

Exelon Generation  
Braidwood Generating Station  
35100 South Route 53, Suite 84  
Braceville, IL 60407-9619  
Tel 815-458-2801

www.exeloncorp.com

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BW010037

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555-0001

Braidwood Station, Units 1 and 2  
Facility Operating License Nos. NPF-72 and NPF-77  
NRC Docket Nos. STN 50-456 and STN 50-457

Subject: 2000 Occupational Radiation Exposure Report

In accordance with Technical Specification 5.6.1, "Occupational Radiation Exposure Report," Braidwood Station is submitting the facility 2000 Occupational Radiation Exposure Report. This report is a tabulation of station, utility, and other personnel receiving an annual deep dose equivalent of >100 mrem. The associated collective deep dose equivalent is reported according to work and job functions. During the year individuals may have changed work and/or job functions. The "total by job function" category lists individuals by the last job function of the year.

Special maintenance activities in the year 2000 included modifications to the fuel transport system, inspection and top nozzle replacement, radiography and inspection, repair and cleanup of equipment in inaccessible valve aisles and filter vaults.

If you have any questions regarding this information, please contact Ms. Amy Ferko, Regulatory Assurance Manager, at (815) 458-2801, extension 2980.

Respectfully,



G. K. Schwartz  
Plant Manager  
Braidwood Station

Attachment

cc: Regional Administrator – NRC Region III  
NRC Senior Resident Inspector – Braidwood Station



# Exelon Braidwood Nuclear Station

## REGULATORY GUIDE 1.16 REPORT

### NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 2000

| WORK AND JOB FUNCTION                      | -- NUMBER OF PERSONNEL (> 100 MREM) -- |                   |                     | TOTAL PERSONS | ----- QUANTITY OF PERSON-REM ----- |                   |                     | TOTAL PERSON-REM |
|--|--|-------------------|---------------------|---------------|------------------------------------|-------------------|---------------------|------------------|
|  | STATION EMPLOYEES                      | UTILITY EMPLOYEES | CONTRACTORS/ OTHERS |               | STATION EMPLOYEES                  | UTILITY EMPLOYEES | CONTRACTORS/ OTHERS |                  |
| <b>REACTOR OPERATIONS AND SURVEILLANCE</b> |  |                   |                     |               |                                    |                   |                     |                  |
| MAINTENANCE                                | 42                                     | 0                 | 27                  |               | 0.615                              | 0.000             | 0.244               |                  |
| OPERATIONS                                 | 71                                     | 2                 | 1                   |               | 2.150                              | 0.000             | 0.062               |                  |
| HEALTH PHYSICS                             | 49                                     | 3                 | 25                  |               | 4.296                              | 0.000             | 0.020               |                  |
| SUPERVISORY                                | 10                                     | 1                 | 0                   |               | 0.099                              | 0.000             | 0.000               |                  |
| ENGINEERING                                | 8                                      | 0                 | 0                   |               | 0.085                              | 0.000             | 0.000               |                  |
|  | 180                                    | 6                 | 53                  | 239           | 7.245                              | 0.000             | 0.326               | 7.571            |
| <b>ROUTINE MAINTENANCE</b>                 |  |                   |                     |               |                                    |                   |                     |                  |
| MAINTENANCE                                | 124                                    | 0                 | 323                 |               | 17.045                             | 0.000             | 55.066              |                  |
| OPERATIONS                                 | 68                                     | 1                 | 2                   |               | 9.147                              | 0.232             | 0.416               |                  |
| HEALTH PHYSICS                             | 49                                     | 6                 | 27                  |               | 12.684                             | 0.677             | 5.371               |                  |
| SUPERVISORY                                | 16                                     | 1                 | 0                   |               | 1.394                              | 0.011             | 0.000               |                  |
| ENGINEERING                                | 14                                     | 0                 | 0                   |               | 1.789                              | 0.000             | 0.000               |                  |
|  | 271                                    | 8                 | 352                 | 631           | 42.059                             | 0.920             | 60.853              | 103.832          |
| <b>INSERVICE INSPECTION</b>                |  |                   |                     |               |                                    |                   |                     |                  |
| MAINTENANCE                                | 47                                     | 0                 | 91                  |               | 0.436                              | 0.000             | 12.416              |                  |
| OPERATIONS                                 | 26                                     | 0                 | 0                   |               | 0.134                              | 0.000             | 0.000               |                  |
| HEALTH PHYSICS                             | 25                                     | 0                 | 3                   |               | 0.257                              | 0.000             | 0.031               |                  |
| SUPERVISORY                                | 2                                      | 0                 | 0                   |               | 0.004                              | 0.000             | 0.000               |                  |
| ENGINEERING                                | 4                                      | 0                 | 0                   |               | 0.093                              | 0.000             | 0.000               |                  |
|  | 104                                    | 0                 | 94                  | 198           | 0.924                              | 0.000             | 12.447              | 13.371           |
| <b>SPECIAL MAINTENANCE</b>                 |  |                   |                     |               |                                    |                   |                     |                  |
| MAINTENANCE                                | 24                                     | 0                 | 7                   |               | 0.021                              | 0.000             | 0.551               |                  |
| OPERATIONS                                 | 11                                     | 0                 | 0                   |               | 0.016                              | 0.000             | 0.000               |                  |
| HEALTH PHYSICS                             | 32                                     | 0                 | 1                   |               | 0.057                              | 0.000             | 0.000               |                  |
| SUPERVISORY                                | 3                                      | 0                 | 0                   |               | 0.009                              | 0.000             | 0.000               |                  |
| ENGINEERING                                | 2                                      | 0                 | 0                   |               | 0.000                              | 0.000             | 0.000               |                  |
|  | 72                                     | 0                 | 8                   | 80            | 0.103                              | 0.000             | 0.551               | 0.654            |
| <b>WASTE PROCESSING</b>                    |  |                   |                     |               |                                    |                   |                     |                  |
| MAINTENANCE                                | 0                                      | 0                 | 0                   |               | 0.000                              | 0.000             | 0.000               |                  |
| OPERATIONS                                 | 16                                     | 0                 | 2                   |               | 0.035                              | 0.000             | 0.470               |                  |
| HEALTH PHYSICS                             | 28                                     | 0                 | 0                   |               | 0.240                              | 0.000             | 0.000               |                  |
| SUPERVISORY                                | 0                                      | 0                 | 0                   |               | 0.000                              | 0.000             | 0.000               |                  |
| ENGINEERING                                | 0                                      | 0                 | 0                   |               | 0.000                              | 0.000             | 0.000               |                  |
|  | 44                                     | 0                 | 2                   | 46            | 0.275                              | 0.000             | 0.470               | 0.745            |
| <b>REFUELING</b>                           |  |                   |                     |               |                                    |                   |                     |                  |
| MAINTENANCE                                | 91                                     | 0                 | 89                  |               | 10.278                             | 0.000             | 11.234              |                  |
| OPERATIONS                                 | 29                                     | 1                 | 0                   |               | 3.222                              | 0.124             | 0.000               |                  |
| HEALTH PHYSICS                             | 16                                     | 3                 | 3                   |               | 0.335                              | 0.339             | 0.269               |                  |
| SUPERVISORY                                | 8                                      | 1                 | 0                   |               | 1.858                              | 0.008             | 0.000               |                  |
| ENGINEERING                                | 7                                      | 0                 | 0                   |               | 0.626                              | 0.000             | 0.000               |                  |
|  | 151                                    | 5                 | 92                  | 248           | 16.319                             | 0.471             | 11.503              | 28.293           |

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### NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION FOR 2000

-- NUMBER OF PERSONNEL (> 100 MREM) --

----- QUANTITY OF PERSON-REM -----

| WORK AND JOB FUNCTION        | NUMBER OF PERSONNEL (> 100 MREM) |                   |                     | TOTAL PERSONS | QUANTITY OF PERSON-REM |                   |                     | TOTAL PERSON-REM |
|------------------------------|----------------------------------|-------------------|---------------------|---------------|------------------------|-------------------|---------------------|------------------|
|                              | STATION EMPLOYEES                | UTILITY EMPLOYEES | CONTRACTORS/ OTHERS |               | STATION EMPLOYEES      | UTILITY EMPLOYEES | CONTRACTORS/ OTHERS |                  |
| <b>TOTAL BY JOB FUNCTION</b> |                                  |                   |                     |               |                        |                   |                     |                  |
| MAINTENANCE                  | 124                              | 0                 | 323                 | 447           | 28.395                 | 0.000             | 79.511              | 107.906          |
| OPERATING                    | 75                               | 3                 | 2                   | 80            | 14.704                 | 0.356             | 0.948               | 16.008           |
| HEALTH PHYSICS               | 47                               | 7                 | 27                  | 81            | 17.869                 | 1.016             | 5.691               | 24.576           |
| SUPERVISORY                  | 16                               | 0                 | 0                   | 16            | 3.364                  | 0.019             | 0.000               | 3.383            |
| ENGINEERING                  | 13                               | 0                 | 1                   | 14            | 2.593                  | 0.000             | 0.000               | 2.593            |
| *** GRAND TOTAL ***          | 275                              | 10                | 353                 | 638           | 66.925                 | 1.391             | 86.150              | 154.466          |