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June 3, 2003

Docket No. 50-443 NYN-03046

United States Nuclear Regulatory Commission Attention: Document Control Desk Washington, D.C. 20555-0001

Seabrook Station
Annual Reporting of Changes to, or Errors In
Emergency Core Cooling System Models or Applications

In accordance with the requirements of 10 CFR 50.46(a)(3)(ii), FPL Energy Seabrook, LLC submits a tabulation of the current Small Break and Large Break LOCA PCT margin utilization tables applicable to Seabrook Station. The Small Break and Large Break LOCA utilization tables are consistent with the tables provided in North Atlantic's 2001 10 CFR 50.46 Report, NYN-02060, dated June 26, 2002.

Should you have any questions regarding this report, please contact Mr. Paul V. Gurney, Reactor Engineering Manager at (603) 773-7776.

Very truly yours,

FPL Energy Seabrook, LLC

James M. Peschel

Regulatory Programs Manager

cc: H. J. Miller, NRC Region I Administrator

V. Nerses, NRC Project Manager, Project Directorate I-2

G.T. Dentel, NRC Senior Resident Inspector

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ENCLOSURE TO NYN-03046

Small Break Peak Clad Temperature Margin Utilization ECCS EVALUATION MODEL REVISIONS/ERRORS 10 CFR 50.46 ANNUAL REPORT

Evaluation Model: NOTRUMP		Fuel: 17x17 V5H	FQ=2.5	
F Δ H=1.65 Limiting Break: 4 inch		SGTP=13%	3411 MWt	
Limiting Break:	4 11011		Clad Te	mperature (°F)
ANALYSIS OF MARGIN ALL	RECORD OCATIONS (Del	ta PCT)		1082
A. PF		NT ECCS MODEL ASS in Broken Loop	ESSMENTS	150
	2. Effect of Im	proved COSI		-150
	3. Drift Flux F	low Regime Errors		-13
	4. LUCIFER I	Error Corrections		-16
	5. Boiling Hea	t Transfer Correlation Erro	or	-6
	6. Steam Line	Isolation Logic Error		30
	7. Axial Noda Error Corre	lization, RIP Model Revisi ctions	ion and SBLOCTA	13
	8. NOTRUMI	Specific Enthalpy Error		20
	9. SBLOCTA	Fuel Rod Initialization En	ror	10
	10. NOTRUME	Mixture Level Tracking	Region Depletion Errors	13
B. PI		CHANGE EVALUATION of the Evalu	ONS I Degradation Limiting Case	105
	2. Annular Bla	unkets		10
		MODEL ASSESSMENT nents of PCT Margin)	rs .	0
D. TI	EMPORARY ECC 1. None	CS MODEL ISSUES		0
E. O'		-Avg Uncertainty for RTD	Bypass Elimination	8
	2. +/-3°F T-A		- JEmo zimimov	24
		2°F to T-AvgWindow		16
		ation on SI Signal Only		5
		on or organi om		•

PCT Total = 1301°F

LICENSING BASIS PCT + MARGIN ALLOCATIONS

Large Break Peak Clad Temperature Margin Utilization ECCS EVALUATION MODEL REVISIONS/ERRORS 10 CFR 50.46 ANNUAL REPORT

Evaluation Model : BASH Fuel: 17x17 V5H FQ=2.5 F Δ H=1.65 SGTP=13% 3411 MWt

Limiting Break Size: Cd = 0.6

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ANALYSIS OF RECORD MARGIN ALLOCATIONS (Delta PCT)	1889			
A. PRIOR PERMANENT ECCS MODEL ASSESSMENTS				
1. None	0			
B. PLANNED PLANT CHANGE EVALUATIONS				
1. None	0			
C. 2002 10 CFR 50.46 MODEL ASSESSMENTS (Permanent Assessments of PCT Margin)				
1. None	0			
D. TEMPORARY ECCS MODEL ISSUES				
1. None	0			
E. OTHER				
1. Increased T-Avg Uncertainty for RTD Bypass Elimination	5			
2. +/-3°F T-Avg Window	15			
3. Increase of 2°F to T-Avg Window	10			
4. V5H AOR Limiting Case w/IFMs Reanalysis	-51			
5. Transition Core Penalty	50			
6. RFA Fuel Evaluation	33			
LICENSING BASIS PCT + MARGIN ALLOCATIONS	PCT Total = 1951°F			