Telephone (617) 872-8100
TWX 710-380-7619

YANKEE ATOMIC ELECTRIC COMPANY

1671 Worcester Road, Framingham, Massachusetts 01701

2.C.2.1
FYR 82-81

July 30, 1982

United States Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region I
631 Park Avenue
King of Prussia, PA 19406

Attention: Mr. Ronald C. Haynes, Regional Administrator

References: (a) License No. DPR-3 (Docket No. 50-29)
(b) IE Bulletin No. 82-02, dated June 2, 1982

Subject: Response to IE Bulletin No. 82-02, Item 3

Dear Sir:

As requested by Item 3 of Reference (b), we have conducted reviews of documentation concerning problems with bolted closures of the Reactor Coolant Pressure Boundary (RCPB).

Item 3.a requested that we identify those bolted closures of the RCPB which have experienced leakage and describe the inspections made and corrective measures taken to eliminate the problem.

A flange leak on the No. 3 main coolant pump was found February 5, 1982, while heating up following an outage. The leak was minor in nature and appears to have been caused by an improper gasket seal. Corrective action consisted of cleaning and lapping the gasket seating surfaces and replacing the gasket. Visual inspections, covered by plant procedures, were conducted.

Documentation of two flange leaks on valves was found in records from 1979 to present. No corrective action, with the exception of checking the torque of the bolting, was taken since the leak sealed when the plant reached operating temperature.

Plant experience does not indicate that Yankee has the closure and bolting problems seen at other plants. During plant heat-up following an outage, inspections are conducted to detect any leakage and, when leakage is discovered (from any source), steps are immediately taken to correct the problem. When a bolted closure is opened, the bolting is inspected as a standard practice. Inspection of the major bolting inspections, i.e., steam generator and pressurizer manways, is maintained. Inspections of small valve bolting may not be documented but is conducted as standard practice by our mechanics.

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Over the years, we have not seen a problem with the bolting. Additionally, we have checked the composition of our major bolting material to insure it was not the same type as that which has been experiencing problems.

Item 3.b requested we identify those closures and connections where fastener lubricants and injection sealant materials have been, or are being used, and report on plant experience with their application.

Fastener lubricants are used on most bolting in the Primary System. We use a Nickel-Graphite base compound with controls on the impurities such as chlorides, florides, copper, lead and Moly-disulfide. Currently, the brand in use is "FEL-PRO-N-5000", which has been authorized by Westinghouse Nuclear Service Division for use on Reactor Vessel Studs (reference NSD data letter DL-82-01). A similar lubricant we have authorized for use is "Never-SEEZ-NG-165". Recently, we have been purchasing the lubricants with certification to content and batch number.

Inspections of threaded fasteners over the years have not given indication of any detrimental effects due to the lubricants which have been used.

We have not, nor are we using injection sealant materials in the Primary System.

We trust you will find this information satisfactory; however, should you have further questions, please feel free to contact us.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY

D. E. Moody
Manager of Operations

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COMMONWEALTH OF MASSACHUSETTS)
)ss
MIDDLESEX COUNTY)

Then personally appeared before me, D. E. Moody, who, being duly sworn, did state that he is Manager of Operations of Yankee Atomic Electric Company, that he is duly authorized to execute and file the foregoing request in the name and on the behalf of Yankee Atomic Electric Company and that the statements therein are true to the best of his knowledge and belief.

A. R. Soucy Notary Public
My Commission Expires September 7, 1984