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CONNECTICUT YANKEE ATOMIC POWER COMPANY

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April 14, 1980

Docket No. 50-213

Director of Nuclear Reactor Regulation  
Attn: Mr. D. L. Ziemann, Chief  
Operating Reactors Branch #2  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

THIS DOCUMENT CONTAINS  
POOR QUALITY PAGES

References: (1) D. L. Ziemann letter to D. C. Switzer dated March 9, 1980.  
(2) D. C. Switzer letter to D. L. Ziemann dated April 3, 1978.

Gentlemen:

Haddam Neck Plant  
Fire Protection Commitments - Gas Suppression System

Reference (1) provided the NRC Staff's recommendations to provide a local application Halon suppression system to protect safe shutdown switchgear, motor-control center, and DC distribution panel in the switchgear room at the Haddam Neck Plant. The Staff position (PF-17) stated "The switchgear room should be protected by an automatic total flooding Halon suppression system actuated by an early warning detection system".

Reference (2) documents the results of a March 16, 1978 meeting, in Bethesda, in which Connecticut Yankee Atomic Power Company (CYAPCO) agreed to the Staff's alternate suppression method, which would involve:

- (a) An automatic local application Halon suppression system to MCC-5, the 480 volt switchgear panel and the DC distribution panels;
- (b) Sealing the tops of vital equipment to prevent water damage from use of the hose station;
- (c) Providing openings in switchgear equipment panels where practical to assist in manual fire fighting; and
- (d) Providing a 17-pound portable Halon extinguisher.

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However, a detailed review of the system agreed to, and the area to be protected indicates that for the amount of protection afforded, this system is too complicated. It has, therefore, been concluded that the Staff's original recommendation provides the best possible coverage.

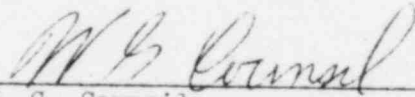
CYAPCO is proposing to provide an automatic total flooding Halon 1301 fire suppression system for the entire switchgear room (fire zone S-8). It will be designed and installed in accordance with NFPA Volume 1, Section 12A (Halon 1301 Systems). Design concentration will be 5% to 6% and the design will include local and remote alarms to indicate system discharge. Design details are on Drawing Numbers D-127989 Sheets 1, 2, and 3, provided as Attachment 1.

As this system is part of the existing license commitments for Haddam Neck, CYAPCO requests that it receive expedited review and approval so that installation can be accomplished prior to scheduled startup from the upcoming refueling outage.

Your cooperation is most appreciated.

Very truly yours,

CONNECTICUT YANKEE ATOMIC POWER COMPANY

  
W. G. Council  
Vice President

Attachment

HADDAM NECK PLANT

FIRE PROTECTION COMMITMENTS - GAS SUPPRESSION SYSTEM

APRIL, 1980