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ELECTRIC

CHARLES CENTER · P. O. BOX 1475 · BALTIMORE, MARYLAND 21203

ARTHUR E. LUNDVALL, JR.
VICE PRESIDENT
SUPPLY

July 6, 1981

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

Subject: Calvert Cliffs Nuclear Power Plant
Units Nos. 1 & 2, Dockets Nos. 50-317 & 50-318
Operational Testing of the Automatic Halon 1301
Fire Suppression Systems
FCR Nos. 79-1024 & 80-1027

Dear Mr. Eisenhut:

Please refer to my letter of May 7, 1981 in which a status was reported on the fire suppression system being installed in the Cable Spreading Rooms and Switchgear Rooms. In the letter we reported that although the system in the Cable Spreading Rooms functioned properly mechanically & electrically, we had difficulty in meeting the specifications for gas concentrations at selected test locations for the specified "soak" period. An additional test was conducted on May 22, 1981 in the Unit 1 Cable Spreading Room to investigate the possibility of using fans to aid in meeting the distribution criteria that was not attained in previous tests. Again, extinguishing concentrations of Halon were attained in all areas of the room; however, the specification for uniform distribution of the gas was not maintained for the required "soak" period. Consultation with the Halon vendor's engineering staff resulted in new design criteria for the addition of Halon bottles and associated piping, and rearrangement of existing distribution piping and nozzles. Upon completion of these design changes, it will be necessary to conduct performance tests to demonstrate the adequacy and reliability of the system. Since these modifications are more extensive than originally envisioned at the time of my last letter, we now anticipate completion and sucessful testing in the Cable Spreading Rooms Systems about September 1, 1981.

Much of the Halon Fire Suppression System design in the Switchgear Rooms is based, to some extent, on the experience gained from the Cable Spreading Rooms. Consequently, we expect to perform sucessful acceptance tests on the systems in the Switchgear Rooms prior to October 1, 1981.

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We wish to emphasize that the automatic Halon Fire Suppression systems originally installed for relay cabinet protection are in service within the Cable Spreading Rooms. In addition, the Halon 1301 total room flooding Fire Suppression Systems in the Cable Spreading Rooms are in service and are functional as to fire detection and suppression. These systems attain discharge concentrations sufficient to suppress potential fires; their only limitation is their inability to satisfy our self imposed requirements of maximum and mimimum agent concentrations over an extended time.

Based on the above, we request an extension of the commitment dates as follows:

1. FCR No. 79-1024 - Halon Suppression Systems in the Cable Spreading Rooms, Units 1 & 2, until September 1, 1981.

2. FCR No. 80-1027 - Halon Suppression Systems in the Switchgear Rooms, Units 1 & 2, until October 1, 1981.

Very truly yours,

C. E. Lundvall, Jr.

cc: J. A. Biddison, Esquire
G. F. Trowbridge, Esquire
Mr. E. L. Conner, Jr. - NRC
Mr. R. E. Architzel, Resident Inspector, CCNPP