

SNUPPS

Standardized Nuclear Unit
Power Plant System

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



September 4, 1981

SLNRC 81-87 FILE: 0541
SUBJ: CEB Review

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Docket Nos. STN 50-482, STN 50-483, STN 50-486

Dear Mr. Denton:

In discussions with Dr. Gordon Edison, NRC Project Manager for the SNUPPS applications, it was learned that an FSAR clarification was required for the Chemical Engineering Branch fire protection review. The enclosure to this letter is revised FSAR page 9.5E-2 which provides the clarification and which will be incorporated in the next Revision to the SNUPPS FSAR.

Very truly yours,

A handwritten signature in dark ink, appearing to read "N. A. Petrick".

Nicholas A. Petrick

RLS/mtk

Enclosure

cc: J. K. Bryan UE
D. F. Schnell UE
G. L. Koester KGE
D. T. McPhee KCPL
W. A. Hansen NRC/CAL
T. T. Vandel NRC/WC

13002
51/1

10 CFR 50 Appendix R

SNUPPS

III.F Automatic Fire Detection

Automatic fire detection systems shall be installed in all areas of the plant that contain or present an exposure fire hazard to safe shutdown or safety-related systems or components. These fire detection systems shall be capable of operating with or without offsite power.

Automatic fire and smoke detector systems are provided throughout the plant on the basis of the fire hazards analysis and consequences of specific postulated fires. A discussion of detector types and specific locations is provided in Appendix 9.5B on an area-by-area basis.

Certain areas which contain safety-related equipment, but have negligible amounts of combustibles and are separated from adjacent areas by 3-hour fire barriers, do not have automatic detectors. The only such areas are auxiliary feedwater valve compartments, A-29 through A-32, RHR Heat Exchanger Rooms A-9 and A-10, and control building corridor, C-35.

As indicated in Section 9.5.1.2, the fire detection system is provided with a backup battery power supply. The batteries are served by a battery charger that can be manually connected to the plant emergency ac power supply.

III.G Fire Protection of Safe Shutdown Capability

1. Fire protection features shall be provided for structures, systems, and components important to safe shutdown. These features shall be capable of limiting fire damage so that:
 - a. One train of systems necessary to achieve and maintain hot shutdown conditions from either the

FSAR Appendix 9.5B provides an area-by-area analysis of the SNUPPS power block that demonstrates that no single fire can prevent safe shutdown.

Redundant trains of systems required to achieve and maintain hot standby are separated by 3-hour-rated fire barriers, or the equivalent provided by