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AUTH.NAME AUTHOR AFFILIATION
TERRY,C.D. Niagara Mohawk Power Corp.
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SUBJECT: Advises that lab & engineering analysis of coupons removed during 1995 refueling outage resulted in corrosion rate of 0.3216 mils per year.

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NIAGARA MOHAWK POWER CORPORATION/NINE MILE POINT NUCLEAR STATION, P.O. BOX 63, LYCOMING, N.Y.13093 /TEL. (315) 349-7263
FAX (315) 349-4753

CARL D. TERRY
Vice President
Nuclear Engineering

May 3, 1995
NMP1L 0945

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

RE: Nine Mile Point Unit 1
Docket No. 50-220
DPR-63

Subject: Torus Shell and Coupon Corrosion Rate Determination

Gentlemen:

In accordance with the Nuclear Regulatory Commission's (NRC) Safety Evaluation Reports (SERs) of August 24, 1992 and August 11, 1994, Niagara Mohawk installed sample coupons of the same material as that of the torus shell during the 1993 refueling outage. These coupons were placed at the water level with approximately one-half above and one-half below the water line. The SERs require that the corrosion rates obtained from the coupons be compared once per refueling outage to that obtained from the UT measurements of the shell with the most conservative corrosion rate being used to make future corrosion rate determinations.

Laboratory and engineering analysis of the coupons removed during the 1995 refueling outage resulted in a corrosion rate of 0.3216 mils per year including one standard deviation. The average corrosion rate as determined from UT measurements of the torus shell is 0.8809 mils per year including one standard deviation. Thus, the most conservative corrosion rate does not exceed the assumed maximum corrosion rate of 1.26 mils per year. Therefore, UT thickness measurements of all torus bays will be repeated after approximately 10 years in accordance with the NRC SER. In the meantime, Niagara Mohawk will continue to measure torus wall thickness for the six (6) thinnest bays every six months as identified in the August 11, 1994 SER.

Very truly yours,

C. D. Terry
Vice President - Nuclear Engineering

CDT/MGM/lmc

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