 - 12/31/2018**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>4</b>
1	03/06/2017	03/24/2017	IP 71152B	Problem Identification and Resolution	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	04/17/2017	04/21/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>BI ENG - DBA TEAM</b>		<b>6</b>
1	05/01/2017	05/19/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
			<b>OL PREP - INIT EXAM/JUNE 2017</b>		<b>3</b>
1	05/08/2017	05/12/2017	W90355	OL - INITIAL EXAM - 2017 MAT-JUN - DUANE ARNOLD	
			<b>OL EXAM - IIT EXAM/APRIL 2017</b>		<b>3</b>
1	06/05/2017	06/16/2017	W90355	OL - INITIAL EXAM - 2017 MAT-JUN - DUANE ARNOLD	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>2</b>
1	07/10/2017	07/14/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1	07/10/2017	07/14/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			<b>FLEX - FLEX/MITIGATING STRATGIES/SFPI</b>		<b>4</b>
1	09/25/2017	09/29/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			<b>ISFSI - ISFSI PROGRAM REVIEW INSPECTION</b>		<b>1</b>
1	10/01/2017	10/31/2017	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>2</b>
1	11/27/2017	12/01/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	11/27/2017	12/01/2017	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>ISFSI - ISFSI PAD INSPECTION</b>		<b>1</b>
1	01/01/2018	03/31/2018	IP 60856	Review of 10 CFR 72.212(b) Evaluations	
1	05/01/2018	08/01/2018	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
			<b>BI FIRE - FIRE PROTECTION INSPECTION AND BAG TRIP</b>		<b>3</b>
1	01/08/2018	02/09/2018	IP 7111105X	Fire Protection - NFPA 805 (Triennial)	
			<b>HEATSINK - TRIENNIAL HEAT SINK INSPECTION</b>		<b>2</b>
1	03/05/2018	03/09/2018	IP 7111107T	Heat Sink Performance	
			<b>BI ENG - DBA PROGRAMS</b>		<b>4</b>
1	04/23/2018	05/11/2018	IP 7111121N	Component Design Bases Inspection (Programs)	
			<b>EP - EP EXERCISE/PI VERIFICATION</b>		<b>2</b>
1	05/14/2018	05/18/2018	IP 7111401	Exercise Evaluation	
1	05/14/2018	05/18/2018	IP 7111406	Drill Evaluation	
1	05/14/2018	05/18/2018	IP 7111408	Exercise Evaluation – Scenario Review	

This report does not include INPO and OUTAGE activities.  
 This report shows only on-site and announced inspection procedures.

**Duane Arnold**  
**Inspection / Activity Plan**  
**03/01/2017 - 12/31/2018**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>EP - EP EXERCISE/PI VERIFICATION</b>		<b>2</b>
1	05/14/2018	05/18/2018	IP 71151	Performance Indicator Verification	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	04/30/2018	05/04/2018	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>2</b>
1	09/10/2018	09/14/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	09/10/2018	09/14/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1	09/10/2018	09/14/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	09/10/2018	09/14/2018	IP 71124.04	Occupational Dose Assessment	
			<b>ISI - INSERVICE INSPECTION</b>		<b>1</b>
1	09/04/2018	09/27/2018	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	11/26/2018	11/30/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	11/26/2018	11/30/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/26/2018	11/30/2018	IP 71124.04	Occupational Dose Assessment	

This report does not include INPO and OUTAGE activities.  
 This report shows only on-site and announced inspection procedures.