

UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D. C. 20555

NIAGARA MOHAWK POWER CORPORATION

DOCKET NO. 50-220

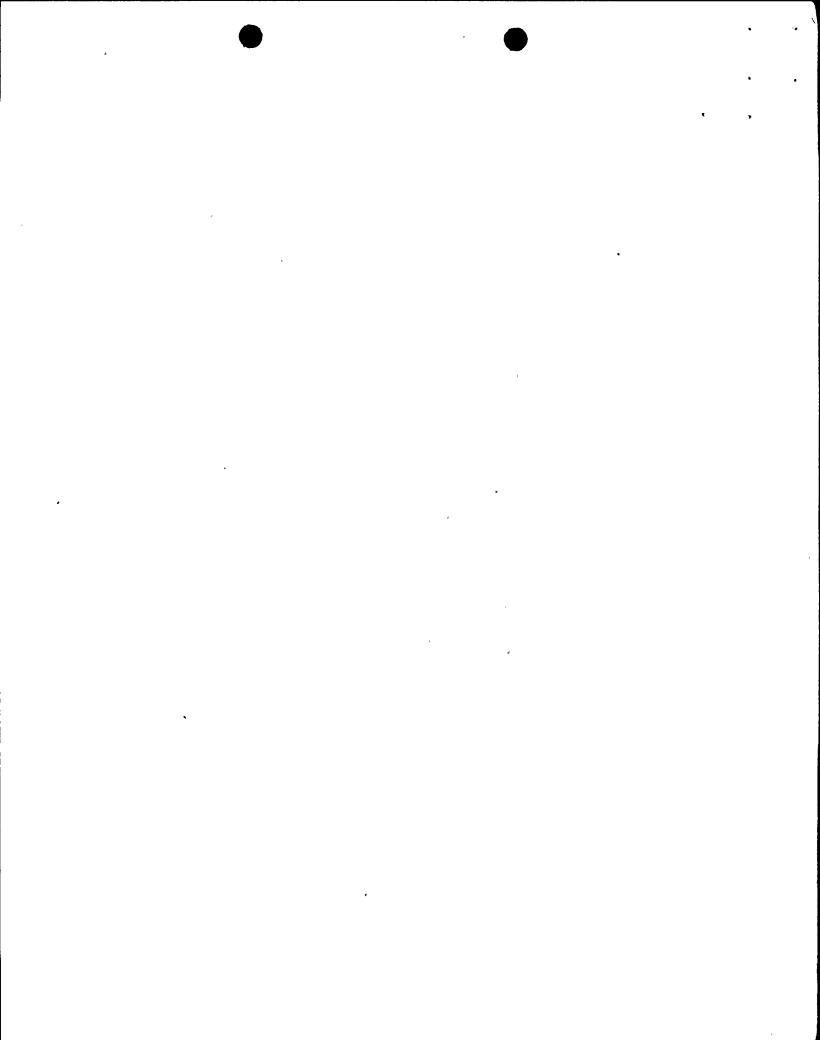
NINE MILE POINT NUCLEAR STATION, UNIT NO. 1

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 35 License No. DPR-63

- 1. The Nuclear Regulatory Commission (the Commission) has found that:
 - A. The application for amendment by Niagara Mohawk Power Corporation (the licensee) dated August 29, 1979, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
 - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
 - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
 - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
 - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
- Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment and paragraph 2.C.(2) of Facility License No. DPR-63 is hereby amended to read as follows:
 - (2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 35, are hereby incorporated in the license. The licensee shall operate the facility in accordance with the Technical Specifications.



3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

Thomas & Appolito, Chief
Operating Reactors Branch #3
Division of Operating Reactors

Attachment: Changes to the Technical Specifications

Dated: October 9, 1979

•				•	
				,	
		•			
•					
			•		
	'				
				,	

ATTACHMENT TO LICENSE AMENDMENT NO. 35

FACILITY OPERATING LICENSE NO. DPR-63

DOCKET NO. 50-220

Revise Appendix B by removing the following pages and replacing with revised pages. Marginal lines indicate area of change.

i ii

10

51 61

			_	
	•			
	•			
			•	,
				-
			•	
			•	
			•	
•			•	
	A STATE OF THE STA		<u>\$</u>	
	•			
1			*	
	•			
	•		·	
			v	
				•
				•
	•			
		_		

.TABLE OF CONTENTS

		•	•	Page
	Tabl	e of Co	ontents	· 1
•	List	of Fig	gures	iii
	List	of Tal	bles	iv
1.0	DEFI	NITIONS	<u>S</u>	,1.
	1.2 1.3 1.4 1.5 1.6	Major Operat Equipm Instru Circul Prior	or Operating Conditions Refueling Outage ting Cycle nent Status ument Test Procedures lating Water Heat Treatments to Dilution nt Lake Temperature	1 1 2 2 3 3
2.0	LIMI	TING CO	ONDITIONS FOR OPERATION	4
•	2.1	Therma	17	4
	٠	2.1.2 2.1.3 2.1.4	Maximum AT Maximum Discharge Temperature - Not Applicable Maximum BTU Per Hour - Not Applicable Rate of Change of Discharge Temperature Heat Treatment of Circulating Water System	4 5 5 6 7
	2.2	Hydrau Chemic	nlic - Not Applicable	9 10
	•	2.3.2	Treatment of Main Condenser Cooling Water Corrosion Inhibitors Suspended and Dissolved Solids pH and Conductivity	10 11 14 15
	2.4	Radioa	ctive Discharges	16
		2.4.1	Specifications for Liquid Waste Effluents Specifications for Liquid Waste Sampling and	17
		2.4.3	Monitoring Specifications for Gaseous Waste Effluents	18 24 29

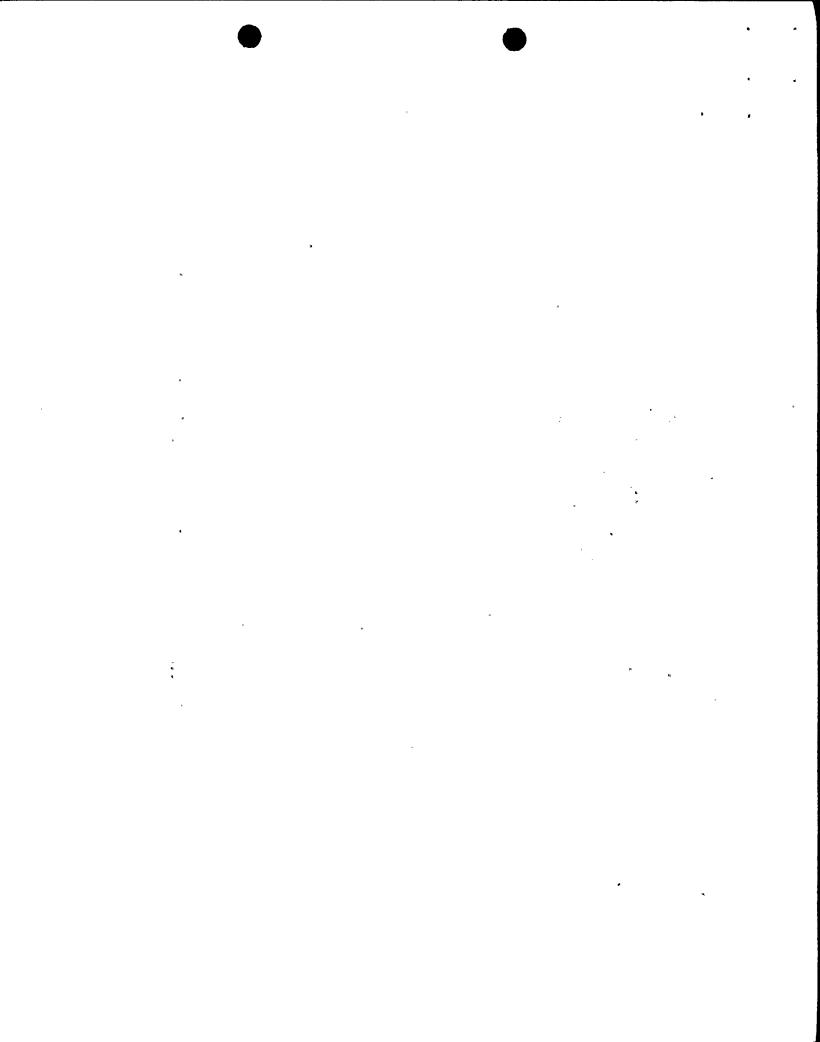


TABLE OF CONTENTS

(Continued)

			<u>Page</u>
		2.4.5 Specifications for Solid Waste Handling and Disposal	36
3.0	ENVI	RONMENTAL SURVEILLANCE	37
	3.1	Nonradiological Surveillance	37
		3.1.1 Meteorological Monitoring 3.1.2 Biotic	38 41
	3.2	Radiological Environmental Monitoring	47
4.0	SPEC	IAL SURVEILLANCE AND STUDY ACTIVITIES	51
5.0	ADMI	NISTRATIVE CONTROLS	52
	5.3	Responsibility Organization Review and Audit	52 52 52
	5.4 5.5 5.6	Operation is Exceeded Procedures	53 53 54
		5.6.1 Routine Reports 5.6.2 Nonroutine Reports 5.6.3 Changes in Environmental Technical Specifications	54 55 61
	5.7 5.8	Records Retention Special Requirements	62 . 63
6.0	REFE	RENCES	65

				,		•	•
						•	
•							
	·				•		
		· ·					
,				F			-
					r		
				•			
				ı			
3	r.		- -				
			-				
	,						
			1				

2.3 Chemical

2.3.1 | Treatment of Main Condenser Cooling Water

OBJECTIVE

The purpose of this Specification is to protect the quality and purity of Lake Ontario waters.

SPECIFICATION

A special 30 day study for the treatment of the main condenser cooling water shall be limited to a total of 10 parts per million (ppm, by volume) of chemical cleaning agent and microbio dispersant. All chemical cleaning agents and microbio dispersants shall by approved by the U. S. Environmental Protection Agency and the U. S. Nuclear Regulatory Commission prior to use.

MONITORING REQUIREMENT

Prior to injecting chemical cleaning agents or microbio dispersants, the flow rate of the main condenser cooling water shall be determined. A calculation shall then be performed to determine the maximum amount of chemical and/or microbio dispersant which can be applied without exceeding the specification of 10 ppm. All applications of dispersant chemicals shall be measured and recorded to verify compliance with this Specification.

BASES

Addition of no more than 10 ppm of chemical cleaning agents or microbio dispersants will not adversely affect the water of Lake Ontario. Therefore, adherence to this Specification shall ensure that lake water quality is not jeopardized by the injection of condenser cooling water cleaning chemicals.

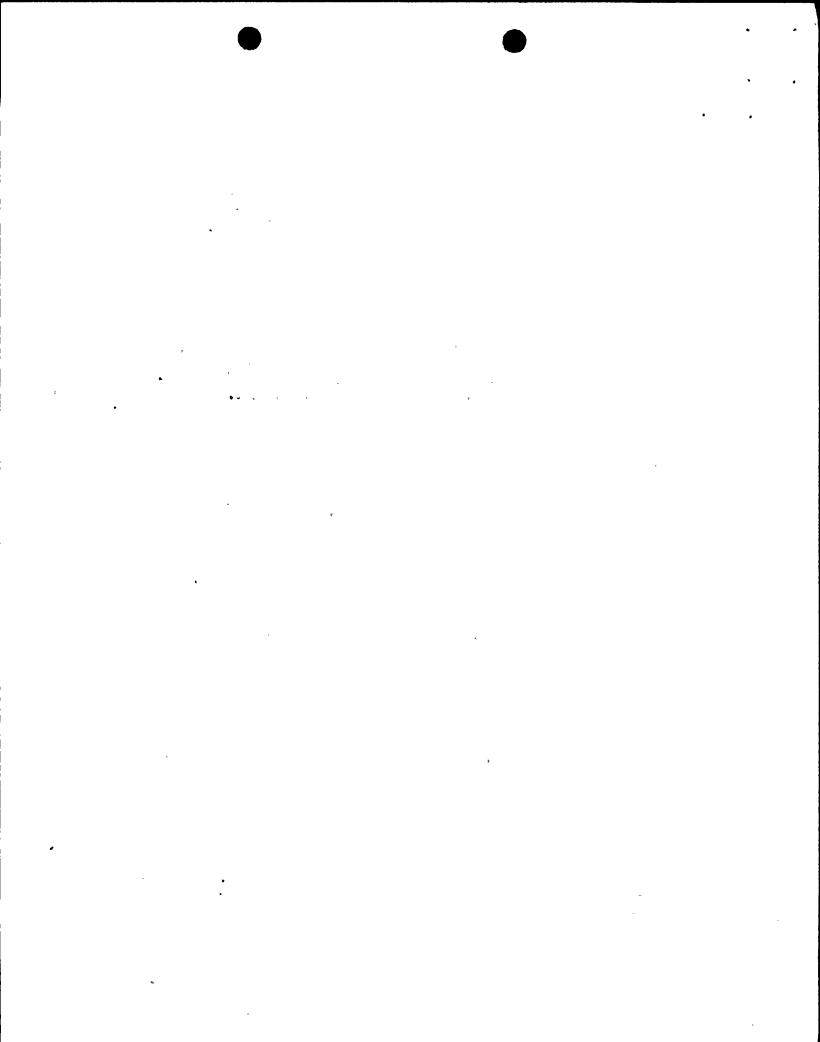
The Monitoring Requirement will verify compliance with this Specification.

		,	
et e e e	,		
	4		•
,			
	-		

4.0 SPECIAL SURVEILLANCE AND STUDY ACTIVITIES

In consonance with Section 2.3.1, "Chemical - Treatment of Main Condenser Cooling Water," a special study may be conducted for a thirty day period. Test results will be submitted to EPA Region II, NYSDEC, and NRC for subsequent evaluation. The two products approved for test are Nalsperse 7348 and Nalco 7388 manufactured by the Nalco Chemical Company.

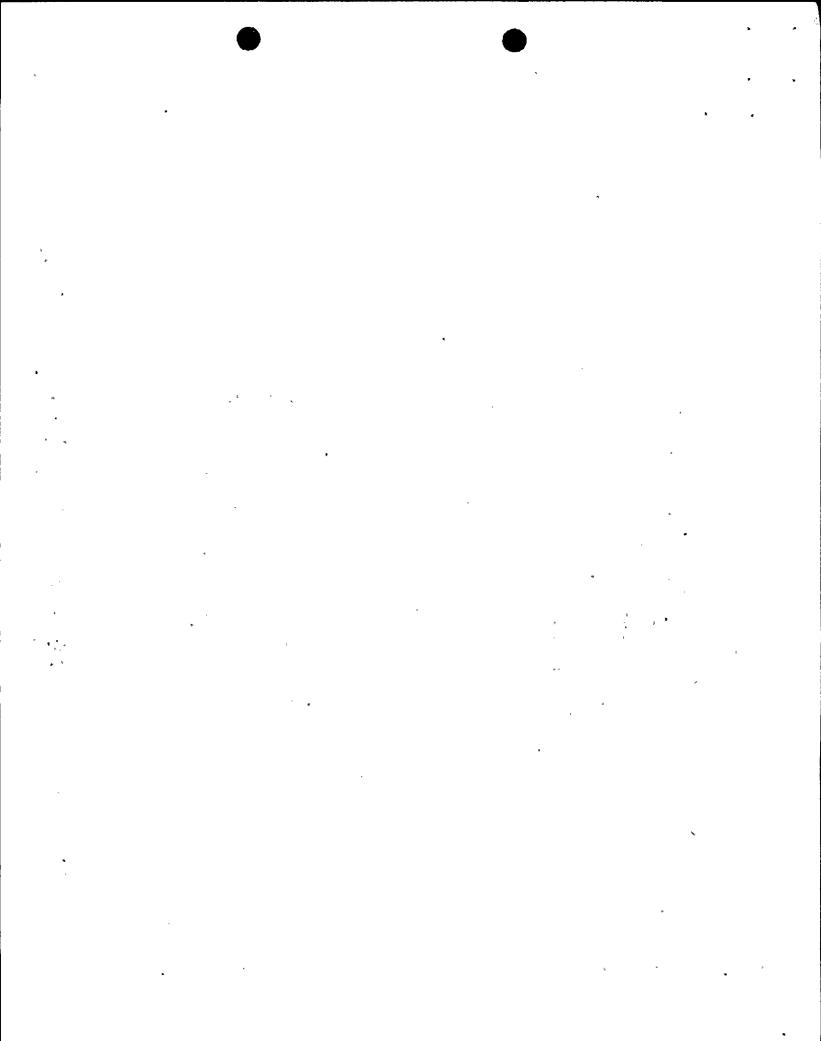
An Environmental Impact Assessment will be written after the subject test has been concluded, evaluating the impact associated with the use of the aforementioned biocides to control condenser fouling. This review and evaluation will determine the acceptability of use on a long term basis.



5.6.3 Changes in Environmental Technical Specifications

- a. A report shall be made to the NRC prior to implementation of a change in plant design, in plant operation, or in procedures described in Section 5.5 if the change would have a significant effect on the environment or involves an environmental matter or question not previously reviewed and evaluated by the NRC. The report shall include a description and evaluation of the change and a supporting benefit-cost analysis.
- b. Request for changes in environmental Technical Specifications shall be submitted to the Director, Office of Nuclear Reactor Regulation, for review and authorization. The request shall include an evaluation of the environmental impact of the proposed change and a supporting benefit-cost analysis.(1)

⁽¹⁾ In consonance with Section 2.3.1, "Chemical - Treatment of Main Condenser Cooling Water," a special study may be conducted for a thirty day period. Test results will be submitted to EPA Region II, NYSDEC, and NRC for subsequent evaluation. The two products approved for test are Nalsperse 7348 and Nalco 7388 manufactured by the Nalco Chemical Company.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION II
26 FEDERAL PLAZA
NEW YORK, NEW YORK 10007

August 14, 1979

Mr. J. M. Toennies
Environmental Affairs Director
Niagara Mohawk Power Corporation
300 Erie Boulevard West
Syracuse, New York 13202

Re: NPDES Permit No. NY0001015 Nine Mile Nuclear Station Unit 1

Dear Mr. Toennies:

Reference is made to your July 27, 1979 letter to Mr. Richard A. Baker concerning the control of fouling conditions on the cooling water side of the Nine Mile Point Unit 1 main surface condensers.

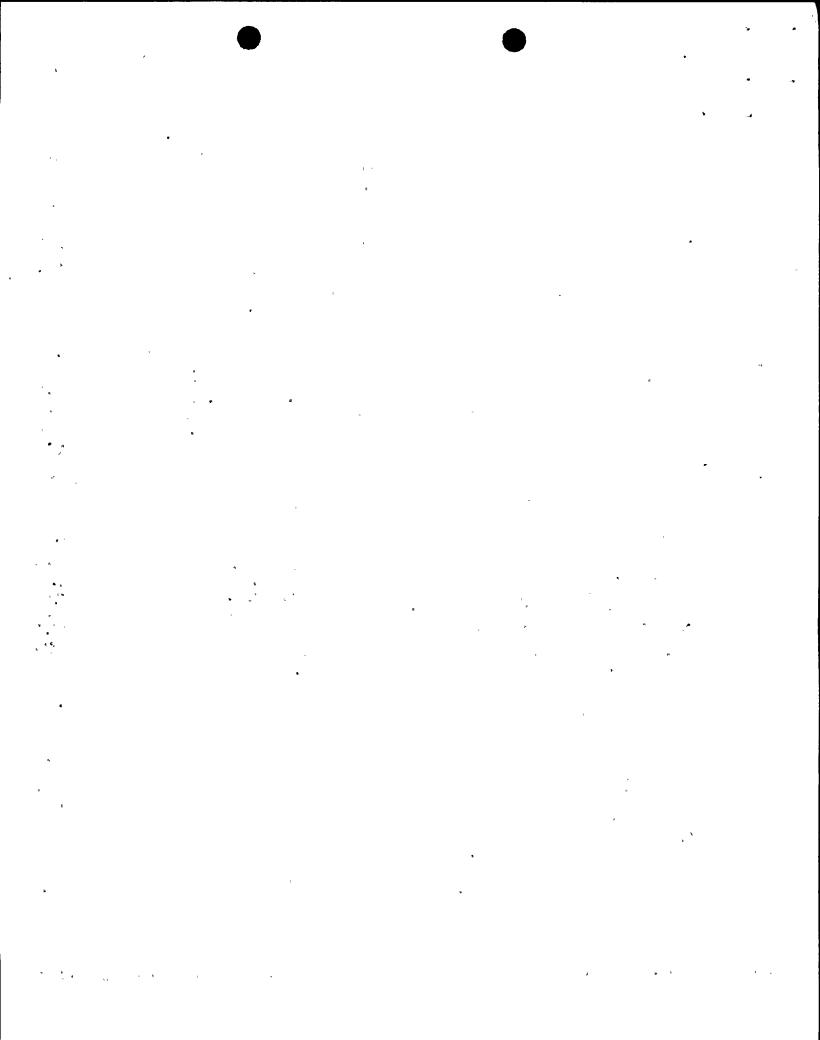
In the above-referenced letter, it was indicated that Niagara Mohawk has found it necessary to institute chemical treatment at Nine Mile Point Unit 1 to prevent fouling of the condenser tubes (see above). As a result, Niagara Mohawk has requested permission to conduct a chemical treatment program which will test the effectiveness of two Nalco Chemical Company products, Nalsperse 7348 and Nalco 7388, a non-ionic dispersant and an aqueous polyacrylate salt, respectively, in preventing fouling conditions. It was indicated that these two substances will be added simultaneously for ten minutes every eight hours at a dosage of 2 ppm for each product. Attached to the above-referenced letter was information on the two Nalco products, including toxicity information. It was further stated that the program would last for two weeks.

After (1) reviewing the information submitted by Niagara Mohawk, (2) reviewing additional information on the toxicity of Nalsperse 7348 provided to this writer by Nalco Chemical Company, and (3) based upon information obtained from New York State Electric and Gas Corporation's (NYSE&G) Nalsperse 7348 testing program at its Hickling Station (which began approximately two weeks ago),

· P · V 1 2 0 1 2.

空原设置 胡椒

J. of Others



Region II has decided upon the following course of action (The NYSDEC has been consulted on this matter and has indicated to this writer that it concurs with the course of action specified below.):

- Niagara Mohawk is hereby given approval to commence the abovereferenced chemical treatment program, effective August 13, 1979; this program should last for not longer than one month; for the duration of the chemical treatment program, Condition 10(b)(1)(d) of the NPDES permit for Nine-Mile Point Unit 1 will be stayed; this condition prohibits the addition of any algicides to the Unit 1 cooling water system;
- Niagara Mohawk will, to the extent that it is possible, control the dosage of Nalsperse 7348 and Nalco 7388 at a maximum level of 2 ppm for each substance; however, under no circumstances shall the dosage of each substance exceed a maximum level of 10 ppm; at least two grab samples of oil and grease in the effluent shall be taken during the chemical treatment program; the sampling results shall be submitted to EPA Region II and the NYSDEC;
- Niagara Mohawk will conduct a biological monitoring survey to determine the effects, if any, of Nalsper:e 7348 and Nalco 7388 on those aquatic organisms present in the area of the discharge; the specific survey conducted will be agreed upon by Niagara Mohawk, the NYSDEC and EPA Region II; it will conmence as soon as possible and continue to the end of the chemical treatment testing program; the results of this survey shall be submitted to EPA Region II and the NYSDEC, and shall be used to determine if Niagara Mohawk should be given permission to institute the chemical treatment program on a long-term basis,

If you have any questions concerning this matter, please do not hesitate to communicate them to me (Tel. No. 212-264-2990).

Sincerely yours,

Joel Golumbek

Toxic and Inorganic Wastes Section

Water Facilities Branch

Ms. Cheryl Blum Niagara Mohawk Power Corporation

> Mr. Alan Geisendorfer New York State Department of

Environmental Conservation

				_		• •
					,	•
					•	
	•					*
					-	
		ı				
		·				
			•			
		,			•	
•						
				T.		