

November 29, 2000

Mr. Gary Van Middlesworth  
Site General Manager  
Duane Arnold Energy Center  
Nuclear Management Company, LLC  
3277 DAEC Road  
Palo, IA 52324

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

Dear Mr. Middlesworth:

On November 7, 2000, the NRC staff completed its Mid-Cycle plant performance assessment of the Duane Arnold Energy Center. The Mid-Cycle Review for the Duane Arnold Energy Center involved the participation of all technical divisions in evaluating performance indicators (PIs) and inspection results for the period of April 2, 2000 through September 30, 2000. 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 so that you will have an opportunity to prepare for these inspections and to inform us of any planned inspections which may conflict with your plant activities.

Plant performance for the most recent quarter 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 baseline inspections at your facility through September 30, 2001.

Enclosure 1 details the scheduled inspections that will occur through September 30, 2001. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The last 6 months of the inspection plans are tentative and may be revised at the end-of-cycle review meeting.

In accordance with 10 CFR 2.790 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). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/NRC/ADAMS/index.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

cc w/encl: E. Protsch, Executive Vice President -  
Energy Delivery, Alliant;  
President, IES Utilities, Inc.  
Robert G. Anderson, Plant Manager  
K. Peveler, Manager, Regulatory Performance  
State Liaison Officer  
Chairperson, Iowa Utilities Board  
The Honorable Charles W. Larson, Jr.  
Iowa State Representative

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| OFFICE | RIII        |  | RIII  |  |  |  |  |
| NAME   | Burgess/trn |  | Grobe |  |  |  |  |

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| DATE | 11/24/00 | 11/24/00 |  |  |
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**Duane Arnold**  
**Inspection / Activity Plan**  
**12/01/2000 - 09/30/2001**

| Unit<br>Number | Inspection Activity  | Title  | No. of Staff<br>on Site | Planned Dates |            | Inspection<br>Type   |
|----------------|--|--|-------------------------|---------------|------------|----------------------|
|                |  |  |                         | Start         | End        |                      |
|                | <b>BASELINE - RESIDENT INSPECTION 11-13-00 TO 12-24-00</b> |  | <b>2</b>                |               |            |                      |
| 1              | IP 7111104   | Equipment Alignment (Quarterly)  |                         | 11/13/2000    | 12/25/2000 | Baseline Inspections |
|                | <b>71111.11 - LIC OPERATOR REQUAL PROGRAM EVALUATION</b>   |  | <b>2</b>                |               |            |                      |
| 1              | IP 7111111B  | Licensed Operator Requalification  |                         | 11/27/2000    | 12/01/2000 | Baseline Inspections |
|                | <b>IP 71121 - INSTRUMENTATION</b>                          |  | <b>1</b>                |               |            |                      |
| 1              | IP 7112103   | Radiation Monitoring Instrumentation                                     |                         | 12/11/2000    | 12/15/2000 | Baseline Inspections |
| 1              | IP 71151   | Performance Indicator Verification                                       |                         | 12/11/2000    | 12/15/2000 | Baseline Inspections |
|                | <b>71111.17 - PLANT MODIFICATIONS</b>                      |  | <b>2</b>                |               |            |                      |
| 1              | IP 7111117A  | Permanent Plant Modifications  |                         | 12/25/2000    | 02/05/2001 | Baseline Inspections |
|                | <b>BASELINE - RESIDENT INSPECTION 12-26-00 TO 2-4-01</b>   |  | <b>2</b>                |               |            |                      |
| 1              | IP 7111104   | Equipment Alignment (Quarterly)  |                         | 12/26/2000    | 02/06/2001 | Baseline Inspections |
|                | <b>BASELINE - RESIDENT INSPECTION 2-7-01 TO 3-31-01</b>    |  | <b>2</b>                |               |            |                      |
| 1              | IP 7111104   | Equipment Alignment (Quarterly)  |                         | 02/07/2001    | 03/31/2001 | Baseline Inspections |
|                | <b>71152 - PROBLEM IDENTIFICATION AND RESOLUTION</b>       |  | <b>3</b>                |               |            |                      |
| 1              | IP 71152   | Identification and Resolution of Problems                                |                         | 02/19/2001    | 03/02/2001 | Baseline Inspections |
|                | <b>FY 2001 - DUANE ARNOLD INIT PREP 03/2001</b>            |  | <b>4</b>                |               |            |                      |
| 1              | W90029   | OL - INITIAL EXAM - DUANE ARNOLD   |                         | 03/19/2001    | 03/23/2001 | Not Applicable       |
|                | <b>50.59 - ANNUAL 50.59 INSPECTION</b>                     |  | <b>1</b>                |               |            |                      |
| 1              | IP 7111102   | Evaluation of Changes, Tests, or Experiments                             |                         | 03/26/2001    | 03/30/2001 | Baseline Inspections |
|                | <b>IP 71122 - LIQ/GAS EFFL INSP</b>                        |  | <b>1</b>                |               |            |                      |
| 1              | IP 7112201   | Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems |                         | 03/26/2001    | 03/30/2001 | Baseline Inspections |
|                | <b>FY 2001 - DUANE ARNOLD INITIAL EXAM 04/2001</b>         |  | <b>4</b>                |               |            |                      |
| 1              | W90029   | OL - INITIAL EXAM - DUANE ARNOLD   |                         | 04/09/2001    | 04/13/2001 | Not Applicable       |
|                | <b>71111.06 - FLOOD PROTECTION</b>                         |  | <b>1</b>                |               |            |                      |
| 1              | IP 7111106   | Flood Protection Measures  |                         | 04/16/2001    | 04/20/2001 | Baseline Inspections |
|                | <b>71111.20 - REFUELING OUTAGE</b>                         |  | <b>1</b>                |               |            |                      |
| 1              | IP 7111120   | Refueling and Outage Activities  |                         | 04/21/2001    | 05/21/2001 | Baseline Inspections |
|                | <b>ISI - INSERVICE INSPECTION</b>                          |  | <b>1</b>                |               |            |                      |
| 1              | IP 7111108   | Inservice Inspection Activities  |                         | 04/30/2001    | 05/04/2001 | Baseline Inspections |
|                | <b>IP 71121 - OUTAGE RP ALARA INSP</b>                     |  | <b>2</b>                |               |            |                      |
| 1              | IP 7112101   | Access Control to Radiologically Significant Areas                       |                         | 05/07/2001    | 05/11/2001 | Baseline Inspections |
| 1              | IP 7112102   | ALARA Planning and Controls  |                         | 05/07/2001    | 05/11/2001 | Baseline Inspections |
|                | <b>71111.01 - ADVERSE WEATHER (HOT)</b>                    |  | <b>1</b>                |               |            |                      |
| 1              | IP 7111101   | Adverse Weather Protection   |                         | 05/15/2001    | 06/26/2001 | Baseline Inspections |
|                | <b>IP 71122 - REMP &amp; UNCONDITIONAL RELEASE INSP</b>    |  | <b>1</b>                |               |            |                      |
| 1              | IP 7112101   | Access Control to Radiologically Significant Areas                       |                         | 07/16/2001    | 07/20/2001 | Baseline Inspections |

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

**Duane Arnold**  
**Inspection / Activity Plan**  
**12/01/2000 - 09/30/2001**

| Unit<br>Number | Inspection Activity | Title  | No. of Staff<br>on Site | Planned Dates |            | Inspection<br>Type   |
|----------------|---------------------|--|-------------------------|---------------|------------|----------------------|
|                |                     |  |                         | Start         | End        |                      |
|                | <b>IP 71122</b>     | <b>- REMP &amp; UNCONDITIONAL RELEASE INSP</b>   | <b>1</b>                |               |            |                      |
| 1              | IP 7112203          | Radiological Environmental Monitoring Program  |                         | 07/16/2001    | 07/20/2001 | Baseline Inspections |
| 1              | IP 71151            | Performance Indicator Verification   |                         | 07/16/2001    | 07/20/2001 | Baseline Inspections |
|                | <b>71130</b>        | <b>- SAFEGUARDS INSPECTION-AA/AC/PI/SP</b>   | <b>1</b>                |               |            |                      |
| 1              | IP 7113001          | Access Authorization Program (Behavior Observation Only)                                     |                         | 08/13/2001    | 08/17/2001 | Baseline Inspections |
| 1              | IP 7113002          | Access Control (Search of Personnel, Packages, and Vehicles: Identification and Authorizatio |                         | 08/13/2001    | 08/17/2001 | Baseline Inspections |
| 1              | IP 7113004          | Security Plan Changes  |                         | 08/13/2001    | 08/17/2001 | Baseline Inspections |
| 1              | IP 71151            | Performance Indicator Verification   |                         | 08/13/2001    | 08/17/2001 | Baseline Inspections |
|                | <b>MR</b>           | <b>- MAINTENANCE RULE BIENNIAL</b>   | <b>1</b>                |               |            |                      |
| 1              | IP 7111112B         | Maintenance Rule Implementation  |                         | 08/13/2001    | 08/17/2001 | Baseline Inspections |
|                | <b>71114.01</b>     | <b>- RESIDENT PORTION - EP EXERCISE</b>  | <b>1</b>                |               |            |                      |
| 1              | IP 7111401          | Exercise Evaluation  |                         | 09/17/2001    | 09/21/2001 | Baseline Inspections |
|                | <b>IP 71121</b>     | <b>- RP INSTRUMENTATION INSP</b>   | <b>1</b>                |               |            |                      |
| 1              | IP 7112103          | Radiation Monitoring Instrumentation   |                         | 09/24/2001    | 09/28/2001 | Baseline Inspections |
| 1              | IP 71151            | Performance Indicator Verification   |                         | 09/24/2001    | 09/28/2001 | Baseline Inspections |