MAY 14 1985

Docket No. 50-336

Northeast Nuclear Energy Company
ATTN: Mr. J. F. Opeka
Senior Vice President - Nuclear
Engineering and Operations Group
P. O. Box 270
Hartford, Connecticut 06141-0270

Gentlemen:

Subject: Inspection Report No. 50-336/85-01

This refers to your letter dated April 4, 1985, in response to our letter dated March 8, 1985.

Thank you for the requested additional information documented in your letter. This information is being evaluated by the staff and you will be notified if further actions are necessary.

Your cooperation with us is appreciated.

Sincerely,
Original Signed By
Clifford J. Anderson
for Stewart D. Ebneter, Chief
Division of Reactor Safety

cc w/encl:
E. J. Mroczka, Vice President, Nuclear Operations
W. D. Romberg, Station Superintendent
D. O. Nordquist, Manager of Quality Assurance
R. T. Laudenat, Manager, Generation Facilities Licensing
Gerald Garfield, Esquire
Public Document Room (PDR)
Local Public Document Room (LPDR)
Nuclear Safety Information Center (NSIC)
NRC Resident Inspector
State of Connecticut

OFFICIAL RECORD COPY RL MILLSTONE 85-01 - 0001.0.0
05/09/85

IE01 1/1

bcc w/encl:
Region I Docket Room (with concurrences)
Senior Operations Officer (w/o encl)
DRP Section Chief

RI:DRS
Varela/mmb
c/c to Q.V.
5/13/85

RI:DRS
Durr
c/c to JO
5/13/85

NORTHEAST UTILITIES

THE CONNECTICUT LIGHT AND POWER COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
HOLYOKE WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

General Offices • Selden Street, Berlin, Connecticut

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HARTFORD, CONNECTICUT 06141-0270
(203) 666-6911

April 4, 1985

Docket No. 50-336
A04718
B11510

Dr. Thomas E. Murley
Regional Administrator
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

References: (1) S. D. Ebneter letter to W. G. Counsil, dated March 8, 1985.

(2) W. G. Counsil letter to T. E. Murley, dated February 22, 1985.

Gentlemen:

Millstone Nuclear Power Station, Unit No. 2
IE Inspection Report No. 50-336/85-01
Unresolved Item 336/85-01-01

Reference (1) transmitted Inspection Report No. 50-336/85-01 for Millstone Unit No. 2 which identified one unresolved item. Unresolved Item 336/35-01-01 requested additional information concerning Item 4 of Bulletin 79-02 (verification of design requirement for concrete anchor bolts) as follows:

1. The total number of inaccessible supports.

2. The systems on which each of these supports is installed.

3. The total number of inaccessible concrete anchor bolts on each system containing inaccessible supports.

4. Adequate statistical evidence regarding anchor bolt test results that will assure the functionality of each system - the number of anchor bolts tested/requiring replacement in each system with inaccessible supports.

5. A description of how each inaccessible support was addressed under the IEB 79-14 requirements.

In Reference (2) Northeast Nuclear Energy Company (NNECO) committed to provide the requested information on or about April 1, 1985. Accordingly, NNECO provides the following information:

DR
8504120154

Response Number 1

Table I provides the total number of supports per system along with the total number of inaccessible supports under the scope of Bulletin 79-02. Supports or anchor bolts are considered inaccessible if access is obstructed due to physical interferences or high radiation levels in all modes of plant operation.

Response Number 2

Table I provides the information on a system by system basis.

Response Number 3

Table I provides the total number of inaccessible anchor bolts per system.

Response Number 4

Bulletin 79-02 inspection data have been collated and summarized for Millstone Unit No. 2 on Table I. Included in the summary is a system by system total of:

- o Quantity of Supports
- o Quantity of Supports with Anchor Bolts
- o Quantity of Inaccessible Supports with Anchor Bolts
- o Quantity of Anchor Bolts Installed
- o Quantity of Anchor Bolts Inspected
- o Quantity of Anchor Bolts Inaccessible
- o Quantity of Anchor Bolt Failures
- o Reliability with a 95% Confidence Factor

The last column delineates the calculated reliability of the Hilti bolts based on a 95% confidence level. These values are the results calculated using a hypergeometric distribution to determine with a 95% confidence level that 95% of the Hilti bolts would be reliable, i.e. functional, in each system.

In view of the fact that these statistics are based on testing of all accessible anchor bolts and that all failed bolts have been replaced, it is clear that the anchor bolts do meet their design basis and that each system continues to maintain a high degree of reliability. Additionally, Table I provides evidence that the population of inaccessible concrete anchor bolts is sufficiently small. When combined with the confidence level derived from the testing of accessible bolts and the conservative analysis assumptions described under Response Number 5 for inaccessible anchor bolts, NNECO concludes that these systems will remain functional.

Response Number 5

Inaccessible supports were visually inspected at a reasonable distance so as not to subject the inspector to unnecessary risk or injury. Experienced support design personnel visually examined each support for compliance with the current

drawing of record. This review included member sizes and lengths, base plate dimensions and attachment locations, Hilti bolt quantities and diameters, welded or bolted connections, gaps and proper location and direction of restraint. Any abnormalities or discrepancies were so noted for support evaluation.

Support calculations were then performed employing conservative assumptions such as minimum embedment on all Hilti bolts, etc. (when in fact actual embedment is usually much greater than minimum embedment) to evaluate each support for its rated load.

In summary, NNECO maintained that an adequate anchor bolt testing program has been instituted at Millstone Unit No. 2 and that there is a high degree of confidence that the concrete anchor bolts meet their design basis. Furthermore, the above information demonstrates that all 79-02 requirements were satisfied and that the operability of each Category I system is assured.

We trust you will find this information satisfactory.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

W. G. Counsil

W. G. Counsil
Senior Vice President

TABLE - I

MILLSTONE UNIT NO. 2 BULLETIN 79-02 INSPECTION DATA SUMMARY

SYSTEM	QTY OF SUPPORTS	QTY OF SUPPORTS W/ANC.BOLTS	INACCESSIBLE SUPPORTS W/ANC.BOLTS	QTY OF ANC.BOLTS INSTALLED	QTY OF ANC.BOLTS INSPECTED	QTY OF ANC.BOLTS INACCESSIBLE	QTY OF ANC.BOLT FAILURES	RELIABILITY WITH A 95% CONF. FACT.
MAIN STEAM	295	162	20	998	898	100	21	97.29
AUX. FEEDWATER	240	139	3	927	892	35	28	96.55
REACTOR COOLANT	182	152	26	929	796	133	43	93.97
SAFETY INJECT.	697	442	13	2519	2437	82	67	97.10
CVCS/CHG. PUMP	257	198	43	719	529	190	16	96.10
RBCCW	931	554	24	3122	2994	128	61	97.82
SERVICE WATER	350	301	6	1425	1247	178	26	97.54
SPENT FUEL POOL COOLING	136	90	0	457	454	3	4	98.47
DIESEL GEN.	39	36	3	222	182	40	1	98.20
CNTMT. VENT	59	5	0	32	32	0	0	100.0
CHILLED WTR.	95	95	0	457	439	18	20	94.75
* MISCELL	23	17	0	67	67	0	0	100.0
TOTAL	3304	2191	138	11874	10967	907	287	97.24

* Includes Cntmt Drains,Liquid Radwaste and [illegible]nus Radwaste Penetrations.