



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

ARTHUR E. LUNDVALL, JR.  
VICE PRESIDENT  
SUPPLY

May 7, 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. 70-1024 & 80-1027

Dear Mr. Eisenhut:

Please refer to our Mr. A. E. Lundvall's letters dated March 26, 1981 and April 6, 1981. In the letter of March 26, 1981, we reported on the operational test of the Halon 1301 system protecting Cable Spreading Room No. 1, during which difficulty was experienced with interlocking control wiring to ventilation dampers. We corrected this problem and verified the gas tightness of the rooms to ensure that there was no other significant leakage. During a second operational test on April 29, 1981, the mechanical and electrical functions of the system tested satisfactorily. However, our exacting performance specifications were not met in that the design concentrations at selected test locations were not attained over the entire "soak" period. We have not accepted the system from the vendor or manufacturer because of failing to attain uniform distribution of agent within the room and its associated cable chase. We are meeting with appropriate vendors during the first week of May and, barring a major redesign of the system, we anticipate performing an operational retest within thirty days.

In the interim, the Halon 1301 systems are fully functional and have been placed in service for the Cable Spreading Rooms. However, since design concentrations were exceeded during the latest performance test in some areas, we have found it prudent to issue special instructions to disarm the system during maintenance/modification work when workers are required to work within the cable chases or from ladders or scaffolds within the room. These temporary instructions and controls will be administered by the Control Room Operator.

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With respect to the Halon 1301 Suppression Systems for the four Switchgear Rooms, we completed installation prior to April 20, in accordance with our April 6, 1981 commitment. We are now performing preoperational tests to verify system electrical and mechanical functions, including interlocks to shut down ventilation. In view of the difficulty attaining uniform agent distribution within design concentration limits for the specified time within the Cable Spreading Rooms, we are not confident that we will meet our commitment to put in service the Halon 1301 systems for the Switchgear Rooms by May 18 and June 1 for Units 1 and 2 respectively. In the interest of employee and operational safety, we must further verify design and test these systems.

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

1. PCR No. 79-1024 - Halon Suppression Systems in the Cable Spreading Rooms, Units 1 and 2, until June 8, 1981.
2. PCR No. 80-1027 - Halon Suppression Systems in the Switchgear Rooms, Units 1 and 2, until June 22, 1981.

Very truly yours,



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