

UNITED STATES NUCLEAR REGULATORY COMMISSION

In the Matter of)
)
Niagara Mohawk Power Corporation) Docket No. 50-220
)
Nine Mile Point Unit 1)

APPLICATION FOR AMENDMENT TO OPERATING LICENSE

Pursuant to Section 50.90 of the Regulations of the Nuclear Regulatory Commission, Niagara Mohawk Power Corporation (NMPC), holder of Facility Operating License No. DPR-63, hereby requests that Section 3.2.3 and the associated surveillance Section 4.2.3 of the Technical Specifications (TS) set forth in Appendix A to that license be amended. The proposed changes have been reviewed in accordance with Section 6.5, "Review and Audit," of the Nine Mile Point Unit 1 (NMP1) TS.

The proposed change revises the NMP1 TS Section 3.2.3 to reflect the "BWR water chemistry guidelines, 1996 revision" (EPRI TR-103515-R1, BWRVIP-29). Sections 3.2.3a and 3.2.3b define new conductivity limits when the reactor water is ≥ 200 degrees F and thermal power is $\leq 10\%$, and when thermal power is $> 10\%$. The new conductivity limit is now 1 $\mu\text{mho/cm}$ compared to the existing limits of 2 $\mu\text{mho/cm}$ and 5 $\mu\text{mho/cm}$. The chloride ion limit from Section 3.2.3a remains at the same level but it is listed as 100 ppb instead of 0.1 ppm. The chloride ion limit from Section 3.2.3b is changed from 0.2 ppm to 20 ppb. Sulfate ion limits are added to Sections 3.2.3a and 3.2.3b at 100 ppb and 20 ppb, respectively. From Section 3.2.3c the maximum conductivity limit is changed from 10 $\mu\text{mho/cm}$ to 5 $\mu\text{mho/cm}$, the maximum chloride ion concentration limit is changed from 0.5 ppm to 100 ppb and 200 ppb, and the maximum sulfate ion concentration of 100 ppb and 200 ppb is added.

The proposed change revises NMP1 TS Section 4.2.3 to include sulfate ions as a component to be included in the sample analysis.

Included in this TS change is a change to the Bases for 3.2.3 and 4.2.3, "Coolant Chemistry". The Bases has been changed to reflect the purpose of the specification which is to limit intergranular stress corrosion cracking (IGSCC) crack growth rates through the control of reactor coolant chemistry. The Bases describes the NMP1 operating philosophy of maintaining average levels for conductivity and chloride and sulfate concentrations over an operating cycle. Operation of the plant within these average values will ensure that the crack growth rate is bounded by the core shroud analysis.

The proposed change will not authorize any change in the types of effluents or in the authorized power level of the facility in conjunction with this Application for License Amendment. Supporting information and analyses which demonstrate no significant hazards considerations pursuant to 10CFR50.92, are included as Attachment B.

9707110350 970702
PDR ADDCK 05000220
P PDR

WHEREFORE, Applicant respectfully requests that Appendix A to Facility Operating License No. DPR-63 be amended in the form attached hereto as Attachment A.

NIAGARA MOHAWK POWER CORPORATION

By

B. R. Sylvia
B. R. Sylvia
Chief Nuclear Officer

Subscribed and Sworn to before me
on this 2nd day of July 1997.

Beverly W. Ripka
NOTARY PUBLIC

BEVERLY W. RIPKA
Notary Public State of New York
Qual. in Oswego Co. No. 4644879
My Commission Exp. Mar 30, 1998
2/28/98



1 2 3

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

ATTACHMENT A

NIAGARA MOHAWK POWER CORPORATION

LICENSE NO. DPR-63

DOCKET NO. 50-220

Proposed Changes to Technical Specifications

Replace the existing pages 96, 97, and 98 with the attached revised pages 96, 97, and 98. The pages have been retyped in their entirety with marginal markings to indicate changes.



1