

February 15, 2001  
NG-01-0206

REIRS Project Manager  
Office of Nuclear Regulatory Research, USNRC  
ATTN: Document Control Desk  
Washington, DC 20555

SUBJECT: Duane Arnold Energy Center  
Docket No: 50-331  
Op. License No: DPR-49  
2000 Annual Exposure Report

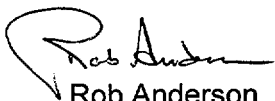
FILE: A-108, NRC-7a

Dear Sir:

Please find enclosed one (1) copy of the 2000 Exposure Report for the Duane Arnold Energy Center (DAEC). This report is based on estimates of TLD-corrected exposure recorded by Electronic Dosimeters (EDs). This report satisfies the requirements of Technical Specification 5.6.1.

If there are any questions or concerns, please contact David Miller at (319) 851-7529.

Sincerely,



Rob Anderson  
Plant Manager - Nuclear

RA/DM/hc

Attachment: 2000 Annual Exposure Report (In Reg Guide 1.16 Format)

cc: D. Miller  
B. Mozafari (NRR-NRC)  
K. Peveler  
James E. Dyer, Region III Administrator

G. VanMiddlesworth  
NRC Resident Office  
Licensing CTS Project  
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**USNRC ANNUAL REG GUIDE 1.16 REPORT for 2000**  
**ALLIANT - IES UTILITIES INC. - NRC LICENSE DPR-49**

**P.O. BOX 351**  
**CEDAR RAPIDS, IA 52406**

| Reporting Year: 2000<br>WORK & JOB FUNCTION    | NUMBER OF PERSONNEL (>100.0 mrem) |                      |                              | TOTAL PERSON-REM     |                      |                              |
|--|-----------------------------------|----------------------|------------------------------|----------------------|----------------------|------------------------------|
|  | Station<br>Employees              | Utility<br>Employees | Contract Workers<br>& Others | Station<br>Employees | Utility<br>Employees | Contract Workers<br>& Others |
| <b>Reactor Operations &amp; Surveillance</b>   |                                   |                      |                              |                      |                      |                              |
| Maintenance Personnel                          | 3                                 | 0                    | 0                            | 0.722                | 0.000                | 0.000                        |
| Operating Personnel                            | 23                                | 0                    | 1                            | 6.364                | 0.000                | 0.264                        |
| Health Physics Personnel                       | 8                                 | 0                    | 0                            | 2.576                | 0.000                | 0.000                        |
| Supervisory Personnel                          | 1                                 | 0                    | 0                            | 0.164                | 0.000                | 0.000                        |
| Engineering Personnel                          | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| <b>Routine Maintenance</b>                     |                                   |                      |                              |                      |                      |                              |
| Maintenance Personnel                          | 49                                | 0                    | 7                            | 14.900               | 0.000                | 1.498                        |
| Operating Personnel                            | 1                                 | 0                    | 0                            | 0.214                | 0.000                | 0.000                        |
| Health Physics Personnel                       | 4                                 | 0                    | 0                            | 0.937                | 0.000                | 0.000                        |
| Supervisory Personnel                          | 3                                 | 0                    | 0                            | 0.492                | 0.000                | 0.000                        |
| Engineering Personnel                          | 5                                 | 0                    | 0                            | 0.746                | 0.000                | 0.000                        |
| <b>Inservice Inspection</b>                    |                                   |                      |                              |                      |                      |                              |
| Maintenance Personnel                          | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Operating Personnel                            | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Health Physics Personnel                       | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Supervisory Personnel                          | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Engineering Personnel                          | 1                                 | 0                    | 0                            | 0.128                | 0.000                | 0.000                        |
| <b>Special Maintenance -(RHR Valve Repair)</b> |                                   |                      |                              |                      |                      |                              |
| Maintenance Personnel                          | 10                                | 0                    | 4                            | 2.178                | 0.000                | 0.541                        |
| Operating Personnel                            | 1                                 | 0                    | 0                            | 0.128                | 0.000                | 0.000                        |
| Health Physics Personnel                       | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Supervisory Personnel                          | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Engineering Personnel                          | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| <b>Waste Processing</b>                        |                                   |                      |                              |                      |                      |                              |
| Maintenance Personnel                          | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Operating Personnel                            | 2                                 | 0                    | 0                            | 0.376                | 0.000                | 0.000                        |
| Health Physics Personnel                       | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Supervisory Personnel                          | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Engineering Personnel                          | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| <b>Refueling</b>                               |                                   |                      |                              |                      |                      |                              |
| Maintenance Personnel                          | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Operating Personnel                            | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Health Physics Personnel                       | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Supervisory Personnel                          | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| Engineering Personnel                          | 0                                 | 0                    | 0                            | 0.000                | 0.000                | 0.000                        |
| <b>Totals</b>                                  |                                   |                      |                              |                      |                      |                              |
| Maintenance Personnel                          | 62                                | 0                    | 11                           | 17.800               | 0.000                | 2.038                        |
| Operating Personnel                            | 27                                | 0                    | 1                            | 7.083                | 0.000                | 0.264                        |
| Health Physics Personnel                       | 12                                | 0                    | 0                            | 3.513                | 0.000                | 0.000                        |
| Supervisory Personnel                          | 4                                 | 0                    | 0                            | 0.656                | 0.000                | 0.000                        |
| Engineering Personnel                          | 6                                 | 0                    | 0                            | 0.868                | 0.000                | 0.000                        |
| <b>Grand Totals</b>                            | 111                               | 0                    | 12                           | 29.926               | 0.000                | 2.302                        |

TOTAL SITE DOSE (by TLD) FOR 2000: 44.181 Person-Rem.

TOTAL DOSE for 2000 Reg. Guide 1.16 Report (by TLD): 32.228 Person-Rem