

August 31, 2007

Mr. Gary Van Middlesworth  
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. Van Middlesworth:

On August 14, 2007, the NRC staff completed its performance review of the Duane Arnold Energy Center for the first half of the calendar year 2007 assessment cycle. 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.

Plant performance for the most recent quarter was within the Regulatory Response column of the NRC's Action Matrix based on one White finding in the Emergency Preparedness cornerstone. The details regarding this finding were documented in NRC Inspection Report 05000331/2006009(DRS).

The enclosed inspection plan details the inspections, less those related to security, scheduled through December 31, 2008. The inspection plan includes a component design bases inspection in February 2008, and 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 nine 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), is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

The NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact Kenneth Riemer at (630) 829-9628 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA by A. H. Hsia for/**

Cynthia D. Pederson, Director  
Division of Reactor Projects

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

Enclosure: Duane Arnold Energy Center Inspection/Activity Plan

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Letter to G. Van Middlesworth from C. Pederson dated August 31, 2007

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DUANE ARNOLD ENERGY CENTER

cc w/encl: J. Stall, Senior Vice President, Nuclear and Chief  
Nuclear Officer  
R. Helfrich, Senior Attorney  
M. Ross, Managing Attorney  
W. Webster, Vice President, Nuclear Operations  
M. Warner, Vice President, Nuclear Operations Support  
R. Kundalkar, Vice President, Nuclear Engineering  
J. Bjorseth, Site Director  
D. Curtland, Plant Manager  
S. Catron, Manager, Regulatory Affairs  
Chief Radiological Emergency Preparedness Section,  
Dept. Of Homeland Security  
D. McGhee, State Liaison Officer  
Chairman, Linn County Board of Supervisors  
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  
INPO

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DUANE ARNOLD ENERGY CENTER

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**Duane Arnold**  
**Inspection / Activity Plan**  
**09/01/2007 - 12/31/2008**

Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
			Start	End	
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		09/10/2007	09/14/2007	Baseline Inspections
IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		09/10/2007	09/14/2007	Baseline Inspections
<b>BI ENG</b>	<b>- BIENNIAL MAINTENANCE EFFCTIVENESS INSP.</b>	<b>1</b>			
IP 7111112B	Maintenance Effectiveness		09/10/2007	09/14/2007	Baseline Inspections
<b>BI ENG</b>	<b>- ENGINEERING MODIFICATIONS / 50.59 INSP.</b>	<b>2</b>			
IP 7111102	Evaluation of Changes, Tests, or Experiments		09/24/2007	10/19/2007	Baseline Inspections
IP 711117B	Permanent Plant Modifications		09/24/2007	10/19/2007	Baseline Inspections
<b>ISFSI</b>	<b>- ISFSI INSPECTION</b>	<b>1</b>			
IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		10/01/2007	11/01/2007	Other Routine
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112101	Access Control to Radiologically Significant Areas		10/29/2007	11/02/2007	Baseline Inspections
IP 7112102	ALARA Planning and Controls		10/29/2007	11/02/2007	Baseline Inspections
IP 71151-OR01	Occupational Exposure Control Effectiveness		10/29/2007	11/02/2007	Baseline Inspections
IP 71151-PR01	RETS/ODCM Radiological Effluent		10/29/2007	11/02/2007	Baseline Inspections
<b>OL EXAM</b>	<b>- DUANE ARNOLD INIT PREP 11/2007</b>	<b>3</b>			
W90144	OL - INITIAL EXAM - DUANE ARNOLD - NOV/DEC 2007		11/26/2007	11/30/2007	Not Applicable
<b>OL EXAM</b>	<b>- DUANE ARNOLD INIT EXAM 12/2007</b>	<b>3</b>			
W90144	OL - INITIAL EXAM - DUANE ARNOLD - NOV/DEC 2007		12/10/2007	12/14/2007	Not Applicable
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112101	Access Control to Radiologically Significant Areas		02/04/2008	02/08/2008	Baseline Inspections
<b>BI ENG</b>	<b>- COMPONENT DESIGN BASES INSPECTION</b>	<b>5</b>			
IP 7111121	Component Design Bases Inspection		02/11/2008	03/14/2008	Baseline Inspections
<b>RPV HEAD</b>	<b>- RPV HEAD DROP ANALYSIS INSPECTION</b>	<b>1</b>			
IP 7111120	Refueling and Other Outage Activities		03/17/2008	04/18/2008	Baseline Inspections
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		03/31/2008	04/04/2008	Baseline Inspections
IP 71151-PR01	RETS/ODCM Radiological Effluent		03/31/2008	04/04/2008	Baseline Inspections
<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>			
IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		08/04/2008	08/08/2008	Baseline Inspections
IP 71151-BI01	Reactor Coolant System Activity		08/04/2008	08/08/2008	Baseline Inspections
IP 71151-OR01	Occupational Exposure Control Effectiveness		08/04/2008	08/08/2008	Baseline Inspections
<b>BI OL</b>	<b>- BIENNIAL REQUAL. PROGRAM INSPECTION</b>	<b>2</b>			
IP 7111111B	Licensed Operator Requalification Program		09/15/2008	09/19/2008	Baseline Inspections

**Duane Arnold**  
**Inspection / Activity Plan**  
**09/01/2007 - 12/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
<b>BI EP - EP EXERCISE INSPECTION / PI VERIFICATION</b>			<b>3</b>			
1	IP 7111401	Exercise Evaluation		10/20/2008	10/24/2008	Baseline Inspections
1	IP 71151-EP01	Drill/Exercise Performance		10/20/2008	10/24/2008	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		10/20/2008	10/24/2008	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		10/20/2008	10/24/2008	Baseline Inspections
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>			<b>1</b>			
1	IP 7112102	ALARA Planning and Controls		10/27/2008	10/31/2008	Baseline Inspections