

NORTHEAST UTILITIES



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

730
P.O. BOX 270
HARTFORD, CONNECTICUT 06101
(203) 666-6911

September 22, 1980

Docket Nos. 50-213
50-336
A01138

Mr. Boyce H. Grier, Director
Region 1
Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

- References: (1) B. H. Grier letter to W. G. Council (CYAPCO) dated July 24, 1980 transmitting I&E Bulletin No. 80-18.
(2) B. H. Grier letter to W. G. Council (NNECO) dated July 24, 1980 transmitting I&E Bulletin No. 80-18.

Gentlemen:

Haddam Neck Plant
Millstone Nuclear Power Station, Unit No. 2
Response to I&E Bulletin No. 80-18

In References (1) and (2), Connecticut Yankee Atomic Power Company (CYAPCO) and Northeast Nuclear Energy Company (NNECO), respectively, were requested to determine whether or not minimum cooling is provided for the centrifugal pumps used for high pressure injection for conditions requiring safety injection (SI), prior to satisfying SI termination criteria.

While the subject Bulletin and its Enclosure refer to centrifugal charging pumps, both the Haddam Neck Plant and Millstone Unit No. 2 have separate sets of pumps for charging and high pressure safety injection (HPSI). For the scenario described in the Bulletin, both CYAPCO and NNECO have determined that the HPSI pumps are the pumps of concern.

At the Haddam Neck Plant, CYAPCO has concluded that minimum flow requirements for the HPSI pumps are met under dead-head conditions. This is based on a flow test which was performed during the recently completed refueling outage. The valve in the minimum flow line for each of these pumps is locked open when the plant is in operation.

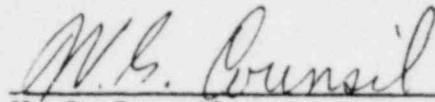
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At Millstone Unit No. 2, NNECO has concluded that the HPSI pumps are supplied adequate flow for cooling under all conditions requiring SI. The minimum flow lines on each pump discharge, which remain open following an SI signal, flow into a header which returns the minimum flow to the refueling water storage tank (RWST). The minimum flow lines isolate only after the RWST has been drained of 370,000 gallons, at which time containment sump recirculation flow is established. In a scenario such as that in Reference (2), minimum flow will be maintained through the RWST.

CYAPCO and NNECO trust that the above information adequately addresses the Staff's concerns in I&E Bulletin No. 80-18.

Very truly yours,

CONNECTICUT YANKEE ATOMIC POWER COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY



W. G. Council
Senior Vice President