

# NORTHEAST UTILITIES



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

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November 29, 1982

Docket No. 50-213  
50-336  
E10618

Mr. Darrell G. Eisenhut, Director  
Division of Licensing  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

References: (1) D. G. Eisenhut letter to All Pressurized Power Reactor Licensees, dated October 26, 1982.

Gentlemen:

Haddam Neck Plant  
Millstone Nuclear Power Station, Unit No. 2  
Response to Generic Letter No. 82-22

In Response to the Reference (1) request, Connecticut Yankee Atomic Power Company (CYAPCO) on behalf of the Haddam Neck Plant and Northeast Nuclear Energy Company (NNECO) on behalf of Millstone Unit No. 2 hereby provide the following information.

### Haddam Neck Plant

The performance of the steam generators at the Haddam Neck Plant has been exceptional to date. There have been no unscheduled outages attributed to steam generator maintenance or repair activities. The number of tubes plugged in any one steam generator has been a maximum of 21 for the years in question. There have been no sleeves installed in the Haddam Neck Plant steam generators.

The costs attributable to steam generator maintenance are those associated with the required inservice inspection programs conducted to ensure continued operability of the equipment. These costs are on the order of one million dollars each year that steam generator inspections are conducted.

The occupational radiation exposure incurred during steam generator maintenance activities at Haddam Neck Plant was a maximum of 263 person-rem in any one year, representing 24% of the annual employee radiation exposure. The average radiation exposure incurred over the four year period in question was 122 person-rem.

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## Millstone Unit No. 2

The steam generators at Millstone Unit No. 2 continue to perform satisfactorily. There have been no unscheduled outages for steam generator maintenance or repair activities. Routine inservice inspection is performed at each refueling above and beyond the operating license requirements. The maximum number of tubes plugged in any one of the two steam generators at Millstone Unit No. 2 from 1979 to present is 429. No sleeves have been installed at the facility.

The costs attributable to steam generator maintenance are those associated with the required inservice inspection programs conducted to ensure continued operability of the components. These costs are on the order of one million dollars each year that steam generator inspections are conducted. Additional steam generator related costs were incurred during the 1981-1982 refueling outage due to the installation of nozzle dams, preventative tube plugging and welded plug repairs. These costs totaled approximately ten million dollars.

Occupational radiation exposures incurred during steam generator maintenance and modification work at Millstone Unit No. 2 was a maximum of 890 person rem (1981-1982 refueling outage) representing 63% of the annual employee radiation exposure. The average radiation exposure incurred over the four year period in question was 310 person-rem.

Both CYAPCO and NNECO institute a radiation protection program based on the principle of maintaining exposures to individuals as-low-as-reasonably-achievable (ALARA). The program includes personnel training, planning and use of equipment mock-ups for activities which could result in significant radiation exposures, the use of an occupational radiation exposure data accounting system, the incorporation of ALARA considerations into plant and equipment design changes as well as special programs and studies for identifying the locations, operations and conditions which have a potential for causing or have caused significant radiation exposure to personnel. CYAPCO and NNECO's commitment to the ALARA programs will ensure that personnel exposures incurred as a result of steam generator maintenance will be minimized.

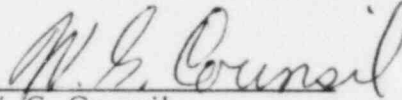
Both CYAPCO and NNECO realize the importance of steam generator integrity as reflected by the extensive resources expended for steam generator inspections, chemistry control, condenser integrity, special studies and owners group participation. The steam generators in use at the Haddam Neck Plant and Millstone Unit No. 2 have only experienced limited degradation. This can be attributed to CYAPCO and NNECO's commitment to programs designed to ensure the continued operability of the steam generators as well as safe plant operation.

The information presented above is that which both CYAPCO and NNECO could obtain with reasonable effort within the time period provided. The remaining information requested by Reference (1) is not readily available and requires a substantial expenditure of our internal resources to compile.

We trust you find this information responsive to the Reference (1) request.

Very truly yours,

CONNECTICUT YANKEE ATOMIC POWER COMPANY  
NORTHEAST NUCLEAR POWER COMPANY

A handwritten signature in cursive script, reading "W. G. Council". The signature is written in dark ink and is positioned above a horizontal line.

W. G. Council  
Senior Vice President