SOUTH CAROLINA ELECTRIC & GAS COMPANY VIRGIL C. SUMMER NUCLEAR STATION NUCLEAR OPERATIONS

INFORMATION ONLY

FIRE EMERGENCY PROCEDURE

FEP-1.0

FIRE EMERGENCY PROCEDURE SELECTION

REVISION 10

DISCIPLINE SUPERVISOR

APPROVAL AUTHORITY

SAFETY RELATED

DATE

RECORD OF CHANGES

CHANGE	TYPE CHANGE	APPROVAL DATE	CANCELLATION DATE	CHANGE LETTER	TYPE CHANGE	APPROVAL DATE	CANCELLATION DATE
A	P	04-23-98					

CONTINUOUS USE

Continuous Use of Procedure Required. Read Each Step Prior to Performing.

NUCLEAR	OPERATIONS
COPY NO.	

SAP-139 ATTACHMENT IV PAGE 1 OF 3 **REVISION 16**

	PROCEDURE DEVELOR	
MINISTO 45		00 4/25K8 00 4/23K8
1.	DATE: 09-10-96 PROC. # FEP-1.0	REV. # 9 10 CHG. DA COMM. #
	TITLE: FORE ENGREBMACY PROCEDUL	
	and the same of th	SAFETY RELATED 🔀
	REVISION FROM	TO QUALITY RELATED
		NON-SAFETY RELATED
l.	DESCRIPTION: On Attachment I Ch CB-8-4. Change Erre Zone	onge Fire Zone CD-16 to
	REASON FOR CHANGE: MRF 34851	Beniel
-		Originator
m.	## It any question 1 through 4 is answered "YES", refer to appropriate seqUIRED REVIEW AND COMMENT: () OPS () NL&OE () CHS () GMNPO () MNTS () P&S () MPS () QC () TS () DE WORLD REGISTED REVIEW AND COMMENT:	section of procedure for direction.
-	1/2c 1/13	D2CM2614
IV.	10CFR50.59 SCREENING REVIEW/SAFETY EVALUATION REQUIRED D EXEMPT PSRC SUPPORTING DOCUMENTS	MAF 34851 Discipline Supervisor concurrence
V.	TEMPORARY APPROVAL:	
٧.		OA REVIEW DATE
	QUALIFIED REVIEWER DATE	ACCOUNT AND MANAGEMENT AND ADDRESS OF THE PARTY OF THE PA
	TELECON BY	TELECON BY
	SHIFT SUPERVISOR DATE	FINAL APPROVAL REQUIRED BY: DATE
	ON THE STREET OF THE RESIDENCE OF THE STREET	
VI.	DISCIPLINE SUPERVISOR FINAL REVIEW:	VII. P/CAP ACCEPTABLE?
		C. YES // MO/
	TRAINING REQUIRED? YES NO	NL&OE Date
	1.0	N. YES NO
	IF YES, PRIOR TO PROCEDURE IMPLEMENTATION? YES	17 4/23/68 RESP. MGR. Date
	11/1/25/6	VIII. FINAL QA REVIEW (As Applicable)
	P/CAP AFFECTED? YES NO WO	N/T
		QA Concurrence 199 4/23/58 Date
	COMMENTS RESOLVED: 1 4/23/48	the state of the s
	Discipline Supervisor Date	IX. APPROVAL AUTHORITY:
		Man C 4/14 14/23/91
		Approval/Concurrence / Date
-		A A STATE OF THE S
X.	PSRC REVIEW:	
	A. REVIEWED BY:	B. PSRC COMMENTS RESOLVED:
	PSRC Chairman Date	Responsible Manager Date
		respondible manager
	COMMENTS: YES NO	
		PSRC Chairman Date

FEP-1.0 PAGE I REVISION 10

TABLE OF CONTENTS

	SECTION	PAGE
1.0	PURPOSE	1
2.0	INITIAL CONDITIONS	1
3.0	OPERATOR ACTIONS	2
4.0	REVISION SUMMARY	3

ATTACHMENTS

Attachment I - Fire Procedure / Attachment Cross Reference

Attachment II - Fire Procedure Step Substitutions

1.0 PURPOSE

This procedure provides direction in determining which fire zone is affected based on information coming in from the plant. It also directs operations personnel to the correct procedure or attachment once the exact fire zone is determined.

2.0 INITIAL CONDITIONS

- 2.1 A fire within the protected area has been reported to the Control Room or has alarmed on the Simplex Fire System.
- 2.2 Fire brigade is on the scene and is providing information as to the exact location and the severity of the fire.
- 2.3 The fire is of such a nature (due to magnitude, location, or equipment involved) that there is concern about maintaining the ability to safely control the plant.

CAUTION 3.0

- a. Many assumptions were made when the Fire Emergency Procedures (FEP's) were written. The major assumptions were.
 - No other accident or failure occurs with the fire except that caused by the fire.
 - All equipment was operable or replaced by swing components. All equipment starts and functions or can be locally operated.
 - 3) All actions could be performed as written. However, in some cases, access to certain equipment may be hampered by fire. It may be necessary to delete steps in order to avoid personnel injury. These cases should be evaluated by the Shift Supervisor.
- b. If the assumed plant conditions do not exist, the situation must be evaluated. Additional Operator actions may be required to maintain the plant in a safe condition. Some equipment may be operated from a location other than that listed.

3.0 OPERATOR ACTIONS

- 3.1 If the exact fire zone is not known, determine from personnel in the plant the exact location of the fire.
 - a. Building and elevation.
 - b. Area (East, West, North or South).
 - c. Room number.
 - Equipment affected or in the area.

NOTE 3.2

E-023-000 series drawings, located in the control room, should be used to determine the exact fire zone when fire zone number is not known.

- 3.2 Determine the exact fire zone in which the fire is located.
- 3.3 Use Attachment I to determine the correct procedure and Attachment II Part Number.

NOTE 3.4

Part Numbers which are bold and underlined contain Immediate Actions and must be implemented promptly.

3.4 Implement the procedure and Attachment II Part Number determined above.

4.0 REVISION SUMMARY

- 4.1 Incorporated changes A through F.
- 4.2 Updated format and font.
- 4.3 Corrected typographical errors.
- 4.4 Converted to Word.

FIRE ZONE	DRAWING E-023-	FEP	MOD	FIED BY ATT	ACHMENT	I I PART NUM	BER
			CRS	A RO	SE	AB (UPPER)	IB
CB-1.1	018,020	2.0	1	1	1	1	1
CB-1.2	019,020	2.0	1	1	1	1 1	1
CB-2	018	2.0	2	43 44	50		- Alle
CB-3.1	018, 020	2.0			THE RESERVE AND A SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF THE PERSON NAMED IN COLUMN TO SECOND PROPERTY OF		NAME OF TAXABLE PARTY.
CB-3.2	020	2.0			CONTROL PROGRAMMENT AND STREET STATES AND STREET		
CB-4	019, 020	4.0			AND AND DESCRIPTION OF THE PARTY OF T		THE PARTY OF THE P
CB-5	018	3.0	3,4				
CB-6	018, 019, 020	4.0			Control of the second of the s		
CB-7	018,020	2.0	5		THE PARTY OF THE P		
CB-8.1	018,020	2.0			Marchiel St. 1900 (My Jacob 1997) desgrip procession		MANAGEMENT OF THE PARTY OF THE
CB-8.2	018,019,020	2.0			THE RESERVE THE PROPERTY OF TH		OS LODIC ARROLL VIA, POSICIO ARROLLO
CB-8.3	018,019	2.0					
CB-8.4	019,020	2.0					
CB-8.5	019	2.0					MESSAGE TO MINISTER AND THE PARTY.
CB-9	018,020	2.0					
CB-10	018,019,020	3.0	6,7,8	42 43 44 47	50,51		Parameter Annual Assessment & Co.
CB-12	018,020	2.0	5,6	40 43 44	50	54	CONTRACTOR CONTRACTOR
CB-14	018	2.0					Name of Street, or Particular
CB-15	019,020	4.0			MINISTRA MINISTRA		AND ARROWS IN COLUMN TWO
CB-17.1	018,020	4.0		49			TO SHOW AND ADDRESS OF THE PARTY OF THE PART
CB-17.2	018,020	4.0		49			
CB-17.3	018,020	4.0		49			-
CB-18	018,020	3.0	6	41 42 43	Additional residence of the control		
CB-20	018,020	2.0	9				
CB-21	018	2.0			The second secon		
CB-22	018,020	3.0	10		THE DAMES THE COLUMNS		Par Weller and Person
CB-23	018,020	2.0			The second of the second of the second		
CB-24	019	2.0			THE RESERVE OF THE PARTY OF THE		NAMES OF STREET, STREE

CHC

FIRE ZONE	DRAWING E-023-	FEP	MODIF	ED BY ATTA	CHMEN	T II PART NUM	IBER
			CRS	A RO	SE	AB (UPPER)	IB
AB-1.1.1	002	3.0	11				OF AN ADDRESS OF COLUMN SCHOOL
AB-1.1.2	002	2.0					
AB-1.1.3	002,016	3.0	12				
AB-1.2	002	3.0	11				LONDON PROCESSOR
AB-1.3	002	2.0					ARE COMMUNICATION
AB-1.4	004,016	SEE PART 13	13				
AB-1.5	003	2.0					
AB-1.6	003	SEE PART	13		ORGENIA PROGRAMMENTO DE LA CARCADA DE		
AB-1.7	003	3.0	AND DESCRIPTION OF THE PARTY OF		COLUMN TO THE PARTY OF THE PART		
AB-1.8.1	003,004	3.0	14				
AB-1.8.2	003,004	2.0	15		THE RESERVE OF THE PERSON NAMED IN		
AB-1.9	004,016	SEE PART 16	16				
AB-1.10	005,006,016	3.0	17		THE RESERVE OF THE PARTY OF THE		
AB-1.11	004,005,006	2.0	CALLED AND STATE OF S				
AB-1.12	004,005,006	2.0	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		3,000,000,000		MATERIAL PROPERTY.
AB-1.13	005	2.0					POR SALPHREGURINA
AB-1.14	005	2.0	WAR THE CE SERVING SEE SHOWN SEE AT THE CONTROL OF		meanac menunua santuna		March Control Control
AB-1.15	005,006	3.0	anno Abiana, wataana aabini 178 bilaar		A 100 CO		O-1C INFERRINGIAN
AB-1.16	005,006	2.0		**			
AB-1.17	005,006	2.0					
AB-1.18.1	008,009,016,02	3.0	18	41	52		
AB-1.18.2	008,009,016	2.0	19				
AB-1.19	008	2.0					
AB-1.20	008,021	2.0	THE REAL PROPERTY PROPERTY AND ADDRESS OF THE PERSON NAMED AND				
AB-1.21.1	AND THE PROPERTY OF THE PROPER	3.0		41 42			
AB-1.21.2	CONTRACTOR DE LA CONTRA	2.0	20	41	AT SHEVEL SHOULD HER		
AB-1.22	011	2.0	MARIT MININE WITCH AND SECURIORS				
AB-1.23	011	2.0	CARLON CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONT	TOTAL SECTION			
AB-1.24	011	2.0	MANAGED SANTEMAN				

FIRE ZONE	DRAWING E-023-	FEP	MODIF	ED BY ATT	ACHMEN.	T II PART NUM	BER
			CRS	A RO	SE	AB (UPPER)	IB
AB-1.25	011	2.0	N. S. Server, and Manual Conference of Supervision (1987)			T (OFFER)	-
AB-1.26	011	2.0	AND DESCRIPTION OF PROPERTY OF THE PROPERTY OF		Market of the season of the season of		WINTERNA, S. AMERICA
AB-1.27	011	2.0					O' DESIGNATION OF THE PERSONS
AB-1.28	011,014,016	2.0	The same of the sa				************
AB-1.29	011	2.0	10	-		1	-
AB-1.30	014,016	2.0	AND THE OWNER WHEN THE REAL PROPERTY AND ADDRESS OF THE OWNER WHEN THE PARTY AND ADDRESS OF THE OWNER WHEN THE		AND DESCRIPTION OF THE PERSONS ASSESSED.	-	THE RESIDENCE OF
AB-1.31	014,016	2.0	THE RESERVE OF STREET,	**************************************		1	A STATE OF THE PERSON OF
FH-1.1	005	3.0			MATERIAL PROPERTY AND ADDRESS OF THE PARTY.	1	-
FH-1.2	005	2.0	T. AND COMMUNICATION OF CONTRACT OF COMMUNICATION OF COMU				THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN
FH-1.3	005,008	2.0	AND DESCRIPTION OF THE PERSONS ASSESSMENT ASSESSMENT ASSESSMENT OF THE PERSONS ASSESSMENT ASSESSMENT ASSESSMENT ASSESSMENT	-	THE RESIDENCE PROPERTY OF THE PARTY OF THE P		
FH-1.4	005,008	2.0	THE RESERVE AND DESCRIPTION OF THE PARTY OF				PARTIE MANAGEMENT (SPEC
RB-1.1.1	005,016	2.0	21	40	PACEFUL SANGEMENT, PORTON DESCRIPTION	54	-
RB-1.1.2	005,015,016	3.0	22	40	TO PERSON AND ASSESSMENT OF THE PERSON A	54	No. of Street, or other Designation of the Street, or other Design
RB-1.2.1	005,008,011, 013,015,016	2.0		42	ACAD PRODUCTION OF THE PARTY OF		
RB-1.2.2	008,011,013,	3.0	22				Wildeline London
RB-1.2.3	008,011,013,	2.0		40	THE PERSON NAMED IN COLUMN TWO		MALOUT MANAGEMENT
RB-1.3.1	008	2.0	THE RESERVE TO SERVE THE PARTY OF THE PARTY		STATEMENT AND STREET SHIP, MANAGEMENT	+	AND DESCRIPTION OF THE PARTY OF
RB-1.3.2	008,016	2.0	23	42	SCAL MANUSCRIPTION AND ADDRESS OF A	54	-
RB-1.3.3	008,015,016	3.0	22	The same of the sa	ACTIVITY AND ADDRESS OF THE PARTY.	54	With the second second
RB-1.4.1	008,011,013, 015,016	2.0	23		STOP PRODUCTIC AND CHIEF OF THE ASSESSMENT A		***************************************
RB-1.4.2	011,013,015, 016	3.0	22		THE RESERVE AND THE PERSON NAMED IN		
RB-1.5	015,016	2.0	A STATE OF THE STA		-		
IB-1	007,017	2.0	and the second s		Selection of the American Control of the Control of		-
IB-2	007,017	3.0	4		THE RESERVE OF THE PARTY OF THE		-
IB-3	007,017	3.0	24		MATERIAL SECTION OF THE PARTY O	55	
IB-4	007,017	2.0	25		-	55	THE REAL PROPERTY OF THE PARTY
IB-5	007	3.0	26	-		56	
IB-6	007,017	2.0		The same of the sa	AND STATE OF THE PARTY OF THE P		A WHITE STORY S. CO. WHO.

FIRE ZONE	DRAWING E-023-	FEP	MODI	FIED BY ATT	ACHMENTI	PART NU	MBER
			CRS	A RO	SE	AB (UPPER)	IB
B-7.1	007	3.0					
IB-7.2	007	SEE PART 27	27				
IB-7.3	007	2.0					
IB-8	007	SEE PART 27	27				
IB-9	007	2.0					
IB-10	007,017	2.0	5				
IB-11	007	2.0	5,7				
IB-12	010	2.0	7				
IB-13	010	SEE PART 28	28				
IB-14	010	3.0	7	42			
IB-15	010	2.0	5	45			
IB-16	010,017	3.0			NAMES OF THE PERSON OF THE PER	\$1.00F \$2.000 VIREAD AND 100F (\$1.000)	THE RESIDENCE OF THE PERSON NAMED OF THE PERSO
IB-17	010,017	3.0	29	47	51	ATTENNESS OF EVEN SERVICES	W1454
IB-18	010,017	3.0		,	MANUA Y MONTH MINNEY OF PROTES	THE RESERVE OF THE PERSON OF T	
IB-19	010,017	2.0			MANAGEM SAN		CONTRACTOR CONTRACTOR CONTRACTOR
IB-20	012,017	3.0	6	42 43 44	50	CONTRACTOR NAME AND ADDRESS OF THE PARTY OF	
IB-21.1	012,017	3.0		42	AND CAPE TAXABLE PROPERTY AND A COMPANY OF		
IB-21.2	012,017	3.0		42			
IB-22.1	007	2.0	30	44	50		
IB-22.2	010,017	2.0	30	44	50		
IB-23.1	007,017	3.0				AND THE PROPERTY NAMED IN COLUMN TO SERVICE AND SERVIC	
IB-23.2	007,017	3.0			AND AN OWNERS AND PART AND ADDRESS OF THE PART AND ADD		
IB-23.3	010,017	3.0			MANUAL PRINTS AND THE PRINTS AND THE		
IB-24	010,017	3.0					
IB-25.1.1	007	3.0	31				
!B-25.1.2	007,017	2.0	32	40 43 44	50	55	
IB-25.1.3	007,017	3.0	33	45 46 48	53		58
IB-25.1.4	007	3.0	31				
IB-25.1.5	007	SEE PART	34	43 44	CASE 1-50 CASE II-53	1	CASE II-58

FIRE ZONE	E-023-	FEP	MOD	IFIED BY ATT	ACHMENT	TII PART NU	JMBER
			CRS	A RO	SE	AB (UPPER)	IB
IB-25.2	007	3.0	31		THE CONTRACT OF THE PARTY OF TH		
IB-25.3.1	007	3.0	22	46	50		
IB-25.3.2	007	3.0	22	46	50		
IB-25.4	010,016	2.0	35	40 41	50		
IB-25.5.1	010	2.0	3	46	50		
IB-25.5.2	010	3.0	31	-	50		THE PERSON NAMED IN COLUMN 2 I
IB-25.6.1	010,017	3.0	36	43 45 47	50,51	57	AAA TOO OO
IB-25.6.2	010,017	3.0	36	43 45 47	50,51	57	-
IB-25.7	010,017	3.0	36	43 45 47	50.51	57	PATRICE PROVIDED TO CAY ARRANGE WHEN
IB-25.8	008,016	2.0	37	41	50	+	AND THE RESIDENCE OF THE PARTY
IE-25.9	011,016	3.0	38	41 42			Married Commence of the Party o
IB-26	010	3.0	THE STREET ASSESSMENT LANGUAGE STREET		Marca Carrest and Property and State of the	-	THE STREET SHAPE SHAPE AND AND AND AND AND ADDRESS.
IB-27	010	2.0	THE PART OF THE PARTY OF THE PA		50	-	
DG-1.1	007,017	3.0	DAY BUT THE WHAT WE ARE THE STORE SHOW		THE REAL PROPERTY AND ADDRESS OF THE PERSONS AND		COMPANIE OF STREET, ST
DG-1.2	010,012,017	3.0	ALTONO DO ANDRO ANDRO ANDRO		AREA NAVIONAL STATE OF THE SALES OF		NA TRANSPORTED TO THE PARTY OF
DG-2.1	007	2.0	MANUSCO IN CONTROL SAMPLES OF THE MANUSCO		Make Make And Street St		THE RESERVE OF THE PARTY OF THE
DG-2.2	010,012	2.0	THE PERSON NAMED IN		MAY SHEETING, JOHN STONESSES, MOTORING		AND RESIDENCE AN
YD-1	005	2.0	WARE STREET, STREET, STREET, OVER		Personal and the second second second		T PERSONAL PLANS OF STREET, MICHIGANIS AND
YD-2.1	010	3.0	M Marie Contribution (American Contribution (THE PART SAME PROPERTY OF THE PROPERTY OF THE PARTY OF TH		THE PERSON NAMED AND POSITIONS
YD-2.2	010	2.0	CHARLES CHARLES STATE OF STREET, COLUMN		T SELECTION ON COLUMN STREET, SPECIAL		MATERIAL PROPERTY OF THE PERSON NAMED IN COLUMN 1
MH-2.1	023	2.0	W/FEA-VIRGAN COMMISSION COMISSION COMMISSION COMMISSION COMISSION COMMISSION COMMISSION COMMISSION COMMISSION		THE REAL PROPERTY AND THE PROPERTY AND		CONTRACTOR SAME AND ADDRESS OF THE PARTY OF
MH-2.2	023	3.0	CANAL SAME SAME AND A SAME AND A SAME AS		THE SERVICE OF PARTITIONS OF THE PARTITION OF THE PARTITI		The same of the sa
SWPH-1	023	3.0	THE TAX OF STREET, ST. ASSESSMENT OF		THE PART AND ADDRESS OF THE PARTY AND ADDRESS		THE REAL PROPERTY AND ADDRESS OF
SWPH-2	023	SEE PART 39	39		AND		CASE II-59
SWPH-3	023	2.0	ON A STATE OF STREET			THE RESERVE THE PERSON NAMED IN	and and an experience of the control
SWPH-4.1	023	2.0	OF COMMERCE AND SPECIFICATION CONTRACTOR SHOW		THE SHALL BE THE PERSON OF SHALL SHARLES		60
SWPH-4.2	023	2.0	AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON OF TH		ST. STATE AND A STATE OF STATE		60
SWPH-5.1.1	023	3.0	the second respect strong and award pro-			-	

FIRE ZONE	DRAWING E-023-	FEP	MODIFIED BY ATTACHMENT II PART NUMB				
			CRS	A RO	SE	AB (UPPER)	IB
SWPH-5.1.2	023	2.0			better terk in seen sound, onto to see you the proof		
SWPH-5.1.3	023	SEE PART 39	39				CASE II-
SWPH-5.2.1	023	3.0	TOTAL TANKS AND ADDRESS OF THE STREET		THE PERSON NAMED IN COLUMN TO		
SWPH-5.2.2	023	2.0			M. Andrews Market Manager Street	1	772-100
SWPH-5.2.3	023	SEE PART 39	39				CASE II-
SWPH-6	023	2.0		antana antana antana			CARLON CONTRACTOR OF
TB-1	007	3.0	8	47	51		-

FEP-1.0 ATTACHMENT II PART 1 PAGE 1 OF 13 REVISION 10

CONTROL ROOM SUPERVISOR

Page 1 of 2

NOTE

This Part applies to fire in Zones CB-1.1 and CB-1.2.

Substitute the following equipment throughout FEP-2.0 and FEP-2.1:

Use	Instead Of	For
NI-33 XVT08100-C5 Local Manual Local Manual Local Manual	NI-31 XVT-8112 Remote Remote Remote	Reactor Power Seal Return Isolation IPV-2010 IFV-3556 XSW1DB Normal and Emerg Incoming Breakers, and Diesel Generator B Control

NOTE 2 and 3

Much Train B equipment is affected by this fire. XSW1DB should be rapidly deenergized locally, stripped, then should be energized from Diesel Generator B to power NI-33. Diesel Generator B Control will be local.

- 2. Verify the following conditions are met:
 - The Intermediate Building Operator has reported Diesel Generator B in LOCAL.
 - The Auxiliary Building Upper Operator has reported that XSW1DB1 Main Incoming Breaker is open.
 - The Shift Engineer has reported XSW1DB and XSW1DB2 are stripped.
- Have the Shift Engineer energize XSW1DB from Diesel Generator B.

FEP-1.0 ATTACHMENT II PART 1 PAGE 2 OF 13 REVISION 10

CONTROL ROOM SUPERVISOR

PAGE 2 OF 2

- 4. Within eight hours, have Maintenance install temporary ventilation in place of the following fans:
 - XFN0133, AUX BLDG MCC-SWGR ROOM COOLING UNIT FAN (AB-463).
 - b. XFN0076, ESF SWGR ROOM 1DB AH UNIT SUPPLY FAN (IB-455).
 - XFN0106B, SPEED SWITCH ROOMS AH UNIT B SUPPLY FAN (IB-455).

FEP-1.0 ATTACHMENT II PART 1 PAGE 3 OF 13 **REVISION 10**

A NUCLEAR REACTOR OPERATOR

Page 1 of 2

NOTE	
Step 1 is an Immediate Action.	
This Part is to be performed in conjunction with th	e duties specified by

De-energize the following by opening their respective Disconnect Switches 1. located inside the Main Control Board:

This Part applies to fire in Zones CB-1.1 and CB-1.2.

Sub Panel-19A (XCP-6112): a.

1.

2.

3.

	Switch	Valve Number
1)	DS-3	1-XVM-2801A 1-XVM-2801B 1-XVM-2801C A-XVT-2869A A-XVT-2869B A-XVT-2869C
2)	DS-4	PCV-2000A
3)	DS-5	PCV-2010A
4)	DS-6	PCV-2020A
5)	DS-32	IPV-445A
6)	DS-33	IPV-445B

FEP-1.0 ATTACHMENT II PART 1 PAGE 4 OF 13 REVISION 10

A NUCLEAR REACTOR OPERATOR

Page 2 OF 2

b. Sub Panel-19B (XCP-6113):

	Switch	Valve Number
1)	DS-7	PCV-2000B
2)	DS-8	PCV-2010B
3)	DS-9	PCV-2020B
4)	DS-10	XVT-8153
5)	DS-11	XVT-8154
6)	DS-12	2-XVM-2801A 2-XVM-2801B 2-XVM-2801C B-XVT-2869A B-XVT-2869B B-XVT-2869C
7)	DS-13	XVT-8145
8)	DS-31	IPV-444B

Do not remove power from XSW1DB per FEP-2.0 because it is deenergized locally.

FEP-1.0 ATTACHMENT II PART 1 PAGE 5 OF 13 REVISION 10

SHIFT ENGINEER

Page 1 of 5

NOTE

This Part applies to fire in Zones CB-1.1 and CB-1.2.

- Obtain keys, radio and flashlight from the Control Room and proceed to XSW1DB Switchgear Room (IB-436).
- Within 30 minutes, de-energize Bus 1DB as follows:
 - a. At XSW1DB 10, DIESEL GEN B XEG0001B-DG, perform the following:
 - Open the following breakers inside XSW1DB 10:
 - a) XSW1DB 10 CCP1, CLOSING CNTRL PWR XEGO, B-DG (RRPA).
 - b) XSW1DB 10 CCP2, CLOSING CNTRL PWR XEG0001B-DG (RRP).
 - c) XSW1DB 10 TCP, TRIPPING CNTRL PWR XEG0001B-DG (RRT).
 - 2) Push the MANUAL TRIP on the 7.2 KV breaker.
 - b. At XSW1DB 01, BUS 1DB EMERG INCOMING BKR, perform the following:
 - Open XSW1DB 01 TCP, TRIPPING CNTRL PWR EMERG INCM BKR (RRT).
 - Open XSW1DB 01 CCP, CLOSING CNTRL PWR EMERG INCM BKR (RRP).
 - 3) Push the MANUAL TRIP on the 7.2 KV breaker.

FEP-1.0 ATTACHMENT II PART 1 PAGE 6 OF 13 REVISION 10

SHIFT ENGINEER

Page 2 of 5

- c. At XSW1DB 16, BUS 1DB NORMAL INCOMING BKR, perform the following:
 - Open XSW1DB 16 TJP, NORMAL INCM BKR TRIPPING CNTRL PWR.
 - Open XSW1DB 16 CCP, NORMAL INCM BKR CLOSING CNTRL PWR.
 - 3) Push the MANUAL TRIP on the 7.2 KV breaker.
- 3. Within 30 minutes, strip XSW1DB as follows:
 - a. At XSW1DB 15, CHARGING INJ PUMP B XPP0043B-CS, perform the following:
 - 1) Place 43-CS06, XFER UNIT 15, to LOCAL.
 - 2) Momentarily place SS-CS06, UNIT 15, to STOP.
 - b. At XSW1DB 14, CHARGING INJ PUMP C, XPP0043C-CS, perform the following:
 - 1) Place 43-CS08, XFER UNIT 14, to LOCAL.
 - 2) Momentarily place SS-CS08, UNIT 14, to STOP.
 - c. At XSW1DB 13, CC PUMP B XPP0001B-CC, perform the following:
 - Place 43-CC02, XFER UNIT 13, to LOCAL.
 - 2) Momentarily place SS-CC02, UNIT 13, to STOP.
 - d. At XSW1DB 11, CC PUMP C XPP0001C-CC, perform the following:
 - 1) Piace 43-CC04, XFER UNIT 11, to LOCAL.
 - Momentarily place SS-CC04, UNIT 11, to STOP.

FEP-1.0 ATTACHMENT II PART 1 PAGE 7 OF 13 REVISION 10

SHIFT ENGINEER

Page 3 of 5

- e. At XSW1DB 07, TRANSF 1DB1 & 1DB2, perform the following:
 - 1) Place 43-ES19, XFER UNIT 7, to LOCAL.
 - 2) Momentarily place SS-ES19, UNIT 7, to CLOSE.
- f. At XSW1DB 06, RB SPRAY PUMP XPP0038B-SP, perform the following:
 - Open XSW1DB 06 TCP, TRIPPING CNTRL PWR XPP0038B-SP (RRT).
 - Open XSW1DB 06 CCP, CLOSING CNTRL PWR XPP0038B-SP (RRP).
 - 3) Push the MANUAL TRIP on the 7.2 KV breaker.
- g. At XSW1DB 05, PZR HTR BKUP GRP-2 XTF4102-RC, perform the following:
 - 1) Open XSW1DB 05 TCP, TRIPPING CNTRL PWR XTF4102-RC (RRT).
 - Open XSW1DB 05 CCP, CLOSING CNTRL PWR XTF4102-RC (RRP).
 - Push the MANUAL TRIP on the 7.2 KV breaker.
- h. At XSW1DB 04, XSW1EB FDR BKR, perform the following:
 - 1) Place 43-ES23, XFER UNIT 4, to LOCAL.
 - Momentarily place SS-ES23, UNIT 4, to CLOSE.

FEP-1.0 ATTACHMENT II PART 1 PAGE 8 OF 13 REVISION 10

SHIFT ENGINEER

Page 4 of 5

- At XSW1DB 03, EMERG FD WTR PUMP XPP0021B-EF, perform the following:
 - Open XSW1DB 03 TCP, TRIPPING CNTRL PWR XPP0021B-EF
 (RRT).
 - Open XSW1DB 03 CCP, CLOSING CNTRL PWR XPP0021B-EF (RRP).
 - 3) Push the MANUAL TRIP on the 7.2 KV breaker.
- 4. Within 30 minutes, strip loads from XSW1DB2 as follows:
 - a. At XSW1DB2 03A perform the following:
 - 1) Place 43-VU06, XFER UNIT 6C, to LOCAL.
 - 2) Momentarily place SS-VU06, UNIT 6C, to STOP.
 - 3) Place 43-VU08, XFER UNIT 5A, to LOCAL.
 - 4) Momentarily place SS-VU08, UNIT 5A, to STOP.
 - Dpen XSW1DB2 05B, FEEDER MCC 1DB2X XMC1DB2X-ES.
 - C. Open XSW1DB2 06B, FEEDER MCC 1DB2Y PRI UNIT 1AC SEC UNIT 25AD XMC1DB2Y-ES.
 - d. At XSW1DB2 03A, close the Main Incoming Breaker as follows:
 - 1) Place 43-ES37, XFER UNIT 4B, to LOCAL.
 - 2) Momentarily place SS-ES37, UNIT 4B, to CLOSE.
 - Report to the Control Room Supervisor that XSW1DB and XSW1DB2 are stripped.

FEP-1.0 ATTACHMENT II PART 1 PAGE 9 OF 13 REVISION 10

SHIFT ENGINEER

Page 5 of 5

- When directed, energize XSW1DB from Diesel Generator B as follows:
 - a. At XSW1DB 10, DIESEL GEN B XEG0001B-DG, perform the following:
 - Close XSW1DB 10 CCP1, CLOSING CNTRL PWR XEG0001B-DG (RRPA).
 - 2) Ensure the 7.2 KV breaker closes.
 - b. If the Diesel Generator breaker does not close, proceed to Diesel Generator B and perform the following:
 - 1) Verify that LOCAL/REMOTE/MAINT switch is in LOCAL.
 - Verify that the Diesel Generator is running with normal voltage and frequency indicated.
 - Investigate and attempt to start the Diesel Generator and close the breaker as necessary.
- Proceed to XPN-7200B, Control Room Evacuation Panel, and Start Service Water Pump B(C) as follows:
 - a. Place SW PUMP B XFER XPP-0039B, to LOCAL.
 - b. Place SW PUMP C TRAIN B XFER XPP-0039C, to LOCAL.
 - c. Start SW PUMP B, XPP-0039B, or SW PUMP C TRAIN B. XPP-0039C.
- At XPN7300, Remote Source Range Instrument Panel, place N33 DET HIGH VOLTAGE, to ON.

FEP-1.0 ATTACHMENT II PART 1 PAGE 10 OF 13 REVISION 10

AUXILIARY BLDG OPERATOR (UPPER)

Page 1 of 1

NOTE

- This Part is to be performed in conjunction with the duties specified by FEP-2.0.
- This Part applies to fire in Zones CB-1.1 and CB-1.2.
- Within 30 minutes, immediately after completing FEP-2.0 ATTACHMENT XI, CROSS TRAIN CONNECTION OF BATTERY CHARGER XBC1A-1B, perform the following:
 - a. At XSW1DB1 03A (AB-463) open the main incoming breaker as follows:
 - 1) Place 43-ES36, XFER UNIT 4B, to LOCAL.
 - 2) Momentarily place SS-ES36, UNIT 4B, to OPEN.
 - Report to the Control Room Supervisor that XSW1DB1 main incoming breaker is open.
- Within 90 minutes, close XVT08100-CS, RC PUMP SEAL RETURN HDR ISOL VLV (ORC) (AB-412 West Pen).

FEP-1.0 ATTACHMENT II PART 1 PAGE 11 OF 13 REVISION 10

INTERMEDIATE BUILDING OPERATOR

Page 1 of 3

NOTE

- Step 1 is an Immediate Action.
- This Part is to be performed instead of FEP-2.0, Attachment IV.
- This Part applies to fire in .ies CB-1.1 and CB-1.2.
- If directed by the Nuclear Reactor Operator At The Controls, trip the Reactor locally at XSW0001-CR (IB-463) by opening the following:
 - a. XSW0001-RTA, REACTOR TRIP BREAKER A.
 - XSW0001 RTB, REACTOR TRIP BREAKER B.
 - c. XSW0001-BYA, REACTOR TRIP BYPASS BREAKER A.
 - d. XSW0001-BYB, REACTOR TRIP BYFASS BREAKER B.
- Obtain plant keys, tool bag, and flashlight from the IB-436.

NOTE 3

The Shift Engineer is de-energizing Bus 1DB, which will automatically start Diesel Generator B.

- 3. Place Diesel Generator B in LOCAL as follows (DB-436):
 - Place the REMOTE/LOCAL/MAINT Switch to LOCAL.
 - Notify the Control Room Supervisor that Diesel Generator B is in LOCAL.

FEP-1.0 ATTACHMENT II PART 1 PAGE 12 OF 13 REVISION 10

INTERMEDIATE BUILDING OPERATOR

Page 2 of 3

- Within 30 minutes, isolate blowdown by closing the following valves (TB-424):
 - a. XVT00542A-BD, SG A BLOWDOWN HEAT EXCHANGER INLET VLV.
 - b. XVT00542B-BD, SG B BLOWDOWN HEAT EXCHANGER INLET VLV.
 - c. XVT00542C-BD, SG C BLOWDOWN HEAT EXCHANGER INLET VLV.
- Within 30 minutes, proceed to the Service Water Pump House and perform the following(SW-440):
 - a. At XSW1EB1 03A, close the main incoming breaker as follows:
 - 1) Place 43-ES40, XFER UNIT 4B, to LOCAL.
 - Momentarily place SS-ES40, UNIT 4B, to CLOSE.
 - b. At XSW1EB 03, close the XSW1EB1 feeder breaker as follows:
 - 1) Place 43-ES21, XFER UNIT 3, to LOCAL.
 - Momentarily place SS-ES21, UNIT 3, to CLOSE.
 - c. Start XFN80B-AH. SERVICE WATER BUILDING SUPPLY FAN B from XPN 5527, as follows (behind XSW1EB1):
 - 1) Place 43-AH327 XFER, XMC1EB1X U4FH, to LOCAL.
 - Place SS-AH327X, XMC1EB1X U4FH, to START.

FEP-1.0 ATTACHMENT II PART 1 PAGE 13 OF 13 REVISION 10

INTERMEDIA'S BUILDING OPERATOR

Page 3 of 3

- d. Reposition Service Water Pump House ventilation dampers by isolating Instrument Air to the Service Water Pump House as follows (behind XSW1EB):
 - Close XVA 2969-SA, SW PUMP HOUSE INST AIR HDR SUPPLY VALVE.
 - Open XVT22923-SA, SW SA SUPPLY HEADER LOW POINT DRAIN VLV, to depressurize the header.

NOTE 6

Frequent trips will be required out of the high noise area to communicate with the Control Room Supervisor at the CREP.

- 6. Proceed to Diesel Generator B and monitor its operation.
- 7. Within 30 minutes, start XFN-45A(B), DG AREA B VENTILATION AIR SUPPLY FAN A(B), from XPN 5526-AH (DB-436) as follows:
 - a. Place 43-AH164 XFER, XMC1DB2Z U3AC, to LOCAL.
 - Place SS-AH164X, XMC1DB2Z U3AC, to START.
 - Place 43-AH165 XFER, XMC1DB2Z U2AC, to LOCAL.
 - d. Place SS-AH165X, XMC1DB2Z U2AC, to START.

FEP-1.0 ATTACHMENT II PART 2 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zone CB-2.
- 2. PART ARO-43, 44 and SE-50 are also applicable to this zone.
- 1. Substitute the following equipment throughout FEP-2.0 and FEP-2.1:

Use Instead Of For

Local Manual Remote IFV-3541

Local Manual Remote IPV-2010

Attachment IV (FEP-2.1) TR-604A RHR Temperature

FEP-1.0 ATTACHMENT II PART 3 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zones CB-5 and IB-25.5.1.
- PART 4 is also applicable to Zone CB-5.
- 3. PARTS ARO-46 and SE-50 are also applicable to Zone IB-25.5.1.
- 1. Substitute the following equipment throughout FEPs:

Use

Instead Of

For

Local Manual

Remote

IPV-2020

FEP-1.0 ATTACHMENT II PART 4 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- 1. This Part applies to fire in Zones CB-5 and IB-2.
- 2. PART 3 is also applicable to Zone CB-5.
- 1. Substitute the following equipment throughout FEP-3.0 and FEP-3.1:

Use	Instead Of	For
TI-430A (CREP)	TI-430	Loop C T-Cold
TI-433A (CREP)	TI-403	Loop C T-Hot

FEP-1.0 ATTACHMENT II PART 5 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- 1. This Part applies to fire in Zones CB-7, CB-12, IB-10, IB-11 and IB-15.
- PARTS 6, ARO-40, 43, 44, SE-50 and AB-54 are also applicable to Zone CB-12.
- PART 7 is also applicable to Zone IB-11.
- PART ARO-45 is also applicable to Zone IB-15.
- Substitute the following equipment throughout FEP-2.0 and FEP-2.1:

Use

Instead Of

For

Local Manual

Remote

IFV-3541

 Within eight hours, if XFN-38A and XFN-39A are not available have temporary ventilation installed in Battery Charger A room.

FEP-1.0 ATTACHMENT II PART 6 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zones CB-10, CB-12, CB-18 and IB-20.
- PARTS 7, 8, ARO-42, 43, 44 47, SE-50 and 51 are also applicable to Zone CB-10.
- 3. PARTS 5, ARO-40, 43, 44, SE-50 and AB-54 are also applicable to Zone CB-12.
- PARTS ARO-41, 42 and 43 are also applicable to Zone CB-18.
- 5. PARTS ARO-42, 43, 44 and SE-50 are also applicable to Zone IB-20.
- Substitute the following equipment throughout FEPs:

Use

Instead Of

For

Local Manual

Remote

All Steam Generator PORV's

FEP-1.0 ATTACHMENT II PART 7 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zones CB-10, IB-11, IB-12, and IB-14.
- PART 5 is also applicable to Zone IB-11.
- PART ARO-42 is also applicable to Zone IB-14.
- PARTS 6, 8, ARO-42, 43, 44, 47, SE-50 and 51 are also applicable to Zone CB-10.
- Substitute the following equipment throughout FEPs:

Use

Instead Of

For

Local

Remote

C Chiller

 Within 90 minutes, have the Intermediate Building Operator place VU Chiller C in LOCAL at XPN-7208 (IB-412).

FEP-1.0 ATTACHMENT II PART 8 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zones TB-1 and CB-10.
- 2. PARTS ARO-47 and SE-51 are also applicable to Zone TB-1.
- PARTS 6, 7, ARO-42, 43, 44, 47, SE-50 and 51 are also applicable to Zone CB-10.

NOTE 1

This fire can cause control problems with Bus 1DB normal and emergency incoming breakers and with Diesel Generator B remote control. The A Nuclear Reactor Operator will coordinate with the Shift Engineer to establish local control.

1. Use local control of Diesel Generator B throughout FEP-3.0 and FEP-3.1.

FEP-1.0 ATTACHMENT II PART 9 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

This Part applies to fire in Zone CB-20.

Substitute the following equipment throughout FEP-2.0 and FEP-2.1:

Use

Instead Of

For

PI-402

PI-403

RCS Pressure

FEP-2.1 Attachment IV

TR-604A

RHR Temperature

FEP-1.0 ATTACHMENT II PART 10 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

This Part applies to fire in Zones CB-22 and AB-1.29.

Substitute the following equipment throughout FEPs:

Use

Instead Of

For

Plant Page

Radios

Communication

FEP-1.0 ATTACHMENT II PART 11 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

This Part applies to fire in Zones AB-1.1.1 and AB-1.2.

 Use FEP-3.1 Attachment IV for monitoring RHR Temperature when implementing FEP-3.1.

FEP-1.0 ATTACHMENT II PART 12 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

This Part applies to fire in Zone AB-1.1.3.

NOTE 1

The cable supplying XPP-31B, RHR PUMP B, and XFN-49B, RHR/SPRAY PUMP ROOM 2 COOLING UNIT FAN, are routed through fire Zone AB-1.1.3.

If cable tray 2017 has been damaged, direct the Emergency Maintenance Team
to install a temporary cable for RHR Pump B per EMP-100.002, prior to reaching
350 degrees RCS Temperature, and rig temporary ventilation for RHR B Room
cooling.

FEP-1.0 ATTACHMENT II PART 13 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- 1. Step 1 is an Immediate Action.
- 2. This Part applies to fire in Zones AB-1.4 and AB-1.6.
- 3. Charging Pump C will not be available due to the fire.
- 4. The fire may have to be extinguished before the AB Operator can open LCV00115B(D)-CS, XVG08131A-CS, XVG08131B-CS, XVG08132A-CS, XVG08132B-CS, XVG08133A-CS, and XVG08133B-CS, to establish Seal Injection (90 minute action).

CASE I - Charging Pump A - OPERABLE

Implement FEP-2.0.

CASE II - Charging Pump A - INOPERABLE

1. Implement FEP-3.0.

FEP-1.0 ATTACHMENT II PART 14 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

- This Part applies to fire in Zone AB-1.8.1.
- The fire may have to be extinguished before the AB Operator can close XVG03001A-SP, RB SPRAY PP A RWST SUCTION HDR VALVE, and XVG08812A-SI, RH PUMP A SUCTION HEADER VALVE (30 minute action).

FEP-1.0 ATTACHMENT II PART 15 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zone AB-1.8.2.
- The fire may have to be extinguished before the AB Operator can close XVG03001B-SP, RB SPRAY PP B RWST SUCTION HDR VALVE, and XVG08812B-SI, RH PUMP B SUCTION HEADER VALVE (30 minute action).
- Substitute the following equipment throughout FEP-2.0 and FEP-2.1:

Use Instead Of For

FEP-2.0 Attachment VIII Remote Charging Pump C

(XSW1DA)

FEP-2.1 Attachment IV TR-604A RHR Temperature

FEP-1.0 ATTACHMENT II PART 16 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- 1. Step 1 is an Immediate Action.
- This Part applies to fire in Zone AB-1.9.
- Charging Pump C will not be available due to the fire.

CASE I - Charging Pump B - OPERABLE

Implement FEP-3.0.

CASE II - Charging Pump B - INOPERABLE

1. Implement FEP-2.0.

FEP-1.0 ATTACHMENT II PART 17 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

- This Part applies to fire in Zone AB-1.10.
- The fire may have to be extinguished before the AB Operator can close LCV00115E-CS, VOLUME CONTROL TANK OUTLET HDR ISOL VLV, and open XVG08106-CS, CHARGING PUMPS MINI FLOW HDR ISOL VALVE, to establish Seal Injection (90 minute action).
- 1. Substitute the following equipment throughout FEP-3.0 and FEP-3.1:

Use	Instead Of	For
TI-430A (CREP)	TI-430	Loop C T-Cold
TI-433A (CREP)	TI-433	Loop C T-Hot

FEP-1.0 ATTACHMENT II PART 18 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zone AB-1.18.1.
- 2. PARTS ARO-41 and SE-52 are also applicable to this zone.
- 1. Substitute the following equipment throughout FEP-3.0 and FEP-3.1:

Use

Instead Of

For

Local Manual

Remote

IPV-2000

Local Manual

Remote

XSW1DB1 Main Incoming Breaker

FEP-1.0 ATTACHMENT II PART 19 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

- This Part applies to fire in Zone AB-1.18.2.
- The fire may have to be extinguished before the AB Operator can open XVT08389-CS, SEAL INJECTION HEADER FLOW BYPASS VALVE, to establish Seal Injection (90 minute action).
- 1. Use Attachment IV for monitoring RHR temperature in FEP-2.1.

FEP-1.0 ATTACHMENT II PART 20 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

- This Part applies to fire in Zones AB-1.21.2.
- PART ARO-41 is also applicable to this zone.
- 1. Substitute the following equipment throughout FEP-2.0 and FEP-2.1:

Use	Instead Of	For
Local ManuaL	Remote	IPV-2000
PI-402	PI-403	RCS Pressure
FEP-2.1 Attachment IV	TR-604A	RHR Temperature
Plant Page	Radios	Communication

FEP-1.0 ATTACHMENT II PART 21 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zone RB-1.1.1.
- PARTS ARO-40 and AB-54 are also applicable to this zone.
- Substitute the following equipment throughout FEP-2.0 and FEP-2.1:

<u>Use</u> <u>Instead Of</u> <u>For</u> PI-402 PI-403 PCS Pros

PI-402 PI-403 RCS Pressure

PI-484 and TI-420 RCS T-Cold

Steam Tables

XVT08100-CS XVT-8112 Seal Return Isolation

FEP-1.0 ATTACHMENT II PART 22 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zones RB-1.1.2, RB-1.2.2, RB-1.3.3, RB-1.4.2, IB-25.3.1 and IB-25.3.2.
- PART ARO-40 is also applicable to Zone RB-1.1.2 only.
- PARTS ARO-46 and SE-50 are also applicable to Zones IB-25.3.1 and IB-25.33.2 only.

NOTE 1

For fire in these zones, Steam Generator A and its associated instrumentation will be the most reliable.

Substitute the following equipment throughout FEP-3.0 and FEP-3.1:

Use	Instead Of	For
LI-462	LI-461	Pressurizer Level
LI-475	LI-496	Steam Generator Level
PI-475	PI-495	Steam Generator Pressure
PI-2000	PI-2020	Main Steam Line Pressure
IPV-2000	IPV-2020	Steam Generator PORV
IFV-3531	IFV-3551	Steam Generator Feed
TI-410	TI-430	RCS T-Cold
ITE-0413A (CREP) (TI-413(MCB) for RB-1.4.2 only)	TI-433	RCS T-Hot
NI-32 (NI-31 for RB-1.2.2 only)	NI-33	Reactor Power

FEP-1.0 ATT ACHMENT II PART 23 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zones RB-1.3.2 and RE-1.4.1.
- 2. PARTS ARO-42 and AB-54 are also applicable to Zone RB-1.3.2 only.
- Substitute the following instrumentation throughout FEP-2.0 and FEP-2.1:

Use

Instead Of

For

LI-462

LI-459

Pressurizer Level

FEP-1.0 ATTACHMENT II PART 24 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zone IB-3.
- 2. PART AB-55 is also applicable to this zone.

NOTE 1

Train A control power will be lost when the battery discharges. Local manual control of all Steam Generator PORVs will be necessary.

1. Substitute the following equipment throughout FEP-3.0 and FEP-3.1:

Use	Instead Of	For
PI-495 and Steam Tables	TI-430	RCS T-Cold
TI-433A (CREP)	TI-433	RCS T-Hot
Local Manual	Remote	All Steam Generator PORVs

FEP-1.0 ATTACHMENT II PART 25 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zone IB-4.
- PART AB-55 is also applicable to this zone.

NOTE 1

Train B control power will be lost when the battery discharges. Local manual control of the emergency feed valves and Steam Generator PORVs will be necessary.

1. Substitute the following equipment throughout FEP-2.0 and FEP-2.1:

Use	Instead Of	For
PI-484 and Steam Tables	TI-420	RCS T-Cold
Local Manual	Remote	All Steam Generator PORVs
Local Manual	Remote	IFV-3531, 3541 and 3551

FEP-1.0 ATTACHMENT II PART 26 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zone IB-5.
- PART AB-56 is also applicable to this zone.

NOTE 1

For this fire zone Battery Charger 1A-1B will not be available. The AB Operator removes unnecessary loads from DPN1HA and DPN1HA1. Local manual control of all Steam Generator PORVs will be necessary.

Substitute the following equipment throughout FEP-3.0 and FEP-3.1:

Use	Instead Of	For
TI-430A (CREP)	TI-430	RCS T-Cold
TI-433A (CREP)	TI-433	RCS T-Hot
Local Manual	Remote	All Steam Generator PORVs

FEP-1.0 ATTACHMENT II PART 27 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- Step 1 is an Immediate Action.
- This Part applies to fire in Zones IB-7.2 and IB-8.

CASE I - Chiller A - OPERABLE

Implement FEP-2.0.

CASE II - Chiller A - INOPERABLE

1. Implement FEP-3.0.

FEP-1.0 ATTACHMENT II PART 28 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- Step 1 is an Immediate Action.
- This Part applies to fire in Zone IB-13.

CASE I - Component Cooling Pump A - OPERABLE

1. Implement FEP-2.0.

CASE II - Component Cooling Pump A - INOPERABLE

1. Implement FEP-3.0.

FEP-1.0 ATTACHMENT II PART 29 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zone IB-17.
- PARTS ARO-47 and SE-51 are also applicable to this zone.

NOTE 1

This fire can cause control problems with Bus 1DB normal and emergency incoming breakers and with Diesel Generator B remote control. The A Nuclear Reactor Operator will coordinate with the Shift Engineer to establish local control.

Substitute the following equipment throughout FEP-3.0 and FEP-3.1:

Use

instead Of

For

Local

Remote

VU Chiller C

Portable Ventilation

XFN-76

Cooling 1DB Switchgear

Room

Local

Remote

Diesel Generator B

- Within 90 minutes, have the IB Operator place VU Chiller C in LOCAL at XPN-7208 (IB-412).
- Within eight hours, if XFN-76, 1DB Cooling Fan is disabled, have maintenance or the fire brigade rig temporary fans.

FEP-1.0 ATTACHMENT II PART 30 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zones IB-22.1 and IB-22.2.
- PARTS ARO-44 and SE-50 are also applicable to these zones.
- Substitute the following equipment throughout FEP-2.0 and FEP-2.1:

Use Instead Of

For

Local Manual

Remote

IFV-3541

Local Manual

Remote

PCV-2000

FEP-2.0 Attachment IX

Remote

XFN-38A, Battery Room

Fan (1DA2X)

FEP-1.0 ATTACHMENT II PART 31 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

- This Part applies to fire in Zones IB-25.1.1, IB-25.1.4, IB-25.2 and IB-25.5.2.
- PART SE-50 is also applicable to Zone IB-25.5.2 only.
- Substitute the following instrumentation throughout FEP-3.0 and FEP-3.1:

Use	Instead Of	For
LI-462	LI-461	Pressurizer Level
LI-497	LI-496	Steam Generator C Level
PI-2020	PI-495	Steam Generator C Pressure

FEP-1.0 ATTACHMENT II PART 32 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- 1. This Part applies to fire in Zone IB-25.1.2.
- 2. PARTS ARO-40, 43, 44 and SE-50 are also applicable to this zone.
- 1. Substitute the following equipment throughout FEP-2.0 and FEP 2.1:

Use	Instead Of	For
Local Manual	Remote	All Steam Generator PORVs
Local Manual	Remote	IFV-3541
Local (XPN-7208)	Remote	VU Chiller C
Attachment VIII (XSW1DA1)	Remote	XPP-45A, SW Booster Pump
Attachment IX (XSW1DA2X)	Remote	XFN-38A, Battery Room Fan

 Within 90 minutes, have the IB Operator place VU Chiller C in LOCAL at XPN-7208 (IB-412).

FEP-1.0 ATTACHMENT II PART 33 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

- This Part applies to fire in Zone IB-25.1.3.
- PARTS ARO-45, 46, 48, SE-53 and IB-58 are also applicable to this zone.
- 1. Substitute the following equipment throughout FEP-3.0 and FEP-3.1:

Use	Instead Of	For
LI-462	LI-461	Pressurizer Level
LI-497	LI-496	Steam Generator C Level
PI-2020	PI-495	Steam Generator C Pressure
Local Manual	Remote	IPV-2020
TDEFP Speed	Flow Control Valves	Controlling Steam Generator Level
TDEFP	MDEFP B	Steam Generator Feed

FEP-1.0 ATTACHMENT II PART 34 PAGE 1 OF 2 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- Step 1 is an Immediate Action.
- 2. This Part applies to fire in Zone IB-25.1.5.
- PARTS ARO-43, 44, SE-50 (CASE I), SE-53 (CASE II), and IB-58 (CASE II) are also applicable to this zone.

CASE I - Component Cooling Pump A - OPERABLE

- 1. Implement FEP-2.0, modified by PARTS ARO-43, ARO-44 and SE-50.
- Substitute the following equipment throughout FEP-2.0 and FEP-2.1:

Use	Instead Of	For
PI-2010	PI-484	Steam Generator B Pressure
Local Manual	Remote	IFV-3541
Local Manual	Remote	All Steam Generator PORVs

CASE II - Component Cooling Pump A - INOPERABLE

- 1. Implement FEP-3.0, modified by PARTS ARO-43, ARO-44, SE-53 and IB-58.
- 2. Substitute the following equipment throughout FEP-3.0 and FEP-3.1:

Use	Instead Of	For
LI-462	LI-461	Pressurizer Level
LI-497	LI-496	Steam Generator C Level
NI-32	NI-33A	Reactor Power
TDEFP	MDEFP B	Steam Generator Feed
Local Manual	Remote	IFV-3556

FEP-1.0 ATTACHMENT II PART 34 PAGE 2 OF 2 REVISION 10

Use

Instead Of

For

Local Manual

Remote

All Steam Generator PORVs

FEP-1.0 ATTACHMENT II PART 35 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zone IB-25.4.
- 2. PARTS ARO-40, 41 and SE-50 are also applicable to this zone.
- 1. Substitute the following equipment throughout FEP-2.0 and FEP-2.1:

Use

Instead Of

For

PI-484 and Steam Tables

TI-420

RCS T-Cold

FEP-1.0 ATTACHMENT II PART 36 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zones IB-25.6.1, IB-25.6.2 and IB-25.7.
- PARTS ARO-43, 45, 47, SE-50, 51 and AB-57 are also applicable to these zones.

NOTE 1

This fire can cause control problems with Bus 1DB normal and emergency incoming breakers and with Diesel Generator B remote control. The A Nuclear Reactor Operator will coordinate with the Shift Engineer to establish local control.

Substitute the following equipment throughout FEP-3.0 and FEP-3.1:

Use	Instead Of	For
LI-462	LI-461	Pressurizer Level
LI-497	LI-496	Steam Generator C Level
PI-2020	PI-495	Steam Generator C Pressure
Local Manual	Remote	IPV-2010, 2020
Local	Remote	Diesel Generator B
Local	Remote	VU Chiller C
Local (AB-388)	Remote	XFN-47 (Charging Pump C Room Fan)

- This fire can damage both the radio system and the plant page. Use Channel 2 on the radios, or runners if needed.
- Within 90 minutes, have the IB Operator place VU Chiller C in LOCAL on XPN-7208 (IB-412).

FEP-1.0 ATTACHMENT II PART 37 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- This Part applies to fire in Zone IB-25.8.
- PARTS ARO-41 and SE-50 are also applicable to this zone.
- Substitute the following equipment throughout FEP-2.0 and FEP-2.1:

Use

Instead Of

For

Local Manual

Remote

IPV-2000

FEP-1.0 ATTACHMENT II PART 38 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

- This Part applies to fire in Zone IB-25.9.
- PARTS ARO-41 and ARO-42 are also applicable to this zone.
- 1. Substitute the following equipment throughout FEP-3.0 and FEP-3.1:

Use	Instead Of	For
LI-462	LI-461	Pressurizer Level
LI-497	LI-496	Steam Generator C Level
Local Manual	Remote	IPV-2000

FEP-1.0 ATTACHMENT II PART 39 PAGE 1 OF 1 REVISION 10

CONTROL ROOM SUPERVISOR

NOTE

- Step 1 is an Immediate Action.
- This Part applies to fire in Zones SWPH-2, SWPH-5.1.3 and SWPH-5.2.3.
- PART IB-59 is also applicable to these zones (CASE II only).

CASE I - Service Water Pump A - OPERABLE

Implement FEP-2.0.

CASE II - Service Water Pump A - INOPERABLE

1. Implement FEP-3.0, modified by PART IB-59.

FEP-1.0 ATTACHMENT II PART ARO-40 PAGE 1 OF 1 REVISION 10

A NUCLEAR REACTOR OPERATOR

- Step 1 is an Immediate Action.
- 2. This Part is to be performed in conjunction with the duties specified by FEP-2.0 (3.0).
- This Part applies to fire in Zones CB-12, RB-1.1.1, RB-1.1.2, RB-1.2.3, IB-25.1.2 and IB-25.4.
- De-energize the following by opening their respective Disconnect Switches located inside the Main Control Board:
 - a. Sub Panel-19B (XCP-6113):

	Switch	Valve Number
1)	DS-10	XVT-8153
1)	DS-11	XVT-8154

FEP-1.0 ATTACHMENT II PART ARO-41 PAGE 1 OF 1 REVISION 10

A NUCLEAR REACTOR OPERATOR

NOTE

- Step 1 is an Immediate Action.
- 2. This Part is to be performed in conjunction with the duties specified by FEP-2.0 (3.0).
- This Part applies to fire in Zones CB-18, AB-1.18.1, AB-1.21.1, AB-1.21.2, IB-25.4, IB-25.8, and IB-25.9.
- De-energize the following by opening their respective Disconnect Switches located inside the Main Control Board:
 - a. Sub Panel-19A (XCP-6112):

Switch

Valve Number

1) DS-4

PCV-2000A

b. Sub Panel-19B (XCP-6113):

Switch

Valve Number

1) DS-7

PCV-2000B

FEP-1.0 ATTACHMENT II PART ARO-42 PAGE 1 OF 1 REVISION 10

A NUCLEAR REACTOR OPERATOR

- Step 1 is an Immediate Action.
- This Part is to be performed in conjunction with the duties specified by FEP-2.0(3.0).
- This Part applies to fire in Zones CB-10, CB-18, AB-1.21.1, RB-1.2.1, RB-1.3.2, IB-14, IB-20, IB-21.1, IB-21.2 and IB-25.9.
- De-energize the following by opening their respective Disconnect Switches located inside the Main Control Board:
 - a. Sub Panel-19A (XCP-6112):

	Switch	Valve Number
1)	DS-1	ILV-459 XVT-8146
2)	DS-2	ILV-460 XVT-8147

FEP-1.0 ATTACHMENT II PART ARO-43 PAGE 1 OF 1 REVISION 10

A NUCLEAR REACTOR OPERATOR

NOTE

- Step 1 is an Immediate Action.
- This Part is to be performed in conjunction with the duties specified by FEP-2.0(3.0).
- 3. This Part applies to fire in Zones CB-2, CB-10, CB-12, CB-18, 13-20, IB-25.1.2, IB-25.1.5, IB-25.6.1, IB-25.6.2 and IB-25.7.
- De-energize the following by opening their respective Disconnect Switches located inside the Main Control Board:
 - a. Sub Panel-19A (XCP-6112):

b.

	Switch	Valve Number
1)	DS-5	PCV-2010A
2)	DS-6	PCV-2020A
Su	b Panel-19B (XCP-6113):	

	Switch	Valve Number
1)	DS-8	PCV-2010B
2)	DS-9	PCV-2020B

FEP-1.0 ATTACHMENT II PART ARO-44 PAGE 1 OF 1 REVISION 10

A NUCLEAR REACTOR OPERATOR

NOTE

- Step 1 is an Immediate Action.
- This Part is to be performed in conjunction with the duties specified by FEP-2.0(3.0).
- This Part applies to fire in Zones CB-2, CB-10, CB-12, IB-20, IB-22.1, IB-22.2, IB-25.1.2 and IB-25.1.5.
- De-energize the following by opening their respective Disconnect Switches located inside the Main Control Board:
 - a. Sub Panel-19A (XCP-6112):

	Switch	Valve Number
1) DS-3	DS-3	1-XVM-2801A
		1-XVM-2801B
	1-XVM-2801C	
		A-XVT-2869A
		A-XVT-2869B
		A-XVT-2869C
2)	DS-4	PCV-2000A

b. Sub Panel-19B (XCP-6113):

	Switch	Valve Number
1)	DS-7	PCV-2000B
2)	DS-12	2-XVM-2801A 2-XVM-2801B 2-XVM-2801C B-XVT-2869A B-XVT-2869B B-XVT-2869C

FEP-1.0 ATTACHMENT II PART ARO-45 PAGE 1 OF 1 REVISION 10

A NUCLEAR REACTOR OPERATOR

NOTE

- Step 1 is an Immediate Action.
- 2. This Part is to be performed in conjunction with the duties specified by FEP-2.0(3.0).
- 3. This Part applies to fire in Zones IB-15, IB-25.1.3, IB-25.6.1, IB-25-6.2 and IB-25.7.
- De-energize the following by opening their respective Disconnect Switches located inside the Main Control Board:
 - a. Sub Panel-19A (XCP-6112):

Valve Number
1-XVM-2801A
1-XVM-2801B
1-XVM-2801C
A-XVT-2869A
A-XVT-2869B
A-XVT-2869C

b. Sub Fanel-19B (XCP-6113):

	Switch	Valve Number
1) DS-12	DS-12	2-XVM-2801A
		2-XVM-2801B
		2-XVM-2801C
		B-XVT-2869A
		B-XVT-2869B
		B-XVT-2869C

FEP-1.0 ATTACHMENT II PART ARO-46 PAGE 1 OF 1 REVISION 10

A NUCLEAR REACTOR OPERATOR

NOTE

- Step 1 is an Immediate Action.
- This Part is to be performed in conjunction with the duties specified by FEP-2.0(3.0).
- This Part applies to fire in Zones IB-25.1.3, IB-25.3.1, IB-25.3.2 and IB-25.5.1.
- De-energize the following by opening their respective Disconnect Switches located inside the Main Control Board:
 - a. Sub Panel-19A (XCP-6112):

Switch

Valve Number

1) DS-6

PCV-2020A

b. Sub Panel-19B (XCP-6113):

Switch

Valve Number

1) DS-9

PCV-2020B

FEP-1.0 ATTACHMENT II PART ARO-47 PAGE 1 OF 1 REVISION 10

A NUCLEAR REACTOR OPERATOR

- This Part is to be performed in conjunction with the duties specified by FEP-3.0.
- This Part applies to fire in Zones CB-10, IB-17, IB-25.6.1, IB-25.6.2, IB-25.7 and TB-1.
- When establishing power to Bus 1DB from Diesel Generator B, it must be performed locally. Contact the Shift Engineer and direct him to perform PART SE-51.

FEP-1.0 ATTACHMENT II PART ARO-48 PAGE 1 OF 1 REVISION 10

A NUCLEAR REACTOR OPERATOR

- This Part is to be performed in addition to the duties specified by FEP-3.0.
- This Part applies to fire in Zone IB-25.1.3.
- After FEP-3.0, Attachment III is completed, perform the following:
 - a. Remove the following fuses inside the MCB:
 - 1) FU-EF38A for FCV-3546 (XCP-6111).
 - FU-EF39A for FCV-3556 (XCP-6111).

FEP-1.0 ATTACHMENT II PART ARO-49 PAGE 1 OF 1 REVISION 10

A NUCLEAR REACTOR OPERATOR

- 1. Step 1 is an Immediate Action.
- This Part is to be performed in conjunction with the duties specified by FEP-4.0.
- This Part applies to fire in Zones CB-17.1, CB-17.2 and CB-17.3.
- Open the disconnects in the Termination Cabinets (CB-448) instead of inside the MCB.

FEP-1.0 ATTACHMENT II PART SE-50 PAGE 1 OF 1 REVISION 10

SHIFT ENGINEER

NOTE

This Part applies to fire in Zones CB-2, CB-10, CB-12, IB-20, IB-22.1, IB-22.2, IB-25.1.2, IB-25.1.5 CASE I, IB-25.3.1, IB-25.3.2, IB-25.4, IB-25.5.1, IB-25.5.2, IB-25.6.1, IB-25.6.2, IB-25.7, IB-25.8 and IB-27.

- 1. Within 30 minutes, isolate blowdown by closing the following valves (TB-424):
 - a. XVT00542A-BD, SG A BLOWDOWN HEAT EXCHANGER INLET VLV.
 - b. XVT005425-BD, SG B BLOWDOWN HEAT EXCHANGER INLET VLV.
 - c. XVT00542C-BD, SG C BLOWDOWN HEAT EXCHANGER INLET VLV.

SHIFT ENGINEER

NOTE

This Part applies to fire in Zones CB-10, IB-17, IB-25.6.1, IB-25.6.2, IB-25.7 and TB-1.

- When directed, de-energize Bus 1DB (IB-436) as follows:
 - At XSW1DB 01, BUS 1DB EMERG INCOMING BKR, perform the following:
 - Open XSW1DB 01 CCP, CLOSING CNTRL PWR EMERG INCM BKR (RRP).
 - Open XSW1DB 01 TCP, TRIPPING CNTRL PWR EMERG INCM BKR (RRT).
 - 3) Push MANUAL TRIP on 7.2KV breaker.
 - b. At XSW1DB 16, BUS 1DB NORMAL INCOMING BKR, perform the following:
 - Open XSW1DB 16 CCP, NORMAL INCM BKR CLOSING CNTRL PWR.
 - Open XSW1DB 16 TCP, NORMAL INCM BKR TRIPPING CNTRL PWR.
 - 3) Push MANUAL TRIP on 7.2KV breaker.
- 2. Go to Diesel Generator B (DB-436) and perform the following:
 - Place the REMOTE/LOCAL/MAINT switch to LOCAL.
 - Verify the Diesel Generator is running with the output breaker closed.

PART SE-51
PAGE 2 OF 2
REVISION 10

NOTE 2.0

- XSW1DB 10 TCP, TRIPPING CNTRL PWR XEG0001B-DG (RRT) for Diesel Generator B must remain closed.
- Electrical jumpers or lifted lead procedures must not be used to close the Diesel Generator output breaker.
- If the Diesel Generator B output breaker is not closed, investigate cause and attempt to start Diesel locally and close its output breaker.

FEP-1.0 ATTACHMENT II PART SE-52 PAGE 1 OF 1 REVISION 10

SHIFT ENGINEER

NOTE

This Part applies to fire in Zone AB-1.18.1.

- Obtain keys and flashlight from the Control Room.
- 2. Close XSW1DB1 04B, MAIN INCOMING BREAKER as follows (AB-463):
 - Place 43-ES36, XFER UNIT 4B, to LOCAL.
 - B. Momentarily place SS-ES36, UNIT 4B, to CLOSE.

FEP-1.0 ATTACHMENT II PART SE-53 PAGE 1 of 2 REVISION 10

SHIFT ENGINEER

NOTE

This Part applies to fire in Zones IB-25.1.3 and IB-25.1.5 CASE II.

- Obtain keys and flashlight from the Control Room.
- Within 30 minutes, start the Turbine Driven Emergency Feed Pun follows:
 - a. Open XVG02802B-MS, MS HEADER C EF PUMP TURBINE SUPPLY VLV (IB-436 East Pen).
 - Take the emergency stairs to the IB-412 (next to TDEFP Room).
 - c. If necessary, reset the throttle valve XVT02865-MS, EF PUMP TURB MAIN STEAM THROTTLE VALVE (IB-412).
 - d. Open IFV02030-MS, EF PUMP TURB STEAM SUPPLY FLOW CONT VLV as follows (IB-412):
 - Close IFV02030-AV1 MS, IA ISOLATION VALVE FOR IFV2030-MS.
 - Vent IFV02030-PR1-MS, IA SUPPLY PRESS REG FOR IFV2030-MS.
 - Ensure full turbine speed as follows (IB-412):
 - 1) Close ISY02034-AV1-MS, IA ISOLATION VALVE FOR ISY2034.
 - 2) Vent ISY02034-PR1-MS, IA SUPPLY PRESS REG FOR ISY2034.
 - Verify Turbine speed increases to greater than 4000 RPM on ISI13505-EF (EF Pump Turbine Tachometer).
- Close the following drains (IB-412):
 - a. XVT02803A-MS, EF PP TURB MS THROTTLE VLV DRAIN VLV A.
 - b. XVTO2804A-MS, EF PUMP TURBINE CASING STEAM DRAIN VLV.

FEP-1.0 ATTACHMENT II PART SE-53 PAGE 2 of 2 REVISION 10

- C. XVT02804B-MS, EF PUMP TURBINE CASING STEAM DRAIN VLV.
- 4. Within 30 minutes, feed the steam generators as follows:
 - Evaluate local instrumentation. The most reliable instrument for all fires is LI-497B, SC C WIDE RANGE LEVEL (CREP).
 - Coordinate with the Control Room Supervisor to maintain between 50% and 60% WIDE RANGE LEVEL by throttling the following (IB-423):
 - IFV03536-EF, SG A TURB DR EF PUMP FLOW CONTROL VALVE.
 - IFV03546-EF, SG B TURB DR EF PUMP FLOW CONTROL VALVE.
 - IFV03556-EF, SG C TURB DR EF PUMP FLOW CONTROL VALVE.
 - If Control Valves cannot be throttled, then adjust Turbine speed to control feed rate.

FEP-1.0 ATTACHMENT II PART AB-54 PAGE 1 OF 1 REVISION 10

AUXILIARY BUILDING UPPER OPERATOR

- This Part is to be performed in conjunction with the duties specified by FEP-2.0.
- 2. This Part applies to fire in Zones CB-12, RB-1.1.1 and RB-1.3.2.
- Within 90 minutes, close XVT08100-CS, RC PUMP SEAL RETURN HDR ISOL VLV (ORC)(AB-412 West Pen).

FEP-1.0 ATTACHMENT II PART AB-55 PAGE 1 OF 1 REVISION 10

AUXILIARY BUILDING UPPER OPERATOR

- This Part is to be performed in conjunction with the duties specified by FEP-2.0(3.0).
- 2. This Part applies to fire in Zones IB-3, IB-4, and IB-25.1.2.
- Do not perform FEP-2.0(3.0) ATTACHMENT XI, CROSS TRAIN CONNECTION OF BATTERY CHARGER XBC1A-1B.

FEP-1.0 ATTACHMENT II PART AB-56 PAGE 1 OF 1 REVISION 10

AUXILIARY BUILDING UPPER OPERATOR

- This Part is to be performed in conjunction with the duties specified by FEP-3.0.
- This Part applies to fire in Zone IB-5.
- Do not perform FEP-3.0, ATTACHMENT XI, CROSS TRAIN CONNECTION OF BATTERY CHARGER XBC1A-1B.
- Contact the Control Room and verify that Bus 1DA has been de-energized, then perform the following (IB-412):
 - a. Open all breakers on DPN-1HA except M and 19.
 - Open all breakers on DPN-1HA1 except 10.

FEP-1.0 ATTACHMENT II PART AB-57 PAGE 1 OF 1 REVISION 10

AUXILIARY BUILDING UPPER OPERATOR

- This Part is to be performed in conjunction with the duties specified by FEP-3.0.
- This Part applies to fire in Zones IB-25.6.1, IB-25.6.2 and IB-25.7.
- Within 90 minutes, start XFN47 at XPN-5529-VL as follows (AB-388, behind Charging Pump C Transfer Switch):
 - Place 43-VL07 XFER, XPN0040 (XFN47) in LOCAL.
 - B. Place SS-VL07X, XPN0040 (XFN47) to START.

FEP-1.0 ATTACHMENT II PART IB-58 PAGE 1 OF 1 REVISION 10

INTERMEDIATE BUILDING OPERATOR

- This Part is to be performed in conjunction with the duties specified by FEP-3.0.
- This Part applies to fire in Zones IB-25.1.3 and IB-25.1.5 CASE II.
- Within 30 minutes, isolate blowdown by closing the following valves (TB-424):
 - a. XVT00542A-BD, SG A BLOWDOWN HEAT EXCHANGER INLET VLV.
 - XVT00542B-BD, SG B BLOWDOWN HEAT EXCHANGER INLET VLV.
 - c. XVT00542C-BD, SG C BLOWDOWN HEAT EXCHANGER INLET VLV.

FEP-1.0 ATTACHMENT II PART IB-59 PAGE 1 OF 1 REVISION 10

INTERMEDIATE BUILDING OPERATOR

- This Part is to be performed in conjunction with the duties specified by FEP-3.0.
- This Part applies to fire in Zones (CASE II only) SWPH-2, SWPH-5.1.3 and SWPH-5.2.3.
- 1. Within 90 minutes, start XFN-80B-AH (SW-440, behind XSW1EB1) as follows:
 - Place 43-AH327 XFER, XMC1EB1X U4FH in LOCAL.
 - B. Place SS-AH-327X, XMC1EB1X U4FH to START.

FEP-1.0 ATTACHMENT II PART IB-60 PAGE 1 OF 1 REVISION 10

INTERMEDIATE BUILDING OPERATOR

- This Part is to be performed in addition to the duties specified by FEP-2.0.
- This Part applies to fire in Zones SWPH-4.1 and SWPH-4.2.
- After completing FEP-2.0 ATTACHMENT IV, provide portable ventilation equipment to cool the Service Water Pump Room and the XSW1EA Switchgear Room.