Time Lines are prepared for each fire area which requires manual actions and/or repairs. The actions are grouped by the shutdown function that they are supporting. The time limit for the completion of a group of actions is shown as a milestone on the Time Line. The actions are then listed in logical order based on system operation consideration and action location. Operators are assigned to actions arbitrarily depending on their availability and last action location. All areas have a 30 minute time allotted at the start of the event to "assign operator actions". Most actions are then sequenced following this time. Some actions are required to start prior to the end of the 30 minutes and these actions are shown on the Time Lines as "Prompt Actions".

The Time Lines are prepared to demonstrate possible sequences of actions performed by assigned operators to achieve shutdown of both units for a fire in each fire area. The action sequence and assignment of operators in an actual fire will be determined by the demands of the event. The fire response guides contain symptomatic responses for possible failures, but it is most likely that not all actions shown on the Time Line will be required for an actual fire in any fire area. The Time Lines represent the worst case response (i.e., most actions) that could be required for each fire area.

8.3 Identification of FSSD Manual Action Components

To facilitate identification of FSSD components that require a manual action, plant equipment required to be manipulated for FSSD may be enhanced with yellow paint or pinstriping. Components located inside the main control room or inside of panels need not be enhanced (Reference 3.3.9.17, 3.3.9.18, 3.3.9.19).

8.4 Summary of Manual Actions (Table A-1)

Table A-1 provides a summary of the manual actions in the individual fire area calculations (Reference 3.3.1.1). This table provides a detailed description of each action as well as a detailed basis for each action's limiting time.

RR/11

TABLE A-1
Summary of Manual Action

EQUIPMENT	ACTION REQUIRED	ACTION BASIS	ACTION LOCATION	TIME LIMIT	TIME BASIS	FIRE AREAS
00S306	Operate switch 00S306 to restore power for SU-25 breaker auxiliaries from MCC 00L207	SU-25 auxiliary power required for compressor and heaters. 2 SU power required for this area.	Unit 2, SU Swgr Bldg; Rm YARD	75 m 60 m(2)	Section 7.1.1	2, 50
2-152-1501	Pull control fuses for 2-152-1501 and trip/verify breaker using mechanical pushbutton	4 KV Bus required for RHR pump, DG Auxiliaries, Battery Chargers	3-135' Rm 227	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	36, 37
2-152-1503	Trip breaker 2-152-1503 at switchgear	Bus to be powered by offsite source	3-135' Rm 227	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	50, YARD (MH17)
2-152-1508	Pull control fuses for 2-152-1508 and trip/verify breaker using mechanical pushbutton	4 KV Bus required for RHR pump, DG Auxiliaries, Battery Chargers	3-135' Rm 227	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	36, 37
2-152-1606	Trip breaker 2-152-1606 at switchgear	Bus to be powered by offsite source	3-135' Rm 231	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	50, YARD (MH18)
2-152-1704	Trip breaker 2-152-1704 at switchgear	Bus to be powered by offsite source	3-135' Rm 217	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	50, YARD (MH40)
2-152-1807	Trip breaker 2-152-1807 at switchgear	Bus to be powered by offsite source	3-135' Rm 226	180 m(50), 60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	50, YARD (MH16)
✓2-43-3614/TI (20B324)	Operate switch 2-43-3614/TI to restore power for MO2-23-015 from MCC 20B037	Support HPCI operation	9-135' Rm 206	25 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	25
20A01508	Pull degraded voltage relay control fuse (FU-35) to defeat degraded voltage relay (127C-1508) breaker trip	4 KV Bus required for RHR pump, Battery Chargers	3-135' Rm 227	30 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	2, 50, 58
20A01608	Pull degraded voltage relay control fuse (FU-66) to defeat degraded voltage relay (127C-1608) breaker trip	4 KV Bus required for RHR pump, Battery Chargers	3-135' Rm 231	30 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	2, 50, 58
20A01708	Pull degraded voltage relay control fuse (FU-97) to defeat degraded voltage relay (127C-1708) breaker trip	4 KV Bus required for RHR pump, Battery Chargers	3-135' Rm 217	30 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	2, 50, 58

TABLE A-1
Summary of Manual Action

EQUIPMENT	ACTION REQUIRED	ACTION BASIS	ACTION LOCATION	TIME LIMIT	TIME BASIS	FIRE AREAS
20A01808	Pull degraded voltage relay control fuse (FU-128) to defeat degraded voltage relay (127C-1808) breaker trip	4 KV Bus required for RHR pump, Battery Chargers	3-135' Rm 226	30 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	50, 58
20C32	Install plug-in test switch 2-14A-J2A at 20C032 to satisfy CS permissive for MO2-10-025A	LPCI	3-135' Rm 302	25 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	6N
	Install U2 plug-in test switch 2-10A-J1A at 20C032 to disable 3BP35 pump trip	3BP35 pump is required for suppression pool cooling	3-150' Rm 302	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	57, 4, 2
20S700	Operate switch 20S700 to restore power for Battery Charger 2AD003 from MCC 30B059	2A Battery Charger required after 60 minutes	3-135' Rm 217	60 m	Ref. 3.3.1.5	2, 50, 6S
20S701	Operate switch 20S701 to restore power to 20Y033 from MCC 30B059	Alternate power for 20Y33 (Monitoring Instrumentation)	3-135' Rm 227	30 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	2
20S703	Operate switch 20S703 to restore power to 20Y035 from MCC 30B038	Alternate power to long term Nitrogen for ADS valves, MSRV position indication, and process monitoring	8-135' Rm 212	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	4, 27
2BS456	Operate switch 2BS456 to restore power for Battery Charger 2BD003 from MCC 30B060	2B Battery Charger required after 60 minutes	3-135' Rm 226	60 m	Ref. 3.3.1.5	4, 6S, 25, 57, 2
2DS456	Operate switch 2DS456 to restore power for Battery Charger 2DD003 from MCC 30B060	2D Battery Charger required after 60 minutes	3-135' Rm 226	60 m	Ref. 3.3.1.5	6S, 38, 43, 2
3-152-1503	Trip breaker 3-152-1503 at switchgear	Bus to be powered by offsite source	3-135' Rm 267	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.6	50, YARD (MH17)
3-152-1606	Trip breaker 3-152-1606 at switchgear	Bus to be powered by offsite source	3-135' Rm 263	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.6	50, YARD (MH18)
3-152-1704	Trip breaker 3-152-1704 at switchgear	Bus to be powered by offsite source	3-135' Rm 261	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.6	50, YARD (MH40)
3-152-1807	Trip breaker 3-152-1807 at switchgear	Bus to be powered by offsite source	3-135' Rm 265	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.6	50, YARD (MH16)
3-43-3614/T1 (30B324)	Operate switch 3-43-3614/T1 to restore power for MO3-23-015 from MCC 30B037.	Support HPCI operation	9-135' Rm 258	25 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	25
30A01508	Pull degraded voltage relay control fuse (FU-30) to defeat degraded voltage relay (127C-1508) breaker trip	4 KV Bus required for RHR pump, Battery Chargers	3-135' Rm 267	30 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	2, 50

TABLE A-1
Summary of Manual Action

EQUIPMENT	ACTION REQUIRED	ACTION BASIS	ACTION LOCATION	TIME LIMIT	TIME BASIS	FIRE AREAS
30A01608	Pull degraded voltage relay control fuse (FU-60) to defeat degraded voltage relay (127C-1608) breaker trip	4 KV Bus required for RHR pump, Battery Chargers	3-135' Rm 263	30 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	2, 50, 58
30A01708	Pull degraded voltage relay control fuse (FU-93) to defeat degraded voltage relay (127C-1708) breaker trip	4 KV Bus required for RHR pump, Battery Chargers	3-135' Rm 261	30 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	2, 50, 58
30A01808	Pull degraded voltage relay control fuse (FU-123) to defeat degraded voltage relay (127C-1808) breaker trip	4 KV Bus required for RHR pump, Battery Chargers	3-135' Rm 265	30 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11 and 3.3.1.5	50, 58
30C032	Install U3 plug-in test switch 3-10A-J1A at 30C032 to disable 2DP35 pump trip	Pump 2DP35 is required to operate for suppression pool cooling	3-150' Rm 302	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	58
30C033	Insert U3 Plug-in test switch 3-10A-J1B at 30C033 to disable 2AP35 pump trip	2AP35 is required for suppression pool cooling	3-150' Rm 302	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	57, 2
30S546	Operate switch 30S546 to restore power to 30C144 from 20Y033	Alternate power to 30C144	3-150' Rm 302	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13N, 30, 57, 58
30S700	Operate switch 30S700 to restore power for Battery Charger 3DD003 from MCC 00B050.	3D Battery Charger required after 60 minutes	3-135' Rm 265	60 m	Ref. 3.3.1.6	58, 26, 13N
30S701	Operate switch 30S701 to restore power for 30Y033 from MCC 20B059	Alternate power to 30Y033 is required to support monitoring instrumentation	3-135' Rm 267	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	57, 58
30S702	Operate switch 30S702 to restore power for 30Y034 from MCC 20B060	Alternate power to 30Y034 is required to support monitoring instrumentation	3-135' Rm 263	30 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	33, 58
3AS456	Operate switch 3AS456 to restore power to Battery Charger 3AD003 from MCC 20B059	3A Battery Charger required after 60 minutes	3-135' Rm 261	60 m	Ref. 3.3.1.6	13N, 30
3CS456	Operate switch 3CS456 to restore power for Battery Charger 3CD003 from MCC 20B059.	3C Battery Charger required after 60 minutes	3-135' Rm 261	60 m	Ref. 3.3.1.6	13N, 13S, 26, 57, 58
516A (HV-2-32-516A)	Manually open valve 516A	Cross-tie HPSW to use opposite unit's pumps	PP Structure Rm 801	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	47, 48
516B (HV-3-32-516B	Manually open valve 516B	Cross-tie HPSW to use opposite unit's pumps	PP Structure Rm 803	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	47, 48
E124-T-B (20B059)	Close breaker at E124-T-B for 30S701	Normally open breaker must be closed to restore power source to transfer switch 30S701	3-135' Rm 227	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	57, 58

TABLE A-1
Summary of Manual Action

EQUIPMENT	ACTION REQUIRED	ACTION BASIS	ACTION LOCATION	TIME LIMIT	TIME BASIS	FIRE AREAS
E134-T-B (30B059)	Close breaker at E134-T-B for 20S700	Normally open breaker must be closed to restore power source to transfer switch 20S700	3-135' Rm 267	60 m	Ref. 3.3.1.5	2, 50, 6S
	Close breaker at E134-T-B for 20S701	Normally open breaker must be closed to restore power source to transfer switch 20S701	3-135' Rm 267	30 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	2
E134-W-A (30B036)	Open breaker at E134-W-A for MO3-10-089A	Allow manual operation at valve	10-116' Rm 162	150m, 180m(13N)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13N, 30
E224-T-B (20B060)	Close breaker at E224-T-B for 30S702	Normally open breaker must be closed to restore power source to transfer switch 30S702	3-135' Rm 231	30 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	33, 58
E234-D-A (00B054)	Open breaker at E234-D-A for MO-2486	Allow manual operation at valve	DG-127' Rm 817	180 m, 150 m(54)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	50, 54
	Open breaker at E234-D-A for MO-3486	Allow manual operation at valve	DG-127' Rm 817	180 m, 150 m(54)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	50, 54
	Open valve MO-2486 at MCC 00B054	HPSW Discharge to Pond Valve is required open for HPSW operation	DG-127' Rm 817	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	4, 38, 57, YARD (MH90)
	Open valve MO-3486 at MCC 00B054	HPSW Discharge to Pond Valve is required open for HPSW operation	DG-127' Rm 817	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	57, 58, YARD (MH90)
E234-R-B (30B037)	Close valve MO3-10-089B at MCC 30B037	Prevents HPSW flow diversion	15-135' Rm 250	180 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	25
E324-R-B (20B038)	Open breaker at E324-R-B for MO2-10-034A	Allow manual operation at valve	8-135' Rm 212	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	4, 57, 5
	Open breaker at E324-R-B for MO2-10-039A	Allow manual operation at valve	8-135' Rm 212	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	4, 57, 5
E334-R-B (30B038)	Close breaker at E334-R-B for 20S703	Restore power to 20Y035 from 30B038	15-135' Rm 257	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	4, 27
	Open breaker at E334-R-B for MO3-10-034A	Allow manual operation at valve	15-135' Rm 257	150 m, 180m(13N)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13N, 26, 12
	Open breaker at E334-R-B for MO3-10-039A	Allow manual operation at valve	15-135' Rm 257	150 m, 180m(13N)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13N, 26, 12
E424-T-B (00B050)	Close breaker at E424-T-B for 30S700	Normally open breaker must be closed to restore power source to transfer switch 30S700	3-135' Rm 265	60 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	58, 26

TABLE A-1
Summary of Manual Action

EQUIPMENT	ACTION REQUIRED	ACTION BASIS	ACTION LOCATION	TIME LIMIT	TIME BASIS	FIRE AREAS
E424-W-A (20B039)	Close valve MO2-10-089D at MCC 20B039	Prevents HPSW flow diversion	10-116' Rm 105	180 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	2S
	Open breaker at E424-W-A for MO2-10-034B	Allow manual operation at valve	10-116' Rm 105	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	6S, 5
	Open breaker at E424-W-A for MO2-10-039B	Allow manual operation at valve	10-116' Rm 105	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	6S, 5
	Open breaker at E424-W-A for MO2-10-089D	Allow manual operation at valve	10-116' Rm 105	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	6S
	Open valve MO2-10-154B at MCC 20B039	Alternate Shutdown Cooling	10-116' Rm 105	240 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	2S
E434-R-B (30B039)	Open breaker at E434-R-B for MO3-10-039B	Allow manual operation at valve	15-135' Rm 250	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	57, 58, 2, 12
E434-R-B (30B039)	Open breaker at E434-R-B for MO3-10-034B	Allow manual operation at valve	15-135' Rm 250	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	57, 58, 2, 12
	Open breaker at E434-R-B for MO3-10-089D	Allow manual operation at valve	15-135' Rm 250	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	58
	Open valve MO3-10-154B at MCC 30B039	Alternate Shutdown Cooling	15-135' Rm 250	240 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	2S
HV-0-16-11197	Unlock/Open HV-0-16-11197	RV2(3)-02-071E, H, and J have no accumulators and require a gas supply for long term operation.	135' CAD N2 Tank Bldg	180 m, 120m(13S)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13S, 6S
HV-2-16-23333	Unlock/Open HV-2-16-23333	RV2-02-071E, H, and J have no accumulators and require a gas supply for long term operation.	135' CAD N2 Tank Bldg	180 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	6S
HV-3-16-33310	Unlock/Open HV-3-16-33310	RV3-02-071E, H, and J have no accumulators and require a gas supply for long term operation.	16-135' Rm 252	120 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13S
HV-3-16-33333	Unlock/Open HV-3-16-33333	RV3-02-071E, H, and J have no accumulators and require a gas supply for long term operation.	135' CAD N2 Tank Bldg	120 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13S
MO-2486	Manually open valve MO-2486	HPSW Discharge to Pond Valve is required open for HPSW operation	DG-127' Rm 815	180 m, 150 m(54)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	50, 54
MO-3486	Manually open valve MO-3486	HPSW Discharge to Pond Valve is required open for HPSW operation	DG-127' Rm 815	180 m, 150 m(54)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	50, 54
MO2-10-025B	Manually open valve MO2-10-025B	Alternate Shutdown Cooling	8-135' Rm 204	180 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	6S
	Manually open/throttle valve MO2-10-025B as necessary	Control vessel cooldown rate	8-135' Rm 204	Until Cold Shutdown is Achieved	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	6S

TABLE A-1
Summary of Manual Action

EQUIPMENT	ACTION REQUIRED	ACTION BASIS	ACTION LOCATION	TIME LIMIT	TIME BASIS	FIRE AREAS
MO2-10-034A	Manually open valve MO2-10-034A	Valve is required open for Suppression Pool Cooling	8-116' Rm 1	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	4, 5, 57
MO2-10-034B	Manually open valve MO2-10-034B	Suppression Pool Cooling	8-116' Rm 1	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	6S, 5
MO2-10-039A	Manually open valve MO2-10-039A	Valve is required open for Suppression Pool Cooling	8-91'6" Rm 1	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	4, 5, 57
MO2-10-039B	Manually open valve MO2-10-039B	Suppression Pool Cooling	8-116' Rm 1	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	6S, 5
MO2-10-089D	Manually open valve MO2-10-089D	HPSW operation	9-116' Rm 104	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	6S
MO3-10-025A	Manually open valve MO3-10-025A	Alternate Shutdown Cooling	16-135' Rm 248	180 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13N.
	Manually open/throttle valve MO3-10-025A as necessary	Control vessel cooldown rate	16-135' Rm 248	Until Cold Shutdown is Achieved	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13N
MO3-10-034A	Manually open valve MO3-10-034A	Suppression Pool Cooling	16-116' Rm 37	150 m, 180m(13N)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13N, 26, 12
MO3-10-034B	Manually open valve MO3-10-034B	Valve is required open for suppression pool cooling	16-116' Rm 37	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	57, 58, 2, 12
MO3-10-039A	Manually open valve MO3-10-039A	Suppression Pool Cooling	16-116' Rm 37	150 m, 180m(13N)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13N, 26, 12
MO3-10-039B	Manually open valve MO3-10-039B	Valve is required open for Decay Heat Removal	16-91'6" Rm 37	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	57, 58, 2, 12
MO3-10-089A	Manually open valve MO3-10-089A	HPSW operation	9-116' Rm 156	150m, 180m(13N)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13N, 30
MO3-10-089D	Manually close/verify valve MO3-10-089D	Prevents HPSW flow diversion	15-116' Rm 159	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	58
N2-10-025A	Open valve MO2-10-025A at swingbus N2-10-025A	Alternate Shutdown Cooling	7-135' Rm 212	180 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	5
N2-10-025B	Open breaker for MO2-10-025B at swingbus N2-10-025B	Allow manual operation of the valve	8-135' Rm 205	180 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	6S
	Open valve MO2-10-025B at swingbus N2-10-025B	Alternate Shutdown Cooling	8-135' Rm 205	180 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	5

TABLE A-1
Summary of Manual Action

EQUIPMENT	ACTION REQUIRED	ACTION BASIS	ACTION LOCATION	TIME LIMIT	TIME BASIS	FIRE AREAS
N3-10-025A	Open breaker for MO3-10-025A at swingbus N3-10-025A	Allow manual operation of the valve	16-135' Rm 257	180 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13N
	Open valve MO3-10-025A at swingbus N3-10-025A	Alternate Shutdown Cooling	16-135' Rm 257	180 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	12
N3-10-025B	Open valve MO3-10-025B at swingbus N3-10-025B	Alternate Shutdown Cooling	16-135' Rm 250	180m, 120m(13S)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	12, 13S
SV-8130A (SV-2-16A-8130A)	REPAIR - Manually align back-up nitrogen system at SV-8130A	Long-term N2 for SRV operation	7-135' Rm 205	150 m, 240m(25)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	25, 57
SV-8130B (SV-2-16A-8130B)	REPAIR - Manually align back-up nitrogen system at SV-8130B	Long-term N2 for SRV operation	7-135' Rm 203	150 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	6N
SV-9130A (SV-3-16A-9130A)	REPAIR - Manually align back-up nitrogen system at SV-9130A	Long-term N2 for SRV operation	15-135' Rm 250	150 m, 240m(25)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	25, 31, 32, 57
SV-9130B (SV-3-16A-9130B)	REPAIR - Manually align back-up nitrogen system at SV-9130B	Long-term N2 for SRV operation	15-135' Rm 248	150m, 180m(13N)	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	13N, 31, 32
Unit 2 HPCI ACS	Move ACS light switch to the "ON" position and control reactor and decay heat removal at U2 HPCI ACS, as required for Alternative Shutdown	Control Room evacuated	9-135' Rm 206	Event Duration	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	25
Unit 2/3 4kV Swgr Area ACS	Continue control of 4kV equipment from U2/3 4kV Swgr Area ACS, as required for Alt. Shutdown. (See SE-10, Attach. 6, Pt. B)	Control Room evacuated	3-135' Rm 226, Rm 231, Rm 263, Rm 265	Event Duration	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	25
	Setup 4kV equipt. at U2/3 4kV Swgr Area ACS, as req'd for Alt. Shutdown. This includes operating Transf. Isol. Sws; Bkrs 20A16-1, 3, 4, 5, 6, 8, 9; 20A18-1, 2, 3, 4, 6, 7, 8; 30A16-1, 2, 4, 5, 6, 7, 8, 9; 30A18-1, 3, 5, 6, 7, 8, 9; and Diesels E2 and E4.	Control Room evacuated. See SE-10, Attch. 6, Part A.	3-135' Rm 226, Rm 231, Rm 263, Rm 265	28 m	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	25
Unit 3 HPCI ACS	Move ACS light switch to the "ON" position and control reactor and decay heat removal at U3 HPCI ACS, as required for Alternative Shutdown	Control Room evacuated	9-135' Rm 258	Event Duration	Ref. 3.3.8.1, 3.3.9.10, 3.3.9.11	25