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NMP1L 1500

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

RE: Nine Mile Point Unit 1
 Docket No. 50-220
 DPR-63

 Nine Mile Point Unit 2
 Docket No. 50-410
 NPF-69

Subject: Annual Occupational Exposure Reports

Gentlemen:

Niagara Mohawk Power Corporation is submitting the Annual Occupational Exposure Reports for the Nine Mile Point Nuclear Station Unit 1 and Unit 2, in accordance with Unit 1 Technical Specification (TS) 6.9.1.b and Unit 2 TS 6.9.1.5.a. The reports are enclosed as Attachments 1A and 1B for Unit 1 and Attachments 2A and 2B for Unit 2. They are based on the guidance of NRC Regulatory Guide 1.16 (Revision 4) and cover the period January 1, 1999 through December 31, 1999.

Please refer any questions regarding these reports to Mr. David Barcomb, Unit 2 Radiation Protection Manager, at (315) 349-4217.

Very truly yours,

John T. Conway
Vice President Nuclear Generation

JTC/IAA/tmk
Attachments

xc: Mr. H. J. Miller, Regional Administrator, Region I
 Ms. M. K. Gamberoni, Acting Section Chief PD-I, Section 1, NRR
 Mr. G. K. Hunegs, Senior Resident Inspector
 Mr. P. S. Tam, Senior Project Manager, NRR
 Records Management

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Attachment 1A

Nine Mile Point Nuclear Station Unit # 1 DPR-63 1999 Regulatory Guide 1.16 Report

Work & Job Function	Numbers of Personnel > 100 mrem				Exposure Totals (mrem)			
	Station Employees	Utility Employees	Contract & Others	Total Employees	Station Employees	Utility Employees	Contract & Others	Total Mili-rems
Reactor Operations & Surv.								
Maintenance Personnel	22	0	3	25	300	0	6	306
Operating Personnel	43	0	1	44	7,857	0	17	7,873
Health Physics Personnel	21	0	4	25	286	0	74	360
Engineering Personnel	5	0	2	7	35	0	8	43
Supervisory Personnel	4	0	0	4	46	0	0	46
Total	95	0	10	105	8,524	0	104	8,628
Routine Maintenance								
Maintenance Personnel	111	0	417	528	42,131	0	143,329	185,460
Operating Personnel	51	0	6	57	14,264	0	483	14,747
Health Physics Personnel	51	0	29	80	12,214	0	8,647	20,861
Engineering Personnel	24	0	64	88	4,239	0	30,443	34,681
Supervisory Personnel	11	0	14	25	3,160	0	3,147	6,307
Total	248	0	530	778	76,008	0	186,048	262,056
In-Service Inspection								
Maintenance Personnel	6	0	140	146	1,367	0	35,561	36,929
Operating Personnel	0	0	1	1	0	0	3	3
Health Physics Personnel	9	0	4	13	108	0	30	138
Engineering Personnel	3	0	35	38	33	0	1,952	1,985
Supervisory Personnel	0	0	4	4	0	0	810	810
Total	18	0	184	202	1,508	0	38,356	39,865
Special Maintenance								
Maintenance Personnel	44	0	226	270	2,595	0	19,800	22,395
Operating Personnel	19	0	0	19	287	0	0	287
Health Physics Personnel	20	0	8	28	808	0	115	923
Engineering Personnel	10	0	14	24	704	0	1,144	1,848
Supervisory Personnel	7	0	5	12	112	0	593	705
Total	100	0	253	353	4,504	0	21,652	26,157
Waste Processing								
Maintenance Personnel	1	0	0	1	2	0	0	2
Operating Personnel	8	0	1	9	565	0	237	801
Health Physics Personnel	10	0	2	12	309	0	19	328
Engineering Personnel	0	0	0	0	0	0	0	0
Supervisory Personnel	2	0	0	2	13	0	0	13
Total	21	0	3	24	888	0	256	1,144
Refueling								
Maintenance Personnel	33	0	105	138	618	0	13,986	14,604
Operating Personnel	11	0	3	14	162	0	362	524
Health Physics Personnel	24	0	12	36	2,779	0	1,567	4,347
Engineering Personnel	6	0	27	33	46	0	2,655	2,701
Supervisory Personnel	4	0	3	7	166	0	300	466
Total	78	0	150	228	3,771	0	18,870	22,641
Summary by Job Function								
Maintenance Personnel	217	0	891	1,108	47,013	0	212,681	259,694
Operating Personnel	132	0	12	144	23,133	0	1,102	24,236
Health Physics Personnel	135	0	59	194	16,505	0	10,451	26,956
Engineering Personnel	48	0	142	190	5,057	0	36,202	41,259
Supervisory Personnel	28	0	26	54	3,496	0	4,850	8,346
Grand Total	560	0	1,130	1,690	95,204	0	265,286	360,490

Note: Workers may be counted in more than one category.
Exposure totals are rounded numbers.

Attachment 1B

1999 Nine Mile Point - Unit #1 Description of Special Maintenance Activities

Job Description

Torus Emergency Core Cooling System Strainer Modifications

Turbine Feedwater Heater Modifications

Main Steam Isolation Valves Modifications

Spent Fuel Pool Re-Rack Project

Hydrogen Water Chemistry Project

Attachment 2A

Nine Mile Point Nuclear Station Unit # 2 NPF-69 1999 Regulatory Guide 1.16 Report

Work & Job Function	Numbers of Personnel > 100 mrem				Exposure Totals (mrem)			
	Station Employees	Utility Employees	Contract & Others	Total Employees	Station Employees	Utility Employees	Contract & Others	Total Milli-rems
Reactor Operations & Surv.								
Maintenance Personnel	7	0	0	7	465	0	0	465
Operating Personnel	49	0	0	49	6,655	0	0	6,655
Health Physics Personnel	4	0	0	4	89	0	0	89
Engineering Personnel	0	0	0	0	0	0	0	0
Supervisory Personnel	2	0	0	2	259	0	0	259
Total	62	0	0	62	7,468	0	0	7,468
Routine Maintenance								
Maintenance Personnel	103	0	73	176	25,677	0	3,969	29,645
Operating Personnel	62	0	5	67	5,081	0	1,397	6,478
Health Physics Personnel	49	0	0	49	8,811	0	0	8,811
Engineering Personnel	18	0	5	23	2,153	0	20	2,174
Supervisory Personnel	7	0	1	8	949	0	75	1,024
Total	239	0	84	323	42,670	0	5,461	48,131
In-Service Inspection								
Maintenance Personnel	0	0	0	0	0	0	0	0
Operating Personnel	0	0	0	0	0	0	0	0
Health Physics Personnel	0	0	0	0	0	0	0	0
Engineering Personnel	0	0	0	0	0	0	0	0
Supervisory Personnel	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0
Special Maintenance								
Maintenance Personnel	40	0	25	65	1,834	0	375	2,210
Operating Personnel	14	0	0	14	261	0	0	261
Health Physics Personnel	11	0	0	11	228	0	0	228
Engineering Personnel	3	0	1	4	20	0	1	21
Supervisory Personnel	0	0	0	0	0	0	0	0
Total	68	0	26	94	2,343	0	377	2,720
Waste Processing								
Maintenance Personnel	0	0	0	0	0	0	0	0
Operating Personnel	11	0	2	13	142	0	102	245
Health Physics Personnel	8	0	0	8	92	0	0	92
Engineering Personnel	1	0	0	1	8	0	0	8
Supervisory Personnel	0	0	0	0	0	0	0	0
Total	20	0	2	22	242	0	102	345
Refueling								
Maintenance Personnel	25	0	4	29	183	0	6	189
Operating Personnel	1	0	0	1	2	0	0	2
Health Physics Personnel	6	0	0	6	26	0	0	26
Engineering Personnel	2	0	1	3	4	0	3	6
Supervisory Personnel	1	0	0	1	2	0	0	2
Total	35	0	5	40	216	0	9	225
Summary by Job Function								
Maintenance Personnel	175	0	102	277	28,158	0	4,350	32,508
Operating Personnel	137	0	7	144	12,141	0	1,499	13,640
Health Physics Personnel	78	0	0	78	9,246	0	0	9,246
Engineering Personnel	24	0	7	31	2,185	0	24	2,209
Supervisory Personnel	10	0	1	11	1,209	0	75	1,285
Grand Total	424	0	117	541	52,939	0	5,949	58,888

Note: Workers may be counted in more than one category.
Exposure totals are rounded numbers.

Attachment 2B

1999 Nine Mile Point - Unit #2 Description of Special Maintenance Activities

Job Description

Reactor Water Cleanup System Valtech Air Operated Valve Modifications

Condensate Demineralizer Resin Retention Element Replacement

Hydrogen Water Chemistry System Installation

Noble Metals Injection System Installation

Off-Gas System Hold-Up Piping Installation