

March 8, 2000

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

**DOCKET 50-255 - LICENSE DPR-20 - PALISADES PLANT  
1999 ANNUAL REPORT - OCCUPATIONAL EXPOSURE**

Attached is the Palisades Plant annual report of occupational exposure for the year 1999. This report was prepared in accordance with Palisades Plant Technical Specification, Section 6.6.1 and supplements the information reported in accordance with 10 CFR 20.2206 under separate cover.

**SUMMARY OF COMMITMENTS**

This letter contains no new commitments and no revisions to existing commitments.



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Acting Director, Licensing

CC Administrator, Region III, USNRC  
Project Manager, NRR, USNRC  
NRC Resident Inspector - Palisades  
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Attachment

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**ATTACHMENT**

**CONSUMERS ENERGY COMPANY  
PALISADES PLANT  
DOCKET 50-255**

**1999 ANNUAL REPORT  
OCCUPATIONAL EXPOSURE**

**2 Pages**

## **1999 Occupational Radiation Exposure**

The attached table summarizes personnel radiation exposure by job function, work group, and employer for the year 1999. The methodology and format used to prepare the table meets the reporting requirements of Section 6.6.1 of the Palisades Plant Technical Specifications.

Occupational exposures, derived from Electronic Dosimeter (ED) data, are adjusted by a factor that corrects the ED data to the dose for each individual as measured by thermoluminescent dosimeter, the legal record dose. The correction factor is applied to each job function, work group and employer category on the attached table.

The Special Maintenance activities conducted during 1999 included the following:

- Radwaste packaging activities
- Sluice resins from Tank-51A and Tank-55C to Tank-100
- Prepare liners, High Integrity Containers and boxes for shipment
- Transfer Tri-Nuk filters from fuel pool
- Transfer incores from storage cask to shipment liner
- Dry Fuel Storage (DFS) minor work
- Place/Remove Multiassembly Sealed Basket (MSB) from pool, drain and test
- Transfer MSB to Ventilated Concrete Cask and Transport Ventilated Storage Cask to Independent Spent Fuel Storage Installation
- Welding and NDT of MSB numbers 15 through 19
- DFS decon activities
- Operations activities in support of DFS
- 1999 DFS dry run activities

1999 PALISADES NUCLEAR PLANT  
REGULATORY GUIDE 1.16 APPENDIX A ANNUAL REPORT

18-Feb-2000

Job Function Work Group	Number of Personnel (> 100 mrem)			Total Man Rem		
	Station	Utility	Contract & Other	Station	Utility	Contract & Other
Reactor Operations & Surv.						
Maintenance Personnel	0	0	3	0.379	0.013	1.201
Operations Personnel	34	0	1	8.491	0.042	0.381
Health Physics Personnel	47	0	30	13.568	0.057	9.273
Supervisory Personnel	3	0	0	1.357	0.000	0.038
Engineering Personnel	2	0	0	1.294	0.011	0.240
Routine Maintenance						
Maintenance Personnel	75	11	148	23.757	2.623	46.807
Operations Personnel	2	0	0	0.435	0.008	0.018
Health Physics Personnel	7	0	8	2.294	0.000	1.878
Supervisory Personnel	1	0	2	0.401	0.000	0.308
Engineering Personnel	5	0	6	1.154	0.198	3.132
Inservice Inspection						
Maintenance Personnel	5	3	63	0.881	0.897	25.267
Operations Personnel	0	0	1	0.002	0.000	0.186
Health Physics Personnel	1	0	8	0.310	0.000	1.753
Supervisory Personnel	0	0	3	0.004	0.000	0.303
Engineering Personnel	3	4	7	0.808	1.497	1.475
Special Maintenance						
Maintenance Personnel	1	0	4	0.715	0.139	0.714
Operations Personnel	0	0	0	0.009	0.000	0.000
Health Physics Personnel	1	0	0	0.159	0.000	0.119
Supervisory Personnel	0	0	0	0.004	0.000	0.000
Engineering Personnel	0	0	5	0.059	0.000	0.918
Waste Processing						
Maintenance Personnel	0	3	1	0.426	0.426	0.409
Operations Personnel	0	0	0	0.055	0.000	0.001
Health Physics Personnel	4	0	0	0.957	0.000	0.057
Supervisory Personnel	1	0	0	0.116	0.000	0.010
Engineering Personnel	0	0	0	0.070	0.051	0.020
Refueling						
Maintenance Personnel	0	0	87	0.068	0.006	54.458
Operations Personnel	2	0	1	0.349	0.000	0.583
Health Physics Personnel	7	0	8	1.162	0.000	2.437
Supervisory Personnel	1	0	0	0.312	0.000	0.000
Engineering Personnel	3	0	2	0.662	0.001	0.238
TOTALS						
Maintenance Personnel	81	17	306	26.226	4.104	128.856
Operations Personnel	38	0	3	9.341	0.050	1.169
Health Physics Personnel	67	0	54	18.450	0.057	15.517
Supervisory Personnel	6	0	5	2.194	0.000	0.659
Engineering Personnel	13	4	20	4.047	1.758	6.023
GRAND TOTAL	205	21	388	60.258	5.969	152.224