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CONTROL NO: 7213

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FROM: Niagara Mohawk Power Corporation Syracuse, New York 13202 Rudolph R. Schneider			DATE OF DOC 9-14-73	DATE REC'D 9-27-73	LTR x	MEMO	RPT	OTHER
TO: John F. O'Leary			ORIG 1 signed	CC 39	OTHER	SENT AEC PDR <u>X</u> SENT LOCAL PDR <u>X</u>		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 40	DOCKET NO: 50-220			

DESCRIPTION:

Ltr trans the following:

ENCLOSURES:

ADDENDUM No. 1 to Semi-Annual Report of Operations for the Nine Mile Point Unit # 1 covering period 1-1-73 thru 6-30-73.

ACKNOWLEDGED

DO NOT REMOVE

PLANT NAME: Nine Mile Point Unit # 1

(40 cys rec'd)

FOR ACTION/INFORMATION 9-28-73 fod

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OGC, ROOM P-506A	SCHROEDER	GAMMILL	✓DIGGS (L)	SALTZMAN
✓MUNTZING/STAFF	✓MACCARY	✓KASTNER	GEARIN (L)	
CASE	KNIGHT	BALLARD	GOULBOURNE (L)	<u>PLANS</u>
GIAMBUSO	PAWLICKI	SPANGLER	LEE (L)	MCDONALD
BOYD	SHAO		MAIGRET (L)	DUBE
MOORE (L)(BWR)	✓STELLO	<u>ENVIRO</u>	SERVICE (L)	
DEYOUNG(L)(PWR)	HOUSTON	MULLER	SHEPPARD (E)	<u>INFO</u>
SKOVHOLT (L)	NOVAK	DICKER	SMITH (L)	C. MILES
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NIAGARA MOHAWK POWER CORPORATION

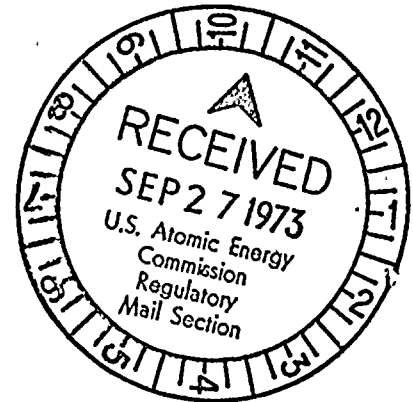
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SYRACUSE, N.Y. 13202

September 14, 1973

Regulatory

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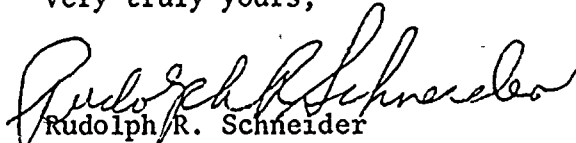


Mr. John F. O'Leary
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United States Atomic Energy Commission
Washington, D. C. 20545

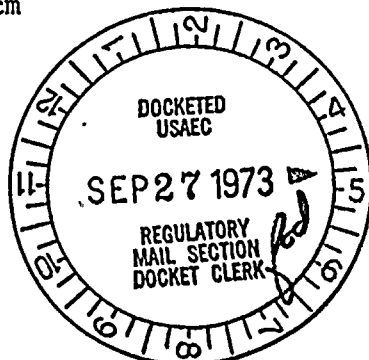
Re: Nine Mile Point Nuclear Station, Unit #1
Provisional Operating License: DPR-17
Docket No.: 50-220

Enclosed is Addendum dated September 13, 1973 to
the Semiannual Report of Operation for the Nine Mile Point Nuclear
Station, Unit #1 covering the period January 1, 1973 through June
30, 1973. This addendum includes an addition to the Instrument
and Control Summary and typographical corrections.

Very truly yours,


Rudolph R. Schneider
Vice President - Electric Operations

RRS:cm



7213

NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT NUCLEAR STATION UNIT 1

SEMIANNUAL REPORT OF OPERATION
JANUARY 1, 1973 THROUGH JUNE 30, 1973

ADDENDUM 1

Please substitute the attached pages
14, 24, 25 and 41 marked Addendum 9/13/73 for
the corresponding pages in your copy of the
Eighth Semiannual Report of Operation, Nine Mile
Point Nuclear Station Unit 1.

Thomas J. Perkins
Thomas J. Perkins
Station Superintendent

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF THE HISTORY OF ARTS

AND ARCHITECTURE

OFFICE OF THE DEAN

CHICAGO, ILL.

TO THE PRESIDENT OF THE UNIVERSITY OF CHICAGO

FROM THE DEAN OF THE DEPARTMENT OF THE HISTORY OF ARTS

AND ARCHITECTURE

CHICAGO, ILL.

DECEMBER 1, 1911

NINE MILE POINT NUCLEAR STATION UNIT NO. 1

INSTRUMENT AND CONTROL SUMMARY

JANUARY THROUGH JUNE 1973

DATE	SYSTEM	COMPONENT	NATURE OF MAINTENANCE	EFFECT ON SAFE OPERATION OF THE REACTOR	CAUSE OF MALFUNCTION	RESULTS OF MALFUNCTION	ACTION TAKEN TO PRECLUDE RECURRENCE	TIME FOR COMPLETION
Apr. 20	Containment Leakage	Drywell Equipment Drain Lines	Revision	None	None	None	Added thermocouples to all drain lines to indicate leakage	2 Wks.
Apr. 24	L.P.R.M.	Detectors	New Installation	More complete picture of Reactor Flux	Age & Moisture	Bad Detectors	Install New Detectors	3 Wks.
May 2 -14-	Aux. Power	#167 M-G Set	Corrective	Rx. Protection System Bus	Defective Contacts	Trip out on time delay	New Relay	3 Hr.
May 6	Turbine	Moog Valve	Revision	Manual/Auto Control of turbine	None	Vibration Succceptable	Added two set screws to stop slippage	1/2 Day
May 7	Turbine	E.P.R.	Annual Calibration	Controls Turbine	None	Improper Turbine Control	Annual Calibration	1 Day
* May 7	R.P.S.	RE18A Lo-Lo Rx. Level	Functional Test	None (Outage)	Drift	None	Rechecked calibration on 5-10-73	2 Hr.
May 10	Control Rod Drive	#11 Pump Thermo-couple	Corrective	Loss of C.R.D. Press on Pump Burnout	Broken Thermocouple	No indication of bearing Temperature	Replace T/C	1 Hr
May 14	P.R.M.	Main Steam Rad. Monitors	Calibration	Faulty Steam Line Rad. Reading	Instrument Drift	Faulty Reading	Quarterly Calibrations	2 Days
May 20	Rx. Vessel	Electromatic Relief Valves	Calibration Check	Pressure Relief Capability	Instrument Drift	Lower Press Relief Setting	Annual Calibrations	3 Days
May 26	Main Steam	I.V. Limit Switches	Revision	Causes isolation of Main Stm.lines	Poor Mounting	Erratic operation of switches	Repositioned switches	2 Days

*Addendum 9-13-73

TABLE 1

SUMMARY OF STATION OPERATIONSJANUARY 1, 1973 THROUGH JUNE 30, 1973

PERIOD	<u>GENERATION IN MW HOURS</u>			<u>HOURS</u>		<u>RATES</u>					
	<u>Gross Thermal</u>	<u>Gross Electrical</u>	<u>Net Electrical</u>	<u>On Load</u>	<u>Total Hr. this Period</u>	<u>Reactor Equiv. Full Power Hrs (a)</u>	<u>Number of Criticals</u>	<u>Number of Scrams</u>	<u>Availability Factor %</u>	<u>Capacity Factor % (d)</u>	<u>Load Factor %</u>
January	1,300,937	442,780	430,156	744.0	744	703.2	0	0	100.0 (c)	94.8	96.3
February	771,137	257,733	249,277	467.8	672	416.8	15 (b)	1	69.6	60.8	63.4
March	1,304,479	441,782	429,418	744.0	744	705.1	0	0	100.0	94.6	96.8
April	423,566	139,852	135,268	247.7	720	228.9	2	2	34.4	30.8	32.0
May	0	0	0	0	743	0	0	1	0	0	0
June	392,683	126,869	122,604	345.2	720	212.2	2	1	47.9	27.9	35.7
6 MONTH TOTAL	4,192,802	1,409,016	1,366,864	2548.7	4343	2266.2	19	5	58.7	51.5	54.0
1969	294,997	70,967	63,505	473.3	1464	126.8	111	17	100.0	35.2	69.7
1970	5,940,025	1,917,708	1,857,134	4079.6	8760	3832.2	32	17	48.9	42.4	41.7
1971	9,145,980	3,032,972	2,937,369	5962.6	8760	5360.1	88	13	68.1	63.4	66.1
1972	10,010,627	3,344,721	3,242,306	6167.4	8784	5410.6	49	5	70.2	60.5	60.0

TOTALS THRU

JUNE/73(e) 29,584,431 9,775,384 9,467,178 19231.6 32111 15991.5 299 57 59.9 48.3 47.9

(a) Based on 1538 MWt prior to July 1971 and 1850 MWt from July 1971 (b) Includes criticals for training

(c) From December 14, 1969 - Commercial Operation (d) 500 MWe Prior to July 1971

(e) Cumulative rates are based on total Unit #1 Operating Hours, 610 MWe from December 1971

610 MWe net capacity rating, 615 MWe net max. hr. generation, and 1850 MWt.

TABLE II

REACTOR SHUTDOWNS AND SCRAMSPERIOD JANUARY 1, 1973 THRU JUNE 30, 1973

<u>DATE</u>	<u>OPERATION</u>	<u>SUMMARY OF OUTAGE CAUSE</u>	<u>GENERATOR OFF LOAD</u>	<u>HOURS</u>	<u>REACTOR SUBCRITICAL</u>
1. Feb. 9	Scram	Generator trip on loss of excitation. Generator available 2/12/73 @ 08:00 Remainder of outage to complete replacement of control rod drives & SRM's. Reactor start-up Feb.15 (Rx.critical @ 0120) Generator on line 2/15/73 @ 17:13	151.2		135.2
2. Feb. 23	Shutdown	A.E.C. Examination for Operator Licensing	53.0		32.9
3. Apr. 8	Scram	Turbine trip by Emergency Governor	17.1		6.8
4. Apr. 11	Shutdown	Repack #12 Recirc. Pump Instrument Valve & Union On #13 Reactor Recirc. Cooling Water Piping.	47.8		24.0
5. Apr. 14	Scram	Annual Refueling. Turbine was tripped to complete full power plant testing.	1517.9		1394.8
6. June 12	Shutdown	Shutdown to repair #113 Electromatic Relief Valve	--		46.0
7. June 15	Scram	Low Vacuum	--		4.4
8. June 16	Turbine-Generator Shutdown Only	Generator off line. Reactor remained super-critical. Turbine was removed from service to adjust an oil deflector that was rubbing.	8.3		0

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES

1954

RESEARCH REPORT

NO. 1

BY

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AND

ROBERT H. FORT

AND

JOHN H. HARRIS

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JOHN L. KATZ

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JOHN M. LADD

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JOHN T. SCHUBERT

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JOHN U. SIMMONS

TABLE XVI
RADIATION EXPOSURE ACCORDING TO DUTY FUNCTION
JANUARY THROUGH JUNE 1973

<u>DUTY FUNCTION</u>	<u>MAN REM</u>	<u>NUMBER OF MEN INCLUDED</u>
Regular Station Employees:		
Routine Operation & Surveillance	16.97	26
Shutdown Operation & Surveillance	33.25	26
Routine Maintenance	19.92	30
Shutdown Maintenance	58.04	30
Routine Radiation Protection Coverage	4.02	8
Shutdown Radiation Protection Coverage	8.79	8
Supervision	22.12	15
NMPC Personnel on Temp. Duty:		
Shutdown Maintenance	118.28	76
Contractor Personnel:		
Shutdown Maintenance	97.82	94

NOTE: Only individuals with exposure >500 mrem for 6 month period included.

