

ATTACHMENT A

NIAGARA MOHAWK POWER CORPORATION

LICENSE NO. DPR-63

DOCKET NO. 50-220

Proposed Changes to Technical Specifications (Appendix A)

Existing page 118 will be replaced with the attached revised page. This page has been retyped in its entirety with marginal markings to indicate changes to the text. New page 118a has been added to accommodate information originally contained on page 118.

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LIMITING CONDITIONS FOR OPERATION  
Table 3.2.7

REACTOR COOLANT SYSTEM ISOLATION VALVES

<u>Line or System</u>	<u>No. of Valves (Each Line)</u>	<u>Location Relative to Primary Containment</u>	<u>Normal Position</u>	<u>Motive Power</u>	<u>Oper. Time (Sec)</u>	<u>Action on Initiating Signal</u>	<u>Initiating Signal (All Valves Have Remote Manual Backup)</u>
<u>Main Steam</u> (Two Lines)	1	Inside	Open	AC Motor	10	Close	Reactor water level low-low, or main steam line high radia- tion, or main steam line high flow, or low condenser vacuum or high temperature in the pipe tunnel
	1	Outside	Open	Pn/DC Solenoid(1)	10	Close	
<u>Main Steam Warm-up</u> (Two Lines)	1	Outside	Closed	Pn/DC Solenoid	10	Close	
<u>Emergency Cooling Steam Line Drain to Main Steam</u> (Two Lines)	2	Outside	Open	Pn/DC Solenoid	10	Close	
<u>Emergency Cooling High Point Vent to Main Steam</u> (One Line)	2	Outside	Open	Pn/DC Solenoid	10	Close	
<u>Feedwater</u> (Two Lines)	1	Outside	Open	AC Motor	60	-	-
	1	Outside	-	Self Act. Ck.	--	-	-
<u>Emergency Cooling</u>							
<u>Steam Leaving Reactor</u> (Two Lines)	1	Outside	Open	AC Motor	38	Close	High system flow
	1	Outside	Open	DC Motor	38	Close	
<u>Condenser Return to Reactor</u> (Two Lines)	1	Inside	-	Self Act. Ck.	--	-	
	1	Outside	Closed	Pn/DC Solenoid	60	Close	

NOTES:

(1) Pn - Pneumatically operated.



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LIMITING CONDITIONS FOR OPERATION  
Table 3.2.7 (Continued)

REACTOR COOLANT SYSTEM ISOLATION VALVES

<u>Line or System</u>	<u>No. of Valves (Each Line)</u>	<u>Location Relative to Primary Containment</u>	<u>Normal Position</u>	<u>Motive Power</u>	<u>Oper. Time (Sec)</u>	<u>Action on Initiating Signal</u>	<u>Initiating Signal (All Valves Have Remote Manual Backup)</u>
<u>Reactor Cleanup</u>							
<u>Water Leaving Reactor (One Line)</u>	1	Inside	Open	AC Motor	18	Close	Reactor water level low-low, or high area temperature, liquid poison initiation or high system pressure, or low system flow, or high system temperature
	1	Outside	Open	DC Motor	18	Close	
<u>Water Return to Reactor (One Line)</u>	1	Inside	Open	AC Motor	18	Close	
	1	Outside	-	Self Act. Ck.	--	-	
<u>Shutdown Cooling</u>							
<u>Water Leaving Reactor (One Line)</u>	1	Inside	Closed	AC Motor	40	Close	Reactor water level low-low, or high area temperature
	1	Outside	Closed	DC Motor	40	Close	
<u>Water Return to Reactor (One Line)</u>	1	Inside	Closed	AC Motor	40	Close	
	1	Outside	-	Self Act. Ck.	--	-	



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ATTACHMENT B

NIAGARA MOHAWK POWER CORPORATION

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Supporting Information and No Significant Hazards Considerations Analysis

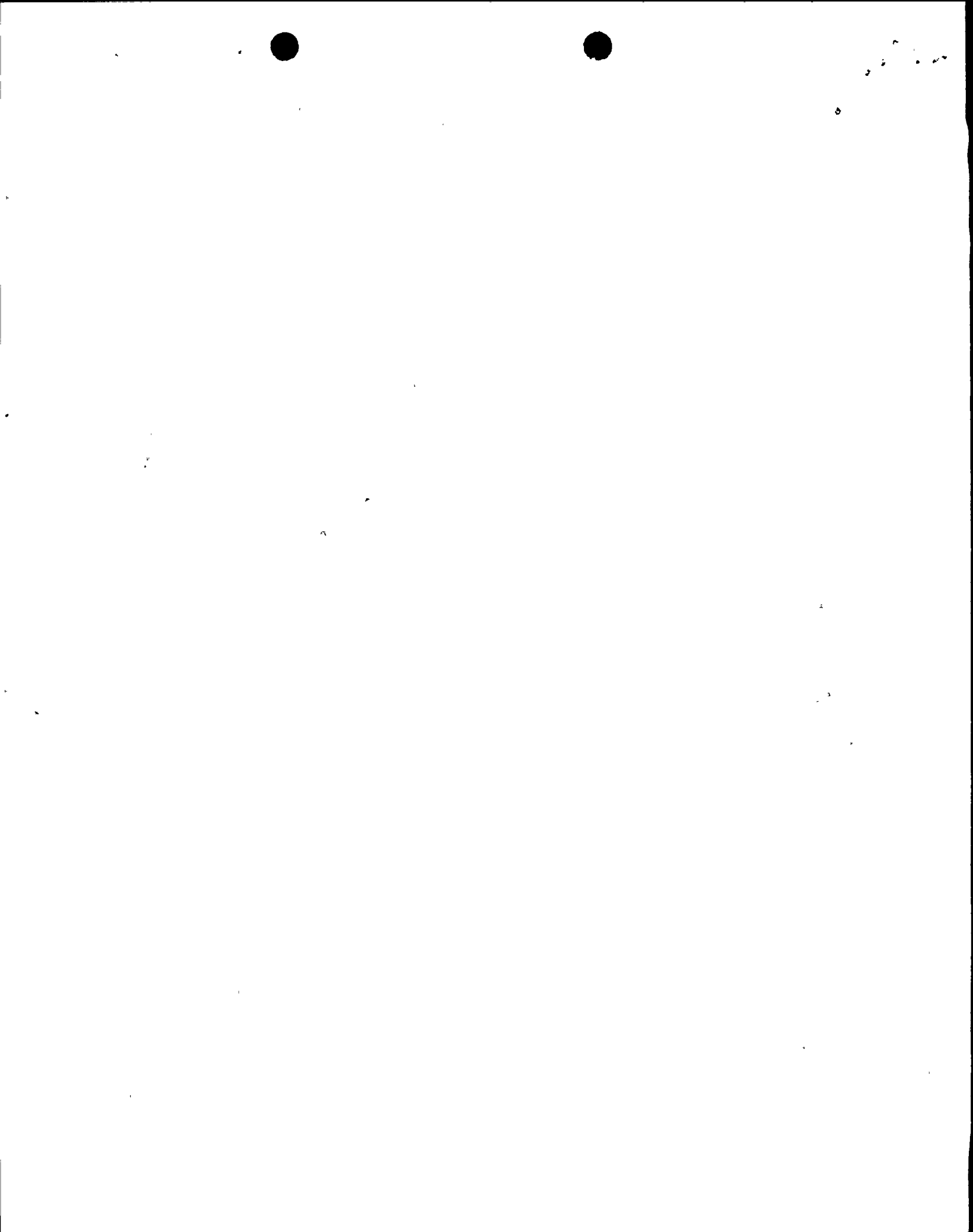
The proposed amendment increases the maximum operating (closure) time for the isolation valves in the emergency cooling high point vent lines from five (5) to ten (10) seconds, and increases the closure time for the main steam warmup valves from eight (8) to ten (10) seconds. In addition, the emergency cooling drain line vent isolation valves are being added to Table 3.2.7. These valves are DC solenoid operated valves located outside containment. A closure time of ten (10) seconds is specified to be consistent with the closure time of the valves identified above.

The purpose of the valve closure time is to provide assurance that reactor coolant inventory loss is minimized in the event of a main steam line rupture. During this event, inventory loss is primarily through the 24" diameter main steam lines. The analysis of the main steam line break outside the drywell (Appendix E to the Final Safety Analysis Report) assumes an eleven (11) second closure time (includes circuit delays and maximum closing time). Using the longest time for the main steam line valves following a main steam line break provides a conservative estimate of inventory loss. The total mass of coolant that passes through these valves is assumed to be released. The analysis assumes that all fission products are released in a puff within the eleven-second valve closure. The resulting accident doses are within the limits of 10 CFR 100. Increasing the closure time for the main steam warmup valves and the emergency condenser vent and drain valves does not affect the conclusions of the original main steam line break analysis. The conservatism in the analysis bounds the slight increase in inventory loss attributable to the increase in closure time for these small valves (2 inch, 1-1/2 inch and 1 inch nominal diameter).

In addition, the motive power of the isolation valves has been more accurately designated in Table 3.2.7. The type of valve operators have not been changed; they are the same as the originally installed equipment.

10CFR50.91 requires that at the time a licensee requests an amendment, it must provide to the Commission its analysis, using the standards in Section 50.92 about the issue of no significant hazards consideration. Therefore, in accordance with 10CFR50.91 and 10CFR50.92, the following analysis has been performed:

Operation of Nine Mile Point Unit 1 in accordance with the proposed amendment will not involve a significant increase in the probability or consequence of an accident previously evaluated.





The only previously evaluated accident associated with the closing time of the valves is the main steam line rupture event. Changing the closure time will have no effect on the probability of a main steam line rupture, as there is no credible relationship between these two actions. As discussed above, the Final Safety Analysis Report accident analysis includes sufficient conservatism so that the increase in valve closure time has no effect on the consequences of a main steam line break.

Operation of Nine Mile Point Unit 1 in accordance with the proposed amendment will not increase the possibility of a new or different kind of accident from any accident previously evaluated.

As there is no mechanical or dynamic effect resulting from increasing the closure time, there is no increase in the possibility of creating a new kind of accident.

Operation of the Nine Mile Point Unit 1 in accordance with the proposed amendment will not involve a significant reduction in a margin of safety.

The allowable Technical Specification closure times of the emergency cooling steam line drain, emergency cooling high point vent and main steam warmup valves have been increased to be consistent with the closure time assumed in the analysis of a main steam line rupture. As discussed above, the Final Safety Analysis Report accident analysis includes sufficient conservatism so that the increase in valve closure time has no effect on the consequences of a main steam line break.

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