

SHEET 1a

LEGEND	
X	= NOT AVAILABLE
P	= PREMPTIVE ACTION PRIOR TO FIRE DAMAGE
M	= AVAILABLE – MANUAL OPERATION (Outside Control Room)
CR	= AVAILABLE – MANUAL OPERATION (In Control Room)
2A	= AVAILABLE FOR 2 HOURS
L	= FUNCTION SATISFIED USING ALTERNATE TEMP EQUIPMENT
F	= AVAILABLE - ONE or OTHER WILL BE AVAILABLE
R	= Repair to restore function
A	– “A” TRAIN
B	– “B” TRAIN
C	– “C” TRAIN
D	– “D” TRAIN
NOTES:	
1. BLANK SPACE –ALL COMPONENTS AVAILABLE	
2. REFER TO FIRE AREA/ZONE BASIS DOCUMENTS FOR SPECIFIC ESAS ACTUATION (4 PSIG, 1600 PSIG, 30 PSIG, LINE BREAK, BS PUMP START)	
3. SI can be restored after a MUP is operating by performing all of the actions indicated: A – Block open MU-V-20, B – OPEN MU-V-76A/B, C – Throttle MU-V-90	
4. MU-P-1B is AVAILABLE AFTER ES SELECT on 1E 4160V SWGR	
5. NR-P-1B is AVAILABLE AFTER POWER TRANSFER to 1R 480V SWGR	

ATTACHMENT 3-0
SYSTEM AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

SHEET 2a

SYSTEMS /FUNCTIONS	A A A A A A A A A A A A A A A A C																															
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SHEET 4a

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SHEET 5a

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SHEET 1b

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ATTACHMENT 3-0
SYSTEM AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

SHEET 2b

SYSTEMS /FUNCTIONS	D D F F F F F F I I I I I I I I S S S S R R R R R R R T Y G G H H H H H H B B B B B B B B S P P P P B B B B B B B B A F F F F F F F F F F F F F F F F H H H H F F F F F F F F D A A Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z F F F F Z Z Z Z Z Z Z A 1 2 1 2 3 4 5 6 1 2 3 4 5 6 7 8 A Z Z Z 1 1 1 1 1 2 3 1 2 1 2 3 a b c d e																											REMARKS			
TURBINE DRIVEN PUMP																															
EMERGENCY FEEDWATER – MOTOR DRIVEN PUMP	B	A									X																				
EFW CONTROL VALVES TO OTSG A AND OTSG B		M	2A	2A	2A	2A	M		2A	M	M	2A	2A	2A		M	2A	2A	2A							2A					WHEN 2HR AIR IS DEPLETED MANUAL CONTROL IS AVAILABLE
ISOLATE MAIN FEEDWATER	T	T	T	T			T	T	T	T	T	T		T												F					T= TRIP MFW PUMPS, V=CLOSE FW VALVES
OTSG PRESSURE CONTROL (HSD FUNCTION)		2A	2A	2A	2A	2A	M		2A	M	M	2A	2A	M		2A	2A	2A	2A							M					WHEN 2HR AIR IS DEPLETED MANUAL CONTROL IS AVAILABLE MS-V-4A/B HSD AVAILABILITY
ISOLATE STEAM DUMP TO CONDENSER			1	1			1	1		1	1				1											2					1=MS-V-8A AND 8B NOT AVAILABLE 2=MS-V-3A, 3B, 3C, 3D, 3E or 3F AFFECTED
NORMAL INSTRUMENT AIR		X	X	X	X	X			X	X	X	X	X	X		X		X	X	X						X					
IA COMPRESSOR	B	A								A	X	A		X	B											X					
COPPER AIR LINES/FITTINGS		X	X	X	X	X			X	X	X	X	X	X		X		X	X	X						X					
2 HR. BACKUP AIR		X								X	X																				
DECAY HEAT REMOVAL SYSTEM	B	A	B	A			A	B										B	A												AVAILABLE AFTER MANUAL ALIGNMENT OF VALVES
DECAY HEAT CLOSED CYCLE	B	A	B	A			A	B										B	A												
DECAY HEAT RIVER WATER	B	A	B	A			A	B										B	A												
TEMPERATURE INDICATION WHEN OPERATING DHR			L	A			L	B,I																							A = DH2-TE-1, B = DH2-TE-2, I = BIRO INCORE TEMPERATURE
COMPONENT COOLING SYSTEMS																															

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ATTACHMENT 3-0
SYSTEM AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

SHEET 3b

SYSTEMS /FUNCTIONS	D D F F F F F F I I I I I I I S S S I R R R R R R R T Y G G H H H H H H B B B B B B B S P P P S P B B B B B B B B A F F F F F F F F F F F F F F H H H H F F F F F F F F D A A Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z F F F F Z Z Z Z Z Z Z A 1 2 1 2 3 4 5 6 1 2 3 4 5 6 7 8 A Z Z Z 1 1 1 1 1 2 3 1 2 1 2 3 a b c d e																														REMARKS		
INTERMEDIATE COOLING PUMP	B	A	B	A				B																		M							
IC VALVES		M	M	M	M	M	M		M	M	M	M	M	M		M	M	M			X					M							IC-V-2, 3, 4
NUCLEAR SERVICE CLOSED COOLING PUMP	B	A, C	B	A				B																									A=NS-P-1A, B=NS-P-1C, C=NS-P-1B
NUCLEAR RIVER WATER PUMP	B, C	A	B	A, C			A	B, C									B	A								A, B							A=NR-P-1A, B=NR-P-1C, C=NR-P-1B
NR VALVES			M						M	M		M		M		M										M							NR-V-4A, 4B, 15A, 15B
ISPH VENTILATION	B	A	L	A	A		A	B									L	L	L														L = PORTABLE VENTILATION
INSTRUMENTATION																																	
REACTIVITY			B	A			A	A														B											A=NI-11 B=NI-12
RC OUTLET TEMPERATURE			N					B, N												B, N	B	B, N		B									A=RC-TE-958 B=RC-TE-960 N=RC4A/B-TE-1/4
RC INLET TEMPERATURE			N					B, N												B, N	B	B, N	A, B	B, N	B, N								A=RC-TE-959 B=RC-TE-961 N=RC5A/B-TE-2/4
RC PRESSURE			A					B												B	B	B			B	B							A=RC3A-PT-3 B=RC-PT-949 C=RC-PT-963 (RSD ONLY)
PZR LEVEL (TEMP. COMPENSATED)			N				N													N	N	N	N		N								B=RC-LT-777 W/RC2-TE-2 N=RC1-LT-1 OR 3 W/RC2-TE-1 OR 2
SG-A LEVEL			A																		A	A											A=FW-LT-775 B=FW-LT-789
SG-B LEVEL			B					B														B											A=FW-LT-788 B=FW-LT-776

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ATTACHMENT 3-0
SYSTEM AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

SHEET 4b

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	2 1 2 3																												
	REMARKS																												
SG-A PRESSURE			A, N				A, N																						A=MS-PT-950 B=MS-PT-1180 N=SP6A-PT-1/2
SG-B PRESSURE			B, N				B, N	B, N																					B=MS-PT-951 A=MS-PT-1184 N=SP6B-PT-1/2
BWST LEVEL			B				B																				L		A=DH-LT-808 B=DH-LT-809
AC ELECTRICAL POWER																													
DIESEL GENERATOR	B	A																											
4160 V SWGR	B	A																											
480 V SWGR @ CONTROL BLDG	B	A																											
480 V SWGR @ SCREEN HOUSE	B	A	B	A			A	B												B	A								
480 V ES MCC	B	A																											
480 V ESV MCC	B, C	A, C	B	A, C			B, C																						
480 V MCC @ SCREEN HOUSE	B	A	B	A			A	B												B	A								
INVERTER																													N=EE-INV-1E, V=EE-INV-1F
120VAC Panels VBA, VBB, VBC, VBD, ATA, and ATB																													A=VBA, B=VBB, C=VBC, D=VBD N=ATA AND ATB

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ATTACHMENT 3-0
SYSTEM AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

SHEET 5b

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	G	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B	B	B	A
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	F	F	F	F	F	F	R
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	Z	Z	Z	A	D
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	F	F	F	F	1	1	1	1	1	2	3
																A	Z	Z	Z	a	b	c	d	e			
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