



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

APR 11 1986

Docket Nos.: 50-443
and 50-444

APPLICANT: Public Service Company of New Hampshire (PSNH)

FACILITY: Seabrook Station, Unit 1 and 2

SUBJECT: MEETING SUMMARY

During the period February 24 through February 27, 1986, the NRC staff and its consultants from EG&G Idaho audited 12 equipment qualification (EQ) files of Seabrook Station Unit 1. All files were for equipment located in a harsh environment. As a result of the audit, the staff and its consultants made the following observations and comments at an exit interview held at the Seabrook site on February 27, 1986 (List of Attendees attached.)

1. A cursory review of the Seabrook master list indicates that there are approximately 38 items remaining to be qualified. All equipment within the scope of 10 CFR 50.49 must be qualified prior to the issuance of an operating license.
2. During the plant walkdown it was discovered that there are three jumper wires and a terminal block in a Limitorque motor operator (file no. 173-05-02) that could not be identified. This problem is noted in IE Information Notice 86-03. The applicant should review the entire Seabrook program to assure that similar circumstances do not exist for other Limitorque motor operators. Provide information on all corrective actions that have been or will be taken in order to maintain qualifications.
3. The staff is not in agreement with the way the Arrhenius equation was used to calculate post-accident operability time. The applicant must provide acceptable justification or recalculate post-accident operability time using only the portion of the test profile that represents the post-accident period. This correction should be made for the entire Seabrook environmental qualification program.
4. During the plant walkdown it was discovered that an ASCO solenoid valve had two different equipment identification numbers attached to it. This situation can serve as a major source of confusion that could produce adverse affects on plant safety. Therefore, the applicant must review the Seabrook program to assure that this situation does not exist with other equipment.

The following comments are specific to individual EQ files as indicated. However, the applicant must update all files to incorporate these comments where applicable.

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(File number 113-03-01, Okonite Cable)

This file should be updated to include the test information that was provided during the audit justifying use of this cable in Seabrook's design basis events.

(File number 174-15-01, Transamerica Level Transmitter)

Applicant agreed to add information to this file justifying the use of a test sequence different from that specified in IEEE 323-1974.

(File number 113-06-01, Brandrex Cable)

Applicant agreed to add a statement to specify that submergence qualification is not required.

(File number 236-11-06, Reliance Motor)

Applicant agreed to add clarifying test report data to the equipment summary evaluation.

(File number 248-37-01, Limitorque Motor Operator)

There are three internal wires and a terminal block that cannot be identified in the operator that was inspected during the plant walkdown. All of the components that cannot be identified must be replaced with qualified components.

(File number N555-220-02, ASCO Solenoid Valve)

The valve that was inspected during the plant walkdown had two different equipment identification numbers on it. This situation must be rectified.

In addition to the six file numbers noted above, the following were also audited:

File number 113-19-01, ITT-Suprenout Cable
File number 118-03-01, Conax Conduit Seal Assembly
File number 173-05-02, Rotork Motor Operator
File number 252-16-02, Barton Transmitter
File number 252-30-01, Endevco Accelerometer and Charge Converter
File number 600-02-01, Weidmiller Terminal Block

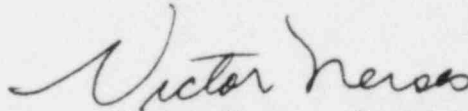
Our evaluation of the applicant's EQ program, including the results of the audit will be provided as input to a future SER Supplement.

In a letter dated May 5, 1983 from G. W. Knighton, NRC, to R. J. Harrison, Public Service Company of New Hampshire, the staff provided guidance on staff requirements for environmental qualification of mechanical equipment. The following is a reiteration of that guidance:

For mechanical equipment, the staff review will concentrate on materials which are sensitive to environmental effects, for example, seals, gaskets, lubricants, fluids for hydraulic systems, diaphragms, etc. A review and evaluation should be performed by the applicant that includes the following :

- (1) Identification of safety-related mechanical equipment located in harsh environment areas, including required operating time.
- (2) Identification of non-metallic subcomponents of this equipment.
- (3) Identification of the environmental conditions this equipment must be qualified for. The environments defined in the electrical equipment program are also applicable to mechanical equipment.
- (4) Identification of non-metallic material capabilities.
- (5) Evaluation of environmental effects.

The list of equipment identified should be submitted. From this list the staff will select approximately three items of mechanical equipment for which documentation of their environmental qualification should be provided for review. Also, the results of the review should be provided for all mechanical equipment in harsh environment areas and corrective actions identified. Justification for interim operation must be submitted prior to fuel load for any mechanical equipment whose qualification cannot be established.



Victor Nerses, Project Manager
PWR Project Directorate #5
Division of PWR Licensing-A

Mr. Robert J. Harrison
Public Service Company of New Hampshire

Seabrook Nuclear Power Station

cc:

Thomas Dignan, Esq.
John A. Ritscher, Esq.
Ropes and Gray
225 Franklin Street
Boston, Massachusetts 02110

E. Tupper Kinder, Esq.
G. Dana Bisbee, Esq.
Assistant Attorney General
Office of Attorney General
208 State House Annex
Concord New Hampshire

Mr. Bruce Beckley, Project Manager
Public Service Company of New Hampshire
Post Office Box 330
Manchester, New Hampshire 03105

Resident Inspector
Seabrook Nuclear Power Station
c/o U.S. Nuclear Regulatory Comm.
Post Office Box 700
Seabrook, New Hampshire 03874

Dr. Murray Tye, President
Sun Valley Association
209 Summer Street
Haverhill, Massachusetts 08139

Mr. John DeVincentis, Director
Engineering and Licensing
Yankee Atomic Electric Company
1671 Worchester Road
Framingham, Massachusetts 01701

Robert A. Backus, Esq.
O'Neil, Backus and Spielman
116 Lowell Street
Manchester, New Hampshire 03105

Mr. A.M. Ebner, Project Manager
United Engineers & Constructors
30 South 17th Street
Post Office Box 8223
Philadelphia, Pennsylvania 19101

Mr. Phillip Ahrens, Esq.
Assistant Attorney General
State House, Station #6
Augusta, Maine 04333

William S. Jordan, III
Diane Curran
Harmon, Weiss & Jordan
20001 S. street, NW
Suite 430
Washington, D.C. 20009

Mr. Warren Hall
Public Service Company of
New Hampshire
Post Office Box 300
Seabrook, New Hampshire 03874

Jo Ann Shotwell, Esq.
Office of the Assistant Attorney
General
Environmental Protection Division
One Ashburton Place
Boston, Massachusetts 02108

Seacoast Anti-Pollution League
Ms. Jane Doughty
5 Market Street
Portsmouth, New Hampshire 03801

Ms. Diana P. Randall
70 Collins Street
Seabrook, New Hampshire 03874

D. Pierre G. Cameron, Jr., Esq.
General Counsel
Public Service Company of New
Hampshire
Post Office Box 330
Manchester, New Hampshire 03105

Richard Hampe, Esq.
New Hampshire Civil Defense Agency
107 Pleasant Street
Concord, New Hampshire 03301

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Public Service Company of
New Hampshire

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Seabrook Nuclear Power Station

cc:

Mr. Calvin A. Canney, City Manager
City Hall
126 Daniel Street
Portsmouth, New Hampshire 03801

Ms. Letty Hett
Town of Brentwood
RFD Dalton Road
Brentwood, New Hampshire

Ms. Roberta C. Pevear
Town of Hampton Falls, New Hampshire
Drinkwater Road
Hampton Falls, New Hampshire 03844

Ms. Sandra Gavutis
Town of Kensington, New Hampshire
RDF 1
East Kingston, New Hampshire 03827

Chairman, Board of Selectmen
RFD 2
South Hampton, New Hampshire 03827

Mr. Angie Machiros, Chairman
Board of Selectmen
for the Town of Newbury
Newbury, Massachusetts 01950

Ms. Rosemary Cashman, Chairman
Board of Selectmen
Town of Amesbury
Town Hall
Amesbury, Massachusetts 01913

Honorable Peter J. Matthews
Mayor, City of Newburyport
Office of the Mayor
City Hall
Newburyport, Massachusetts 01950

Mr. Donald E. Chick, Town Manager
Town of Exeter
10 Front Street
Exeter, New Hampshire 03823

Mr. William B. Derrickson
Senior Vice President
Public Service Company of
New Hampshire
Post Office Box 700, Route 1
Seabrook, New Hampshire 03874

Mr. Alfred V. Sargent,
Chairman
Board of Selectmen -
Town of Salisbury, MA 01950

Senator Gordon J. Humphrey
ATTN: Tom Burack
U. S. Senate
Washington, D.C. 20510

Mr. Owen B. Durgin, Chairman
Durham Board of Selectmen
Town of Durham
Durham, New Hampshire 03824

Charles Cross, Esq.
Shaines, Mardrigan and
McEaschern
25 Maplewood Avenue
Post Office Box 366
Portsmouth, New Hampshire 03801

Mr. Guy Chichester, Chairman
Rye Nuclear Intervention Committee
c/o Rye Town Hall
10 Central Road
Rye, New Hampshire 03870

Jane Spector
Federal Energy Regulatory
Commission
825 North Capitol Street, N.E.
Room 8105
Washington, D.C. 20426

Mr. R. Sweeney
New Hampshire Yankee Division
Public Service Company of New
Hampshire
7910 Woodmont Avenue
Bethesda, Maryland 20814

ATTENDANCE LIST

<u>NAME</u>	<u>COMPANY</u>	<u>POSITION</u>
W. J. Cloutier	YAEC	Lead Systems
M. Trojovsky	INEL/EGG	Engineer
V. Nerses	NRC	Project Manager
D. M. Beahm	INEL/EG&G	Engineer
A. C. Cerne	NRC	SRI
D. Ruscitto	NRC	RI
R. Barkley	NRC	RI
J. Warnock	NHY	Nuc. Qual. Mgr.
A. R. Sullivan	NHY	Nuc. Qual. Engineer
D. R. Jaquette	YAEC	Licensing
G. Kingston	NHY	Compliance Mgr.
G. F. McDonald	NHY	Const. QA Mgr.
David A Maidrand	YNSD	Asst. Proj. Mngr.
Bal Poi	UE&C	Engineer
Stacey	YNSU	Proj. Engr. Mgr.
J. M. Salvo	YAEC	Sr. Mech. Engineer
R. Bergeron	NHY	Lead I&C Engineer
R. J. DeLoach	YNSD	Project Manager
H. Walker	NRC	Engineer

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Victor Nerses, Project Manager
PWR Project Directorate #5
Division of PWR Licensing-A

DD#5
VNerses
4/11/86

Meeting Summary Distribution

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J. Partlow (Emergency Preparedness only)
V. Noonan
Project Manager V. Nerses
OELD
E. Jordan
B. Primes
ACRS (10)
M. Rushbrook

NRC Participants

V. Nerses
D. Ruscitto
R. Barkley
A. Cerne
H. Walker

cc: Licensee and Plant Service
List