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 FACIL: 50-220 Nine Mile Point Nuclear Station, Unit 1, Niagara Power 05000220
 AUTH NAME: MANGAN, C.V. AUTHOR AFFILIATION: Niagara Mohawk Power Corp.
 RECIP NAME: VASSALLO, D.B. RECIPIENT AFFILIATION: Operating Reactors Branch 2

SUBJECT: Discusses calculated dose rates due to shine from reactor bldg atmosphere to control room & security bldg following design basis LOCA per IE Insp Rept 50-220/83-15. Doses not expected to exceed 5 rem during first 8 h following DBA.

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March 19, 1984

Director of Nuclear Reactor Regulation
Attention: Mr. Domenic B. Vassallo, Chief
Operating Reactors Branch No. 2
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

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

Dear Mr. Vassallo:

Our September 6, 1983 letter indicated that we would calculate the dose rates due to shine from the reactor building atmosphere to the control room and security building following a design basis loss of coolant accident. These calculations were to formally resolve questions which arose during your Inspection No. 83-15.

The 30 day integrated exposure to the control room due to shine from the reactor building atmosphere has been conservatively calculated to be 2.85 Rem. When this exposure is added to the 30 day integrated exposure due to other sources of radiation, the total does not exceed 5 Rem. The average 30 day exposure rate due to reactor building shine is approximately 4 mR/hr. This is significantly less than the NUREG-0737 suggested guideline of less than 15 mR/hr on average for areas requiring continuous occupancy.

Our calculations determined that the 30 day integrated dose to the security building due to reactor building shine will exceed dose guidelines for areas requiring continuous occupancy. However, continuous occupancy of the security building for 30 days following an accident is not required by our emergency procedures. The security building is the primary assembly area for security personnel, but alternate assembly areas are specified in the event that the security building is uninhabitable.

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THE UNITED STATES OF AMERICA
DISTRICT COURT OF THE DISTRICT OF COLUMBIA
IN RE: [Name]
Debtor.

Chapter 11
Case No. [Number]

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THE UNITED STATES OF AMERICA
DISTRICT COURT OF THE DISTRICT OF COLUMBIA
IN RE: [Name]
Debtor.

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Mr. Domenic B. Vassallo
March 19, 1984
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Instructions for evacuation of security personnel, if necessary, following completion of a site evacuation are provided in the emergency procedures. Integrated doses in the security building are not expected to exceed 5 Rem during the first eight hours following a design basis accident, at which time site evacuation should be complete.

Sincerely,

NIAGARA MOHAWK POWER CORPORATION



C. V. Mangan
Vice President
Nuclear Engineering and Licensing

CVM/SMK:slw

