47E200-253

ANALYSIS OF FIRE HAZARDS

FIRE AREAS					COMBUSTIBLES							FIRE PROTECTION SYSTEMS						FIRE DETECTION SYSTEMS		REMARKS
												FIXED			MANUAL					
															PORTABLE EXTINGUISHERS					
BUILDING	ELEVATION	COORDINATES	ROOM NAME	EQUIPMENT	MATERIAL	NFPA CLASS	TOTAL AMOUNT (LB) (GAL)	HEAT OF COMBUST (BTU/LB) (BTU/GAL)	TOTAL HEAT OF COMBUST. (BTU)	FLOOR AREA (FT²)	FIRE LOAD (BTU/FT²)	TYPE	DENSITY	ACTUATION	TYPE	CAPACITY	STANDPIPE SYSTEM CLASS	TYPE	INTENDED SERVICE	
1	2.	3	4	5	6	7	8	9	10	- 11	12	13	14	15	16	17	18	19	20	21
DIESEL GENERATOR	738.5	-	DAY TANK STORAGE	7-DAY DIESEL FUEL OIL SUPPLY TANK RESERVOIRS 1A-A, 2A-A, 1B-B, 2B-B	FUEL OIL	B III-B	272,000 GAL	146,000 BTU/GAL												NOT CONSIDERED - BURIED IN CONCRETE
										TOTAL FIXED	INSIGNIFICANT									
								COMPARTMENT TOTAL FIXED COMBUSTIBLE FIRE LOAD			INSIGNIFICANT									
	742.0	-	742.0-1 AND 760.5-1 AND STAIR D1 + CO2 STORAGE & CORRIDOR & STAIR D1												HALON DRY CHEMICAL	3A:80B:C 10A:60B:C	III III			
										TOTAL FIXED	INSIGNIFICANT									
								COMPARTMENT TOTAL FIXED COMBUSTIBLE FIRE LOAD			INSIGNIFICANT									
		-	742.0-2 LUBE OIL STORAGE ROOM	STORAGE DRUMS* WITH 55 GAL LUBE OIL EACH	LUBE OIL	B III-B	990 GAL	145,000 BTU/GAL	143,550,000	396		CARBON DIOXIDE		AUTOMATIC	DRY CHEMICAL	10A:60B:C	III	CROSS ZONED IONIZATION SMOKE DETECTORS	ALARM & ACTUATE SUPPRESSION	
										TOTAL FIXED	362,500									
								COMPARTMENT TOTAL FIXED COMBUSTIBLE FIRE LOAD			362,500									
		-	742.0-3 TOILET																	
										TOTAL FIXED	INSIGNIFICANT									
			742.0-5 [illegible]	CABLE TRAYS [illegible] [illegible] [illegible] [illegible]		A & C A & C A & C A & C	[illegible] FT [illegible] FT [illegible] FT [illegible] FT	[illegible]	[illegible]	1187		PRE-ACTION SPRINKLER SYSTEM		AUTOMATIC	DRY CHEMICAL	10A:60B:C	III	CROSS ZONED IONIZATION SMOKE THERMAL DETECTORS	ALARM & ACTUATE SUPPRESSION	
									[illegible]	TOTAL FIXED	[illegible]									
								COMPARTMENT TOTAL FIXED COMBUSTIBLE FIRE LOAD			[illegible]									

TI APERTURE CARD

SCALE: EXCEPT AS NOTED

POWERHOUSE
DIESEL GENERATOR BUILDING

FIRE HAZARD ANALYSIS TABLE
EL 738.5 & EL 742.0

WATTS BAR NUCLEAR PLANT
TENNESSEE VALLEY AUTHORITY
DIVISION OF ENGINEERING DESIGN

SUBMITTED | RECOMMENDED | APPROVED

INSPECTED AND APPROVED FOR ISSUE

KNOXVILLE | 47E200-253