

Nuclear Management Company, LLC
Point Beach Nuclear Plant
6610 Nuclear Road
Two Rivers, WI 54241

NPL 2000-0378

August 25, 2000

10 CFR 50.46

Document Control Desk
U.S. NUCLEAR REGULATORY COMMISSION
Mail Station P1-137
Washington, DC 20555

Ladies and Gentlemen:

DOCKETS 50-266 AND 50-301
ECCS EVALUATION MODEL CHANGES, 10 CFR 50.46
POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

As required by Title 10 of the Code of Federal Regulations, Part 50.46(a)(3)(ii), Wisconsin Electric Power Company (Licensee) is submitting this annual report of changes to, and errors discovered in, emergency core cooling system (ECCS) evaluation models for Point Beach Nuclear Plant (PBNP) Units 1 and 2. This letter provides a summary of ECCS evaluation model changes and errors identified since our previous annual report dated November 23, 1999. Model changes include changes to the large break loss of coolant accident (LOCA) model and the small break LOCA model. A summary of the changes is provided below with additional details and a summary sheet of peak cladding temperature (PCT) margin provided in the attachment.

Large Break LOCA Evaluation Model

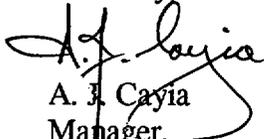
No changes or errors have been identified since the last report.

Small Break LOCA Evaluation Model

No changes or errors have been identified since the last report.

Please contact us if you have any questions or require additional information.

Sincerely,



A. J. Cayia
Manager,
Site Services & Assessment

Attachments

cc: NRC Resident Inspector
NRC Regional Administrator

PSCW
NRR Project Manager

A001

NPL 2000-0378
Attachment
August 25, 2000

ECCS EVALUATION MODEL CHANGES AND ERRORS

Large Break LOCA Evaluation Model

The current large break LOCA analysis for PBNP Units 1 and 2 was performed using the WCOBRA/TRAC Two-Loop Upper Plenum Injection Best-Estimate Evaluation Model. The current analysis of record resulted in a limiting peak clad temperature (PCT) of 2028°F for the Appendix K calculation. Safety evaluations and other assessments of PCT margin have been incurred such that the current estimated cumulative PCT is 2185°F.

Small Break LOCA Evaluation Model

The current small break LOCA analyses for both PBNP Units 1 and 2 were performed using the NOTRUMP computer code. The current analysis of record resulted in a limiting PCT of 809°F for the four inch cold-leg break. Safety evaluations and other assessments of PCT margin have been incurred such that the current estimated cumulative PCT is 1196°F.

LARGE BREAK PEAK CLADDING TEMPERATURE MARGIN UTILIZATION

PBNP Units 1 and 2:

A.	Analysis of Record (2/91) Combined SSE and LOCA Events	PCT =	2028°F
		Δ PCT =	10°F
B.	Prior Permanent ECCS Model Assessments	Δ PCT =	62°F
C.	10 CFR 50.59 Safety Evaluations		
	1. Reduced SGTP to 10%	Δ PCT =	-25°F
	2. Reduced Tavg (Δ PCT decreased from 85°F)	Δ PCT =	70°F
	3. 100 psig Backfill Pressure (IFBA)	Δ PCT =	40°F
D.	1999 10 CFR 50.46 Model Assessments (none)	Δ PCT =	0°F
E.	Temporary ECCS Model Issues (none)	Δ PCT =	0°F
F.	Other Margin Allocations (none)	Δ PCT =	0°F
	Licensing Basis PCT + Margin Allocations	PCT =	2185°F

SMALL BREAK PEAK CLADDING TEMPERATURE MARGIN UTILIZATION

PBNP Unit 1 and Unit 2:

A.	Analysis of Record (7/88)	PCT =	809°F
B.	Prior Permanent ECCS Model Assessments	Δ PCT =	57°F
C.	10 CFR 50.59 Safety Evaluations		
	1. Loss of Auxiliary Feedwater	Δ PCT =	213°F
	2. Increased Tavg	Δ PCT =	107°F
	3. Annular Pellets	Δ PCT =	10°F
D.	1999 10 CFR 50.46 Model Assessments (none)	Δ PCT =	0°F
E.	Temporary ECCS Model Issues (none)	Δ PCT =	0°F
F.	Other Margin Allocations (none)	Δ PCT =	0°F
	Licensing Basis PCT + Margin Allocations	PCT =	1196°F
