



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 5, 2012

Mr. Peter Wells  
Vice President  
NextEra Energy Duane Arnold, LLC  
3277 DAEC Road  
Palo, IA 52324-9785

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR DUANE ARNOLD ENERGY CENTER,  
UNIT 1 (REPORT 05000331/2011007)**

Dear Mr. Wells:

On February 15, 2012, the NRC staff completed its end-of-cycle performance review of Duane Arnold Energy Center, Unit 1. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2011, through December 31, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined that overall, Duane Arnold, Unit 1, operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Duane Arnold, Unit 1, during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, 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 June 30, 2013. The inspections scheduled include: Inspection Procedure (IP) 71003, "Post-Approval Site Inspection for License Renewal," IP 71111.05T, "Fire Protection (Triennial)," IP 71111.11, "Licensed Operator Requalification Program and Licensed Operator Performance," IP 71114.01, "Exercise Evaluation," IP 71152, "Problem Identification and Resolution," and Temporary Instruction (TI) 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks." Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last 9 months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

P. Wells

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In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be made 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 630-829-9703 with any questions you may have regarding this letter.

Sincerely,

**/RA/**

Mark A. Ring, Branch Chief  
Branch 1  
Division of Reactor Projects

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

Enclosure: Duane Arnold Energy Center Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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Letter to P. Wells from M. Ring dated March 5, 2012

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UNIT 1 (REPORT 05000331/2011007)

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**Duane Arnold**  
**Inspection / Activity Plan**  
**01/01/2012 - 06/30/2013**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI FIRE - FIRE PROTECTION INSPECTION &amp; BAG TRIP</b>		<b>3</b>
01/09/2012	02/10/2012	IP 7111105T	Fire Protection [Triennial]	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>2</b>
01/30/2012	02/03/2012	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
		<b>TI-182 - TI-2515/182 PHASE I - BURIED PIPING</b>		<b>1</b>
03/05/2012	03/07/2012	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>2</b>
04/30/2012	05/04/2012	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
04/30/2012	05/04/2012	IP 71124.07	Radiological Environmental Monitoring Program	
		<b>STRIKE - STRIKE CONTINGENCY - OPS/MAINT/RP ET ALL</b>		<b>2</b>
05/01/2012	05/31/2012	IP 92709	Licensee Strike Contingency Plans	
		<b>BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>4</b>
05/14/2012	05/18/2012	IP 7111401	Exercise Evaluation	
05/14/2012	05/18/2012	IP 71151	Performance Indicator Verification	
		<b>BI HS - TRIENNIAL HEAT SINK INSPECTION</b>		<b>2</b>
06/18/2012	06/22/2012	IP 7111107T	Heat Sink Performance	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
08/06/2012	08/10/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
08/06/2012	08/10/2012	IP 71151-BI01	Reactor Coolant System Activity	
08/06/2012	08/10/2012	IP 71151-OR01	Occupational Exposure Control Effectiveness	
08/06/2012	08/10/2012	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION</b>		<b>2</b>
08/20/2012	08/24/2012	IP 7111111B	Licensed Operator Requalification Program	
		<b>BI ISI - INSERVICE INSPECTION</b>		<b>1</b>
10/08/2012	10/19/2012	IP 7111108G	Inservice Inspection Activities - BWR	
		<b>RENEWAL - LICENSE RENEWAL INSPECT 71003 - PHASE 1</b>		<b>2</b>
10/08/2012	11/02/2012	IP 71003	Post-Approval Site Inspection for License Renewal	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>2</b>
10/15/2012	10/19/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
10/15/2012	10/19/2012	IP 71124.02	Occupational ALARA Planning and Controls	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
01/14/2013	01/18/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
01/14/2013	01/18/2013	IP 71124.04	Occupational Dose Assessment	

**Duane Arnold**  
**Inspection / Activity Plan**  
**01/01/2012 - 06/30/2013**

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>
02/25/2013	03/15/2013	IP 71152B	Problem Identification and Resolution	
		<b>OL PREP - DUANE ARNOLD INIT PREP 03/2013</b>		<b>3</b>
03/18/2013	03/22/2013	W90286	OL - INITIAL EXAM - 2013 MAR-APR - DUANE ARNOLD	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
03/25/2013	03/29/2013	IP 71124.05	Radiation Monitoring Instrumentation	
		<b>OL EXAM - DUANE ARNOLD INIT EXAM 04/2013</b>		<b>3</b>
04/08/2013	04/12/2013	W90286	OL - INITIAL EXAM - 2013 MAR-APR - DUANE ARNOLD	
		<b>BI EPR - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>2</b>
06/24/2013	06/28/2013	IP 7111402	Alert and Notification System Testing	
06/24/2013	06/28/2013	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
06/24/2013	06/28/2013	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
06/24/2013	06/28/2013	IP 71151	Performance Indicator Verification	