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FACIL:50-410 Nine Mile Point Nuclear Station, Unit 2, Niagara Moha 05000410
AUTH.NAME AUTHOR AFFILIATION
MANGAN,C.V. Niagara Mohawk Power Corp.
RECIP.NAME RECIPIENT AFFILIATION
BUTLER,W. Licensing Branch 2

SUBJECT: Submits results of addl studies re consideration of quantities of standing roof water due to rainfall in installation of screenwell bldg scupper drains before & after 6 h PMP.

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NIAGARA MOHAWK

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

October 28, 1985
(NMP2L 0519)

Dr. Walter Butler, Chief
Licensing Branch No. 2
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Dr. Butler:

Re: Nine Mile Point Unit 2
Docket No. 50-410

This letter is a followup to Niagara Mohawk letter NMP2L-0484 transmitted on September 3, 1985 which provided information on scupper drains to be installed on the Screenwell Building. That letter stated that the maximum roof loading for other safety-related buildings was equal to 145 lbs/ft^2 based on a 27.1 inch water buildup resulting from the 6-hour Probable Maximum Precipitation (PMP) at the Unit 2 site. Subsequent to that submittal, the staff reviewer has requested consideration of additional quantities of standing roof water due to rainfall before and after the 6-hour PMP. This letter transmits the results of the additional studies.

The Screenwell Building has an asphalt roof over structural steel and has a load limit of 112 lbs/ft^2. Hence there is a need for the previously described scupper drains to preclude water accumulation over 20 inches. The Reactor Building also has an asphalt roof, but it has a load limit of 145 lbs/ft^2 which is equivalent to 27 inches of water. To assure the structural integrity of that roof, the following steps will be taken:

1. During the first refueling outage, sections of Reactor Building parapet on both the north and south faces will be removed to permit excess water accumulation to drain from the roof. Preliminary calculations indicate that a section at least 2 feet wide starting no higher than Elevation 426' (approximately 19" above the roof low point) will have to be removed at both the north and south faces.

2. In order to assure safe operation during the first cycle, the existing reactor building roof drains will be cleared of any debris at the time of fuel loading. Subsequent checks and clearings will be made in the fall of each year until the parapet modifications are completed. Since access to the roof during operation involves

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secondary containment integrity considerations, Niagara Mohawk believes the timing and frequency of our proposed checks provide reasonable assurance of the operability of the roof drains during the winter season, while minimizing the operational impact.

It is the understanding of Niagara Mohawk that this commitment to install additional Reactor Building drainage capability, along with the previous September 3, 1985 commitment, completes all necessary Unit 2 facility modifications necessitated by the imposition of Hydro-meteorological Reports Nos. 51 and 52.

Very truly yours,

C. V. Mangan
Senior Vice President

JM/rla
1041G

xc: R. A. Gramm, NRC Resident Inspector
Project File (2)