

**North  
Atlantic**

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The Northeast Utilities System

Ted C. Feigenbaum  
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NYN- 95086

October 26, 1995

U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attention: Document Control Desk

Reference: Facility Operating License No. NPF-86, Docket No. 50-443

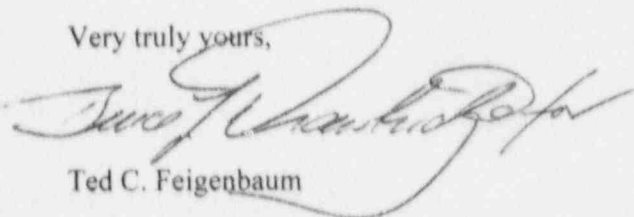
Subject: 10CFR50.46 Annual Report

Gentlemen:

North Atlantic Energy Service Corporation (North Atlantic) has enclosed herein, pursuant to 10CFR50.46(a)(3), the 1995 Annual Report of Emergency Core Cooling System (ECCS) Evaluation Model Revisions/Errors. The enclosure includes a tabulation of the limiting Large Break LOCA and limiting Small Break LOCA Peak Cladding Temperature (PCT) margin allocations applicable to Seabrook Station. The PCT margin allocations reported in the enclosure represent permanent PCT margin allocations attributable to ECCS evaluation model revisions/errors and plant specific input assumption allocations through the period July 26, 1995 as reported to North Atlantic by Westinghouse on August 14, 1995 in letter NAH-95-219.

Should you have any questions regarding this letter, please contact Mr. James M. Peschel, Regulatory Compliance Manager at (603) 474-9521, extension 4037.

Very truly yours,



Ted C. Feigenbaum

TCF:ALL/sm

Enclosure

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October 26, 1995  
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cc: Mr. Thomas T. Martin  
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Mr. Albert W. De Agazio, Sr. Project Manager  
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North Atlantic  
October 26, 1995

ENCLOSURE 1 TO NYN-95086

## Large Break Peak Clad Temperature Margin Utilization

### ECCS EVALUATION MODEL REVISIONS/ERRORS 10CFR50.46 ANNUAL REPORT 1995

Eval. Model: BASH

Fuel: V5H

FQ=2.5

FdH=1.65

SGTP=13%

#### Clad Temperature

#### A. ANALYSIS OF RECORD (8/93)\*

- |   |               |         |
|---|---------------|---------|
| 1. ECCS Analysis  | PCT=          | 1889 °F |
| 2. Increased $T_{avg}$ Uncertainty for RTD Bypass Elimination | $\Delta$ PCT= | 5 °F    |

#### B. PRIOR PERMANENT ECCS MODEL ASSESSMENTS<sup>1</sup>

$\Delta$ PCT= -6 °F

#### C. 10CFR50.59 SAFETY EVALUATIONS

$\Delta$ PCT= 0 °F

#### D. 1995 10CFR50.46 MODEL ASSESSMENTS (Permanent Assessment of PCT Margin)

- |                               |               |         |
|-------------------------------|---------------|---------|
| 1. Skewed Power Shape Penalty | $\Delta$ PCT= | 64 °F   |
| 2. Hot Leg Nozzle Gap Benefit | $\Delta$ PCT= | -142 °F |

#### LICENSING BASIS PCT + MARGIN ALLOCATIONS

PCT= 1810 °F

\* 10CFR50.46 Annual Report for 1994 was based on the February 1978 version of the Westinghouse Large Break Evaluation Model.

<sup>1</sup> NAH-94-204, "North Atlantic Energy Service Corporation Seabrook Station, 10CFR 50.46 Notification and Reporting Information," February 8, 1994.

## Small Break Peak Clad Temperature Margin Utilization

### ECCS EVALUATION MODEL REVISIONS/ERRORS 10CFR50.46 ANNUAL REPORT 1995

Eval. Model: NOTRUMP      Fuel: V5H  
FQ=2.5      FdH=1.65      SGTP=13%

		<u>Clad Temperature</u>	
A.	ANALYSIS OF RECORD (8/93)*		
1.	ECCS Analysis	PCT=	1082 °F
2.	Increased $T_{avg}$ Uncertainty for RTD Bypass Elimination	$\Delta$ PCT=	8 °F
B.	PRIOR PERMANENT ECCS MODEL ASSESSMENTS <sup>1,2</sup>	$\Delta$ PCT=	8 °F
C.	10CFR50.59 SAFETY EVALUATIONS		
1.	PSV/MSSV Setpoint Tolerance Relaxation <sup>3</sup>	$\Delta$ PCT=	5 °F
D.	1995 10CFR50.46 MODEL ASSESSMENTS (Permanent Assessment of PCT Margin)		
1.	None	$\Delta$ PCT=	0 °F
LICENSING BASIS PCT + MARGIN ALLOCATIONS		PCT=	1103 °F

\* 10CFR50.46 Annual Report for 1994 was based on the October 1975 version of the Westinghouse Small Break Evaluation Model.

<sup>1</sup> NAH-94-204, "North Atlantic Energy Service Corporation Seabrook Station, 10CFR50.46 Notification and Reporting Information," February 8, 1994.

<sup>2</sup> NAH-94-229, "North Atlantic Energy Service Corporation Seabrook Station, SBLOCTA Axial Nodalization," October 27, 1994.

<sup>3</sup> Amendment 15 to Facility Operating License NPF-86, September 3, 1992.