Mr. Gary Van Middlesworth Vice-President Duane Arnold Energy Center 3277 DAEC Road Palo, IA 52324-9785

SUBJECT: ANNUAL ASSESSMENT LETTER - DUANE ARNOLD ENERGY CENTER

(REPORT 05000331/2006001)

Dear Mr. Van Middlesworth:

On February 9, 2006, the NRC staff completed its performance review of the Duane Arnold Energy Center. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2005. 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 physical protection information. A separate letter designated and marked as "Exempt from Public Disclosure in accordance with 10 CFR 2.390" will include the physical protection review and resultant inspection plan.

Overall, the Duane Arnold Energy Center operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, was within the Licensee Response Column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct only reactor oversight process baseline inspections at your facility.

In our mid-cycle assessment letter dated August 30, 2005, (ML052420426), we advised you of a substantive cross-cutting issue in the area of human performance, involving inadequate procedure use and adherence. Our inspection staff identified four Green findings where human performance was not adequate during the 2005 assessment period. Two of these were previously evaluated as part of the findings considered during the mid-cycle assessment, while two are new. In response to the identification of human performance deficiencies, you have developed a Corrective Action Plan for Human Performance and have begun execution of that plan.

During the last half of the assessment period, we conducted an inspection sample utilizing Inspection Procedure (IP) 71152, Problem Identification and Resolution Inspection, to assess your progress in addressing human performance deficiencies. This inspection found that each of the individual performance errors was entered into your corrective action program and you have completed root cause analyses on a department by department basis for certain human performance issues. However, additional corrective actions were scheduled for implementation, including an effectiveness review to assess the adequacy of your corrective actions to address numerous human performance issues.

After the completion of your effectiveness review, we will perform an inspection using IP 71152 to assess the progress you have made in the area of human performance. If sufficient progress has been made, the results of this inspection will be evaluated at the next assessment cycle to determine if the substantive human performance cross-cutting issue can be closed.

Because of the status of your corrective actions, the NRC remains concerned with human performance at the Duane Arnold Energy Center. To address our concerns, we request that you discuss this substantive cross-cutting issue during the end-of-cycle meeting and that you provide a written response to the NRC within 30 days of the date of this letter. In your response, please detail the corrective actions taken, the effectiveness of implemented corrective actions, and any additional corrective actions needed to address issues having human performance as a significant causal factor or contributing cause.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through September 30, 2007. Significant inspections planned for this year include a Component Design Bases Inspection in March 2006, and a Triennial Fire Protection Inspection in September 2006. 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 mid-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 me at (630) 829-9629 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Bruce Burgess, Chief Reactor Projects Branch 2 Division of Reactor Projects

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

Enclosure: Duane Arnold Energy Center Inspection/Activity Plan

DISTRIBUTION: See next page

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 me at (630) 829-9629 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Bruce Burgess, Chief Reactor Projects Branch 2 Division of Reactor Projects

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

Enclosure: Duane Arnold Energy Center Inspection/Activity Plan

DISTRIBUTION: See next page

DOCUME	:NT NAME:G:\Branch	TSS\ALL EOC	\EOC CY2005\E	OC Letters For C\	2005\Duane Arnold.wpd
□ Publicly	/ Available	□ Non-Publicly	/ Available	□ Sensitive	□ Non-Sensitive

To receive a copy of this document, indicate in the concurrence box "C" = Copy without attach/encl "E" = Copy with attach/encl "N" = No copy

OFFICE	RIII		RIII		RIII	RIII	
NAME	BBurgess for SSheldon:sls		BBurgess				
DATE	02/24/2006		02/24/2006				

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

Chairman, Linn County Board of Supervisors

D. McGhee, Iowa Department of Public Health

The Honorable Charles W. Larson, Jr. Chairman, Benton County Supervisors

Benton County Sheriff

Coordinator, Benton County Emergency Services

Mayor of Atkins Mayor of Shellsburg Mayor of Urbana

Linn County Supervisors

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

ADAMS Distribution:

DWW

DWS

RidsNrrDirslpab

JLC1

GEG

KGO

RML2

SRI Duane Arnold

DRPIII

DRSIII

PLB1

JRK1

ROPreports@nrc.gov (inspection reports, final SDP letters, any letter with an IR number)

Page 1 of 1

03/01/2006 16:04:16

Duane Arnold Inspection / Activity Plan 03/01/2006 - 09/30/2007

Report 22

Unit			No. of Staff	Planned Dates		Inspection	
Number	Inspection A	ctivity	Title	on Site	Start	End	Туре
	CDBI	- COMP	ONENT DESIGN BASES INSPECTION	6			
1	IP 7111121		Component Design Bases Inspection		03/20/2006	04/21/2006	Baseline Inspections
	BI	- RAD II	NSTRUMENTATION	1			
1	IP 7112103		Radiation Monitoring Instrumentation and Protective Equipment		08/21/2006	08/25/2006	Baseline Inspections
	71111.11	- LIC OF	PERATOR REQUAL PROGRAM EVALUATION	2			
1	IP 7111111B		Licensed Operator Requalification Program		09/11/2006	09/15/2006	Baseline Inspections
	FPI	- TRIEN	NIAL FIRE PROTECTION INSPECTION	3			
1	IP 7111105T		Fire Protection [Triennial]		09/11/2006	09/29/2006	Baseline Inspections
	71114	- BIENN	IIAL EP EXERCISE	1			
1	IP 7111401		Exercise Evaluation		10/16/2006	10/20/2006	Baseline Inspections
1	IP 71151		Performance Indicator Verification		10/16/2006	10/20/2006	Baseline Inspections
	ВІ	- ACCE	SS CONTROL AND PI VERIF	1			
1	IP 7112101		Access Control to Radiologically Significant Areas		11/06/2006	11/17/2006	Baseline Inspections
1	IP 7112102		ALARA Planning and Controls		11/06/2006	11/17/2006	Baseline Inspections
1	IP 71151		Performance Indicator Verification		11/06/2006	11/17/2006	Baseline Inspections
	7112102	- ACCE	SS CONTROL & ALARA (OUTAGE)	1			
1	IP 7112101		Access Control to Radiologically Significant Areas		02/05/2007	02/16/2007	Baseline Inspections
1	IP 7112102		ALARA Planning and Controls		02/05/2007	02/16/2007	Baseline Inspections
	PI&R	- PI&R E	BIENNIAL	3			
1	IP 71152B		Identification and Resolution of Problems		04/02/2007	04/20/2007	Baseline Inspections
	HEATSINK	- HEAT	SINK INSPECTION	1			
1	IP 7111107B		Heat Sink Performance		04/23/2007	04/27/2007	Baseline Inspections
	7112202	- RADW	ASTE & TRANSPORTATION	1			
1	IP 7112202		Radioactive Material Processing and Transportation		04/30/2007	05/04/2007	Baseline Inspections
	7112203	- REMP		3			
1	IP 7112203		Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		07/23/2007	07/27/2007	Baseline Inspections
	MAINRULE	- MAINT	TENANCE RULE INSPECTION	1			
1	IP 7111112B		Maintenance Effectiveness		08/06/2007	08/10/2007	Baseline Inspections
	MOD5059	- MODIF	FICATIONS/50.59 INSPECTION	2			
1	IP 7111102		Evaluation of Changes, Tests, or Experiments		09/10/2007	09/28/2007	Baseline Inspections
1	IP 7111117B		Permanent Plant Modifications		09/10/2007	09/28/2007	Baseline Inspections