



John C. Brons
Senior Vice President
Nuclear Generation

September 10, 1986
IPN-86- 43

Director of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Mr. Steven A. Varga, Director
PWR Project Directorate No. 3
Division of PWR Licensing-A

Subject: Indian Point 3 Nuclear Power Plant
Docket No. 50-286
Appendix R Reevaluation Report
Revised Table 2-2

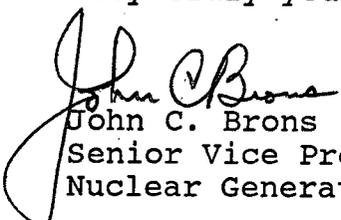
Reference: 1. Letter from Mr. J.P. Bayne to Mr. S.A. Varga,
"Reevaluation of Appendix R Section III.G Require-
ments for Indian Point 3," dated August 16, 1984.

Dear Mr. Varga:

The purpose of this letter is to transmit the recently updated Table 2-2, "Fire Area Boundary Characteristics," of the Reference (1) report. This table was revised at the request of the NRC during their audit of Appendix R conducted July 14-18, 1986. The revised Table 2-2 includes notations referring to the additional evaluations of deviations from the requirements of Appendix R which were performed pursuant to the guidance of Generic Letter 86-10. Also provided in this revision are clarifications to several fire area boundaries with respect to the adjacent fire zones and fire loadings.

Should you or your staff have any questions regarding this matter, please contact Mr. P. Kokolakis of my staff.

Very truly yours,


John C. Brons
Senior Vice President
Nuclear Generation

Enclosure
cc: see next page

8609150171 860910
PDR ADDCK 05000286
F PDR

A006
11

cc: Resident Inspector's Office
Indian Point Unit 3
U.S. Nuclear Regulatory Commission
Buchanan, N.Y. 10511

Don Neighbors, Senior Project Manager
PWR Project Directorate No. 3
Division of PWR Licensing-A
U.S. Nuclear Regulatory Commission
Bethesda, MD 20014

Fire area Zone	Fire Description	Fire zone Boundary	External Wall	Adjacent Fire area	Adjacent Fire Area Zone	Adjacent Fire zone Fire severity (minutes)	Minimum Boundary Rating Required (hr)	Remarks
AFW-6	23 AUXILIARY BOILER FEED PUMP ROOM	CEILING		TBL-5	52A	0	1	
AFW-6	23 AUXILIARY BOILER FEED PUMP ROOM	EAST	Y	YARD	YARD	0	0	
AFW-6	23 AUXILIARY BOILER FEED PUMP ROOM	FLOOR	Y	YARD	YARD	0	0	
AFW-6	23 AUXILIARY BOILER FEED PUMP ROOM	NORTH	Y	TBL-5	54A	0	0	SEE TABLE 2-2 NOTE 4
				YARD	YARD	0	0	
AFW-6	23 AUXILIARY BOILER FEED PUMP ROOM	SOUTH	Y	YARD	YARD	0	0	SEE TABLE 2-2 NOTE 4
AFW-6	23 AUXILIARY BOILER FEED PUMP ROOM	WEST	Y	YARD	YARD	0	0	SEE TABLE 2-2 NOTE 4

Fire area	Fire Description... Zone	Fire zone... Boundary	External Wall	Adjacent... Fire area	Adjacent Fire Area Zone	Adjacent... Fire zone Fire severity (minutes)	Minimum Boundary Rating Required (hr)	Remarks.....
CNT-1	70A RCP AREA	FLOOR	Y	YARD	YARD	0	0	
CNT-1	71A RCP AREA	FLOOR	Y	YARD	YARD	0	0	
CNT-1	72A OUTER ANNULUS	EAST		PAB-2	59A 90A 91A	4 0 0	1 1 1	
CNT-1	72A OUTER ANNULUS	FLOOR	Y	YARD	YARD	0	0	
CNT-1	72A OUTER ANNULUS	SOUTH		PAB-2 PAB-2 PAB-2	59A 622 62A	4 0 0	1 1 1	
CNT-1	75A OUTER ANNULUS	FLOOR	Y	YARD	YARD	0	0	
CNT-1	75A OUTER ANNULUS	SOUTH	Y	ETN-4 YARD	73A YARD	62 0	2 2	
CNT-1	75A OUTER ANNULUS	WEST	Y	TBL-5 ETN-4 YARD	57A 73A YARD	13 62 0	2 2 2	
CNT-1	76A OUTER ANNULUS	FLOOR	Y	YARD	YARD	0	0	
CNT-1	76A OUTER ANNULUS	WEST	Y	TBL-5 YARD	57A YARD	13 0	2 1	
CNT-1	77A OUTER ANNULUS	EAST	Y	YARD	YARD	0	0	
CNT-1	77A OUTER ANNULUS	FLOOR	Y	YARD	YARD	0	0	
CNT-1	77A OUTER ANNULUS	NORTH	Y	YARD	YARD	0	0	
CNT-1	78A RECIRCULATION PUMPS AND RHR HEAT EXCHANGER	FLOOR	Y	YARD	YARD	0	0	
CNT-1	80A CONTAINMENT FAN SOUTH COOLER AREA		Y	YARD	YARD	0	0	
CNT-1	80A CONTAINMENT FAN WEST COOLER AREA		Y	YARD	YARD	0	0	
CNT-1	81A CONTAINMENT FAN NORTH COOLER AREA		Y	YARD	YARD	0	0	

Fire area. Zone	Fire Description....	Fire zone... Boundary	External Wall	Adjacent.... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
CNT-1	81A CONTAINMENT FAN WEST COOLER AREA		Y	TBL-5 YARD	57A YARD	13 0	1 1	
CNT-1	82A CONTAINMENT FAN NORTH COOLER AREA		Y	YARD	YARD	0	0	
CNT-1	82A CONTAINMENT FAN WEST COOLER AREA		Y	YARD	YARD	0	0	
CNT-1	83A CONTAINMENT FAN EAST COOLER AREA		Y	YARD	YARD	0	0	
CNT-1	83A CONTAINMENT FAN NORTH COOLER AREA		Y	YARD	YARD	0	0	
CNT-1	84A CONTAINMENT FAN EAST COOLER AREA		Y	PAB-2 YARD	88A YARD	2 0	1 1	
CNT-1	84A CONTAINMENT FAN SOUTH COOLER AREA		Y	PAB-2 YARD	59A 88A YARD	4 2 0	1 1 1	
CNT-1	85A INCORE DETECTOR SOUTH DRIVE AREA		Y	YARD	YARD	0	0	
CNT-1	87A OUTER ANNULUS EAST		Y	YARD	YARD	0	0	
CNT-1	86A REFUELING FLOOR CEILING AREA		Y	YARD	YARD	0	0	
CNT-1	86A REFUELING FLOOR EAST AREA		Y	YARD	YARD	0	0	
CNT-1	86A REFUELING FLOOR NORTH AREA		Y	YARD	YARD	0	0	
CNT-1	86A REFUELING FLOOR SOUTH AREA		Y	YARD	YARD	0	0	
CNT-1	86A REFUELING FLOOR WEST AREA		Y	YARD	YARD	0	0	

...

Fire area	Fire Description.... Zone	Fire zone... Boundary	External Wall	Adjacent... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
CTL-3	14	SWITCHGEAR ROOM FLOOR	Y	YARD	YARD	0	0	
CTL-3	14	SWITCHGEAR ROOM NORTH	Y	YARD	64A	0	3	
				YARD	65A	0	3	
				YARD	66A	0	3	
				YARD	67A	0	3	
				YARD	YARD	0	3	
CTL-3	14	SWITCHGEAR ROOM SOUTH	Y	YARD	YARD	0	0	
CTL-3	14	SWITCHGEAR ROOM WEST		TBL-5	37A	24	3	
CTL-3	33A	DELUGE VALVE FLOOR ROOM	Y	YARD	YARD	0	0	
CTL-3	33A	DELUGE VALVE NORTH ROOM	Y	YARD	64A	0	3	
				YARD	66A	0	3	
CTL-3	33A	DELUGE VALVE WEST ROOM		TBL-5	37A	24	3	
CTL-3	35A	AIR CONDITIONING ROOM	Y	YARD	YARD	0	0	
CTL-3	35A	AIR CONDITIONING ROOM	Y	YARD	65A	0	3	
				YARD	67A	0	3	
CTL-3	34A	FAN ROOM	Y	YARD	YARD	0	0	
CTL-3	34A	FAN ROOM	Y	YARD	YARD	0	0	
CTL-3	34A	FAN ROOM	Y	YARD	YARD	0	0	
CTL-3	11	CABLE SPREADING EAST ROOM		ETN-4	60A	63	3	SEE TABLE 2-2 NOTE 4
				ETN-4	7A	56	3	
CTL-3	11	CABLE SPREADING NORTH ROOM	Y	YARD	64A	0	3	
				YARD	65A	0	3	
				YARD	66A	0	3	
				YARD	67A	0	3	

Fire area: Zone	Fire Description.... Zone	Fire zone... Boundary	External Wall	Adjacent.... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum Boundary Rating Required (hr)	Remarks.....
CTL-3	11 CABLE SPREADING SOUTH ROOM		Y	YARD	YARD	0	0	
CTL-3	11 CABLE SPREADING WEST ROOM			TBL-5	43A	11	3	SEE TABLE 2-2 NOTE 4
CTL-3	12 BATTERY ROOM 31 SOUTH		Y	YARD	YARD	0	0	
CTL-3	13 BATTERY ROOM 32 SOUTH		Y	YARD	YARD	0	0	
CTL-3	15 CONTROL ROOM CEILING		Y	YARD	YARD	0	0	
CTL-3	15 CONTROL ROOM NORTH		Y	YARD	64A	0	3	
				YARD	65A	0	3	
				YARD	66A	0	3	
				YARD	67A	0	3	
CTL-3	15 CONTROL ROOM SOUTH		Y	YARD	YARD	0	0	
CTL-3	15 CONTROL ROOM WEST			TBL-5	49A	1	3	
CTL-3	10 DG NO. 31 ROOM CEILING		Y	YARD	YARD	0	0	
CTL-3	10 DG NO. 31 ROOM FLOOR		Y	YARD	YARD	0	0	
CTL-3	10 DG NO. 31 ROOM SOUTH		Y	YARD	YARD	0	0	
CTL-3	10 DG NO. 31 ROOM WEST		Y	YARD	YARD	0	0	
CTL-3	101A DIESEL GENERATOR ROOM NO. 31 CEILING		Y	YARD	YARD	0	0	
CTL-3	101A DIESEL GENERATOR ROOM NO. 32 FLOOR		Y	YARD	YARD	0	0	
CTL-3	101A DIESEL GENERATOR ROOM NO. 32 SOUTH		Y	YARD	YARD	0	0	
CTL-3	102A DIESEL GENERATOR ROOM NO. 32 CEILING		Y	YARD	YARD	0	0	
CTL-3	102A DIESEL GENERATOR ROOM EAST			YARD	YARD	0	0	

Fire area Zone	Fire Description....	Fire zone... Boundary	External Wall	Adjacent.... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
	NO. 33							
CTL-3	102A DIESEL GENERATOR ROOM NO. 33	FLOOR	Y	YARD	YARD	0	0	
CTL-3	102A DIESEL GENERATOR ROOM NO. 33	SOUTH	Y	YARD	YARD	0	0	
CTL-3	36A SUMP AND PUMP ROOM	EAST	Y	YARD	YARD	0	0	
CTL-3	36A SUMP AND PUMP ROOM	FLOOR	Y	YARD	YARD	0	0	
CTL-3	36A SUMP AND PUMP ROOM	SOUTH	Y	YARD	YARD	0	0	

...

Fire area	Fire Zone	Fire Description	Fire zone Boundary	External Wall	Adjacent Fire area	Adjacent Fire Area Zone	Adjacent Fire zone Fire severity (minutes)	Minimum Boundary Rating Required (hr)	Remarks
ETN-4	7A	ELECTRICAL TUNNEL (LOWER)	EAST		PAB-2	4A	1	2	
					PAB-2	58A	4	2	
					PAB-2	5A	0	2	
					PAB-2	622	0	2	
					PAB-2	68A	1	2	
					PAB-2	9	1	2	
ETN-4	7A	ELECTRICAL TUNNEL (LOWER)	FLOOR		PAB-2	10A	0	2	SEE TABLE 2-2 NOTE 4
					PAB-2	14A	2	2	
					PAB-2	15A	0	2	
					PAB-2	8A	0	2	
ETN-4	7A	ELECTRICAL TUNNEL (LOWER)	NORTH		PAB-2	622	0	2	
ETN-4	7A	ELECTRICAL TUNNEL (LOWER)	SOUTH	Y	YARD	YARD	0	0	
ETN-4	7A	ELECTRICAL TUNNEL (LOWER)	WEST		CTL-3	11	117	3	SEE TABLE 2-2 NOTE 4
					YARD	65A	0	3	
					YARD	67A	0	3	
ETN-4	74A	ELECTRICAL PENETRATION AREA (LOWER)	EAST	Y	PAB-2	622	0	2	
ETN-4	74A	ELECTRICAL PENETRATION AREA (LOWER)	FLOOR	Y	YARD	YARD	0	0	
ETN-4	74A	ELECTRICAL PENETRATION AREA (LOWER)	NORTH	Y	TBL-5	52A	0	2	
					YARD	YARD	0	2	
ETN-4	74A	ELECTRICAL PENETRATION AREA (LOWER)	SOUTH	Y	YARD	YARD	0	0	
ETN-4	74A	ELECTRICAL PENETRATION AREA (LOWER)	WEST	Y	TBL-5	52A	0	2	
					YARD	YARD	0	2	

Fire area	Fire Description... Zone	Fire zone... Boundary	External Wall	Adjacent... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
ETN-4	60A ELECTRICAL TUNNEL (UPPER)	CEILING		PAB-2	17A	8	2	
				PAB-2	63A	0	2	
ETN-4	60A ELECTRICAL TUNNEL (UPPER)	EAST		PAB-2	58A	4	2	
				PAB-2	5A	0	2	
				PAB-2	622	0	2	
ETN-4	60A ELECTRICAL TUNNEL (UPPER)	NORTH		PAB-2	622	0	2	
ETN-4	60A ELECTRICAL TUNNEL (UPPER)	SOUTH	Y	YARD	YARD	0	0	
ETN-4	60A ELECTRICAL TUNNEL (UPPER)	WEST		CTL-3	11	117	3	SEE TABLE 2-2 NOTE 4
				YARD	65A	0	3	
				YARD	67A	0	3	
ETN-4	73A ELECTRICAL PENETRATION AREA (UPPER)	CEILING		YARD	YARD	0	0	
ETN-4	73A ELECTRICAL PENETRATION AREA (UPPER)	EAST		PAB-2	59A	4	2	
				PAB-2	622	0	2	
				CNT-1	75A	105	2	
ETN-4	73A ELECTRICAL PENETRATION AREA (UPPER)	NORTH		TBL-5	57A	13	2	
				CNT-1	75A	105	2	
ETN-4	73A ELECTRICAL PENETRATION AREA (UPPER)	SOUTH	Y	YARD	YARD	0	0	
ETN-4	73A ELECTRICAL PENETRATION AREA (UPPER)	WEST		TBL-5	57A	13	2	
				YARD	YARD	0	2	

Fire area. Zone	Fire Description....	Fire zone... Boundary	External Wall	Adjacent... Fire area	Adjacent Fire Area Zone	Adjacent... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
PAB-2	10A VALVE CORRIDOR	CEILING		ETN-4	7A	56	2	
PAB-2	10A VALVE CORRIDOR	FLOOR	Y	YARD	YARD	0	0	
PAB-2	10A VALVE CORRIDOR	WEST	Y	YARD	YARD	0	0	
PAB-2	11A SUMP TANK AND PUMP ROOM	FLOOR	Y	YARD	YARD	0	0	
PAB-2	12A CORRIDOR PAB ELEV. 15-0	EAST	Y	YARD	YARD	0	0	
PAB-2	12A CORRIDOR PAB ELEV. 15-0	FLOOR	Y	YARD	YARD	0	0	
PAB-2	13A LARGE GAS DECAY TANK ROOM	EAST	Y	YARD	YARD	0	0	
PAB-2	13A LARGE GAS DECAY TANK ROOM	FLOOR	Y	YARD	YARD	0	0	
PAB-2	13A LARGE GAS DECAY SOUTH TANK ROOM			YARD	YARD	0	0	
PAB-2	14A CORRIDOR PAB ELEV 15-0	CEILING		ETN-4	7A	56	2	
PAB-2	14A CORRIDOR PAB ELEV 15-0	FLOOR	Y	YARD	YARD	0	0	
PAB-2	14A CORRIDOR PAB ELEV 15-0	SOUTH	Y	YARD	YARD	0	0	
PAB-2	14A CORRIDOR PAB ELEV 15-0	WEST	Y	YARD	YARD	0	0	
PAB-2	15A SPENT RESIN STORAGE TANK ROOM	CEILING		ETN-4	7A	56	2	
PAB-2	15A SPENT RESIN STORAGE TANK ROOM	FLOOR	Y	YARD	YARD	0	0	
PAB-2	15A SPENT RESIN STORAGE TANK ROOM	SOUTH	Y	YARD	YARD	0	0	

NEW YORK POWER AUTHORITY - INDIAN POINT 3 NUCLEAR POWER PLANT
 TABLE 2-2 FIRE AREA BOUNDARY CHARACTERISTICS 14:18:06 05 AUG 1986 PAGE 10

Fire area	Fire Description.... Zone	Fire zone... Boundary	External Wall	Adjacent.... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity Zone (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
PAB-2	15A SPENT RESIN STORAGE TANK ROOM	WEST	Y	YARD	YARD	0	0	
PAB-2	16A CHEMICAL DRAIN TANK ROOM	FLOOR	Y	YARD	YARD	0	0	
PAB-2	16A CHEMICAL DRAIN TANK ROOM	SOUTH	Y	YARD	YARD	0	0	
PAB-2	3 RHR PUMP ROOM 31	FLOOR	Y	YARD	YARD	0	0	
PAB-2	3 RHR PUMP ROOM 31	NORTH	Y	YARD	YARD	0	0	
PAB-2	4 RHE PUMP ROOM 32	EAST	Y	YARD	YARD	0	0	
PAB-2	4 RHE PUMP ROOM 32	FLOOR	Y	YARD	YARD	0	0	
PAB-2	4 RHE PUMP ROOM 32	NORTH	Y	YARD	YARD	0	0	
PAB-2	65A PIPING AND VALVE ROOM	FLOOR	Y	YARD	YARD	0	0	
PAB-2	65A PIPING AND VALVE ROOM	NORTH	Y	YARD	YARD	0	0	
PAB-2	8A EMPTY ROOM	CEILING		ETN-4	7A	56	2	
PAB-2	8A EMPTY ROOM	FLOOR	Y	YARD	YARD	0	0	
PAB-2	8A EMPTY ROOM	NORTH	Y	YARD	YARD	0	0	
PAB-2	8A EMPTY ROOM	WEST	Y	YARD	YARD	0	0	
PAB-2	9A RHR FUTURE PUMP ROOM	FLOOR	Y	YARD	YARD	0	0	
PAB-2	9A RHR FUTURE PUMP ROOM	NORTH	Y	YARD	YARD	0	0	
PAB-2	5A PIPING TUNNEL	EAST	Y			0	0	

Fire area.	Fire Zone	Description....	Fire zone... Boundary	External Wall	Adjacent.... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
PAB-2	5A	PIPING TUNNEL	NORTH	Y	YARD	YARD	0	0	
PAB-2	5A	PIPING TUNNEL	WEST		ETN-4 ETN-4	60A 7A	63 56	2 2	
PAB-2	4A	CORRIDOR	WEST		ETN-4	7A	56	2	
PAB-2	68A	ION EXCHANGE COLUMN ROOM	SOUTH	Y	YARD	YARD	0	0	
PAB-2	68A	ION EXCHANGE COLUMN ROOM	WEST		ETN-4	7A	56	2	
PAB-2	9	SAFETY INJECTION PUMP ROOM	WEST		ETN-4	7A	56	2	
PAB-2	2	CONTAINMENT SPRAY PUMP ROOM	EAST	Y	YARD	YARD	0	0	
PAB-2	2	CONTAINMENT SPRAY PUMP ROOM	FLOOR		YARD	YARD	0	0	
PAB-2	2	CONTAINMENT SPRAY PUMP ROOM	SOUTH	Y	YARD	YARD	0	0	
PAB-2	3A	PIPING TUNNEL	EAST	Y	YARD	YARD	0	0	
PAB-2	3A	PIPING TUNNEL	FLOOR	Y	YARD	98A YARD	0 0	0 0	
PAB-2	1	CCW PUMP ROOM	FLOOR	Y	YARD	YARD	0	0	
PAB-2	1	CCW PUMP ROOM	NORTH	Y	YARD	YARD	0	0	
PAB-2	1A	FLASH EVAPORATOR ROOM	EAST	Y	YARD	YARD	0	0	
PAB-2	1A	FLASH EVAPORATOR ROOM	FLOOR	Y	YARD	YARD	0	0	
PAB-2	1A	FLASH EVAPORATOR ROOM	NORTH	Y	YARD	YARD	0	0	
PAB-2	2A	PRIMARY MAKEUP WATER PUMP ROOM	FLOOR	Y	YARD	YARD	0	0	

Fire area. Zone	Fire Description.... Zone	Fire zone... Boundary	External Wall	Adjacent Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
PAB-2	2A PRIMARY MAKEUP WATER PUMP ROOM	SOUTH	Y	YARD	YARD	0	0	
PAB-2	58A PIPING TUNNEL	FLOOR	Y	YARD	YARD	0	0	
PAB-2	58A PIPING TUNNEL	WEST		ETN-4 ETN-4	60A 7A	63 56	2 2	
PAB-2	17A CORRIDOR	FLOOR		ETN-4	60A	63	2	
PAB-2	17A CORRIDOR	NORTH	Y	YARD	YARD	0	0	
PAB-2	17A CORRIDOR	SOUTH	Y	YARD	YARD	0	0	
PAB-2	17A CORRIDOR	WEST	Y	YARD	YARD	0	0	
PAB-2	18A WASTE GAS COMPRESSOR ROOM	SOUTH	Y	YARD	YARD	0	0	
PAB-2	19A WASTE EVAPORATOR ROOM	SOUTH	Y	YARD	YARD	0	0	
PAB-2	21A WASTE STORAGE AND DRUMMING AREA	NORTH	Y	YARD	YARD	0	0	
PAB-2	5 CHARGING PUMP ROOM 31	NORTH	Y	YARD	YARD	0	0	
PAB-2	6 CHARGING PUMP ROOM 32	NORTH	Y	YARD	YARD	0	0	
PAB-2	63A WASTE CONDENSATE TANK ROOM	CEILING	Y	YARD	YARD	0	0	
PAB-2	63A WASTE CONDENSATE TANK ROOM	FLOOR		ETN-4	60A	63	2	
PAB-2	63A WASTE CONDENSATE TANK ROOM	SOUTH	Y			0	0	
PAB-2	63A WASTE CONDENSATE TANK	WEST	Y	YARD	YARD	0	0	

NEW YORK POWER AUTHORITY - INDIAN POINT 3 NUCLEAR POWER PLANT
 TABLE 2-2 FIRE AREA BOUNDARY CHARACTERISTICS 14:18:13 05 AUG 1986 PAGE 13

Fire area	Fire Description Zone	Fire zone... Boundary	External Wall	Adjacent... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum Boundary Rating Required (hr)	Remarks.....
	ROOM							
PAB-2	7 CHARGING PUMP ROOM 33	NORTH	Y	YARD	YARD	0	0	
PAB-2	8 BORIC ACID TANK AREA	EAST	Y			0	0	
PAB-2	8 BORIC ACID TANK AREA	NORTH	Y	YARD	YARD	0	0	
PAB-2	22A BORIC ACID EVAPORATOR ROOM 32	CEILING	Y	YARD	YARD	0	0	
PAB-2	22A BORIC ACID EVAPORATOR ROOM 32	SOUTH	Y	YARD	YARD	0	0	
PAB-2	23A ENTRY FOR ZONES 22A AND 24A	CEILING	Y	YARD	YARD	0	0	
PAB-2	23A ENTRY FOR ZONES 22A AND 24A	SOUTH	Y	YARD	YARD	0	0	
PAB-2	24A BORIC ACID EVAPORATOR ROOM 31	CEILING	Y	YARD	YARD	0	0	
PAB-2	24A BORIC ACID EVAPORATOR ROOM 31	SOUTH	Y	YARD	YARD	0	0	
PAB-2	25A SEAL WATER HEAT EXCHANGER ROOM	CEILING	Y	YARD	YARD	0	0	
PAB-2	25A SEAL WATER HEAT EXCHANGER ROOM	SOUTH	Y	YARD	YARD	0	0	
PAB-2	25A SEAL WATER HEAT EXCHANGER ROOM	WEST	Y	YARD	YARD	0	0	
PAB-2	26A REACTOR COOLANT FILTER	CEILING	Y	YARD	YARD	0	0	
PAB-2	26A REACTOR COOLANT FILTER	NORTH	Y	YARD	YARD	0	0	

Fire area.	Fire Description.... Zone	Fire zone... Boundary	External Wall	Adjacent.... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
PAB-2	26A REACTOR COOLANT WEST FILTER		Y	YARD	YARD	0	0	
PAB-2	27A CORRIDOR PAB ELEV. 73-0	CEILING	Y	YARD	YARD	0	0	
PAB-2	27A CORRIDOR PAB ELEV. 73-0	EAST	Y			0	0	
PAB-2	27A CORRIDOR PAB ELEV. 73-0	NORTH	Y	YARD	YARD	0	0	
PAB-2	28A VALVE CORRIDOR	CEILING	Y	YARD	YARD	0	0	
PAB-2	29A VOLUME CONTROL TANK ROOM	CEILING	Y	YARD	YARD	0	0	
PAB-2	29A VOLUME CONTROL TANK ROOM	NORTH	Y	YARD	YARD	0	0	
PAB-2	30A VALVE CORRIDOR	CEILING	Y	YARD	YARD	0	0	
PAB-2	30A VALVE CORRIDOR	NORTH	Y	YARD	YARD	0	0	
PAB-2	31A CONCENTRATE HOLDING TANK ROOM	CEILING	Y	YARD	YARD	0	0	
PAB-2	31A CONCENTRATE HOLDING TANK ROOM	NORTH	Y	YARD	YARD	0	0	
PAB-2	32A NON-REGENERATIV E HEAT EXCHANGER ROOM	CEILING	Y	YARD	YARD	0	0	
PAB-2	32A NON-REGENERATIV E HEAT EXCHANGER ROOM	NORTH	Y	YARD	YARD	0	0	
PAB-2	89A STORAGE AREA	CEILING	Y	YARD	YARD	0	0	
PAB-2	89A STORAGE AREA	EAST	Y			0	0	
PAB-2	89A STORAGE AREA	SOUTH	Y			0	0	

Fire area. Zone	Fire Description....	Fire zone... Boundary	External Wall	Adjacent.... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
PAB-2	61A PIPING TRENCH	EAST	Y	YARD	YARD	0	0	
PAB-2	61A PIPING TRENCH	FLOOR	Y	YARD	YARD	0	0	
PAB-2	61A PIPING TRENCH	NORTH	Y	YARD	YARD	0	0	
PAB-2	622 BORON INJECTION TANK	FLOOR	Y	YARD	YARD	0	0	
PAB-2	622 BORON INJECTION TANK	NORTH		CNT-1	72A	5	1	
PAB-2	622 BORON INJECTION TANK	SOUTH		ETN-4	60A	63	2	
				ETN-4	7A	56	2	
PAB-2	622 BORON INJECTION TANK	WEST		ETN-4	60A	63	2	
				ETN-4	73A	62	2	
				ETN-4	74A	39	2	
				ETN-4	7A	56	2	
PAB-2	79A STEAM GENERATOR BLOWDOWN TANK	FLOOR	Y	YARD	YARD	0	0	
PAB-2	62A PIPING TRENCH	FLOOR	Y	YARD	YARD	0	0	
PAB-2	62A PIPING TRENCH	NORTH		CNT-1	72A	5	1	
PAB-2	59A PIPING PENETRATION AREA	EAST	Y		90A	0	0	
					91A	0	0	
				YARD	YARD	0	0	
PAB-2	59A PIPING PENETRATION AREA	FLOOR	Y	YARD	YARD	0	0	
PAB-2	59A PIPING PENETRATION AREA	NORTH		CNT-1	72A	5	1	
				CNT-1	84A	0	1	
PAB-2	59A PIPING PENETRATION AREA	WEST		CNT-1	72A	5	2	

Fire area.	Fire Description.... Zone	Fire zone... Boundary	External Wall	Adjacent.... Fire area	Adjacent Fire Area Zone	Adjacent.... Fire zone Fire severity (minutes)	Minimum Boundary Rating Required (hr)	Remarks.....
				ETN-4	73A	62	2	
PAB-2	88A PAB FSB AND CONTAINMENT VENTILATION SYSTEMS AREA	CEILING	Y	YARD	YARD	0	0	
PAB-2	88A PAB FSB AND CONTAINMENT VENTILATION SYSTEMS AREA	EAST			90A	0	1	
					91A	0	1	
PAB-2	88A PAB FSB AND CONTAINMENT VENTILATION SYSTEMS AREA	NORTH		CNT-1	84A	0	1	
				CNT-1	87A	10	1	
PAB-2	88A PAB FSB AND CONTAINMENT VENTILATION SYSTEMS AREA	SOUTH	Y	YARD	YARD	0	0	

Fire area. Zone	Fire Description....	Fire zone... Boundary	External Wall	Adjacent.... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
TBL-5	52A CHEMICAL ADDITION AREA	EAST	Y	ETN-4 YARD	74A YARD	39 0	2 2	
TBL-5	52A CHEMICAL ADDITION AREA	FLOOR		AFW-6	23	6	1	
TBL-5	52A CHEMICAL ADDITION AREA	SOUTH	Y	ETN-4 YARD	74A YARD	39 0	1 1	
TBL-5	52A CHEMICAL ADDITION AREA	WEST	Y	YARD	YARD	0	0	
TBL-5	57A MAIN STEAM AND FEEDWATER VALVE AREA	CEILING	Y	YARD	YARD	0	0	
TBL-5	57A MAIN STEAM AND FEEDWATER VALVE AREA	EAST		ETN-4 CNT-1 CNT-1 CNT-1	73A 75A 76A 81A	62 105 41 0	2 2 2	
TBL-5	57A MAIN STEAM AND FEEDWATER VALVE AREA	SOUTH	Y	ETN-4 YARD	73A YARD	62 0	2 2	
TBL-5	57A MAIN STEAM AND FEEDWATER VALVE AREA	WEST	Y	YARD	YARD	0	0	
TBL-5	54A MAIN BOILER FEEDWATER REGULATOR AREA	EAST	Y	YARD	YARD	0	0	
TBL-5	54A MAIN BOILER FEEDWATER REGULATOR AREA	FLOOR	Y	YARD	YARD	0	0	
TBL-5	54A MAIN BOILER FEEDWATER REGULATOR AREA	NORTH	Y		554	0	0	
				YARD	YARD	0	0	

Fire area.	Fire Description.... Zone	Fire zone... Boundary	External Wall	Adjacent.... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
TBL-5	54A MAIN BOILER FEEDWATER REGULATOR AREA	SOUTH	Y	AFW-6	23	6	1	SEE TABLE 2-2 NOTE 4
				YARD	YARD	0	1	
TBL-5	54A MAIN BOILER FEEDWATER REGULATOR AREA	WEST	Y	YARD	YARD	0	0	
TBL-5	53A FEEDWATER BYPASS REGULATOR PLATFORM	CEILING	Y	YARD	YARD	0	0	
TBL-5	53A FEEDWATER BYPASS REGULATOR PLATFORM	EAST	Y	YARD	YARD	0	0	
TBL-5	53A FEEDWATER BYPASS REGULATOR PLATFORM	NORTH	Y	YARD	YARD	0	0	
TBL-5	53A FEEDWATER BYPASS REGULATOR PLATFORM	SOUTH	Y	YARD	YARD	0	0	
TBL-5	53A FEEDWATER BYPASS REGULATOR PLATFORM	WEST	Y	YARD	YARD	0	0	
TBL-5	16 TURBINE OIL RESERVOIR AREA	FLOOR	Y	YARD	YARD	0	0	
TBL-5	16 TURBINE OIL RESERVOIR AREA	NORTH	Y	YARD	YARD	0	0	
TBL-5	17 TURBINE OIL RESERVOIR AREA	EAST				0	0	
TBL-5	17 TURBINE OIL RESERVOIR AREA	FLOOR	Y	YARD	YARD	0	0	
TBL-5	18 TURBINE LUBE	FLOOR	Y	YARD	YARD	0	0	

Fire area. Zone	Fire Description....	Fire zone... Boundary	External Wall	Adjacent.... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
OIL COND. AREA								
TBL-5	19 STATION AIR COMPRESSOR AREA	FLOOR	Y	YARD	YARD	0	0	
TBL-5	19 STATION AIR COMPRESSOR AREA	WEST	Y	YARD	YARD	0	0	
TBL-5	20 BOILER FEED PUMP LUBE OIL RESERVOIR	FLOOR	Y	YARD	YARD	0	0	
TBL-5	21 HYDROGEN SEAL OIL RESERVOIR	FLOOR	Y	YARD	YARD	0	0	
TBL-5	37A GROUND FLOOR	EAST		CTL-3 CTL-3 YARD YARD	14 33A 64A 66A	34 0 0 0	3 3 3 3	
TBL-5	37A GROUND FLOOR	FLOOR	Y	YARD	YARD	0	0	
TBL-5	37A GROUND FLOOR	SOUTH	Y			0	0	
TBL-5	38A GROUND FLOOR	FLOOR	Y	YARD	YARD	0	0	
TBL-5	38A GROUND FLOOR	SOUTH	Y			0	0	
TBL-5	38A GROUND FLOOR	WEST	Y	YARD	YARD	0	0	
TBL-5	39A GROUND FLOOR	FLOOR	Y	YARD	YARD	0	0	
TBL-5	39A GROUND FLOOR	WEST	Y	YARD	YARD	0	0	
TBL-5	40A GROUND FLOOR	EAST	Y	YARD YARD	64A YARD	0 0	0 0	
TBL-5	40A GROUND FLOOR	FLOOR	Y	YARD	YARD	0	0	
TBL-5	41A GROUND FLOOR	FLOOR	Y	YARD	YARD	0	0	
TBL-5	41A GROUND FLOOR	NORTH	Y	YARD	YARD	0	0	
TBL-5	41A GROUND FLOOR	WEST	Y	YARD	YARD	0	0	
TBL-5	42A GROUND FLOOR	EAST	Y	YARD	YARD	0	0	

Fire area	Fire Description... Zone	Fire zone... Boundary	External Wall	Adjacent... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
TBL-5	42A GROUND FLOOR	FLOOR	Y	YARD	YARD	0	0	
TBL-5	42A GROUND FLOOR	NORTH	Y	YARD	YARD	0	0	
TBL-5	43A MEZZANINE FLOOR EAST			CTL-3	11	117	3	SEE TABLE 2-2 NOTE 4
TBL-5	43A MEZZANINE FLOOR SOUTH		Y			0	0	
TBL-5	44A MEZZANINE FLOOR CEILING		Y	YARD	YARD	0	0	
TBL-5	44A MEZZANINE FLOOR SOUTH		Y			0	0	
TBL-5	44A MEZZANINE FLOOR WEST		Y	YARD	YARD	0	0	
TBL-5	45A MEZZANINE FLOOR CEILING		Y	YARD	YARD	0	0	
TBL-5	45A MEZZANINE FLOOR WEST		Y	YARD	YARD	0	0	
TBL-5	46A MEZZANINE FLOOR EAST		Y	YARD	64A YARD 66A YARD	0 0 0	0 0 0	
TBL-5	47A MEZZANINE FLOOR EAST		Y	YARD	YARD	0	0	
TBL-5	47A MEZZANINE FLOOR NORTH		Y	YARD	YARD	0	0	
TBL-5	47A MEZZANINE FLOOR WEST		Y	YARD	YARD	0	0	
TBL-5	48A LOADING WELL	CEILING	Y	YARD	YARD	0	0	
TBL-5	48A LOADING WELL	NORTH	Y	YARD	YARD	0	0	
TBL-5	48A LOADING WELL	WEST	Y	YARD	YARD	0	0	
TBL-5	49A TURBINE FLOOR	CEILING	Y	YARD	YARD	0	0	
TBL-5	49A TURBINE FLOOR	EAST	Y	CTL-3 YARD YARD YARD	15 64A 66A YARD	0 0 0 0	3 3 3 3	
TBL-5	49A TURBINE FLOOR	SOUTH	Y			0	0	
TBL-5	49A TURBINE FLOOR	WEST	Y	YARD	YARD	0	0	
TBL-5	50A TURBINE FLOOR	CEILING	Y	YARD	YARD	0	0	

Fire area.	Fire Description.... Zone	Fire zone... Boundary	External Wall	Adjacent... Fire area	Adjacent Fire Area Zone	Adjacent..... Fire zone Fire severity (minutes)	Minimum. Boundary Rating Required (hr)	Remarks.....
TBL-5	50A TURBINE FLOOR	EAST	Y	YARD	YARD	0	0	
TBL-5	50A TURBINE FLOOR	WEST	Y	YARD	YARD	0	0	
TBL-5	51A TURBINE FLOOR	CEILING	Y	YARD	YARD	0	0	
TBL-5	51A TURBINE FLOOR	EAST	Y	YARD	YARD	0	0	
TBL-5	51A TURBINE FLOOR	NORTH	Y	YARD	YARD	0	0	
TBL-5	51A TURBINE FLOOR	WEST	Y	YARD	YARD	0	0	

TABLE 2-2 NOTES

1. Adjacent fire zone boundaries that are identified as the Yard may be either partially or fully exposed to the exterior of the building.
2. The floor of a fire zone boundary that is identified as the Yard is defined as exposed to the ground with no lower elevations.
3. Minimum fire rating is based on the combustible loading for the fire zones that are immediately adjacent to the fire area boundary and represent the worst case of combustible fuel loading in the fire area. The minimum fire rating considers the fire severity for future modifications and is rounded off to the next highest fire resistive rating. The fire resistive rating is defined in Section 2.2.6.
4. Fire area boundaries which reference this note include unrated penetrations which have been evaluated and found acceptable in accordance with NRC Generic Letter 86-10 (85-01).