



MAINE YANKEE ATOMIC POWER COMPANY •
ENGINEERING OFFICE

1671 WORCESTER ROAD
FRAMINGHAM, MASSACHUSETTS 01701
617-872-8100

2.C.2.1

August 5,, 1981
FMY-81-116

United States Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Office of Nuclear Reactor Regulation

Reference: a) License No. DPR-36 (Docket No. 50-309)

b) USNRC Letter to MYAPCO dated February 10, 1981. (Generic
Letter No. 81-14)

Subject: Seismic Qualification of Maine Yankee Auxiliary Feedwater (AFW)
System

Dear Sir:

Your letter, Reference (b), requested information concerning seismic design of Maine Yankee's Auxiliary Feedwater System. A review of the system has resulted in the following:

1. All piping from the discharge of the auxiliary feed pumps to the steam generator - with the exception of small bore minimim flow recirculation piping - was fully qualified for the safe shutdown earthquake during initial design and construction.
2. The majority of large bore suction piping from the Demineralized Water Storage Tank to the AFW pumps was analyzed for seismic loads.
3. A field walkdown of small bore branch piping reveals that the design is for deadweight, thermal, and pressure loads. Seismic loads were not considered in the initial design and construction.
4. Table 1 of Enclosure 1 to Reference (b) lists AFW equipment, components and structures. The table is repeated below with a comment on its status of seismic qualification.

| <u>Item</u> | <u>Qualification</u> |
|--------------|----------------------|
| Pumps/Motors | Yes |
| Piping | Partial |
| Valves | Yes |

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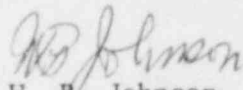
| <u>Item</u> | <u>Qualification</u> |
|--|----------------------|
| Actuators | No |
| Power Supplies | Yes |
| Primary Water and | Tank-Yes |
| Supply Path | Piping-Partial |
| Initiation and Control | Yes |
| Structures Supporting or Housing AFW System Items | Yes |

Maine Yankee is currently reaffirming all the previous seismic analyses of the piping system. The scope of the current program will be increased to include the seismic qualification of AFW piping which supplies each steam generator, to the safe shutdown earthquake. Small bore piping will be analyzed by the chart method or a dynamic analysis, and the valve actuators will either be qualified to seismic loads or replaced. If in the conduct of this program, deficiencies are found in the AFW system, corrective actions will be implemented and physical changes, if necessary, to assure the capability of feedwater delivery to the steam generator, will be accomplished during the next scheduled refueling outage.

We trust this information is satisfactory; however, should you require additional information, please contact us.

Very truly yours,

MAINE YANKEE ATOMIC POWER COMPANY

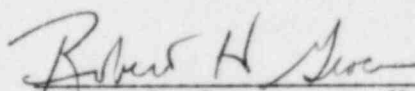

W. P. Johnson
Vice President

JBR/plb

Commonwealth of Massachusetts)
)ss
Middlesex County)

Then personally appeared before me, W. P. Johnson, who, being duly sworn, did state that he is Vice President of Maine Yankee Atomic Power Company, that he is duly authorized to execute and file the foregoing statement in the name and on the behalf of Maine Yankee Atomic Power Company, and that the statements therein are true to the best of his knowledge and belief.




Robert H. Groce Notary Public
My Commission Expires September 14, 1984