



Commonwealth Edison  
Byron Nuclear Station  
4450 North German Church Road  
Byron, Illinois 61010

February 3, 1992

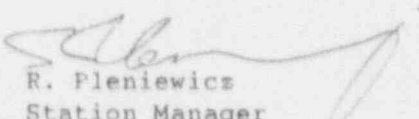
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Mr. A. Bert Davis  
Regional Administrator  
Region III  
U.S. Nuclear Regulatory Commission  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

SUBJECT: Byron Station Operating Report, NRC Dockets 50-454 and 50-455

Dear Mr. Davis:

Enclosed is the occupational Radiation Exposures (NRC Reg. Guide 1.16)  
for 1991 for Byron Nuclear Power Station.



R. Pleniewicz  
Station Manager  
Byron Nuclear Power Station

RP/JLW/ph

Enclosure

cc: NRC Document Control Desk  
NRC Resident Inspector  
NRC Office of Research

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ATTACHMENT D

REGULATORY GUIDE 1.16

NUMBER OF PERSONNEL AND PERSON-REM BY WORK AND JOB FUNCTION  
YEAR 1991

PLANT: Byron Plant 1 and 2

| WORK & JOB FUNCTION       | NUMBER OF PERSONNEL  |                      |                      |                  | TOTAL PERSON-REMS    |                      |                      |                     |
|---------------------------|----------------------|----------------------|----------------------|------------------|----------------------|----------------------|----------------------|---------------------|
|                           | STATION<br>EMPLOYEES | CONTRACT<br>& OTHERS | UTILITY<br>EMPLOYEES | TOTAL<br>PERSONS | STATION<br>EMPLOYEES | CONTRACT<br>& OTHERS | UTILITY<br>EMPLOYEES | TOTAL<br>PERSON-REM |
| REACTOR OPERATIONS & SURV |                      |                      |                      |                  |                      |                      |                      |                     |
| ENGINEERING PERSONNEL     | 44                   | 3                    | 57                   |                  | 2.581                | 0.105                | 0.387                |                     |
| HEALTH PHYSICS PERSONNEL  | 49                   | 72                   | 0                    |                  | 12.239               | 11.610               | 0.000                |                     |
| MAINTENANCE PERSONNEL     | 1                    | 3                    | 0                    |                  | 0.251                | 0.540                | 0.000                |                     |
| OPERATING PERSONNEL       | 81                   | 98                   | 0                    |                  | 10.169               | 0.849                | 0.000                |                     |
| SUPERVISORY PERSONNEL     | 88                   | 10                   | 0                    |                  | 2.825                | 0.347                | 0.000                |                     |
| TOTAL                     | 263                  | 186                  | 57                   | 506              | 28.065               | 13.451               | 0.387                | 41.903              |
| ROUTINE MAINTENANCE       |                      |                      |                      |                  |                      |                      |                      |                     |
| ENGINEERING PERSONNEL     | 25                   | 31                   | 108                  |                  | 1.485                | 1.190                | 0.737                |                     |
| HEALTH PHYSICS PERSONNEL  | 3                    | 1                    | 0                    |                  | 0.687                | 0.156                | 0.000                |                     |
| MAINTENANCE PERSONNEL     | 131                  | 518                  | 1                    |                  | 41.590               | 80.799               | 0.015                |                     |
| OPERATING PERSONNEL       | 43                   | 49                   | 0                    |                  | 5.343                | 0.423                | 0.000                |                     |
| SUPERVISORY PERSONNEL     | 203                  | 90                   | 0                    |                  | 6.511                | 3.228                | 0.000                |                     |
| TOTAL                     | 405                  | 689                  | 109                  | 1203             | 55.616               | 85.796               | 0.752                | 142.164             |
| IN-SERVICE INSPECTION     |                      |                      |                      |                  |                      |                      |                      |                     |
| ENGINEERING PERSONNEL     | 12                   | 4                    | 17                   |                  | 0.694                | 0.136                | 0.117                |                     |
| HEALTH PHYSICS PERSONNEL  | 0                    | 0                    | 0                    |                  | 0.055                | 0.011                | 0.000                |                     |
| MAINTENANCE PERSONNEL     | 0                    | 150                  | 0                    |                  | 0.039                | 23.401               | 0.000                |                     |
| OPERATING PERSONNEL       | 0                    | 0                    | 0                    |                  | 0.026                | 0.000                | 0.000                |                     |
| SUPERVISORY PERSONNEL     | 34                   | 14                   | 0                    |                  | 1.096                | 0.493                | 0.000                |                     |
| TOTAL                     | 46                   | 168                  | 17                   | 231              | 1.910                | 24.041               | 0.117                | 26.068              |
| SPECIAL MAINTENANCE       |                      |                      |                      |                  |                      |                      |                      |                     |
| ENGINEERING PERSONNEL     | 1                    | 7                    | 38                   |                  | 0.087                | 0.276                | 0.255                |                     |
| HEALTH PHYSICS PERSONNEL  | 1                    | 0                    | 0                    |                  | 0.179                | 0.013                | 0.000                |                     |
| MAINTENANCE PERSONNEL     | 2                    | 179                  | 18                   |                  | 0.766                | 27.956               | 0.243                |                     |
| OPERATING PERSONNEL       | 1                    | 0                    | 0                    |                  | 0.084                | 0.000                | 0.000                |                     |
| SUPERVISORY PERSONNEL     | 4                    | 32                   | 0                    |                  | 0.134                | 1.167                | 0.000                |                     |
| TOTAL                     | 9                    | 218                  | 56                   | 283              | 1.250                | 29.412               | 0.498                | 31.160              |
| REFUELING                 |                      |                      |                      |                  |                      |                      |                      |                     |
| ENGINEERING PERSONNEL     | 3                    | 0                    | 1                    |                  | 0.188                | 0.018                | 0.009                |                     |
| HEALTH PHYSICS PERSONNEL  | 1                    | 0                    | 0                    |                  | 0.122                | 0.000                | 0.000                |                     |
| MAINTENANCE PERSONNEL     | 40                   | 22                   | 0                    |                  | 12.816               | 3.408                | 0.002                |                     |
| OPERATING PERSONNEL       | 37                   | 0                    | 0                    |                  | 4.699                | 0.000                | 0.000                |                     |
| SUPERVISORY PERSONNEL     | 95                   | 5                    | 0                    |                  | 3.042                | 0.187                | 0.000                |                     |
| TOTAL                     | 176                  | 27                   | 1                    | 204              | 20.867               | 3.613                | 0.011                | 24.491              |
| WASTE PROCESSING          |                      |                      |                      |                  |                      |                      |                      |                     |
| ENGINEERING PERSONNEL     | 0                    | 0                    | 0                    |                  | 0.000                | 0.000                | 0.000                |                     |
| HEALTH PHYSICS PERSONNEL  | 0                    | 0                    | 0                    |                  | 0.102                | 0.000                | 0.000                |                     |
| MAINTENANCE PERSONNEL     | 0                    | 2                    | 0                    |                  | 0.018                | 0.243                | 0.000                |                     |
| OPERATING PERSONNEL       | 4                    | 130                  | 0                    |                  | 0.494                | 1.124                | 0.000                |                     |
| SUPERVISORY PERSONNEL     | 2                    | 0                    | 0                    |                  | 0.076                | 0.000                | 0.000                |                     |
| TOTAL                     | 6                    | 132                  | 0                    | 138              | 0.690                | 1.367                | 0.000                | 2.057               |
| TOTAL BY JOB FUNCTION     |                      |                      |                      |                  |                      |                      |                      |                     |
| ENGINEERING PERSONNEL     | 85                   | 45                   | 221                  | 351              | 5.035                | 1.725                | 1.505                | 8.265               |
| HEALTH PHYSICS PERSONNEL  | 54                   | 73                   | 0                    | 127              | 13.384               | 11.790               | 0.000                | 25.174              |
| MAINTENANCE PERSONNEL     | 174                  | 874                  | 19                   | 1067             | 55.480               | 136.347              | 0.260                | 192.087             |
| OPERATING PERSONNEL       | 166                  | 277                  | 0                    | 443              | 20.815               | 2.396                | 0.000                | 23.211              |
| SUPERVISORY PERSONNEL     | 423                  | 151                  | 0                    | 577              | 13.684               | 5.422                | 0.000                | 19.106              |
| GRAND TOTAL               | 905                  | 1420                 | 240                  | 2565             | 108.398              | 157.680              | 1.765                | 267.843             |

NOTE: Computer has rounded to the nearest whole person and millirem, there may be occurrences of dose indicated for zero persons.