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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

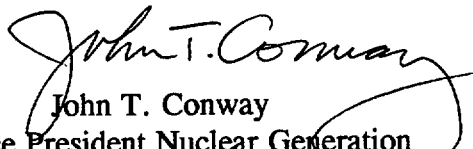
**Subject :**     *Annual Occupational Exposure Reports for Nine Mile Point Nuclear  
Station Unit 1 and Unit 2*

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 Improved Technical Specification 5.6.1. These 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, 2000 through December 31, 2000.

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

Sincerely,

  
John T. Conway  
Vice President Nuclear Generation

JTC/IAA/cld  
Enclosures

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

*IE56*

ATTACHMENT 1A

**Nine Mile Point Nuclear Station Unit # 1 DPR-63 2000 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
<b>Reactor Operations &amp; Surv.</b>								
Maintenance Personnel	0	0	0	0	0	0	0	0
Operating Personnel	29	0	0	29	3,339	0	0	3,339
Health Physics Personnel	4	0	0	4	43	0	0	43
Engineering Personnel	1	0	0	1	8	0	0	8
Supervisory Personnel	0	0	0	0	0	0	0	0
<b>Total</b>	<b>34</b>	<b>0</b>	<b>0</b>	<b>34</b>	<b>3,389</b>	<b>0</b>	<b>0</b>	<b>3,389</b>
<b>Routine Maintenance</b>								
Maintenance Personnel	75	0	116	191	11,100	0	6,958	18,058
Operating Personnel	48	0	1	49	3,710	0	1	3,711
Health Physics Personnel	39	0	8	47	5,247	0	357	5,604
Engineering Personnel	8	0	5	13	687	0	96	783
Supervisory Personnel	7	0	1	8	1,735	0	103	1,838
<b>Total</b>	<b>177</b>	<b>0</b>	<b>131</b>	<b>308</b>	<b>22,479</b>	<b>0</b>	<b>7,515</b>	<b>29,994</b>
<b>In-Service Inspection</b>								
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	2	2	0	0	3	3
Supervisory Personnel	0	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>
<b>Special Maintenance</b>								
Maintenance Personnel	31	0	40	71	728	0	1,075	1,803
Operating Personnel	19	0	0	19	202	0	0	202
Health Physics Personnel	13	0	0	13	253	0	0	253
Engineering Personnel	4	0	1	5	40	0	14	54
Supervisory Personnel	1	0	0	1	11	0	0	11
<b>Total</b>	<b>68</b>	<b>0</b>	<b>41</b>	<b>109</b>	<b>1,233</b>	<b>0</b>	<b>1,090</b>	<b>2,322</b>
<b>Waste Processing</b>								
Maintenance Personnel	9	0	4	13	246	0	308	555
Operating Personnel	9	0	3	12	1,209	0	395	1,604
Health Physics Personnel	18	0	1	19	928	0	45	973
Engineering Personnel	0	0	0	0	0	0	0	0
Supervisory Personnel	2	0	0	2	48	0	0	48
<b>Total</b>	<b>38</b>	<b>0</b>	<b>8</b>	<b>46</b>	<b>2,431</b>	<b>0</b>	<b>749</b>	<b>3,180</b>
<b>Refueling</b>								
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
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Summary by Job Function</b>								
Maintenance Personnel	115	0	160	275	12,075	0	8,341	20,416
Operating Personnel	105	0	4	109	8,459	0	396	8,855
Health Physics Personnel	74	0	9	83	6,472	0	402	6,873
Engineering Personnel	13	0	8	21	734	0	114	848
Supervisory Personnel	10	0	1	11	1,793	0	103	1,896
<b>Grand Total</b>	<b>317</b>	<b>0</b>	<b>182</b>	<b>499</b>	<b>29,532</b>	<b>0</b>	<b>9,356</b>	<b>38,888</b>

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

## **ATTACHMENT 1B**

### **2000 Nine Mile Point – Unit # 1 Description of Special Maintenance Activities**

#### **Job Description**

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**Startup Range/Intermediate Range Monitor Pre-Amplifier Modifications**

**Hydrogen Water Chemistry (HWC) Project**

**Noble Metals Application Project**

**Deterrent Barrier Modification**

**Replace 106 Valves and Associated Hydraulic Control Unit Work**

**12-Inch Strainer Installation Modification**

**ATTACHMENT 2A**

**Nine Mile Point Nuclear Station Unit # 2 NPF-69 2000 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
<b>Reactor Operations &amp; Surv.</b>								
Maintenance Personnel	12	0	8	20	53	0	57	110
Operating Personnel	52	0	1	53	3,346	0	8	3,354
Health Physics Personnel	7	0	1	8	41	0	68	109
Engineering Personnel	3	0	1	4	62	0	6	67
Supervisory Personnel	0	0	1	1	0	0	18	18
<b>Total</b>	<b>74</b>	<b>0</b>	<b>12</b>	<b>86</b>	<b>3,500</b>	<b>0</b>	<b>157</b>	<b>3,658</b>
<b>Routine Maintenance</b>								
Maintenance Personnel	122	0	362	484	29,641	0	66,259	95,900
Operating Personnel	80	0	4	84	11,819	0	1,147	12,966
Health Physics Personnel	53	0	25	78	11,565	0	4,633	16,198
Engineering Personnel	14	0	27	41	1,889	0	2,675	4,564
Supervisory Personnel	7	0	6	13	694	0	447	1,141
<b>Total</b>	<b>276</b>	<b>0</b>	<b>424</b>	<b>700</b>	<b>55,609</b>	<b>0</b>	<b>75,160</b>	<b>130,769</b>
<b>In-Service Inspection</b>								
Maintenance Personnel	5	0	125	130	109	0	16,811	16,920
Operating Personnel	1	0	0	1	6	0	0	6
Health Physics Personnel	5	0	2	7	20	0	12	32
Engineering Personnel	2	0	30	32	6	0	10,128	10,134
Supervisory Personnel	2	0	2	4	19	0	239	259
<b>Total</b>	<b>15</b>	<b>0</b>	<b>159</b>	<b>174</b>	<b>160</b>	<b>0</b>	<b>27,190</b>	<b>27,350</b>
<b>Special Maintenance</b>								
Maintenance Personnel	35	0	124	159	1,206	0	7,945	9,151
Operating Personnel	18	0	0	18	322	0	0	322
Health Physics Personnel	16	0	5	21	265	0	55	320
Engineering Personnel	5	0	19	24	80	0	1,214	1,294
Supervisory Personnel	3	0	2	5	51	0	168	220
<b>Total</b>	<b>77</b>	<b>0</b>	<b>150</b>	<b>227</b>	<b>1,924</b>	<b>0</b>	<b>9,383</b>	<b>11,306</b>
<b>Waste Processing</b>								
Maintenance Personnel	2	0	0	2	32	0	0	32
Operating Personnel	11	0	1	12	591	0	216	807
Health Physics Personnel	7	0	2	9	509	0	129	638
Engineering Personnel	0	0	0	0	0	0	0	0
Supervisory Personnel	0	0	0	0	0	0	0	0
<b>Total</b>	<b>20</b>	<b>0</b>	<b>3</b>	<b>23</b>	<b>1,132</b>	<b>0</b>	<b>345</b>	<b>1,477</b>
<b>Refueling</b>								
Maintenance Personnel	18	0	53	71	194	0	1,714	1,908
Operating Personnel	12	0	0	12	745	0	0	745
Health Physics Personnel	11	0	8	19	95	0	56	151
Engineering Personnel	2	0	1	3	10	0	33	43
Supervisory Personnel	2	0	1	3	132	0	20	153
<b>Total</b>	<b>45</b>	<b>0</b>	<b>63</b>	<b>108</b>	<b>1,176</b>	<b>0</b>	<b>1,824</b>	<b>3,000</b>
<b>Summary by Job Function</b>								
Maintenance Personnel	194	0	672	866	31,235	0	92,786	124,021
Operating Personnel	174	0	6	180	16,828	0	1,371	18,199
Health Physics Personnel	99	0	43	142	12,495	0	4,954	17,449
Engineering Personnel	26	0	78	104	2,047	0	14,055	16,102
Supervisory Personnel	14	0	12	26	897	0	892	1,789
<b>Grand Total</b>	<b>507</b>	<b>0</b>	<b>811</b>	<b>1,318</b>	<b>63,502</b>	<b>0</b>	<b>114,059</b>	<b>177,560</b>

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

## **ATTACHMENT 2B**

### **2000 Nine Mile Point – Unit # 2 Description of Special Maintenance Activities**

#### **Job Description**

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Hydrogen Water Chemistry System Installation and Testing Project

Noble Metals Injection/Application Project

Liquid Radwaste System Modifications (THERMEX)

Reactor Building Pressure Locking Modification

Scram Discharge Volume Line Modification

Feedwater Nozzle (N4) Weld Overlay

Reactor Core Isolation Cooling Keep-Fill Modification