

NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

300 ERIE BOULEVARD WEST  
SYRACUSE, N. Y. 13202

December 5, 1973



Mr. Donald J. Skovholt  
Assistant Director for Reactor Operations  
Division of Reactor Licensing  
United States Atomic Energy Commission  
Washington, D. C. 20545

Re: Provisional Operating License: DPR-17  
Docket No.: 50-220

Dear Mr. Skovholt:

This letter references yours of October 1, 1973 in which you requested a scheduled inspection of the accessible Bergen-Paterson snubbers every 30 days. The program you have requested has been implemented and is being performed by the Plant Maintenance Department. Although certain misunderstandings about the frequency of inspection was incurred initially this has been rectified as follows:

1. All Bergen-Paterson snubbers will be inspected once each 30 days.
  - a. If defects are found they will be reported in accordance with Section 6.3 Technical Specifications.
  - b. A written report will be furnished within 15 days after the inspection if all snubbers are satisfactory.
2. The inspection will cover:
  - a. Condition of seals determination - a visual inspection of each hydraulic shock absorber will be performed. Signs of leakage will indicate degradation of the seals.
  - b. The overall integrity of the shock absorber assembly will be verified by visual inspection.
3. Written surveillance procedures will be implemented and a check-off sheet used to record condition of each snubber. These will be filled and available for review.

Enclosure 1 to this report denotes the serial number of the snubbers that will be inspected as well as their location.

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COPY SENT REGION 1

Mr. Donald J. Skovholt  
U.S. Atomic Energy Commission

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December 5, 1973

The snubbers have been inspected twice in the 40 days since my October 26, 1973 submittal concerning the Drywell snubber inspections. In both cases no deterioration of seals or other degradation of the assembly was noted. The inspection dates were October 30, 1973 and December 4, 1973. The next scheduled inspection is on January 2, 1974.

Very truly yours,

Original Signed by - R. R. Schneider

Rudolph R. Schneider  
Vice President - Electric Operations

RRS:cm

Enclosure

cc: James P. O'Reilly  
RO:I

ENCLOSURE 1

BERGEN-PATERSON "SNUBBERS"

<u>SYSTEM</u>	<u>MODEL NO.</u>	<u>SERIAL NO.</u>	<u>LOCATION</u>
Emergency Cooling System	HSSA - 30	F 84806-3 A	340' Steam Supply
Emergency Cooling System	HSSA - 30	F 84806-3 B	340' Steam Supply
Emergency Cooling System	HSSA - 30	F 84806-3 C	340' Steam Supply
Emergency Cooling System	HSSA - 30	F 84806-3 D	340' Steam Supply
Emergency Cooling System	HSSA - 30	F 84806-3 E	340' Steam Supply
Emergency Cooling System	HSSA - 30	F 84806-3 F	340' Steam Supply
Emergency Cooling System	HSSA - 30	F 84806-3 G	340' Steam Supply
Emergency Cooling System	HSSA - 30	F 84806-3 H	340' Steam Supply
Emergency Cooling System	HSSA - 30	F 84806-3 I	336' Steam Supply
Emergency Cooling System	HSSA - 30	F 84806-3 J	336' Steam Supply

NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

300 ERIE BOULEVARD WEST  
SYRACUSE, N. Y. 13202

October 26, 1973

Mr. Donald J. Skovholt  
Assistant Director for Reactor Operations  
Division of Reactor Licensing  
United States Atomic Energy Commission  
Washington, D. C. 20545



Re: Provisional Operating License: DPR-17  
Docket No.: 50-220

Dear Mr. Skovholt:

On October 18, 1973, the Nine Mile Point Unit #1 reactor was shut down, the result of an increasing rate of unidentifiable leakage in the drywell.

The shutdown, which occurred during the routine RO:I AEC Inspection, provided the opportunity to perform the following:

1. Shutdown Margin Demonstrations - in accordance with your letter<sup>1</sup> dated September 25, 1973.
2. Inspections of hydraulic shock suppressors in response to your request on October 1, 1973<sup>2</sup> and RO:I telephoned request<sup>3</sup> on July 26, 1973.
3. The leak test of the manhole cover on the drywell which was committed in our letter of October 10, 1973<sup>4</sup> in response to your letter of September 28, 1973<sup>5</sup>.

On August 17, 1973 leakage into the Drywell Floor Drain Tank (DWFDT) had increased to 2.5 gpm. Reactor Recirculation Pump 12 (RRP 12) was the immediate suspect as equalization was occurring between the low and high pressure seal. Once RRP 12 was secured the DWFDT leakage decreased to less than .25 gpm.

On October 1, 1973, with RRP 12 still secure leakage again was gradually increasing to the DWFDT. With leakage approaching 2.8 gpm on October 6, 1973 Station Supervision ordered increased surveillance on the DWFDT leakage. Although Technical Specifications call for a check of leakage only once per day, it was deemed necessary to continually plot leakage each hour to note trends or other indications which could provide an insight into the source of leakage. The Radiation Protection and Chemistry section had already determined that the major percentage of leaking liquid was not reactor coolant. On October 18, 1973 with DWFDT leakage indicating approximately 4.5 gpm, Plant Supervision ordered the reactor shutdown. During the subsequent drywell inspection the source of leakage was identified as steam leaks thru the valve packing on two electromatic relief systems blocking valves and a small leak on RRP 12 seal.

*Sup of  
50-220-1008*

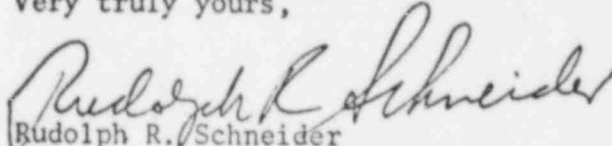
October 26, 1973

During the shutdown and at Xenon free condition the shutdown margin demonstrations were performed. All control rods were verified to meet the minimum shutdown margin of 0.0075 delta k/k at cold, xenon free, operating samarium conditions. A complete report including responses to your question is being readied and will be sent to you prior to December 4, 1973 as outlined in your letter<sup>1</sup>.

An inspection of the hydraulic shock suppressors was made during the shutdown. Enclosure 1 to this letter details the manufacturer, number of snubbers, identification of low fluid reservoirs, and corrective actions taken. In summary, no defective seals were found and no shock suppressors were found to be void of fluid. A certain amount of leakage was found from a few suppressors, the result of loose reservoir connections.

Also during the shutdown, the manhole cover on the drywell was leak tested. The penetration was pressurized to 35 psig and the decay in pressure noted over one half hour. No loss of pressure was observed.

Very truly yours,

  
Rudolph R. Schneider  
Vice President - Electric Operations

RRS:cm

1. Ltr. Skovholt - Raymond Sept. 25, 1973
2. Ltr. Skovholt - Raymond Oct. 1, 1973
3. Tph. Cantrell - Perkins July 26, 1973
4. Ltr. Schneider- O'Reilly Oct. 10, 1973
5. Ltr. Skovholt - Schneider Sept. 28, 1973

ENCLOSURE 1

HYDRAULIC SHOCK SUPPRESSOR

1. Manufacturer: All Grinnell Manufacturer
2. Number of Snubbers: 110                      Fluid SF-96-1000
3. Where fluid was added the connection that was leaking was tightened.

<u>4.</u>	<u>Serial #</u>	<u>System</u>	<u>Condition</u>	<u>Corrective Action</u>
	1367- D2	* Elec.Vent Lines	Good	
	1438- D2	Elec.Vent Lines	Good	
	1188- D2	Elec.Vent Lines	Good	
	1195- D2	Elec.Vent Lines	Good	
	1463- D2	Elec.Vent Lines	Good	
	1372- D2	Elec.Vent Lines	Good	
	1340- D2	Elec.Vent Lines	Good	
	1207- D2	Elec.Vent Lines	Good	
	1459- D2	Elec.Vent Lines	Good	
	1200- D2	Elec.Vent Lines	Good	
	1454- D2	Elec.Vent Lines	Good	
	1491- D3	Elec.Vent Lines	Good	
	1344	Elec.Vent Lines	Good	
	1450- D2	Elec.Vent Lines	Good	
	1488- D3	Elec.Vent Lines	Good	
	1495- D3	Elec.Vent Lines	Low oil in Res.	Added Fluid
	1026- D3	Elec.Vent Lines	Good	
	1028- D3	Elec.Vent Lines	Good	
	1494- D3	Elec.Vent Lines	Low oil in Res.	Added Fluid
	1217- D2	Elec.Vent Lines	Good	
	1350- D2	Elec.Vent Lines	Good	
	1379- D2	Elec.Vent Lines	Good	
	1215- D2	Elec.Vent Lines	Good	
	1349- D2	Elec.Vent Lines	Good	
	1359- D2	Elec.Vent Lines	Good	
			Good	
	381	Rx. Recir. System	Low oil in Res.	Added oil
	373	Rx. Recir. System	Good	
	388	Rx. Recir. System	Good	
	384	Rx. Recir. System	Low oil in Res.	Added oil
	390	Rx. Recir. System	Low Oil	Added oil
	415	Rx. Recir. System	Low oil	Added oil
	413	Rx. Recir. System	Low oil	Added oil
	379	Rx. Recir. System	Low oil	Added oil
	392	Rx. Recir. System	Low oil	Added oil
	378	Rx. Recir. System	Low oil	Added oil
	1088	Rx. Recir. System	Good	
	1015	Rx. Recir. System	Good	
	1016	Rx. Recir. System	Good	
	1004	Rx. Recir. System	Good	
	1010	Rx. Recir. System	Good	
	1005	Rx. Recir. System	Good	

\* Electromatic relief discharge piping to the Torus.



ENCLOSURE 1

<u>Serial #</u>	<u>System</u>	<u>Condition</u>	<u>Corrective Action</u>
124	Rx. Recirc. System	Good	
140	Rx. Recirc. System	Good	
118	Rx. Recirc. System	Good	
137	Rx. Recirc. System	Good	
86	Rx. Recirc. System	Good	
86	Rx. Recirc. System	Good	
101	Rx. Recirc. System	Good	
136	Rx. Recirc. System	Good	
120	Rx. Recirc. System	Good	
141	Rx. Recirc. System	Good	
383	Rx. Recirc. System	Good	
389	Rx. Recirc. System	Good	
375	Rx. Recirc. System	Good	
418	Rx. Recirc. System	Good	
391	Rx. Recirc. System	Good	
1017	Rx. Recirc. System	Good	
1006	Rx. Recirc. System	Good	
1007	Rx. Recirc. System	Good	
1014	Rx. Recirc. System	Good	
1012	Rx. Recirc. System	Good	
1011	Rx. Recirc. System	Good	
	Rx. Recirc. System	Good	
1008	Rx. Recirc. System	Good	
1025	Rx. Recirc. System	Good	
1022	Rx. Recirc. System	Good	
40-SC-47	Core Spray System	Good	
40-SC-10	Core Spray System	Good	
1760	Core Spray System	Good	
40-SC-8	Core Spray System	Good	
40-SC-7	Core Spray System	Good	
2582	Core Spray System	Good	
40-SC-28	Core Spray System	Good	
40-SC-27	Core Spray System	Good	
40-SC-26	Core Spray System	Good	
40-SC-25	Core Spray System	Good	
1368	Main Steam	Good	
1369	Main Steam	Good	
	Main Steam	Good	
	Main Steam	Good	
1367	Main Steam	Good	
1370	Main Steam	Good	
	Main Steam	Good	
	Main Steam	Good	
31-SC-6	Feedwater System	Good	
31-SC-3	Feedwater System	Low oil	Added oil
1760	Feedwater System	Good	
31-SC-5	Feedwater System	Low oil	Added oil
31-SC-4	Feedwater System	Low oil	Added oil
1761	Feedwater System	Good	
2189	Clean-Up System	Good	
2370	Clean-Up System	Good	
2293	Clean-Up System	Good	
1703	Clean-Up System	Good	
1789	Clean-Up System	Good	

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ENCLOSURE 1

<u>Serial #</u>	<u>System</u>	<u>Condition</u>	<u>Corrective Action</u>
2167	Clean-Up Discharge	Low oil	Added oil
29-SC-3	Clean-Up Discharge	Good	
2189	Shutdown Cooling Suct.	Good	
2164	Shutdown Cooling Suct.	Good	
2190	Shutdown Cooling Disc.	Good	
2176	Emerg.Cond.Return	Low oil	Added oil
2182	Emerg.Cond.Return	Good	
1219- D2	Emerg.Cond.Return	Good	
21-27	Emerg.Cond.Return	Good	
2129	Emerg.Cond.Return	Good	
2126	Emerg.Cond.Return	Good	
39-SC-15	Emerg.Cond.Return	Good	
2128	Emerg.Cond.Return	Good	
2227	High Press Flange Leakoff	Good	

5. Most of the leaks were found at the reservoir end caps. These were tightened and where necessary teflon tape was used in connections.

In general, there were no inoperable hydraulic shock suppressors.