



March 22, 2004

Technical Specification 5.6.1

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

Palisades Nuclear Plant
Docket 50-255
License No. DPR-20

2003 Annual Report Of Occupational Radiation Exposure

Enclosed is the Nuclear Management Company, LLC, report of occupational exposure for the Palisades Nuclear Plant for the year 2003. This report was prepared in accordance with Palisades Plant Technical Specification 5.6.1 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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Site Vice President, Palisades Nuclear Plant
Nuclear Management Company, LLC

Enclosure (1)
Attachment (1)

CC Administrator, Region III, USNRC
Project Manager, Palisades, USNRC
Resident Inspector, Palisades, USNRC
REIRS Project Manager, NRR, USNRC

IES4

ENCLOSURE 1
2003 OCCUPATIONAL RADIATION EXPOSURE REPORT

The attached table summarizes the distribution of radiation exposure by job function, work group and employer for the year 2003. The methodology and format used to prepare the table meet the reporting requirements of Palisades Plant Technical Specification 5.6.1.

Occupational exposures are derived from electronic dosimeter (ED) data and are adjusted to reflect cumulative site total effective dose equivalent (TEDE). The correction factor is applied to the ED dose accrued in each job function, work group and employer category.

Palisades Plant Technical Specification 5.6.1 requires that work designated as special maintenance be described. There were three radiation work permits (RWPs) for work designated as special maintenance. Each is summarized below:

1. RWP 2003-0202 – Spent Fuel Pool Crane Modifications. Modifications to the spent fuel pool crane were performed to upgrade an aging piece of equipment. The modifications included a new roof hatch installation, ductwork modifications, structural bracing modifications, trolley clips installation, runway clips installation, new trolley installation, testing of the trolley, and post-test weld inspections.
2. RWP 2003-5310 – Letdown Heat Exchanger Support Modification. Modifications were done to the support structure for the letdown heat exchanger to reinforce the existing structure.
3. RWP 2003-5311 – Remove Abandoned Drain Tank Recirculation Line. Abandoned sections of two-inch stainless steel piping were removed. End caps were welded on the remaining piping and hangers were placed on the remaining piping.

ATTACHMENT 1
2003 REGULATORY GUIDE 1.16 APPENDIX A ANNUAL REPORT

Job Function Work Group	Number of Personnel (> 100 mrem)*			Total Person_Rem**		
	Station	Utility	Contract & Other	Station	Utility	Contract & Other
Reactor Operations & Surv.						
Maintenance Personnel	1	0	0	0.405	0.003	0.177
Operations Personnel	35	0	1	8.461	0.002	0.256
Health Physics Personnel	24	2	19	5.886	0.289	5.436
Supervisory Personnel	3	0	0	0.882	0.001	0.031
Engineering Personnel	2	0	0	0.820	0.002	0.056
Inservice Inspection						
Maintenance Personnel	0	0	73	0.119	0.000	32.963
Operations Personnel	1	0	0	0.172	0.000	0.055
Health Physics Personnel	7	1	7	1.441	0.170	1.377
Supervisory Personnel	1	0	1	0.210	0.000	0.146
Engineering Personnel	1	0	3	0.571	0.000	0.635
Refueling						
Maintenance Personnel	2	0	84	0.414	0.000	53.061
Operations Personnel	2	0	0	0.397	0.000	0.055
Health Physics Personnel	12	2	14	2.463	0.647	3.407
Supervisory Personnel	1	0	2	0.341	0.000	0.296
Engineering Personnel	6	0	5	0.968	0.000	2.238
Routine Maintenance						
Maintenance Personnel	58	3	166	17.034	0.640	42.828
Operations Personnel	3	0	0	1.341	0.000	0.129
Health Physics Personnel	20	0	11	3.913	0.032	2.472
Supervisory Personnel	2	0	4	0.413	0.001	1.332
Engineering Personnel	11	0	9	2.695	0.042	2.003
Special Maintenance						
Maintenance Personnel	0	0	5	0.000	0.000	1.435
Operations Personnel	0	0	0	0.000	0.000	0.000
Health Physics Personnel	0	0	0	0.031	0.000	0.036
Supervisory Personnel	0	0	0	0.000	0.000	0.001
Engineering Personnel	0	0	0	0.001	0.000	0.002
Waste Processing						
Maintenance Personnel	0	0	0	0.012	0.000	0.003
Operations Personnel	0	0	0	0.038	0.000	0.000
Health Physics Personnel	3	0	0	1.219	0.000	0.021
Supervisory Personnel	0	0	0	0.041	0.000	0.000
Engineering Personnel	0	0	0	0.002	0.000	0.001
TOTALS						
Maintenance Personnel	61	3	328	17.984	0.643	130.467
Operations Personnel	41	0	1	10.409	0.002	0.495
Health Physics Personnel	66	5	51	14.953	1.138	12.749
Supervisory Personnel	7	0	7	1.887	0.002	1.806
Engineering Personnel	20	0	17	5.057	0.044	4.935
GRAND TOTAL	195	8	404	50.290	1.829	150.452

* - Occurrences of personnel receiving >100 mrem in a given category

** - Electronic dosimeter data adjusted by ratio of cumulative TEDE to cumulative ED dose.