



**Constellation  
Energy Group**

Nine Mile Point  
Nuclear Station

December 22, 2003  
NMP1L 1802

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

**SUBJECT:** Nine Mile Point Units 1 and 2  
Docket No. 50-220 and 50-410  
DPR-63 and NPF-69

10CFR50.46(a)(3)(ii) Report

Gentlemen:

Pursuant to 10CFR50.46(a)(3)(ii), this letter provides this year's annual report concerning changes to, or errors discovered in, the emergency core cooling system (ECCS) evaluation model used for Nine Mile Point Units 1 and 2 (NMP1 and NMP2). Last year's annual report was submitted on December 23, 2002 (NMP1L 1700). Since then, Global Nuclear Fuel-Americas (GNF), the fuel vendor for NMP1 and NMP2, has reported two new errors in the latest approved ECCS analysis, which affect the peak clad temperature (PCT) calculations.

The first case was an error in the SAFER initial separator pressure drop in the evaluation model for NMP1, which resulted in a higher initial steam separator pressure drop and an overly restricted flow through the separator during the loss of coolant accident (LOCA). An evaluation determined that the increase in PCT due to this change is 5° F for NMP1. The second case was an error in the SAFER Level/Volume Table used in the evaluation model for NMP2, which resulted in an incorrect volume split in the nodes above and below the water surface and incorrect initial liquid mass. An evaluation was performed which determined that the impact on PCT due to this error is -5° F for NMP2.

Based on the above, the maximum increase in PCT due to changes or errors in the latest analysis is 15° F for NMP1 and 0° F for NMP2. The sum of the absolute values of the effect on PCT of all changes or errors in the latest approved ECCS analysis is 15° F for NMP1 and 5° F for NMP2.

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The maximum anticipated PCT during a LOCA remains less than 2200° F for NMP1 and NMP2. The cumulative effect on PCT of changes and errors identified since the latest approved ECCS analysis remains less than 50° F for NMP1 and NMP2, and, therefore, is not significant according to the criterion stated in 10CFR50.46(a)(3)(i).

Very truly yours,



William C. Holston  
Manager Engineering Services

WCH/IAA/bjh

cc: Mr. H. J. Miller, NRC Regional Administrator, Region I  
Mr. G. K. Hunegs, NRC Senior Resident Inspector  
Mr. P. S. Tam, Senior Project Manager, NRR (2 copies)