

**North
Atlantic**

North Atlantic Energy Service Corporation
P.O. Box 300
Seabrook, NH 03874
(603) 474-9521, Fax (603) 474-2987

The Northeast Utilities System

Ted C. Feigenbaum
Senior Vice President &
Chief Nuclear Officer

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

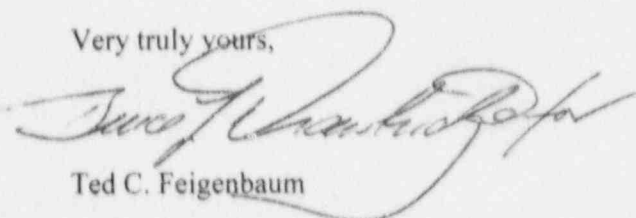
Subject: 10CFR50.46 Annual Report

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

300053

9511010130 951101
PDR ADDCK 05000443
R PDR

ADD 1

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk

October 26, 1995
Page two

cc: Mr. Thomas T. Martin
Regional Administrator
U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

Mr. Albert W. De Agazio, Sr. Project Manager
Project Directorate I-4
Division of Reactor Projects
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Mr. John B. Macdonald
NRC Senior Resident Inspector
P.O. Box 1149
Seabrook, NH 03874

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%

		<u>Clad Temperature</u>	
A.	ANALYSIS OF RECORD (8/93)*		
1.	ECCS Analysis	PCT=	1889 °F
2.	Increased T_{avg} Uncertainty for RTD Bypass Elimination	Δ PCT=	5 °F
B.	PRIOR PERMANENT ECCS MODEL ASSESSMENTS ¹	Δ PCT=	-6 °F
C.	10CFR50.59 SAFETY EVALUATIONS	Δ PCT=	0 °F
D.	1995 10CFR50.46 MODEL ASSESSMENTS (Permanent Assessment of PCT Margin)		
1.	Skewed Power Shape Penalty	Δ PCT=	64 °F
2.	Hot Leg Nozzle Gap Benefit	Δ 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.

¹ 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	ΔPCT=	8 °F
B.	PRIOR PERMANENT ECCS MODEL ASSESSMENTS ^{1,2}	ΔPCT=	8 °F
C.	10CFR50.59 SAFETY EVALUATIONS		
1.	PSV/MSSV Setpoint Tolerance Relaxation ³	ΔPCT=	5 °F
D.	1995 10CFR50.46 MODEL ASSESSMENTS (Permanent Assessment of PCT Margin)		
1.	None	ΔPCT=	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.

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

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

³ Amendment 15 to Facility Operating License NPF-86, September 3, 1992.