

May 5, 2006

NRC 2006-0047
10 CFR 50.46

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

Point Beach Nuclear Plant, Units 1 and 2
Dockets 50-266 and 50-301
License Nos. DPR-24 and DPR-27

ECCS Evaluation Model Changes, 10 CFR 50.46

As required by 10 CFR 50.46(a)(3)(ii), Nuclear Management Company, LLC (NMC), 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 is intended to provide a summary of ECCS evaluation model changes and errors identified since our previous annual report dated April 25, 2005 (NRC-2005-0053). Model changes include changes to the large break loss of coolant accident (LOCA) model and the small break LOCA model. Changes are summarized below with additional details and a summary sheet of peak cladding temperature (PCT) margin provided in the enclosure.

For PBNP Units 1 and 2, there were no changes in 2005 to the PCT assessment for the large break LOCA or small break LOCA analyses. Current PCT rack-up sheets are provided in the enclosure to this letter.

There are no new commitments contained in this submittal.



Dennis L. Koehl
Site Vice-President, Point Beach Nuclear Plant
Nuclear Management Company, LLC

Enclosure: ECCS Evaluation Model Changes and Errors

cc: Regional Administrator, Region III, USNRC
Project Manager, Point Beach Nuclear Plant, USNRC
Resident Inspector, Point Beach Nuclear Plant, USNRC
PSCW

ENCLOSURE

ECCS EVALUATION MODEL CHANGES AND ERRORS

POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

Large Break LOCA Evaluation Model

There were no changes or errors to the Large Break LOCA evaluation model during this reporting period that resulted in a change to the calculated PCT for Point Beach Nuclear Plant.

Small Break LOCA Evaluation Model

There were no changes or errors to the Small Break LOCA evaluation model during this reporting period that resulted in a change to the calculated PCT for Point Beach Nuclear Plant.

LARGE BREAK PEAK CLADDING TEMPERATURE MARGIN UTILIZATION FOR BELOCA

PBNP Units 1 & 2:

A.	Analysis of Record (11/2000)	PCT =	2128°F
B.	Prior Permanent ECCS Model Assessments		
	1. MONTECF Decay Heat Uncertainty Factor	Δ PCT =	4°F
	2. Revised Blowdown Heatup Uncertainty Distribution	Δ PCT =	5°F
C.	Planned Plant Change Evaluations		
	1. Measurement Uncertainty Recapture Power Uprate	Δ PCT =	8°F
D.	2005 10 CFR 50.46 Model Assessments	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 =	2145°F

SMALL BREAK PEAK CLADDING TEMPERATURE MARGIN UTILIZATION (Three Inch Cold Leg)

PBNP Units 1 & 2:

A.	Analysis of Record (11/2000)**	PCT =	1157°F / 1046°F
B.	Prior Permanent ECCS Model Assessments		
	1. NOTRUMP Mixture Level Tracking/Region Depletion	Δ PCT =	13°F
	2. NOTRUMP Bubble Rise/Drift Flux Model Inconsistency	Δ PCT =	35°F
C.	10 CFR 50.59 Safety Evaluations (none)	Δ PCT =	0°F
D.	2005 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 =	1205°F / 1094°F

** Unit 1/Unit 2