Constellation Energy
Nine Mile Point Nuclear Station

P.O. Box 63
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January 29, 2009

U. S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Attention: Document Control Desk

Subject: Nine Mile Point Nuclear Station, LLC
Unit Nos. 1 and 2; Docket Nos. 50-220 and 50-410

10 CFR 50.46 ECCS Evaluation Model Annual Reports for 2008

Pursuant to the reporting requirements of 10 CFR 50.46(a)(3)(ii), Nine Mile Point Nuclear Station, LLC (NMPNS) is submitting the Emergency Core Cooling System (ECCS) evaluation model annual reports for Nine Mile Point Unit 1 (NMP1) and Nine Mile Point Unit 2 (NMP2).

These annual reports, provided in Attachments 1 and 2, summarize the nature of and estimated effect of any changes or errors in the ECCS models for NMP1 and NMP2 for the period January 1, 2008 through December 31, 2008.

Should you have any questions regarding this submittal, please contact T. F. Syrell, Licensing Director, at (315) 349-5219.

Very truly yours,

P. A. Mazzaferro
Acting Manager Engineering Services

PAM/MHS

A002
NRR

Attachments:
1. Nine Mile Point Unit 1 10 CFR 50.46 ECCS Evaluation Model Annual Report for 2008
2. Nine Mile Point Unit 2 10 CFR 50.46 ECCS Evaluation Model Annual Report for 2008

cc: NRC Regional Administrator, Region I
NRC Resident Inspector
NRC Project Manager

ATTACHMENT 1

NINE MILE POINT UNIT 1

10 CFR 50.46 ECCS EVALUATION MODEL ANNUAL REPORT FOR 2008

Nine Mile Point Nuclear Station, LLC
January 29, 2009

ATTACHMENT 1
NINE MILE POINT UNIT 1
10 CFR 50.46 ECCS EVALUATION MODEL ANNUAL REPORT FOR 2008

BACKGROUND

In accordance with 10 CFR 50.46(a)(3)(ii), this annual report summarizes the nature of and estimated effect of any changes or errors in the emergency core cooling system (ECCS) model for the period January 1, 2008 through December 31, 2008 for Nine Mile Point Unit 1 (NMP1).

DISCUSSION

No changes or errors to the ECCS evaluation model were identified in 2008 for NMP1.

IMPACT

Not applicable

CONCLUSION

As documented in Table 1, the NMP1 Loss Of Coolant Accident analysis Peak Clad Temperature (PCT) remains in compliance with 10 CFR 50.46(b)(1), which requires that the PCT shall not exceed 2200 °F.

Table 1

LOCA Margin Summary Sheet
Nine Mile Point Nuclear Station, LLC
Nine Mile Point Unit 1

Evaluation Model: General Electric SAFER / CORCL / GESTR methodology

	Net PCT Effect	Absolute PCT Effect
A. Prior 10 CFR 50.46 Changes or Error Corrections - Previous Years	ΔPCT = 0 °F	0 °F
B. Prior 10 CFR 50.46 Changes or Error Corrections - This Year	ΔPCT = 0 °F	0 °F
Absolute Sum of 10 CFR 50.46 Changes	ΔPCT =	0 °F

The sum of the PCT from the most recent analysis using an acceptable evaluation model and the estimates of PCT impact for changes and errors identified since this analysis is less than 2200 degrees F.

ATTACHMENT 2

NINE MILE POINT UNIT 2

10 CFR 50.46 ECCS EVALUATION MODEL ANNUAL REPORT FOR 2008

Nine Mile Point Nuclear Station, LLC
January 29, 2009

ATTACHMENT 2
NINE MILE POINT UNIT 2
10 CFR 50.46 ECCS EVALUATION MODEL ANNUAL REPORT FOR 2008

BACKGROUND

In accordance with 10 CFR 50.46(a)(3)(ii), this annual report summarizes the nature of and estimated effect of any changes or errors in the emergency core cooling system (ECCS) model for the period January 1, 2008 through December 31, 2008 for Nine Mile Point Unit 2 (NMP2).

DISCUSSION

A reanalysis was performed as reported in the License Amendment Request for implementation of Average Power Range Monitor/Rod Block Monitor/Technical Specifications/Maximum Extended Load Line Limit Analysis, submitted March 30, 2007. No changes or errors to the ECCS evaluation model were identified in 2008 for NMP2.

IMPACT

Not applicable

CONCLUSION

As documented in Table 1, the NMP2 Loss Of Coolant Accident analysis Peak Clad Temperature (PCT) remains in compliance with 10 CFR 50.46(b)(1), which requires that the PCT shall not exceed 2200 °F.

Table 1

LOCA Margin Summary Sheet
Nine Mile Point Nuclear Station
Nine Mile Point Unit 2

Evaluation Model: General Electric SAFER / GESTR - LOCA methodology

		Net PCT Effect	Absolute PCT Effect
A.	Prior 10 CFR 50.46 Changes or Error Corrections - Previous Years	ΔPCT = 0 °F	0 °F
B.	Prior 10 CFR 50.46 Changes or Error Corrections - This Year	ΔPCT 0 °F	0 °F
	Absolute Sum of 10 CFR 50.46 Changes	ΔPCT =	0 °F

The sum of the PCT from the most recent analysis using an acceptable evaluation model and the estimates of PCT impact for changes and errors identified since this analysis is less than 2200 degrees F.