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# SNUPPS

Standardized Nuclear Unit  
Power Plant System

March 30, 1984

5 Choke Cherry Road  
Rockville, Maryland 20850  
(301) 869-8010

SLNRC 84-0057 FILE: 0491.10.2  
SUBJ: Final Significant Deficiency Report,  
SDR 83-13: Limitorque Valve Operator  
Limit Switch Rotor Material

Mr. James G. Keppler  
Regional Administrator, Region III  
U.S. Nuclear Regulatory Commission  
799 Roosevelt Road  
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Mr. John T. Collins  
Regional Administrator, Region IV  
U.S. Nuclear Regulatory Commission  
Suite 1000, Parkway Central Plaza  
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Docket Nos. STN 50-482 and STN 50-483

Reference: (1) SLNRC 83-0064 dtd. 12/22/83: Subj. as Above  
(2) SLNRC 84-0031 dtd. 2/13/84: Subj. as Above

Gentlemen:

Reference (1) provided an interim report of a generic deficiency at the SNUPPS; i.e. Callaway and Wolf Creek, plants involving cracks in certain limit switch rotors used in Limitorque-supplied valve actuators. The Reference (1) report indicated the problem possibly to be the result of excessive shrinkage of materials used in the fabrication of these limit switch rotors and, further indicated that actions were being taken to replace existing rotors fabricated from Melamine and Phenolic materials with rotors made from Fibrite materials, a material less susceptible to cracking. Reference (2) committed to issuance of the final report to NRC by March 31, 1984.

At the present time, the SNUPPS Project is proceeding with replacement of Melamine and Phenolic limit switch rotors with units fabricated from Fibrite materials. The basis for this action results in part from the lack of any identified or understood mechanism responsible for causing the types of cracks observed at the two plant sites. Changeout will be made on all safety-related Limitorque valve actuators furnished under the AE (Bechtel) and NSSS (Westinghouse) scopes of supply. Because of current shortages of Fibrite limit switch rotors, it is unlikely that changeout will be fully accomplished prior to Callaway and Wolf Creek fuel load. Rotors inspected and found with cracks will be replaced prior to fuel load. Changeout of the remaining, i.e. non-cracked, units will be accomplished prior to the start of commercial operation at each plant.

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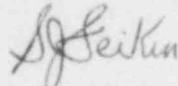
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The Reference (1) report indicated replacement Fibrite rotors would be utilized subject to satisfactory qualification testing. Since issuance of the interim report, we have determined that Fibrite rotors have been properly qualified by Westinghouse and, consequently, can be used in safety-related applications without restriction.

The information furnished herein is considered a final report pursuant to 10CFR50.55(e) criteria. Should you have any questions on this matter, please contact the undersigned.

Very truly yours,



S. J. Seiken  
QA Manager

SJS/dck/2b21

Enclosure

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