



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

September 1, 2009

Mr. Christopher R. Costanzo  
Vice-President  
Duane Arnold Energy Center  
3277 DAEC Road  
Palo, IA 52324-9785

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -  
DUANE ARNOLD ENERGY CENTER**

Dear Mr. Costanzo:

On August 20, 2009, the NRC staff completed its performance review of the Duane Arnold Energy Center for the period from July 1, 2008, through June 30, 2009. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous 12 months. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only-Security Information" will include the security cornerstone review and resultant inspection plan.

By letter dated June 9, 2009, you were notified that plant performance was within the Regulatory Response column of the NRC action matrix. This was due to a White finding involving the failure to promptly identify and correct a condition adverse to quality which resulted in the 'B' emergency diesel generator output breaker tripping under full load conditions while conducting a monthly surveillance test. Plant performance for the recent quarter at Duane Arnold Energy Center remained within the Regulatory Response column of the NRC's Action Matrix.

The enclosed inspection plan details the inspections, including baseline and other infrequently conducted inspections, less those related to security, scheduled through December 31, 2010. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last 9 months of the inspection plan are tentative and may be revised at the End-of-Cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure 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), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact Kenneth RiemerT at (630) 829-9628 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

K. Steven West, Director  
Division of Reactor Projects

Docket Nos. 50-331  
License Nos. DPR-49

Enclosure: Duane Arnold Energy Center Inspection/Activity Plan

DISTRIBUTION:  
See next page

Letter to C. Costanzo from K. Steven West dated September 1, 2009

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -  
DUANE ARNOLD ENERGY CENTER

cc w/encl: M. Nazar, Senior Vice President and Chief Nuclear Officer  
M. Ross, Vice President and Associate General Counsel  
A. Khanpour, Vice President, Engineering Support  
D. Curtland, Plant General Manager  
S. Catron, Manager, Licensing  
M. Mashhadi, Senior Attorney  
Chairman, Linn County, Board of Supervisors  
M. Rasmusson, State Liaison Officer  
R. Anderson, Vice President, Nuclear Plant Support  
R. Kundalkar, Vice President, Fleet Organizational Support  
M. Cornell, Director, Licensing & Performance Improvement  
The Honorable Robert Hogg  
Chairman, Benton County Supervisors  
Benton County Sheriff  
Coordinator, Benton County Emergency Services  
Mayor of Atkins  
Mayor of Shellsburg  
Mayor of Urbana  
Linn County Sheriff  
Director, Linn County Emergency  
Management Agency  
Mayor of Robins  
Mayor of Alburnett  
Mayor of Cedar Rapids  
Mayor of Hiawatha  
Mayor of Marion  
City Manager of Marion  
Mayor of Center Point  
Mayor of Palo  
G. Mortensen, INPO

Letter to C. Costanzo from K. Steven West dated September 1, 2009

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -  
DUANE ARNOLD ENERGY CENTER

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Sincerely,

**/RA/**

K. Steven West, Director  
Division of Reactor Projects

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**Duane Arnold**  
**Inspection / Activity Plan**  
**09/01/2009 - 12/31/2010**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI ENG - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>3</b>
08/31/2009	09/18/2009	IP 7111105T	Fire Protection [Triennial]	
		<b>OL EXAM - DUANE ARNOLD INIT EXAM 09/09</b>		<b>3</b>
09/14/2009	09/25/2009	W90207	OL - INITIAL EXAM - SEPT. 2009 - DUAN	
		<b>RENEWAL - LICENSE RENEWAL 71002</b>		<b>3</b>
11/02/2009	11/20/2009	IP 71002	License Renewal Inspection	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
11/16/2009	11/20/2009	IP 7112101	Access Control to Radiologically Significant Areas	
11/16/2009	11/20/2009	IP 7112102	ALARA Planning and Controls	
		<b>BI ENG - HEAD DROP ANALYSIS</b>		<b>1</b>
01/18/2010	02/05/2010	IP 7111120	Refueling and Other Outage Activities	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
01/25/2010	01/29/2010	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems	
		<b>BI ENG - BIENNIAL HEAT SINK INSPECTION</b>		<b>1</b>
03/15/2010	03/19/2010	IP 7111107T	Heat Sink Performance	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
05/17/2010	05/21/2010	IP 7112101	Access Control to Radiologically Significant Areas	
05/17/2010	05/21/2010	IP 7112102	ALARA Planning and Controls	
		<b>BI EP - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>3</b>
05/17/2010	05/21/2010	IP 7111401	Exercise Evaluation	
05/17/2010	05/21/2010	IP 71151-EP01	Drill/Exercise Performance	
05/17/2010	05/21/2010	IP 71151-EP02	ERO Drill Participation	
05/17/2010	05/21/2010	IP 71151-EP03	Alert & Notification System	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
06/21/2010	06/25/2010	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
06/21/2010	06/25/2010	IP 71151-BI01	Reactor Coolant System Activity	
06/21/2010	06/25/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
06/21/2010	06/25/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>BI ENG - ENGINEERING MODIFICATIONS / 50.59</b>		<b>3</b>
09/13/2010	10/01/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
		<b>ISFSI - ISFSI INSPECTION</b>		<b>1</b>
10/01/2010	11/30/2010	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		<b>BI OL - LIC. OPERATOR REQUAL PROGRAM EVALUATION</b>		<b>2</b>
09/13/2010	09/17/2010	IP 7111111B	Licensed Operator Requalification Program	

**Duane Arnold**  
**Inspection / Activity Plan**  
**09/01/2009 - 12/31/2010**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
11/01/2010	11/05/2010	IP 7112101	Access Control to Radiologically Significant Areas	
11/01/2010	11/05/2010	IP 7112102	ALARA Planning and Controls	
		<b>BI ENG - ENGINEERING INSERVICE INSPECTION</b>		<b>1</b>
11/01/2010	11/19/2010	IP 7111108G	Inservice Inspection Activities - BWR	