

ENCLOSURE 1

PROPOSED TECHNICAL SPECIFICATIONS
SEQUOYAH NUCLEAR PLANT UNITS 1 AND 2

TVA-SQN-TS-58

8409030233 840827
PDR ADOCK 05000327
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TABLE 3.3-11 (Continued)

FIRE DETECTION INSTRUMENTS

<u>Fire Zone</u>	<u>Instrument Location</u>	<u>Minimum Instruments Operable</u>			
		<u>Ionization</u>	<u>Photoelectric</u>	<u>Thermal</u>	<u>Infrared</u>
267	Aux. Instr. Rm. E1. 685	8			
268	Aux. Instr. Rm. E1. 685			9	
269	Computer Rm. E1. 685	4			
270	Computer Rm. E1. 685			4	
276	Intk. Pumping Sta. E1. 690 & 670.5	15			
354	Upr. Compt. Coolers, E1. 778		4		
352	Lwr. Compt. Coolers, E1. 693		4		
356	RCP 2, E1. 693			2 *	
357	RCP 2, E1. 693			2	
360	RCP 1, E1. 693			2 *	
361	RCP 1, E1. 693			2	
364	RCP 3, E1. 693			2 *	
365	RCP 4, E1. 693			2	
368	RCP 4, E1. 693			2 *	
369	RCP 4, E1. 693			2	
372	Reactor Bldg. Annulus		18		
373	Reactor Bldg. Annulus		18		
1	Diesel Gen. Rm. 2B-B, E1. 722			5	
2	Diesel Gen. Rm. 2B-B, E1. 722			5	
3	Diesel Gen. Rm. 1B-B, E1. 722			5	
4	Diesel Gen. Rm. 1B-B, E1. 722			5	
5	Diesel Gen. Rm. 2A-A, E1. 722			5	
6	Diesel Gen. Rm. 2A-A, E1. 722			5	
7	Diesel Gen. Rm. 1A-A, E1. 722			5	
8	Diesel Gen. Rm. 1A-A, E1. 722			5	

*This change is effective upon completion of the associated modification.

TABLE 3.3-11 (Continued)

FIRE DETECTION INSTRUMENTS

FIRE ZONE	INSTRUMENT LOCATION	Ionization	MINIMUM INSTRUMENTS OPERABLE			Infrared
			Photoelectric	Thermal		
296	Aux. CR Bds. 1-4B, 4D, & 11B El. 732	6				
297	Main CR Bds. El. 732	9				
298	Common MCR Bds. El. 732	9				
387	Turbine Cont. Bldg. Wall, El. 706			18		
353	Lwr. Compt. Coolers, El. 693		4			
355	Upr. Compt. Coolers, El. 778		4			
3/4	Reactor Building Annulus		18			
375	Reactor Building Annulus		18			
362	RCP 1 El. 693				2 *	
363	RCP 1 El. 693				2	
358	RCP 2 El. 693				2 *	
359	RCP 2 El. 693				2	
366	RCP 3 El. 693				2 *	
367	RCP 3 El. 693				2	
370	RCP 4 El. 693				2 *	
371	RCP 4 El. 693				2	

* This change is effective upon completion of the modification.

ENCLOSURE 2

JUSTIFICATION FOR PROPOSED TECHNICAL SPECIFICATIONS
TVA-SQN-TS-58

Description of Change

Table 3.3-11 for units 1 and 2 lists the fire detection instruments. This proposed technical specification change revises the type of detectors used in fire zones 356, 360, 364, 368 for unit 1 and fire zones 362, 358, 366, and 370 for unit 2. The new detectors will be thermal detectors. The technical specification is requested to be approved for implementation following completion of the associated modifications.

Justification

The infrared detectors have experienced a high failure rate which has been attributed to the high temperature and high radiation environment surrounding the infrared detectors. The infrared detectors are also subject to spurious alarms caused by flashlight beams. Suitable infrared detector replacements are not available. Thermal detectors are available that have not adversely responded to the high radiation and high temperature environment. This change in detectors will increase the fire detection system availability and reliability. Also, based on the attached significant hazards consideration determination, we have concluded that: (1) the proposed change does not constitute a significant hazards consideration as defined by 10 CFR 50.92; and (2) there is reasonable assurance that the health and safety of the public will not be endangered by the proposed change; and (3) this action will not result in a condition which significantly alters the impact of the station on the environment as described in the NRC Environmental Statement.

SIGNIFICANT HAZARDS CONSIDERATIONS

1. Is the probability of an occurrence or the consequences of an accident previously evaluated in the safety analysis report significantly increased?

No. Replacing the infrared flame detectors with thermal detectors will increase the fire detection systems availability and reliability. Thermal detectors presently located in the same environment have not responded adversely.

2. Is the possibility for an accident of a new or different type than evaluated previously in the safety analysis report created?

No. The fire detection system will perform the identical function as it did prior to the modification.

3. Is the margin of safety significantly reduced?

No. This modification is necessary to increase the system's availability and reliability. The margin of safety will not be reduced.