

Exelon Generation Company, LLC
Dresden Nuclear Power Station
6500 North Dresden Road
Morris, IL 60450-9765

www.exeloncorp.com

April 28, 2005

SVPLTR: #05-0016

United States Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

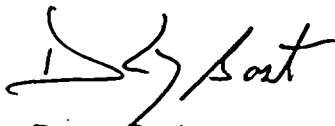
Dresden Nuclear Power Station, Units 1, 2, and 3
Facility Operating License Nos. DPR-2, DRP-19, and DPR-25
NRC Docket Nos. 50-10, 50-237, and 50-249

Subject: 2004 Occupational Radiation Exposure Report

The purpose of this letter is to submit the 2004 Occupational Radiation Exposure Report for Exelon Generation Company, LLC, Dresden Nuclear Power Station, in accordance with Section 6.9.A.2.a, "Annual Report," for Unit 1 of the DNPS Technical Specifications and Section 5.6.1 of Improved Technical Specifications for Units 2 and 3, "Occupational Radiation Exposure Report." The report total of 358.939 person-rem reflects all monitored individuals who received greater than 100 mrem of exposure.

Should you have any questions concerning this letter, please contact Pedro Salas, Regulatory Assurance Manager at (815) 416-2800.

Respectfully,



Danny Bost
Site Vice President
Dresden Nuclear Power Station

Attachment

cc: Regional Administrator – NRC Region III
NRC Senior Resident Inspector – Dresden Nuclear Power Station

JE56

Reg Guide 1.16 Report Comments

This report includes individuals who have TEDE values >100 mrem. These individuals are identified by calculating DDE-Gamma, DDE-Neutron and CEDE record dose.

Once these individuals are identified, their secondary (ED) dose is reported by work function-RWPs(*) worked on and categorized as follows:

1. Reactor Operations and Surveillance
2. Routine Maintenance
3. Special Maintenance
4. Waste Processing
5. Refueling

Individuals are categorized by personnel type (#) as follows:

1. Station
2. Utility
3. Contractors/Others

Individuals are categorized by job functions (#) as follows:

1. Maintenance
2. Operations
3. Supervisory
4. Health Physics
5. Engineering

*For RWPs with more than one work group, all secondary dose is assigned to the higher value work group.

#The "total by job function" category lists individuals by the last job function of the year.

The last line "number of employees with >100 mrem" includes individuals by the last personnel type of the year. This total may be less than the "total by job function" if individuals' personnel types were changed during the year (i.e. contractor to station employee).

Occupational Radiation Exposure Report

Number of Personnel (> 100 mrem)

Quantity of Person-rem

	<u>Station</u> <u>Employees</u>	<u>Utility</u> <u>Employees</u>	<u>Contractors/</u> <u>Others</u>	<u>Total</u> <u>Persons</u>	<u>Station</u> <u>Employees</u>	<u>Utility</u> <u>Employees</u>	<u>Contractors/</u> <u>Others</u>	<u>Total</u> <u>Person-rem</u>
<u>Reactor Operations and Surveillance</u>								
Maintenance	6	0	32	38	0.044	0.000	1.288	1.332
Operations	47	0	0	47	8.613	0.000	0.000	8.613
Health Physics	31	1	4	36	4.692	0.005	0.017	4.714
Supervisory	16	6	2	24	0.630	0.066	0.081	0.777
Engineering	11	0	1	12	0.129	0.000	0.006	0.135
	<u>111</u>	<u>7</u>	<u>39</u>	<u>157</u>	<u>14.108</u>	<u>0.071</u>	<u>1.392</u>	<u>15.571</u>
<u>Routine Maintenance</u>								
Maintenance	146	1	534	681	58.738	0.194	116.933	175.865
Operations	55	1	4	60	11.628	0.029	0.970	12.627
Health Physics	42	1	13	56	8.635	0.207	2.546	11.388
Supervisory	25	27	12	64	3.206	7.610	1.142	11.958
Engineering	13	0	14	27	2.290	0.000	1.165	3.455
	<u>281</u>	<u>30</u>	<u>577</u>	<u>888</u>	<u>84.497</u>	<u>8.040</u>	<u>122.756</u>	<u>215.293</u>
<u>Inservice Inspection</u>								
Maintenance	1	0	64	65	0.007	0.000	10.440	10.447
Health Physics	1	0	0	1	0.001	0.000	0.000	0.001
Supervisory	0	1	1	2	0.000	0.093	0.545	0.638
Engineering	2	0	2	4	0.057	0.000	0.723	0.780
	<u>4</u>	<u>1</u>	<u>67</u>	<u>72</u>	<u>0.065</u>	<u>0.093</u>	<u>11.708</u>	<u>11.866</u>
<u>Special Maintenance</u>								
Maintenance	131	0	145	276	9.092	0.000	7.231	16.323
Operations	43	0	1	44	0.970	0.000	0.038	1.008
Health Physics	24	0	2	26	0.650	0.000	0.050	0.700
Supervisory	19	3	5	27	0.726	0.068	0.175	0.969
Engineering	12	0	2	14	0.405	0.000	0.150	0.555
	<u>229</u>	<u>3</u>	<u>155</u>	<u>387</u>	<u>11.843</u>	<u>0.068</u>	<u>7.644</u>	<u>19.555</u>
<u>Waste Processing</u>								
Maintenance	11	0	22	33	0.503	0.000	0.162	0.665
Operations	9	0	2	11	0.042	0.000	1.271	1.313
Health Physics	10	0	2	12	0.196	0.000	0.020	0.216
Supervisory	0	1	0	1	0.000	0.001	0.000	0.001
Engineering	0	0	1	1	0.000	0.000	0.004	0.004
	<u>30</u>	<u>1</u>	<u>27</u>	<u>58</u>	<u>0.741</u>	<u>0.001</u>	<u>1.457</u>	<u>2.199</u>

Facility: Dresden
Year: 2004

Occupational Radiation Exposure Report

Page 2 of 2

	<u>Number of Personnel (> 100 mrem)</u>				<u>Quantity of Person-rem</u>			
	<u>Station Employees</u>	<u>Utility Employees</u>	<u>Contractors/ Others</u>	<u>Total Persons</u>	<u>Station Employees</u>	<u>Utility Employees</u>	<u>Contractors/ Others</u>	<u>Total Person-rem</u>
<u>Refueling</u>								
Maintenance	22	0	243	265	0.605	0.000	84.477	85.082
Operations	10	0	0	10	1.207	0.000	0.000	1.207
Health Physics	12	0	13	25	1.039	0.000	1.356	2.395
Supervisory	8	8	6	22	0.462	0.955	1.863	3.280
Engineering	1	0	11	12	0.109	0.000	2.382	2.491
	<u>53</u>	<u>8</u>	<u>273</u>	<u>334</u>	<u>3.422</u>	<u>0.955</u>	<u>90.078</u>	<u>94.455</u>
<u>Total by Job Function</u>								
Maintenance	146	1	603	750	68.989	0.194	220.531	289.714
Operations	58	1	5	64	22.460	0.029	2.279	24.768
Health Physics	43	1	16	60	15.213	0.212	3.989	19.414
Supervisory	27	28	14	69	5.024	8.793	3.806	17.623
Engineering	13	0	19	32	2.990	0.000	4.430	7.420
	<u>287</u>	<u>31</u>	<u>657</u>	<u>975</u>	<u>114.676</u>	<u>9.228</u>	<u>235.035</u>	<u>358.939</u>

Number of Employees with >100 mrem: 972