



ALLIANT ENERGY.

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February 10, 2000
NG-00-0240

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
1999 Annual Exposure Report

FILE: A-108, NRC-7a

Dear Sir:

Please find enclosed one (1) copy of the 1999 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,

Richard Anderson
Plant Manager - Nuclear

RA/DM/hc

Attachment: 1999 Annual Exposure Report (In Reg Guide 1.16 Format)

cc: D. Miller
D. Wilson
NRC Resident Office
K. Peveler
James E. Dyer, Region III Administrator

G. VanMiddlesworth
B. Mozafari (NRR-NRC)
DOCU
Licensing CTS Project

IES

USNRC ANNUAL REG GUIDE 1.16 REPORT for 1999

IES UTILITIES INC. - NRC LICENSE DPR-49

P.O. BOX 351

CEDAR RAPIDS, IA 52406

| Reporting Year: 1999 WORK & JOB FUNCTION | NUMBER OF PERSONNEL (>100.0 mrem) | | | TOTAL PERSON-REM | | |
|---|-----------------------------------|----------------------|------------------------------|----------------------|----------------------|------------------------------|
| | Station Employees | Utility Employees | Contract Workers & Others | Station Employees | Utility Employees | Contract Workers & Others |
| Reactor Operations & Surveillance | | | | | | |
| Maintenance Personnel | 5 | 0 | 0 | 1.361 | 0.000 | 0.000 |
| Operating Personnel | 39 | 0 | 1 | 11.988 | 0.000 | 0.317 |
| Health Physics Personnel | 7 | 0 | 17 | 2.115 | 0.000 | 5.395 |
| Supervisory Personnel | 1 | 0 | 1 | 0.125 | 0.000 | 0.118 |
| Engineering Personnel | 0 | 0 | 1 | 0.000 | 0.000 | 0.135 |
| Routine Maintenance | | | | | | |
| Maintenance Personnel | 64 | 0 | 127 | 18.899 | 0.000 | 31.509 |
| Operating Personnel | 11 | 0 | 1 | 2.144 | 0.000 | 0.225 |
| Health Physics Personnel | 4 | 0 | 1 | 0.770 | 0.000 | 0.210 |
| Supervisory Personnel | 3 | 0 | 3 | 0.769 | 0.000 | 0.587 |
| Engineering Personnel | 9 | 0 | 2 | 1.941 | 0.000 | 0.393 |
| Inservice Inspection | | | | | | |
| Maintenance Personnel | 2 | 0 | 61 | 0.707 | 0.000 | 21.549 |
| Operating Personnel | 2 | 0 | 0 | 0.298 | 0.000 | 0.000 |
| Health Physics Personnel | 1 | 0 | 0 | 0.199 | 0.000 | 0.000 |
| Supervisory Personnel | 0 | 0 | 2 | 0.000 | 0.000 | 0.304 |
| Engineering Personnel | 2 | 0 | 10 | 0.275 | 0.000 | 9.460 |
| Special Maintenance -(Recirculation Pipe Weld Repair) | | | | | | |
| Maintenance Personnel | 1 | 0 | 50 | 0.125 | 0.000 | 49.728 |
| Operating Personnel | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 |
| Health Physics Personnel | 2 | 0 | 0 | 0.229 | 0.000 | 0.000 |
| Supervisory Personnel | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 |
| Engineering Personnel | 2 | 0 | 6 | 0.270 | 0.000 | 3.286 |
| Waste Processing | | | | | | |
| Maintenance Personnel | 0 | 0 | 0 | 0.000 | 0.000 | 0.000 |
| Operating Personnel | 1 | 0 | 2 | 0.147 | 0.000 | 0.370 |
| 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 |
| Refueling | | | | | | |
| Maintenance Personnel | 5 | 0 | 24 | 1.008 | 0.000 | 5.919 |
| Operating Personnel | 1 | 0 | 0 | 0.167 | 0.000 | 0.000 |
| Health Physics Personnel | 1 | 0 | 4 | 0.187 | 0.000 | 0.735 |
| Supervisory Personnel | 0 | 0 | 4 | 0.000 | 0.000 | 1.281 |
| Engineering Personnel | 0 | 0 | 4 | 0.000 | 0.000 | 0.803 |
| Totals | | | | | | |
| Maintenance Personnel | 77 | 0 | 262 | 22.089 | 0.000 | 108.705 |
| Operating Personnel | 54 | 0 | 4 | 14.744 | 0.000 | 0.913 |
| Health Physics Personnel | 15 | 0 | 22 | 3.501 | 0.000 | 6.340 |
| Supervisory Personnel | 4 | 0 | 10 | 0.884 | 0.000 | 2.290 |
| Engineering Personnel | 13 | 0 | 23 | 2.486 | 0.000 | 14.077 |
| Grand Totals | 163 | 0 | 321 | 43.704 | 0.000 | 132.324 |

TOTAL SITE DOSE (by TLD) FOR 1999: 201.196 Person-Rem.

TOTAL DOSE for 1999 Reg. Guide 1.16 Report (by TLD): 176.028 Person-Rem