

December 10, 1999

Mr. Dave Wilson
Vice President, Nuclear
Alliant Tower
200 First Street SE
P. O. Box 351
Cedar Rapids, IA 52406-0351

SUBJECT: NRC RADIATION PROTECTION INSPECTION REPORT 50-331/99013(DRS)

Dear Mr. Wilson:

On November 17, 1999, the NRC completed a routine inspection at the Duane Arnold Energy Center (DAEC) facility. The enclosed report summarizes the results of that inspection. No violations of NRC requirements were identified.

The inspection was an examination of activities conducted under your license as they relate to radiation safety and to compliance with the Commission's rules and regulations and with the conditions of your license. Specifically, the inspection focused on the implementation of the radiation protection program during refueling outage 16 and included a review of outage radiological planning and dose management, implementation of the as-low-as-is-reasonably-achievable (ALARA) program, the control and oversight of radiological work, radiation worker performance, and source term reduction initiatives. Within these areas, the inspection consisted of selective examinations of procedures and representative records, observations, and interviews with station personnel.

Overall, the radiation protection program was effectively implemented during the refueling outage. Outage dose was well managed and maintained. Even though the scope of the outage was expanded to include the recirculation nozzle weld overlay project, the total dose for the outage was close to that projected. Personnel contamination events and problems associated with radiation worker and radiation protection staff performance were kept to a minimum. Two areas of concern, however, were identified. The pre-job briefings provided to quality control inspectors prior to inspections of the N2B recirculation nozzle were not adequate and resulted in 600 millirem of unplanned dose. In addition, a potential generic issue involving the mishandling of contaminated trash was not adequately addressed in the corrective action program.

In accordance with 10 CFR 2.790 of the Commission's regulations, a copy of this letter and its enclosure will be placed in the NRC Public document Room.

PDR A DOCK 05000331

IE06

D. Wilson

-2-

We will gladly discuss any questions you have concerning this inspection.

Sincerely,

Original Signed by Wayne J. Slawinski (for)

Steven K. Orth, Acting Chief
Plant Support Branch

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

Enclosure: Inspection Report 50-331/99013(DRS)

cc w/encl: E. Protsch, Executive Vice President -
Energy Delivery, Alliant;
President, IES Utilities, Inc.
Richard L. Anderson, Plant Manager
K. Peveler, Manager, Regulatory Performance
State Liaison Officer
Chairperson, Iowa Utilities Board

Distribution:
RPC (E-Mail)
BLM (Project Mgr.) (E-Mail)
J. Caldwell, RIII w/encl
B. Clayton, RIII w/encl
SRI Duane Arnold w/encl
DRP w/encl
DRS w/encl
RIII PRR w/encl
PUBLIC IE-01 w/encl
Docket File w/encl
GREENS
IEO (E-Mail)
DOCDESK (E-Mail)

DOCUMENT NAME: G:\DRS\DUA99013.WPD

To receive a copy of this document, indicate in the box: "C" = Copy without attachment/enclosure "E" = Copy with attachment/enclosure "N" = No copy

| | | | | | | | |
|--------|----------------------------|---|-------------------|---|------------------------|---|--|
| OFFICE | RIII | E | RIII | E | RIII | N | |
| NAME | DNelson:uf/jp <i>uf/jp</i> | | MLeach <i>for</i> | | SOrth <i>uf/jp for</i> | | |
| DATE | 12/10/99 | | 12/10/99 | | 12/10/99 | | |

OFFICIAL RECORD COPY