

Appendix R, Section III.L for Fire Area 1-FA-AB-64B. This area contains waste gas compressors, waste gas tanks, storage tank recirculation pumps, a laundry pump, a chemical drain tank pump, and holdup tanks and pumps.

Fire Area 1-FA-AB-64B is made up of multiple rooms that are separated by reinforced concrete barriers. Each room contains either a single component or groups of similar components. The area boundaries are also constructed of reinforced concrete. In-situ combustibles in the fire area consist of lubricating oil in pumps and motors, paper, electrical cabinet internals, and cable insulation. A fire detection system is installed throughout the area except in the Holdup Tank Rooms, No. 1 Pump Waste Monitor Hold-up Tank Pump Room, the Waste Evaporator Feed Pump Room, and in unused space.

Manual fire alarm stations are provided in the area, and, along with the fire detection system, annunciate in the Control Room. Manual fire suppression capability is provided in the form of portable fire extinguishers and manual hose stations. As previously stated, the Commission granted an exemption for the lack of a fixed suppression system on July 20, 1989.

Technical Evaluation for Fire Area 1-FA-AB-64B

Fire Area 1-FA-AB-64B credits alternative shutdown capability to ensure post-fire safe shutdown. Therefore, because the area does not have a fixed suppression system and offsite power is necessary to accomplish safe shutdown, the licensee does not meet the technical requirements of 10 CFR part 50, Appendix R, Sections III.G.3 and III.L.3.

In its letter dated May 1, 2002, PSEG stated that a fire in this area has the potential to result in a loss of the emergency diesel generators (EDGs). However, the fire area contains no cables or equipment that could cause the station to lose offsite power. Therefore, offsite power would not be adversely affected by a fire, and would be available to support safe shutdown activities. Alternative shutdown capability, independent of the fire area, is provided to ensure post-fire safe shutdown. Based on its review, the NRC staff agrees that the licensee would be able to accomplish required safe shutdown activities for a fire in this fire area using offsite power.

The fire area also has a low in-situ combustible loading with few potential ignition sources. Areas containing significant amounts of combustible materials also have a detection system to warn plant operators in the event of

a fire. If a fire were to ignite in this area, the low combustible loadings, the inherent protection offered by the concrete wall construction, and the limited propagation pathways, would restrict the size of the fire. Fire detectors in the area would alarm, and the site fire brigade would be able to extinguish the fire using manual equipment. The NRC staff agrees that an automatic fire suppression system is not necessary to control a fire with the configuration of this fire area. Control Room operators would be able to promptly detect a fire, and the station fire brigade would rapidly respond and extinguish a fire in this area.

Therefore, the NRC staff concludes that the lack of fire suppression specified in Section III.G.3, and the capability to accommodate a loss of offsite power required by Section III.L.3, in Fire Area 1-FA-AB-64B does not present an undue risk to the public health and safety, and is not necessary to achieve the underlying purpose of Sections III.G.3 and III.L.3 of Appendix R to 10 CFR Part 50.

Fire Area 1-FA-AB-84B

The licensee requested an exemption from the loss of offsite power requirement of Section III.L.3 of Appendix R. The fire area contains pumps, heat exchangers, tanks and control centers for the chemical and volume control, CCW, safety injection, containment spray, auxiliary feedwater, waste disposal, and spent pool cooling systems.

Fire Area 1-FA-AB-84B consists of multiple rooms separated by reinforced concrete barriers. Each room contains either a single component or groups of similar components. In-situ combustibles in the area consist of lubricating oil in pumps and motors, flammable liquids stored in cabinets, and cable insulation. The area contains few ignition sources and few paths for fire propagation.

As previously stated, the Commission granted an exemption for the partial fire detection system on July 20, 1989. Fire suppression is provided for the auxiliary feedwater pumps by automatically actuated pre-action sprinkler systems. Fire suppression is provided for the charging pump area by a wet pipe sprinkler system.

Technical Evaluation of Fire Area 1-FA-AB-84B

The licensee does not meet the technical requirements of 10 CFR Part 50, Appendix R, in that Fire Area 1-FA-AB-84B credits alternative shutdown capability, and offsite power is required to accomplish safe shutdown.

Although a fire in this area has the potential to result in a loss of power from the EDGs to the 4160 Volt vital buses, the fire area contains no cables or equipment that could cause the station to also lose offsite power. Consequently, offsite power would not be adversely affected by a fire, and would, thus, be available to support safe shutdown activities in lieu of the EDGs. Alternative shutdown capability, independent of the fire area, is provided through the Chemical and Volume Control System cross-tie from the opposite unit to ensure post-fire safe shutdown. Based on its review, the staff agrees that the licensee would be able to accomplish required safe shutdown activities for a fire in this fire area using offsite power.

Therefore, because the licensee would still be able to achieve safe shutdown, the NRC staff concludes that the lack of capability to accommodate a loss of offsite power required by Section III.L.3, in Fire Area 1-FA-AB-84B does not present an undue risk to the public health and safety, and is not necessary to achieve the underlying purpose of Section III.L.3 of Appendix R to 10 CFR Part 50.

Fire Area 1-FA-AB-84C

The licensee requested an exemption from the fixed suppression requirement of Section III.G.3 of Appendix R for Fire Area 1-FA-AB-84C. This area contains the CCW Pump and Heat Exchanger.

The fire area boundaries are constructed of reinforced concrete. The area has a low combustible material loading, consisting of lubricating oil for the CCW pump and motor and cable insulation. The area contains few fixed ignition sources.

An area-wide fire detection system is installed in the area. A manual fire alarm station is provided in the corridor outside the room. Both systems alarm in the Control Room. Manual fire suppression capability is provided by portable fire extinguishers and manual hose stations located in the corridor outside of the fire area. A fire in this area could affect several systems required for redundant safe shutdown. Therefore, alternative shutdown capability, independent of the fire area, is provided to ensure post-fire safe shutdown.

Technical Evaluation of Fire Area 1-FA-AB-84C

The licensee does not meet the technical requirements of 10 CFR Part 50, Appendix R, Section III.G.3, in that Fire Area 1(2)-FA-AB-84C credits alternative shutdown capability and