

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-51
SHEET 1a

COMPONENTS	DECAY HEAT REMOVAL																														REMARKS					
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	C	C	C	C		C	C	C	C	
DH-P-1A	X																																			TRAIN A
DH-P-1B	X	X																																	TRAIN B	
DH-V-1																																			TRAIN X	
DH-V-2																																			TRAIN X - POWER REMOVED	
DH-V-3																																				
DH-V-4A																																				
DH-V-4B																																				
DH-V-5A																																				
DH-V-5B																																				
DH-V-6A	D																																			
DH-V-6B																																				
DH-V-7A																																				
DH-V-7B																																				
DH-V-12A																																				
DH-V-12B																																				
ES-V-3A	X																																			
ES-V-3B																																				
ES-V-2A																																				
ES-V-2B																																				
DH-V-75A	X																																			

LEGEND

- X - COMPONENT NOT AVAILABLE
- S - SUPPORT NOT AVAILABLE
- F - AVAILABLE-CABLE PROTECTED
- M - AVAILABLE-MANUAL OPERATION
- A - MANUAL OP. DUE TO LOSS OF INST. AIR

- D - DESIGN MODIFICATION
- RSD - REMOTE SHUT DOWN
- O - OPEN SWITCH OR BREAKER
- R - REPAIR
- J - CUT & JUMPER

003/002
13-5-16

Rev. 15

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5I
 SHEET 2a

COMPONENTS	DECAY HEAT REMOVAL																													REMARKS				
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	A	A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B	B	B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		F	F	F	F
	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z		Z	Z	Z	Z
1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
2	2	3	3	3	3	4	5	6	6	7	8	9	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
a	b	c							a																									
DH-V-75B		X						M																			X	M	M			TRAIN B		
DH-V-76A	X						X	X						X	X	M														X	X		TRAIN A	
DH-V-76B	X							M																					X	M	M		TRAIN B	

LEGEND

X	- COMPONENT NOT AVAILABLE	D	- DESIGN MODIFICATION
S	- SUPPORT NOT AVAILABLE	RSD	- REMOTE SHUT DOWN
P	- AVAILABLE-CABLE PROTECTED	O	- OPEN SWITCH OR BREAKER
M	- AVAILABLE-MANUAL OPERATION	R	- REPAIR
A	- MANUAL OP. DUE TO LOSS OF INST. AIR	J	- CUT & JUMPER

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5I
SHEET 1b

COMPONENTS	DECAY HEAR REMOVAL																											REMARKS		
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T					
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B	B	B		B	B
DH-P-1A	S	X					X												S											TRAIN A
DH-P-1B		S	R	K		X				S	S	S						S									S			TRAIN B
DH-V-1			M			M													M	M	M	M	M	M	M					TRAIN X
DH-V-2			M	M		M													M	M	M				M	M				TRAIN X - POWER REMOVED
DH-V-3			M			M																				M				TRAIN X
DH-V-4A	S	X				X																								TRAIN A
DH-V-4B		S	M	X		X				S	S	S														S				TRAIN B
DH-V-5A	S		M			M																								TRAIN A
DH-V-5B		S	M	X		M				S	S	S														S				TRAIN B
DH-V-6A			X			X																								TRAIN A
DH-V-6B			M	P		X																								TRAIN B
DH-V-7A			X			X																								TRAIN A
DH-V-7B			M	X		X																								TRAIN B
DH-V-12A																														MANUAL
DH-V-12B																														MANUAL
BS-V-3A	9		X			X																								TRAIN A
BS-V-3B		S	M	X		X																								TRAIN B
BS-V-2A			X			X																								TRAIN A
BS-V-2B			M	X		X																								TRAIN B
DH-V-75A			X			X																								TRAIN A

LEGEND

X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP. DUE TO LOSS OF INST. AIR	J - CUT & JUMPER

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5J
 SHEET 1a

COMPONENTS	INTERMEDIATE COOLING																								REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
IC-P-1A	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	TRAIN X
IC-P-1B	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	TRAIN X
IC-V-1A																										TRAIN X
IC-V-1B																										TRAIN X
IC-V-2																										TRAIN B
IC-V-3 (NOTE 1)	A	A																								TRAIN A OPEN SW. 15 AT EH-DPES-1E; VALVE CLOSSES ON LOSS OF AIR
IC-V-4 (NOTE 1)	A	A																								TRAIN C OPEN SW. 5 AT EH-DP-1M; VALVE CLOSSES ON LOSS OF AIR
IC-V-19A																										TRAIN X POWER REMOVED
IC-V-19B																										TRAIN X POWER REMOVED
IC-V-19C																										TRAIN X POWER REMOVED
IC-V-19D																										TRAIN X POWER REMOVED

LEGEND

- X - COMPONENT NOT AVAILABLE
- S - SUPPORT NOT AVAILABLE
- P - AVAILABLE-CABLE PROTECTED
- M - AVAILABLE-MANUAL OPERATION
- A - MANUAL OP. DUE TO LOSS OF INST. AIR

NOTE 1 -

Spurious closure of IC-V-3 & IC-V-4 due to spurious ESAS initiation for a fire in AB-FZ-6, AB-FZ-6a, AB-FZ-9, CB-FA-1, CB-FA-2a CB-FA-2d, CB-FA-2f can be corrected at RSD or by manual opening of the valves.

Rev. 15

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5J
SHEET 1b

COMPONENTS	INTERMEDIATE COOLING																												REMARKS
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	T	
	G	G	K	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	S	S	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	H	H	H	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	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	
IC-P-1A	S	X						X																				TRAIN X	
IC-P-1E	S		X							S	S	S															S	TRAIN X	
IC-V-1A			M				M																				M	TRAIN X	
IC-V-1E			M				M																				M	TRAIN X	
IC-V-2		P/RSD	P/RSD				P/RSD																				M	TRAIN B	
IC-V-3 (NOTE 1)	A	RSD/A	RSD/A	A	A		RSD	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	TRAIN A OPEN SW. 15 AT EH-DPES-1M; VALVE CLOSES ON LOSS OF AIR	
IC-V-4 (NOTE 1)	A	RSD/A	RSD/A	A	A		RSD	P	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	TRAIN C OPEN SW. 5 AT EH-DP-1M; VALVE CLOSES ON LOSS OF AIR	
IC-V-79A																												TRAIN X POWER REMOVED	
IC-V-79B																												TRAIN X POWER REMOVED	
IC-V-79C																												TRAIN X POWER REMOVED	
IC-V-79D																												TRAIN X POWER REMOVED	

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- M - AVAILABLE-MANUAL OPERATION
- A - MANUAL OP. DUE TO LOSS OF INST. AIR

NOTE 1 -

- D - DESIGN MODIFICATION
- RSD - REMOTE SHUT DOWN
- O - OPEN SWITCH OR BREAKER
- R - REPAIR
- J - CUT & JUMPER

Spurious closure of IC-V-3 & IC-V-4 due to spurious initiation of ESAS for a fire in FH-FZ-1, FH-FZ-2 and FH-FZ-5 can be corrected at RSD or by opening switches or by manual opening of the valves.

COMPONENTS	AIR HANDLING																										REMARKS					
	D	G	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	S	S	S	P	P	P	P	R	R		R	R	R	R	T
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	H	H	H	F	F	F	F	F		F	F	F	F	F
	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				
AH-E-27A	S	X					X										X	X	X													
AH-E-27B	S	X	X	X	X				S	S	S						X	X	X									S				

LEGEND

- X - Component Not Available
- S - Support Not Available
- P - Available - Cable Protected
- M - Available - Manual Operation
- A - Manual Op. Due to Loss of Inst. Air
- D - Design Modification
- RSD - Remote Shut Down
- O - Open Switch or Breaker
- R - Repair
- J - Cut & Jumper

COMPONENTS	NUCLEAR SERVICE CLOSED CYCLE COOLING WATER																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
	1	2	1	2	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	a	a	b	b	c				a																					
NS-P-1A						X	X		P							X	X	D	X	S				X	X	X			TRAIN A	
NS-P-1B								X	X							X	X	X	X					X	X	X	X			TRAIN C
NS-P-1C									P							P	RSD	X	S		X	P	X	X	RSD	RSD	RSD			TRAIN B
NS-V-32						X	X																		X	X				

LEGEND

- X - Component Not Available
- S - Support Not Available
- P - Available - Cable Protected
- M - Available - Manual Operation
- A - Manual Op. Due to Loss of Inst. Air
- D - Design Modification
- RSD - Remote Shut Down
- O - Open Switch or Breaker
- R - Repair
- J - Cut & Jumper

COMPONENTS	NUCLEAR SERVICE CLOSED CYCLE COOLING WATER																													REMARKS
	D	G	F	H	F	H	F	H	F	I	I	I	I	I	I	I	I	S	S	S	S	R	R	R	R	R	R	R	T	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	A	Z	Z	Z	a	b	c	d	e	1	2	3	1	
NS-P-1A	S	X				X																								TRAIN A
NS-P-1B		X				X																								TRAIN C
NS-P-1C		S	X						S	S	S																	S	TRAIN B	
NS-V-32		X			X									X														X		

LEGEND

- X - Component Not Available
- S - Support Not Available
- P - Available - Cable Protected
- M - Available - Manual Operation
- A - Manual Op. Due to Loss of Inst. Air
- D - Design Modification
- RSD - Remote Shut Down
- O - Open Switch or Breaker
- R - Repair
- J - Cut & Jumper

COMPONENTS	NUCLEAR SERVICE RIVER WATER																								REMARKS												
	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B	A B	C B	C B	C B		C B	C B	C B	C B	C B	C B	C B	C B	C B	C B	C B	
NR-P-1A																					X	X	X	X		S	S	X	X	X					TRAIN A		
NR-P-1E																					X	X	X				X	X	X						TRAIN C		
NR-P-1C																					X	X	X	X	X		S	RSD	RSD	RSD					TRAIN B		
NR-V1A																					X	X				X		X	X						TRAIN A		
NR-V-1B																					X	X				X	X	X							TRAIN C		
NR-V-1C																					X	X	X	X	X		RSD	RSD	RSD						TRAIN B		
NR-V-3																																				TRAIN X POWER REMOVED	
NR-V-5																																				TRAIN X POWER REMOVED	
NR-V-4A																					X	X	X	X		X	X	X	X						TRAIN A		
NR-V-4B																					X	X	X	X	X		X	X	X							TRAIN B	
NR-V-6																																					TRAIN X POWER REMOVED
NR-V-18																					P	M	M	M			RSD	RSD	RSD							TRAIN X	
NR-V-10A																																					TRAIN X POWER REMOVED
NR-V-10E																																					TRAIN X POWER REMOVED
NR-V-15A																																					TRAIN X
NR-V-15E																																					TRAIN X
NR-V-19																																					TRAIN X

LEGEND
 X - Component Not Available
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 P - Available - Cable Protected
 M - Available - Manual Operation
 A - Manual Op. Due to Loss of Inst. Air
 D - Design Modification
 RSD - Remote Shut Down
 O - Open Switch or Breaker
 R - Repair
 J - Cut & Jumper

COMPONENTS	NUCLEAR SERVICE RIVER WATER																													REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	I	S	S	S	S	R	R	R	R	R	R	T	
	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	B	P	P	P	P	H	F	F	F	F	F	F	
	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		
NR-P-1A	S	X					X																							
NR-P-1B		X				X													X	X										X
NR-P-1C	S	P	X			X			S	S	S							RSD	X									S		
NR-V-1A		X				X												X	P											
NR-V-1B		X				X												X										X		
NR-V-1C		P	X			X												P	X											
NR-V-3																														
NR-V-5																														
NR-V-4A		X					X																							
NR-V-4B		X	X			X																								
NR-V-6																														
NR-V-18		M					P																							
NR-V-10A																														
NR-V-10B																														
NR-V-15A							M	M																						

APPENDIX R EVALUATION REPORT - THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5N
 Sheet 1a

COMPONENTS	NUCLEAR SERVICE RIVER WATER																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	1	2	1	2	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1
DC-P-1A	S						X	X		R																				TRAIN A
DC-P-1B	S								X	R																				TRAIN B
DC-V-2A (NOTE 1)	X																													ELECTRO-PNEUMATIC
DC-V-2B (NOTE 1)	X						M	M																				M	M	ELECTRO-PNEUMATIC
DC-V-65A (NOTE 1)	X																													ELECTRO-PNEUMATIC
DC-V-65B	X						M	M																				M	M	ELECTRO-PNEUMATIC

LEGEND

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- A - Manual Op. Due to Loss of Inst. Air
- D - Design Modification
- RSD - Remote Shut Down
- O - Open Switch or Breaker
- R - Repair
- J - Cut & Jumper

NOTE 1: Manual operation (throttling) for cold shut-down not shown. Manual action indicated is to correct spurious valve operation for the available DHCC water system train due to hot short on power circuit to valve solenoid.

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5N
SHEET 1b

COMPONENTS	DECAY HEAT CLOSED CYCLE COOLING WATER																												REMARKS	
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	R	T	T	T	T		
	G	H	H	H	H	H	B	B	B	B	B	B	B	S	S	S	S	S	B	B	B	B	B	B	B	F	F	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	F	F	A	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	F	F	F	F	F	F	F	F	F	F	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	2	3	1			
DC-P-1A	S	X				X													S										TRAIN A	
DC-P-1B	S	X				X			S	S	S							S									S		TRAIN B	
DC-V-2A (NOTE 1)																													ELECTRO-PNEUMATIC	
DC-V-2B (NOTE 1)		M																											ELECTRO-PNEUMATIC	
DC-V-65A (NOTE 1)		M																											ELECTRO-PNEUMATIC	
DC-V-65B (NOTE 1)		M																											ELECTRO-PNEUMATIC	

LEGEND

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Note 1: Manual operation (throttling) for cold shutdown not shown. Manual action indicated is to correct spurious valve operation for the available DHCC water system train due to hot short on power circuit to valve solenoid.

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-50
 SHEET 1b

COMPONENTS	DECAY HEAT RIVER WATER																								REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	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	
																		a	b	c	d	e			
DR-P-1A	S	X				X											2	1	2	3					
DR-P-1B	S	P	X		X				S	S	S												S		
DR-V-1A	S	X				X																			
DR-V-1B	S	P	X		X				S	S	S						M	X					S		

LEGEND

X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP. DUE TO LOSS OF INST. AIR	J - CUT & JUMPER

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 T3-5A 2

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5P
 SHEET 1a

COMPONENTS	INSTRUMENTATION AND CONTROLS																								REMARKS																				
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
NI-11	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
NI-12 REACTIVITY	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
RC4A-TE1																								S		X	S	X																	
RC4A-TE4																								S		S	S	X																	
RC4B-TE1 RC OUTLET TEMP.																								S		X	S	S																	
RC4B-TE4																								S		S	S																		
TE-958																								S	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TE-960																								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RC5A-TE2																								S		X	S	S																	
RC5A-TE4																								S		S	S																		
RC5B-TE2 RC INLET TEMP.																								S		X	S	S	X																
RC5B-TE4																								S		S	X																		
TE-959																								S	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
TE-961																								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
RC3A-PT3																								S	X	P	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PT-963 RC PRESSURE																								S	X	-	X	X	-	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PT-949																								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

LEGEND
 X - COMPONENT NOT AVAILABLE
 S - SUPPORT NOT AVAILABLE
 P - AVAILABLE-CABLE PROTECTED
 M - AVAILABLE-MANUAL OPERATION
 A - MANUAL OP. DUE TO LOSS OF INST. AIR
 D - DESIGN MODIFICATION
 RSD - REMOTE SHUT DOWN
 O - OPEN SWITCH OR BREAKER
 R - REPAIR
 J - CUT & JUMPER

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5P
 SHEET 2a

COMPONENTS	INSTRUMENTATION AND CONTROLS																								REMARKS
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z		
	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1		
				a	b	c																			
RC1-LT1																								TRAIN X	
RC1-LT3																								TRAIN X	
LT-777 RC LEVEL																								TRAIN B-CONT. RM. & RSD	
RC2-TE1																								TRAIN X	
RC2-TE2																								TRAIN B	
LT-775 SG-A LEVEL																								TRAIN A-CONT. RM. & RSD	
LT-789																								TRAIN B-CONT. RM. & RSD	
LT-788 SG-B LEVEL																								TRAIN A-CONT. RM. & RSD	
LT-776																								TRAIN B-CONT. RM. & RSD	
SP6A-PT1																								TRAIN X-ALSO FOR MS-V-3D,E,F	
SP6A-PT2 SG-A PRESSURE																								TRAIN X-ALSO FOR MS-V-3D,E,F	
PT-950																								TRAIN A - CONT RM. & RSD	
PT-1180																								TRAIN B	
SP6B-PT1																								TRAIN X-ALSO FOR MS-V-3A,B,C	
SP6B-PT2 SG-B PRESSURE																								TRAIN X-ALSO FOR MS-V-3A,B,C	
PT-951																								TRAIN B-CONT RM. & RSD	
PT-1184																								TRAIN A	

LEGEND

- X - COMPONENT NOT AVAILABLE
- S - SUPPORT NOT AVAILABLE
- P - AVAILABLE-CABLE PROTECTED
- M - AVAILABLE-MANUAL OPERATION
- A - MANUAL OP. DUE TO LOSS OF INST. AIR
- D - DESIGN MODIFICATION
- RSD - REMOTE SHUT DOWN
- O - OPEN SWITCH OR BREAKER
- R - REPAIR
- J - CUT & JUMPER

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5P
 SHEET 3a

COMPONENTS	INSTRUMENTATION AND CONTROLS																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
DPT-802 DH FLOW	X																													
DPT-803	X																													
DH2-TE1 DH OUTLET TEMPERATURE	X																													
DH2-TE2	X																													
DH6-TE1 DH INLET TEMPERATURE	X																													
DH6-TE2	X																													
LI-1004 LOCAL-COND TANK A LEVEL																														
LI-1005 LOCAL-COND TANK B LEVEL																														
LI-152 LOCAL-DIESEL FUEL TANK LEVEL																														
MU14-LT MAKEUP TANK LEVEL																														
LT-778																														
LT-808																														
LT-809																														
FT-788 EFW FLOW-SG-A																														
FT-779																														
FT-782 EFW FLOW-SG-B																														
FT-791																														

LEGEND	
X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP. DUE TO LOSS OF INST. AIR	J - CUT & JUMPER

Rev. 15

003/002
 T3-5A.5

COMPONENTS	INSTRUMENTATION AND CONTROLS																									REMARKS							
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	I	I	T	C	C	C	C	C	C		C	C	C				
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B	B	B			
F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F					
A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	F	F	F	F	F	F	F	F					
1	2	1	2	2	3	4	5	6	7	8	9	1	1	1	1	1	a	1	2	2	2	2	2	3	3	3	4	5					
		a	b	c				a				0	1	1	1	a		a	b	c	d	e	f	g	a	b	c	d	a	b	a	b	
LT-1044 (1)																							X	X			X	X		HSPS-NO PROTECTION			
LT-1040 (2)																							X				X	X		HSPS-NO PROTECTION			
LT-1045 (3) HI HI LEVEL A																									X					HSPS-NO PROTECTION			
LT-1041 (4)																											X			HSPS-NO PROTECTION			
LT-1046 (1)																									X	X			X	X		HSPS-NO PROTECTION	
LT-1042 (2) LO LO LEVEL A																								X				X	X		HSPS-NO PROTECTION		
LT-1047 (3)																											X				HSPS-NO PROTECTION		
LT-1043 (4)																												X				HSPS-NO PROTECTION	
LT-1052 (1)																									X	X			X	X		HSPS-NO PROTECTION	
LT-1048 (2) HI HI LEVEL B																									X			X	X		HSPS-NO PROTECTION		
LT-1053 (3)																											X				HSPS-NO PROTECTION		
LT-1049 (4)																												X				HSPS-NO PROTECTION	
LT-1054 (1)																										X	X			X	X		HSPS-NO PROTECTION
LT-1050 (2) LO LO LEVEL B																									X			X	X		HSPS-NO PROTECTION		
LT-1055 (3)																												X				HSPS-NO PROTECTION	
LT-1051 (4)																												X				HSPS-NO PROTECTION	
LT-1060 (1) CST A LEVEL																		S			S	X	X				X	X			HSPS-NO PROTECTION		
LT-1061 (2)								X	X											S		X	X				X	X			HSPS-NO PROTECTION		
LT-1062 (1) CST B LEVEL																		S		S	X	X					X	X			HSPS-NO PROTECTION		
LT-1063 (2)						X	X													S	X						X	X			HSPS-NO PROTECTION		

LEGEND

X - COMPONENT NOT AVAILABLE
 S - SUPPORT NOT AVAILABLE
 P - AVAILABLE-CABLE PROTECTED
 M - AVAILABLE-MANUAL OPERATION
 A - MANUAL OP. DUE TO LOSS OF INST. AIR

D - DESIGN MODIFICATION
 RSD - REMOTE SHUT DOWN
 O - OPEN SWITCH OR BREAKER
 R - REPAIR
 J - CUT & JUMPER

003/002
 T3-5A.6

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5P
 SHEET 5a

COMPONENTS	INSTRUMENTATION AND CONTROLS																				REMARKS							
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	C	C		C	C	C	C	C	C	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	I	I	I	I		I	I	I	I	I	I	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	F	F	F	F	F	F	F	F	F	F		
	1	2	1	2	2	2	3	4	5	6	6	7	8	9	1	0	1	1	1	1	1	1	1	1	1	1		
PT-950 (1)																	S	X	P	P	X	X			X	RSD	RSD	
PT-1180 (2) MSRD																										X	X	
PT-1182 (3)																										X		
PT-1181 (4)																										X		
PT-1184 (1)																									X	X		
PT-951 (2)																										X	X	
PT-1185 (3) MSRD																		X	X	X	X	X			RSD	RSD	RSD	
PT-1183 (4)																										X		
PT-1186 (1)									X	X														X	X			
PT-1187 (2) FWRD																									X			
PT-1188 (3)									X	X															X			
PT-1189 (4)									X	X															X			
TE-1046 (1)																								X	X			
TE-1044 (2) TEMP A																									X			
TE-1047 (3)																									X			
TE-1045 (4)																										X		
TE-1050 (1)																								X	X			
TE-1048 (2) TEMP B																									X			
TE-1051 (3)																									X			
TE-1049 (4)																									X			

LEGEND
 X - COMPONENT NOT AVAILABLE D - DESIGN MODIFICATION
 S - SUPPORT NOT AVAILABLE RSD - REMOTE SHUT DOWN
 P - AVAILABLE-CABLE PROTECTED O - OPEN SWITCH OR BREAKER
 M - AVAILABLE-MANUAL OPERATION R - REPAIR
 A - MANUAL OP. DUE TO LOSS OF INST. AIR J - CUT & JUMPER

Rev. 15

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5P
 SHEET 6a

COMPONENTS	INSTRUMENTATION AND CONTROLS																								REMARKS
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	F	F	F	F	F	F	F	F	F		
	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	2	2	2		
			a	b	c				a					0	1	1	a		a	b	c	d	e		
IC9-TE																	S		S	X			X	MANUAL POSITION MU-V-1A/1B	
MU5-TE						X	X	X														X	X	MANUAL POSITION MU-V-3	
MU42-DPT						X	X	X														X	X	MAN. OVERRIDES AUTO FOR MU-V-32	
RC3A-PT1																					X		X		
SP10A-PT1																						X	X		
SP10A-PT2																						X	X		
SP10B-PT1																						X	X		
SP10B-PT2																						X	X		
LS-244A																									
LS-244B																									
RM-L1																	S		X	X	S		X	MANUAL POSITION MU-V-2A/2B	
RC3A-PT3																	S	X	P	X	X	X	X	TRAIN A	
RC3A-PT4 RC LOOP PRES.																					S	S	X	TRAIN B	
RC3B-PT3 (ESAS LOGIC A&B)																	S				S		X	TRAIN C	
PT-282						X	X	X	X					X	X	X	X	X	X	X	X	X	X	TRAIN A	
PT-285 RB PRES. 4 psi						X	X											X	X	X	X	X	S	TRAIN B	
PT 288 (ESAS LOGIC A&B)						X	X										S		S	X	X		X	TRAIN C	

LEGEND

X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP. DUE TO LOSS OF INST. AIR	J - CUT & JUMPER

COMPONENTS	INSTRUMENTATION AND CONTROLS																											REMARKS																																	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	C	C	C	C	C	C		C	C																															
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B	B																														
																											1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	a	1	2	2	2	2	2	2	3	3	3	3	4	4	5	5	
																											F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Z	Z
PS-932									X	X			X							S	S	S	S				X							TRAIN A																											
PS-933 RB PRES. 30 psi									X	X			X							S	S		S	S	S	S	X	S						TRAIN B																											
PS-934 ESAS LOGIC A									X	X			X							S	S		S	S	S	S	X	S						TRAIN C																											
PS-935									X											S		S	S	S				X						TRAIN A																											
PS-936 RB PRES. 30 psi									X												S	S	S	S				X						TRAIN B																											
PS-937 ESAS LOGIC B									X												S	S	S	S				X						TRAIN D																											
LT-802 RBI ON LINE BREAK (LOGIC A)																				S	X		X	X	X	X	X							TRAIN A; ICCW TANK LEVEL ONLY																											
LT-803 RBI ON LINE BREAK (LOGIC B)																					X	X	X	X	X	X								TRAIN B; ICCW TANK LEVEL ONLY																											
PS-283							X	X	X		X									X	X	X				X	X							AUTO FOR BS-P-1A																											
PS-286							X	X	X		X									X	X	X				X	X							AUTO FOR BS-P-1A																											
PS-289							X	X	X		X									X	X	X				X	X							AUTO FOR BS-P-1A																											
PS-284									X	X																X	X								AUTO FOR BS-P-1B																										
PS-287									X	X																X	X								AUTO FOR BS-P-1B																										
PS-290									X	X																X	X								AUTO FOR BS-P-1B																										

LEGEND

- X - COMPONENT NOT AVAILABLE
- S - SUPPORT NOT AVAILABLE
- P - AVAILABLE-CABLE PROTECTED
- M - AVAILABLE-MANUAL OPERATION
- A - MANUAL OP. DUE TO LOSS OF INST. AIR
- D - DESIGN MODIFICATION
- RSD - REMOTE SHUT DOWN
- O - OPEN SWITCH OR BREAKER
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- J - CUT & JUMPER

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5P
 SHEET 8a

COMPONENTS	INSTRUMENTATION AND CONTROLS																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
a	b	c						a					0	1	1	1	a	a	a	a	a	a	a	a	a	a	a	a	a	
04E-TC,07B-TC,09E-TC,13C-TC BACKUP																											X	X	TRAIN A	
05G-TC,08F-TC,08G-TC,12F-TC INCORE																											X	X	TRAIN B	
02L-TC,06L-TC,07M-TC,13H-TC THERMO-																											X	X	TRAIN C	
05O-TC,10M-TC,12O-TC,14M-TC COUPLE																											X	X	TRAIN D	
FT-1126																	S	X									X	X	TRAIN A	
FT-1127 MU FLOW																	S	X								X	X	X	TRAIN A	
FT-1128									X									S	X								X	X	TRAIN B	
FT-1129									X									S	X								X	X	TRAIN B	

Rev. 15

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5P
 SHEET 1b

COMPONENTS	INSTRUMENTATION AND CONTROLS																								REMARKS	
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T		Y
	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	B		B
NI-11			X					P																		TRAIN A (RG 1.97 Reqd.)
NI-12 REACTIVITY			P	X			X	X																		TRAIN B(RG 1.97 Reqd)CONT RM & RSD
RC4A-TE1			P				X															X	X	X		TRAIN X
RC4A-TE4			X																			X	X	X		TRAIN X
RC4B-TE1 RC OUTLET TEMP.			X																			X	X	X		TRAIN X
RC4B-TE4			X																			X	X	X		TRAIN X
TE-958			X				X															X	X	X		TRAIN A-CONT. RM. & RSD
TE-960			X																			P	P			TRAIN B-CONT. RM. & RSD
RC5A-TE2			P																			X	X	X		TRAIN X
RC5A-TE4			P																			X	X	X		TRAIN X
RC5B-TE2 RC INLET TEMP.			X																			X	X			TRAIN X
RC5B-TE4			X				X															X	X			TRAIN X
TE-959			X				X															X	X	X	X	TRAIN A-CONT. RM. & RSD
TE-961			X																			P	P			TRAIN B-CONT. RM. & RSD
RC3A-PT3			P				X															X	X	X		TRAIN A
PT-963 RC PRESSURE			X				X															X	X	X		TRAIN A-RSD ONLY
PT-949			X																			P		P	P	TRAIN B-CONT. RM. & RSD

LEGEND

- X - COMPONENT NOT AVAILABLE
- S - SUPPORT NOT AVAILABLE
- P - AVAILABLE-CABLE PROTECTED
- M - AVAILABLE-MANUAL OPERATION
- A - MANUAL OP. DUE TO LOSS OF INST. AIR
- D - DESIGN MODIFICATION
- RSD- REMOTE SHUT DOWN
- O - OPEN SWITCH OR BREAKER
- R - REPAIR
- J - CUT & JUMPER
- - ONE OR OTHER IS AVAILABLE

Rev. 18

COMPONENTS	INSTRUMENTATION AND CONTROLS																								REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	Y	
	G	H	H	H	H	H	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
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	Z	A	D
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	2	1	2	3	a	b	c	d	e
RC1-LT1			X																		X	X			
RC1-LT3			P																		P	P			
LT-777 RC LEVEL			X			S														X	X	X			
RC2-TE1			X																		X	X	X	X	
RC2-TE2			P			X															P	X	P		
LT-775 SG-A LEVEL			P				P													P	P	P		P	
LT-789			X																		X	X			
LT-788 SG-B LEVEL			X				X														X				
LT-776			P																		P				
SP6A-PT1			P																		X	X	X		
SP6A-PT2 SG-A PRESSURE			P																		X	X	X		
PT-950			P			D	P														P		P		
PT-1180			X			X															X	X	X		
SP6B-PT1			P																		X		X		
SP6B-PT2 SG-B PRESSURE			P																		X		X		
PT-951			P			D															P		P		
PT-1184			X			X	X														X		X		

LEGEND

X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP. DUE TO LOSS OF INST. AIR	J - CUT & JUMPER

Rev. 18

COMPONENTS	INSTRUMENTATION AND CONTROLS																								REMARKS	
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	Y		
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B		A
DPT-802			X				X																			TRAIN A(RG 1.97 REQD)CONT RM & RSD
DPT-803			X																							TRAIN B(RG 1.97 REQD)CONT RM & RSD
DH2-TE1 DH OUTLET TEMPERATURE			X			X	X																			TRAIN A CONT RM & RSD
DH2-TE2			X	X																						TRAIN B CONT RM & RSD
DH6-TE1 DH INLET TEMPERATURE			X			X	X																			TRAIN A CONT RM & RSD
DH6-TE2			X	X		X																				TRAIN B CONT RM & RSD
LI-1004 LOCAL-COND TANK A LEVEL																										LOCAL INDICATION
LI-1005 LOCAL-COND TANK B LEVEL																										LOCAL INDICATION
LI-152 LOCAL-DIESEL FUEL TANK LEVEL																										LOCAL INDICATION
MU14-LT MAKEUP TANK LEVEL			X	X		X																				TRAIN X
LT-778			X																							TRAIN B CONT RM & RSD
LT-808			X			X																		X		TRAIN A(RG 1.97 REQD)CONT RM & RSD
LT-809			P																					X		TRAIN B(RG 1.97 REQD)CONT RM & RSD
FT-788 EFW FLOW-SG-A			X					X				X														TRAIN B CONT RM & RSD
FT-779			X			X		X				X														TRAIN C CONT RM & RSD
FT-782 EFW FLOW-SG-B			X					X				X														TRAIN B CONT RM & RSD
FT-791			X			X		X				X														TRAIN C CONT RM & RSD

LEGEND

X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP. DUE TO LOSS OF INST. AIR	J - CUT AND JUMPER

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5P
 SHEET 4b

COMPONENTS	INSTRUMENTATION AND CONTROLS																								REMARKS	
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	T		Y
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	S	S	S	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	F	F	F	F	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	F	F	F	F	1	1	1	2	3	
																	2	1	2	3	a	b	c	d	e	
LT-1044 (1)			X				X	X													X	X				
LT-1040 (2) HI HI LEVEL A			X				X														X	X				
LT-1045 (3)			X				X														X	X				
LT-1041 (4)			X				X														X	X				
LT-1046 (1)			X				X	X													X	X				
LT-1042 (2) LO LO LEVEL A			X				X														X	X				
LT-1047 (3)			X				X														X	X				
LT-1043 (4)			X				X														X	X				
LT-1052 (1)			X				X	X													X					
LT-1048 (2) HI HI LEVEL B			X				X														X					
LT-1053 (3)			X				X														X	X				
LT-1049 (4)			X				X														X					
LT-1054 (1)			X				X	X													X					
LT-1050 (2) LO LO LEVEL B			X				X														X					
LT-1055 (3)			X				X														X	X				
LT-1051 (4)			X				X														X					
LT-1060 (1) CST A LEVEL			X				X	X			X	X			X											
LT-1061 (2)			X				X				X				X											
LT-1062 (1) CST B LEVEL			X				X	X			X	X			X											
LT-1063 (2)			X				X				X				X											

LEGEND

X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP. DUE TO LOSS OF INST. AIR	J - CUT AND JUMPER

Rev. 18

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5P
 SHEET 5b

COMPONENTS	INSTRUMENTATION AND CONTROLS																										REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	Y			
	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	B	A	R		
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	Z	Z	A		
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	2	1	2	3	1	1	1	1	2	3	1
PT-950 (1)			P				D																				
PT-1180 (2) MSRD		X				X												X	X					X			
PT-1182 (3)		X				X					X			X	X												
PT-1181 (4)		X				X					X			X	X												
PT-1184 (1)		X				X	X																				
PT-951 (2)		P				D																					
PT-1185 (3) MSRD		X				X					X			X	X												
PT-1183 (4)		X				X				X				X	X												
PT-1186 (1)		X	X			X	X																				
PT-1187 (2) FWRD		X	X			X																					
PT-1188 (3)		X				X																					
PT-1189 (4)		X				X																					
TE-1046 (1)		X				X	X															X	X	X	X	X	
TE-1044 (2) TEMP A		X				X																X	X	X	X	X	
TE-1047 (3)		X				X																X	X	X	X	X	
TE-1045 (4)		X				X																X	X	X	X	X	
TE-1050 (1)		X				X	X															X	X	X	X	X	
TE-1048 (2) TEMP B		X				X																X	X	X	X	X	
TE-1051 (3)		X				X																X	X	X	X	X	
TE-1049 (4)		X				X																X	X	X	X	X	

LEGEND

X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP DUE TO LOSS OF INST. AIR	J - CUT AND JUMPER

Rev. 18

COMPONENTS	INSTRUMENTATION AND CONTROLS																												REMARKS					
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	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	B	B	S	S	S	S	S	S	S	B	B	B	B		B	B	B	A	R
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
	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													
IC9-TE			X					X																										
MU5-TE			X	X			X																											
MU42-DPT			X	X			X																											
RC3A-PT1			P					X																X	X	X								
SP10A-PT1																																		X
SP10A-PT2																																		X
SP10B-PT1																																		X
SP10B-PT2																																		X
LS-244A	X																																	
LS-244B		X																																
RM-L1			X	X			X																											
RC3A-PT3			P					X																X	X	X								
RC3A-PT4 RC LOOP PRESSURE			X																					X	X	X								
RC3B-PT3ESAS LOGIC A&B)			X																															
PT-282			X				X	X				X	X	X	X																			
PT-285 RB PRESSURE 4ps1			X	X			X																											
PT 288 (ESAS LOGIC A&B)			X				X																											X

LEGEND

X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP. DUE TO LOSS OF INST. AIR	J - CUT AND JUMPER

Rev 18

COMPONENTS	INSTRUMENTATION AND CONTROLS																												REMARKS
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	R	T	Y	
	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	B	B	A	
	F	F	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	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	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	2	3	1		
																	2	1	2	3									
PS-932			X	X			X																					TRAIN A	
PS-933 RB PRESSURE 30 psi			X	X			X																					TRAIN B	
PS-934 ESAS LOGIC A			X	X			X																					TRAIN C	
PS-935				X			X																					TRAIN A	
PS-936 RB PRESSURE 30 psi				X			X																					TRAIN B	
PS-937 ESAS LOGIC B				X			X																					TRAIN D	
LT-802 RBI ON LINE BREAK (LOGIC A)			X		X			X																				TRAIN A; ICCW TANK LEVEL ONLY	
LT-803 RBI ON LINE BREAK (LOGIC B)			X		X																							TRAIN B; ICCW TANK LEVEL ONLY	
PS-283			X					X																				AUTO FOR BS-P-1A	
PS-286			X					X																				AUTO FOR BS-P-1A	
PS-289			X					X																				AUTO FOR BS-P-1A	
PS-284			X	X				X																				AUTO FOR BS-P-1B	
PS-287			X	X				X																				AUTO FOR BS-P-1B	
PS-290			X	X				X																				AUTO FOR BS-P-1B	

LEGEND

X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP. DUE TO LOSS OF INST. AIR	J - CUT AND JUMPER

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5P
 SHEET 8b

COMPONENTS	INSTRUMENTATION AND CONTROLS																												REMARKS			
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	Y							
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	B	B	B	B	B		B	A	R
F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	A	Z	Z	Z	1	1	1	1	2	3	1						
04E-TC, 07B-TC, 09E-TC, 13C-TC Backup			X	X		X																									TRAIN A	
05G-TC, 08F-TC, 09G-TC, 12F-TC Incore			X	X		X																									TRAIN B	
02L-TC, 06L-TC, 07M-TC, 13H-TC Thermo-			X	X		X																									TRAIN C	
05O-TC, 10M-TC, 12O-TC, 14M-TC couple			X	X		X																									TRAIN D	
FT-1126			X				X																								TRAIN A	
FT-1127 MU FLOW			X				X																								TRAIN A	
FT-1128			X	X																											TRAIN B	
FT-1129			X	X																											TRAIN B	

Rev 18

COMPONENTS	AUXILIARY ELECTRICAL POWER SYSTEM																							REMARKS
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	C	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	F	F	
	1	2	1	2	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	2	2	2	
	a	b	c						a				0	1	1	1	1	a	a	b	c	d	e	
ED-SGES-1D																		X	X		X	S	X	
ED-SGES-1E																		P	X	T	X	S	X	
EG-Y-1A(DIESEL GENERATOR A)																		X	P	X	X	S	X	
EG-Y-1B(DIESEL GENERATOR B)																		P	X		S	S	P	
EE-SGES-1P(480V SWGR 1P)																		X	X	P	X	S	X	
EE-SGES-1S(480V SWGR 1S)																		P	X	S	X	P	X	
EE-SGESSH-1R(480V SWGR 1R)																	X	X	X		X	S	X	
EE-SGESSH-1T(480V SWGR 1T)																		X	X	X	X	P	X	
EG-CCES-1A(1A-ES-CONT. CENTER)																		X	X		X	S	S	
EG-CCES-1B(1B-ES-CONT. CENTER)																		X	S	X	P	X	S	
EG-CCES-1B-XT-RSP-B																		X						
EG-CCESV-1A							X	X										X	X		S	S	S	
EG-CCESV-1B								X	X									P	X	S	S	S	RSD	
EG-SEC-1C(1C-ESV MCC TRANSFER SW)																		X	P	X			RSD	
EG-CCESV-1C																		P	X	X	S	S		
EG-CCESV-1A																		X	X	X	S	S	X	
EG-CCESV-1B																		X	X	X	X	P	X	
EG-DP-ATA(NNI & ICS PNL ATA)																		X		X	X	S		
EG-DP-ATB																		X		X	X	S		
EG-DP-VBA																		X		X	X	S		

LEGEND
 X - COMPONENT NOT AVAILABLE D - DESIGN MODIFICATION
 S - SUPPORT NOT AVAILABLE RSD - REMOTE SHUT DOWN
 P - AVAILABLE-CABLE PROTECTED O - OPEN SWITCH OR BREAKER
 M - AVAILABLE-MANUAL OPERATION R - REPAIR
 T - TRIP SWGR. TO CORRECT HPI J - CUT AND JUMPER
 A - MANUAL OPERATION DUE TO LOSS OF INST. AIR

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5Q
 SHEET 2a

COMPONENTS	AUXILIARY ELECTRICAL POWER SYSTEM																				REMARKS
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	C	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	F	F	A	A	A	
	1	2	1	2	2	3	4	5	6	7	8	9	1	1	1	1	1	2	2	2	
			a	b	c				a				0	1	1	a	a	b	c	d	
EG-DP-VBB																			X	S	
EG-DP-VBC																			X	S	
EG-DP-VBD																			X	S	
EH-INV-1A																			X	S	
EH-INV-1B																			X	S	
EH-INV-1C																			X	S	
EH-INV-1D																			X	S	
EH-INV-1E																			X	S	
EH-BC-1A(BATTERY CHARGER 1A)																			X	S	
EH-BC-1B																			X	S	
EH-BC-1C																			X	S	
EH-BC-1D																			X	S	
EH-DP-1A(DC MAIN PNL)																			X	S	
EH-DP-1B																			X	S	
EH-DP-1M																			X	S	
EH-DPES-1E(DC ES DIST PNL 1E)																			X	S	
EH-DPES-1F																			X	S	
EH-DPESDG-1P																			X	S	
EH-DPESDG-1Q																			X	S	

LEGEND

X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP. DUE TO LOSS OF INST. AIR	J - CUT AND JUMPER

Rev. 15

003/002
 T3-5A.20

COMPONENTS	AUXILIARY ELECTRICAL POWER SYSTEM																										REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	I	I	C	C	C	C	C	C	C		C
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	T	T	B	B	B	B	B	B	B		B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	F	A	A	A	A	A	A	A	A	
	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	a							3	3	3	
			a	b	c				a					0	1	1				1	2	2	2	2	3	3	c	
NMI/ICS																											X	TRAIN X
EG-SEC-NMI/ICS																												Train X
RS-SCC-A																											X	TRAIN A
RS-SCC-B (Note 1)																												TRAIN B
RS-PA																											X	TRAIN A; RSD
RS-PB																												TRAIN B; RSD
RS-TSP-A																										X	RSD	TRAIN A, X; RSD
RS-TSP-B																										RSD	RSD	TRAIN B, C, X; RSD
RS-TSP-C																										RSD	RSD	TRAIN C; RSD
ESAS BISTABLE CABINETS																										X	X	
ESAS RELAY CABINETS "A"																										X	X	
ESAS RELAY CABINETS "B"																										X	X	
EMER.CONT.RM.LIGHTING(AC)																										S	S	TRAIN A: EG-DP-CT2 (UPPER)
NORM.CONT.RM.LIGHTING(AC)																										S	X	TRAIN B: EG-DP-CT2 (LOWER)
EMER.CONT.RM.LIGHTING(DC)																											X	TRAIN C: EH-DP-1M

NOTE 1: Signal conditioning cabinet B3 is not available in CB-FA-2b.

LEGEND

- | | |
|---|----------------------------|
| X - COMPONENT NOT AVAILABLE | D - DESIGN MODIFICATION |
| S - SUPPORT NOT AVAILABLE | RSD - REMOTE SHUT DOWN |
| P - AVAILABLE-CABLE PROTECTED | O - OPEN SWITCH OR BREAKER |
| M - AVAILABLE-MANUAL OPERATION | R - REPAIR |
| B - USE "ES" BYPASS IN CTL. ROOM | J - CUT AND JUMPER |
| A - MANUAL OP. DUE TO LOSS OF INST. AIR | |

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5Q
 SHEET 1b

COMPONENTS	AUXILIARY ELECTRICAL POWER SYSTEM																								REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	Y	
	G	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	A	A	
ED-SGES-1D	X																								TRAIN A
ED-SGES-1E		X							S	S	S												S		TRAIN B
EG-Y-1A(DIESEL GENERATOR A)	X																								TRAIN A
EG-Y-1B(DIESEL GENERATOR B)		X							X	X	X												X		TRAIN B
EE-SGES-1P(480V SWGR 1P)	S																								TRAIN A
EE-SGES-1S(480V SWGR 1S)		S							S	S	S												S		TRAIN B
EE-SGESSH-1R(480V SWGR 1R)	S		X				X								X	P									TRAIN A
EE-SGESSH-1T(480V SWGR 1T)	S		P	X			X		S	S	S				P	X							S		TRAIN B
EG-CCES-1A(1A-ES-CONT. CENTER)	S								S	S	S												S		TRAIN A
EG-CCES-1B(1B-ES-CONT. CENTER)		S							S	S	S												S		TRAIN B
EG-CCES-1B-XT-RSP-B																									TRAIN B
EG-CCEVS-1A	S		X				X																		TRAIN A
EG-CCEVS-1B		S		X					S	S	S												S		TRAIN B
EG-SEC-1C(1C-ESV MCC TRANSFER SW)																									TRAIN C
EG-CCESV-1C			X				P																		TRAIN C
EG-CCESSH-1A	S		X				X								X	P									TRAIN A
EG-CCESSH-1B		S		P	X		X		S	S	S				P	X							S		TRAIN B
EG-DP-ATA(NNI & ICS PNL ATA)																									TRAIN X
EG-DP-ATB																									TRAIN X
EG-DP-VBA																									TRAIN A

LEGEND

X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
T - TRIP SWGR. TO CORRECT HPI	J - CUT AND JUMPER
A - MANUAL OP. DUE TO LOSS OF INST. AIR	

Rev. 18

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5Q
 SHEET 2b

COMPONENTS	AUXILIARY ELECTRICAL POWER SYSTEM																								REMARKS	
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	T		Y
	G	H	H	H	H	H	H	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	F	F	F	F	F	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	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	2	3	
EG-DP-VBB																										
EG-DP-VBC																										
EG-DP-VBD																										
EH-INV-1A																										
EH-INV-1B																										
EH-INV-1C																										
EH-INV-1D																										
EH-INV-1E																										
EH-BC-1A(BATTERY CHARGER 1A)																										
EH-BC-1B																										
EH-BC-1C																										
EH-BC-1D																										
EH-DP-1A(DC MAIN PNL)																										
EH-DP-1B																										
EH-DP-1M																										
EH-DPES-1E(DC ES DIST PNL 1E)																										
EH-DPES-1F																										
EH-DPESDG-1P		X																								
EH-DPESDG-1Q		X																								

LEGEND	
X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP. DUE TO LOSS OF INST. AIR	J - CUT AND JUMPER

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AUXILIARY ELECTRICAL POWER SYSTEM																										REMARKS
COMPONENTS	D	D	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	T	Y	
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B	B	B	A	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	H	H	H	F	Z	Z	Z	Z	Z	A	D
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	A	Z	Z	1	1	1	2	3	1	
NNI/ICS																										TRAIN X
EG-SEC-NNI/ICS																										TRAIN X
RS-SCC-A																										TRAIN A
RS-SCC-B																										TRAIN B
RS-PA																										TRAIN A; RSD
RS-PB																										TRAIN B; RSD
RS-TSP-A																										TRAIN A, X; RSD
RS-TSP-B																										TRAIN B, C, X; RSD
RS-TSP-C																										TRAIN C; RSD
ESAS BISTABLE CABINETS																										
ESAS RELAY CABINETS "A"																										
ESAS RELAY CABINETS "B"																										
EMER. CONT. RM. LIGHTING (AC)	S			X			X																			TRAIN A: EG-DP-CT2 (UPPER)
NORM. CONT. RM. LIGHTING (AC)		S								S	S	S												S		TRAIN B: EG-DP-CT2 (LOWER)
EMER. CONT. RM. LIGHTING (DC)							X																			TRAIN C: EH-DP-1M

LEGEND	
X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
B - USE "ES" BYPASS IN CTL. ROOM	J - CUT AND JUMPER
A - MANUAL OP. DUE TO LOSS OF INST. AIR	

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
COMPONENT AVAILABILITY FOR A FIRE IN FIRE AREA/ZONE

ATTACHMENT 3-5R
SHEET 1a

COMPONENTS	INSTRUMENT AIR																											REMARKS				
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	I	I	I	C	C	C	C	C	C	C	C	C		C	C		
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	T	T	T	B	B	B	B	B	B	B	B		B	B	B	
F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	Z	Z	Z	F	F	F	F	F	F	F	F	F	F	F	F		
A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	Z	Z	Z	F	F	F	F	F	F	F	F	F	F	F	F		
1	2	1	2	2	3	4	5	6	7	8	9	1	1	1	1	a	a	a	1	2	2	2	2	2	3	3	3	4	4	5	5	
IA-P-1A																				X	X						S	X	X			
IA-P-1B																				X	X	X	X	X	X	X	X		RSD	RSD		
INST. AIR LINE (COPPER)	X	X					X	X	X	X	X	X	X	X					X										RSD	RSD		
2 HOUR BACKUP SYSTEM																																
AFFECTED SOLENOID VALVES																																
DC-V-2A/2B																																
DC-V-65A/65B																																
MU-V-20 (W/AIR BOTTLE)																																
MU-V-3																																
MU-V-4																																
MU-V-5																																
MU-V-6A/6B																																
MU-V-11A/11B																																
MU-V-17																																
MU-V-18																																
MU-V-32																																
IC-V-3 (W/AIR BOTTLE)																																
IC-V-4 (W/AIR BOTTLE)																																
FW-V-17A/17B/16A/16B																																
EF-V-30A/30B/30C/30D (2 Hr. Backup Air)																																
MS-V-3A/3B/3C/3D/3E/3F																																
MS-V-4A/4B (2 Hr Backup Air)																																
MS-V-6/13A/13B																																
WDL-V-1,2,3,4,5																																

LEGEND

X - COMPONENT NOT AVAILABLE	D - DESIGN MODIFICATION
S - SUPPORT NOT AVAILABLE	RSD - REMOTE SHUT DOWN
P - AVAILABLE-CABLE PROTECTED	O - OPEN SWITCH OR BREAKER
M - AVAILABLE-MANUAL OPERATION	R - REPAIR
A - MANUAL OP. DUE TO LOSS OF INST. AIR	J - CUT AND JUMPER

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COMPONENTS	INSTRUMENT AIR																								REMARKS
	D	G	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T		
	G	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	A		
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	F	F	F	F	1	1	1		
																	2	1	2	3	a	b	c		
IA-P-1A	S								X		X	X											X		
IA-P-1B	S							X	X	S	X												X		
INSTRUMENT AIR LINE (COPPER)		X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X				X		
2 HOUR BACKUP SYSTEM	X							X	X																
AFFECTED SOLENOID VALVES																									
DC-V-2A/2B																							FO ON LOSS OF AIR		
DC-V-65A/65B																							FC ON LOSS OF AIR		
MU-V-20 (W/AIR BOTTLE)																							FC ON LOSS OF AIR		
MU-V-3																							FC ON LOSS OF AIR		
MU-V-4																							FC ON LOSS OF AIR		
MU-V-5																							FC ON LOSS OF AIR		
MU-V-6A/6B																							FC ON LOSS OF AIR		
MU-V-11A/11B																							FC ON LOSS OF AIR		
MU-V-17																							FC ON LOSS OF AIR		
MU-V-18																							FC ON LOSS OF AIR		
MU-V-32																							FO ON LOSS OF AIR		
IC-V-3 (W/AIR BOTTLE)																							FC ON LOSS OF AIR		
IC-V-4 (W/AIR BOTTLE)																							FC ON LOSS OF AIR		
FW-V-17A/17B/16A/16B																							FAIL AS IS		
EF-V-30A/30B/30C/30D (2 Hr. Backup Air)																							FC ON LOSS OF AIR		
MS-V-3A/3B/3C/3D/3E/3F (2 Hr. Backup Air)																							FC ON LOSS OF AIR		
MS-V-4A/4B (2 Hr. Backup Air)																							FC ON LOSS OF AIR		
MS-V-6/13A/13B																							FO ON LOSS OF AIR		
WDL-V-1, 2, 3, 4, 5, 6																							FC ON LOSS OF AIR		

LEGEND

- X - COMPONENT NOT AVAILABLE
- S - SUPPORT NOT AVAILABLE
- P - AVAILABLE-CABLE PROTECTED
- M - AVAILABLE-MANUAL OPERATION
- A - MANUAL OP. DUE TO LOSS OF INST. AIR
- D - DESIGN MODIFICATION
- RSD - REMOTE SHUT DOWN
- O - OPEN SWITCH OR BREAKER
- R - REPAIR
- J - CUT AND JUMPER

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6A
 SHEET 1a

COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
				a	b	c			a																					
MU-P-1A				E																										
MD7 (PWR)				X															X	X										
MD65A (CONT)																														
MD66 (CONT/IND)																														
MD68 (CONT)																			X	P										
RK950 (CONT)				X			X												X	X										
RK951 (CONT)																			X			X								
MU-P-1B				E																										
MD8 (PWR)				X			X												X	X										
MD68 (CONT)																			X	P										
MD71 (CONT/IND)																														
MD73A (CONT)																														
ME8 (PWR)																			X	X										
ME68 (CONT)																														
ME71 (CONT/IND)																														
ME73A (CONT)																														
ME51 (CONT)																			X	X										
ME52 (CONT)																			X	X										
ME53 (CONT)																			X	X										
ME54 (CONT)																			X											
RK956 (CONT)				X			X																							
RK957 (CONT)																			X	X										

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003/002
 T3-6.1

COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																												REMARKS		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B
MU-P-2B	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
CQ210 (PWR)				X	X		X	X	X																						NEW
CQ215 (CONT)				X	X		X	X	X																						NEW
CQ212 (CONT)							X		X										X	X								X	X		EXISTING SPARE CABLE
CQ214 (CONT)																												X	X		NEW
MU-P-3B				E																											
CR210 (PWR)				X				X	X																						NEW
CR212 (CONT)								X	X																						EXISTING SPARE CIRCUIT
CR216 (CONT)															X	X															NEW; REQUIRED ONLY FOR RSD
CR215 (CONT)															X	X	X										X	X			NEW; ISOLATED FOR RSD
CR214 (CONT)																											X	X			ISOLATED FOR RSD
MU-P-2C				E																											
CR650 (CONT)				X				X	X																						
CR651 (CONT)								X	X										X	X							X	X			
CR652 (PWR)				X				X	X																						
MU-P-3C				E																											
CH11 (PWR)															X	X															
CH11A (PWR)							X	X																							NEW
CH201 (CONT)																															ROUTED BY RSD
CH201A (CONT)															X				X	P	X										NEW
CH201B (CONT)																												X	X		FORMERLY PART OF CH201; ISOLATED FOR RSD
CH204 (CONT)															X	X															NEW; REQUIRED ONLY FOR RSD

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COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																												REMARKS		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B
MU-V-12	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
CP55 (PWR)																															
CP621 (CONT)																															
CP622 (CONT)																															
MU-V-14A																															
CG102 (PWR)																															MANUAL
CG801 (CONT)																															NEW
CG802 (CONT)																															NEW
CG803 (CONT)																															NEW; ISOLATED FOR RSD
CG804 (CONT)																															NEW; REQUIRED ONLY FOR RSD
CG805 (CONT)																															NEW; ISOLATED FOR RSD
MU-V-14B																															
CR14 (PWR)																															MANUAL
CR301 (CONT)																															
CR302 (CONT)																															REROUTED BY RSD
CR302A (CONT)																															NEW
CR302B (CONT)																															NEW
CR302C (CONT)																															NEW
CR302D (CONT)																															FORMERLY PART OF CR302; ISOLATED FOR RSD
CR304 (CONT)																															NEW; REQUIRED ONLY FOR RSD
CR305 (CONT)																															ISOLATED FOR RSD; CR303 WAS SPARED
CR306 (CONT)																															NEW; REQUIRED ONLY FOR RSD
CR336 (CONT)																															NEW; REQUIRED ONLY FOR RSD

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COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																									REMARKS
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	
MU-V-16A								E																		
CQ15 (PWR)								X	X																	
CQ311 (CONT)								D	D																	
CQ312 (CONT)																	X	X					X		X	
CQ312A (CONT)								P	X																	
CQ312B (CONT)								P	X																	
CQ313 (CONT)																	X	P	X				X	X	X	
MU-V-16B								E																		
CQ16 (PWR)								X	X																	
CQ321 (CONT)								D	D																	
CQ322 (CONT)																	X	X					X		X	
CQ322A (CONT)								P	X																	
CQ322B (CONT)								P	X																	
CQ323 (CONT)																	X	P	X				X	X	X	
MU-V-16C								E																		
CR15 (PWR)								X	X	X																
CR311 (CONT)								X	X																	
CR311A (CONT)								X																		
CR311B (CONT)								X																		
CR311C (CONT)								X																		
CR312 (CONT)								X	X																	
CR312A (CONT)								X																		
CR312B (CONT)								X																		
CR312C (CONT)																	X	X								
CR312D (CONT)																	X		X	P	X					

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6A
 SHEET 6a

COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	a	b	c						a					0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
MU-V-16C (Continued)																														
CR312E (CONT)																														
CR313 (CONT)																														
CR314 (CONT)																														
CR315 (CONT)																														
MU-V-16D																														
CR16 (PWR)																														
CR321 (CONT)																														
CR321A (CONT)																														
CR321B (CONT)																														
CR321C (CONT)																														
CR322 (CONT)																														
CR322A (CONT)																														
CR322B (CONT)																														
CR322C (CONT)																														
CR322D (CONT)																														
CR322E (CONT)																														
CR323 (CONT)																														

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6A
SHEET 7a

COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																	REMARKS							
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	C		C	C	C	C	C	C	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	I	I	I		I	I	I	I	I	I	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	F	A	A	A	A	A	A	A		
	1	2	1	2	2	3	4	5	6	7	8	9	1	1	1	1	1	2	2	2	2	2	3		
			a	b	c				a						a	b	c	d	e	f	g	a	b		
CR324 (CONT)																				X	X				NEW; ISOLATED FOR RSD
CR325 (CONT)																				X	X				NEW, REQUIRED ONLY FOR RSD
MU-V-17					E																				
RE58 (INST)																						X	X		
RE58A (INST)					X																				NEW
RE160 (INST)																							X	X	
MU-V-18					E																				
RV323 (CONT)																		X	X						NEW; REQUIRED ONLY FOR RSD
RV324 (CONT)						X									X	X									NEW
RV325 (CONT)															X							X	X		NEW; ISOLATED FOR RSD
RV326 (CONT)																							X	X	ISOLATED FOR RSD
RV327 (CONT)																						X	X		ISOLATED FOR RSD
RV331 (CONT)						X																			
RV332 (CONT)						X																			
RV342 (CONT)																						X	X		ISOLATED FOR RSD
ED1705 (PWR)																X	X								
MU-V-217					E																				
CT305 (PWR)					X		X																		
CT306 (CONT)					D	D																			
CT307 (CONT)						X										X	X	X					X	X	
MU-V-20																									
RV343 (CONT)																X	X					X	P	X	X
RV344 (CONT)															X	X									NEW; ISOLATED FOR RSD
RV345 (CONT)															X	X									NEW
ED1705 (PWR)															X	X									NEW; REQUIRED ONLY FOR RSD

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COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
MU-V-32																														
RE330 (CONT)																														
RE345 (INST)																														
RE345A (INST)																														
CN615 (IND)																														
CN616 (IND)																														
CN617 (IND)																														
CN618 (IND)																														
MU-V-36																														
CQ7 (PWR)																														
CQ231 (CONT)																														
CQ232A (CONT)																														
CQ232B (CONT)																														
CQ232C (CONT)																														
CQ234 (CONT)																														
CQ235 (CONT)																														
CQ304 (CONT)																														
MU-V-37																														
CR7 (PWR)																														
CR231 (CONT)																														
CR232 (CONT)																														
CR232A (CONT)																														
CR232B (CONT)																														

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6A
 SHEET 9a

COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																									REMARKS							
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	C	C	C	C	C	C	C		C						
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B					
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	F	A	A	A	A	A	A	A	A	A	A	A						
	1	2	1	2	2	3	4	5	6	7	8	9	1	1	1	1	1	2	2	2	2	2	3	3	3	4	4	5	5				
	a	b	c						a				0	1	1	a	a	b	c	d	e	f	g	a	b	c	d	a	b	a	b		
MU-V-37 (Continued)																																	
CR232C (CONT)																	X	X														NEW	
CR232E (CONT)																	X			X	P	X										NEW	
CR234 (CONT)								X	X																								NEW; REQUIRED ONLY FOR RSD
CR236 (CONT)																	X	X															NEW; REQUIRED ONLY FOR RSD
CR237 (CONT)																								X	X								ISOLATED FOR RSD; CR233 WAS SPARED
CR336 (CONT)								X									X	X															NEW; REQUIRED ONLY FOR RSD

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COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																								REMARKS
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	
	G	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	S	S	S	S	B	B	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	1	1	1	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	A	Z	Z	Z	a	b	c	d	
																	2	1	2	3				e	
MU-P-1A																									
MD7 (PWR)			X					X																	
MD65A (CONT)																									
MD66 (CONT/IND)																									
MD68 (CONT)																									
RK950 (CONT)			X					X																	
RK951 (CONT)																									
MU-P-1B																									
MD8 (PWR)			X					X																	
MD68 (CONT)																									
MD71 (CONT/IND)																									
MD73A (CONT)																									
ME8 (PWR)																									
ME68 (CONT)																									
ME71 (CONT/IND)																									
ME73A (CONT)																									
ME51 (CONT)																									
ME52 (CONT)																									
ME53 (CONT)																									
ME54 (CONT)																									
RK956 (CONT)			X																						
RK957 (CONT)			X					X																	

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COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																								REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T		
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	B		
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	A		
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	2	1	2	3	a	b	c		
RK959 (CONT)																									
MU-P-1C																									
ME7 (PWR)			P	X			X																		
ME41 (CONT)																									
ME42 (CONT)																									
ME43 (CONT)																									
ME44 (CONT)																									
ME65 (CONT)																									
ME66 (CONT/IND)																									
ME68 (CONT)																									
RK953 (CONT)			P	X			X																		
RK953A (CONT)			P																						
RK953B (CONT)																									
RK954 (CONT)							X																		
MU-P-2A																									
CQ650 (PWR)			X		X																				
CQ651 (CONT)			X																						
CQ652 (CONT)			X				X																		
MU-P-3A																									
CG107 (PWR)			X				X																		
CG851 (CONT)																									

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COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																				REMARKS				
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	R	R	R	R	R		T			
	G	H	H	H	H	H	B	B	B	B	B	B	B	S	S	S	S	B	B	B		B	B		
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	F	F	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	Z	Z	Z	A	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	2	1	2	3	a	b	c	d	e
MU-P-2B																									
CQ210 (PWR)			X																						
CQ215 (CONT)			X																						
CQ212 (CONT)			X				X																		
CQ214 (CONT)																									
MU-P-3B																									
CR210 (PWR)																									
CR212 (CONT)			X	X			X																		
CR216 (CONT)																									
CR215 (CONT)																									
CR214 (CONT)																									
MU-P-2C																									
CR650 (CONT)																									
CR651 (CONT)			X	X																					
CR652 (PWR)			X																						
MU-P-3C																									
CH11 (PWR)																									
CH11A (PWR)																									
CH201 (CONT)																									
CH201A (CONT)																									
CH201B (CONT)																									
CH204 (CONT)																									

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COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																												REMARKS
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	T		
	G	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B	B		
MU-V-12	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
CP55 (PWR)			X																										
CP621 (CONT)																													
CP622 (CONT)				X			X																						
MU-V-14A																												MANUAL	
CG102 (PWR)			X					X																				NEW	
CG801 (CONT)			X					X																				NEW	
CG802 (CONT)																												NEW	
CG803 (CONT)																												NEW; ISOLATED FOR RSD	
CG804 (CONT)																												NEW; REQUIRED ONLY FOR RSD	
CG805 (CONT)																												NEW; ISOLATED FOR RSD	
MU-V-14B																												MANUAL	
CR14 (PWR)																													
CR301 (CONT)																													
CR302 (CONT)																												REROUTED BY RSD	
CR302A (CONT)																												NEW	
CR302B (CONT)				P	X			X																				NEW	
CR302C (CONT)																												NEW	
CR302D (CONT)																												FORMERLY PART OF CR302; ISOLATED FOR RSD	
CR304 (CONT)																												NEW; REQUIRED ONLY FOR RSD	
CR305 (CONT)								X																				ISOLATED FOR RSD; CR303 WAS SPARED	
CR306 (CONT)																												NEW; REQUIRED ONLY FOR RSD	
CR336 (CONT)				X	X			X																				NEW; REQUIRED ONLY FOR RSD	

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COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																												REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	R	T				
	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B	B	B	B	B	
	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	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	1	1	1	1	2	3	1		
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	2	1	2	3	a	b	c	d	e				
MU-V-16A																													
CQ15 (PWR)																													
CQ311 (CONT)																													
CQ312 (CONT)			X				X																						
CQ312A (CONT)			X																										
CQ312B (CONT)			X																										
CQ313 (CONT)																													
MU-V-16B																													
CQ16 (PWR)																													
CQ321 (CONT)																													
CQ322 (CONT)			X				X																						
CQ322A (CONT)			X																										
CQ322B (CONT)			X																										
CQ323 (CONT)																													
MU-V-16C																													
CR15 (PWR)																													
CR311 (CONT)																													
CR311A (CONT)			P	X																									
CR311B (CONT)			P	X																									
CR311C (CONT)				X																									
CR312 (CONT)																													
CR312A (CONT)			P																										
CR312B (CONT)			P																										
CR312C (CONT)			P	X			X																						
CR312D (CONT)																													

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COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																								REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	
	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	A	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	F	F	F	F	1	1	1		
																	A	Z	Z	Z	a	b	c		
																	2	1	2	3					
MU-V-16C																									
CR312E (CONT)																									
CR313 (CONT)																									
CR314 (CONT)						X																			
CR315 (CONT)																									
MU-V-16D																									
CR16 (PWR)																									
CR321 (CONT)																									
CR321A (CONT)			P	X																					
CR321B (CONT)			P	X																					
CR321C (CONT)				X																					
CR322 (CONT)																									
CR322A (CONT)																									
CR322B (CONT)																									
CR322C (CONT)			P																						
CR322D (CONT)			P																						
CR322E (CONT)			P	X		X																			
CR323 (CONT)																									

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COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																				REMARKS										
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	R	R	R	R		R	T								
	G	H	H	H	H	H	H	B	B	B	B	B	B	S	S	S	S	B	B	B		B	B	B							
	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	F	F	
	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	Z	Z	Z	Z	A	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	2	1	2	3	a	b	c	d	e	1	1	2	3	1	
CR324 (CONT)							X																								
CR325 (CONT)																															
MU-V-17																															
RE58 (INST)			X	X			X																								
RE58A (INST)			X																												
RE160 (INST)																															
MU-V-18																															
RV323 (CONT)																															
RV324 (CONT)			X				X																								
RV325 (CONT)																															
RV326 (CONT)																															
RV327 (CONT)																															
RV331 (CONT)																															
RV332 (CONT)																															
RV342 (CONT)																															
ED1705 (PWR)																															
MU-V-217																															
CT305 (PWR)																															
CT306 (CONT)																															
CT307 (CONT)					X		X																								
MU-V-20					E																										
RV343 (CONT)																															
RV344 (CONT)			X	X			X																								
RV345 (CONT)																															
ED1705 (PWR)																															

COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																								REMARKS
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	
	G	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	A	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	H	H	A	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	F	A	Z	Z	Z	1	1	1	
																	2	1	2	3	a	b	c	e	
MU-V-32																									
RE330 (CONT)																									
RE345 (INST)			X	X		X																			
RE345A (INST)			X																					NEW	
CN615 (IND)																								NEW; REQUIRED ONLY FOR RSD	
CN616 (IND)				X		X																		NEW; REQUIRED ONLY FOR RSD	
CN617 (IND)				X																				NEW; REQUIRED ONLY FOR RSD	
CN618 (IND)				X																				NEW; REQUIRED ONLY FOR RSD	
MU-V-36																									
CQ7 (PWR)			X																					NO NEED TO PROTECT POWER CABLE	
CQ231 (CONT)																									
CQ232A (CONT)				P																				CQ232 WAS SPARED	
CQ232B (CONT)				P					P															NEW	
CQ232C (CONT)																								NEW; ISOLATED FOR RSD	
CQ234 (CONT)																								CQ233 WAS SPARED	
CQ235 (CONT)																								NEW; REQUIRED ONLY FOR RSD	
CQ304 (CONT)				X			X																	NEW; REQUIRED ONLY FOR RSD	
MU-V-37																									
CR7 (PWR)																								NO NEED TO PROTECT POWER CABLE	
CR231 (CONT)																									
CR232 (CONT)																								REROUTED BY RSD; ISOLATED FOR RSD	
CR232A (CONT)				P																				NEW	
CR232B (CONT)				P																				NEW	

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COMPONENTS AND CIRCUITS	MAKEUP AND PURIFICATION																								REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T		
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	B	B	S	S	S	S	B	B	B		
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	Z		
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	A	Z	Z	Z	1	1	1		
																	2	1	2	3	a	b	c		
MU-V-37 (Continued)																									
CR232C (CONT)			P	P			P																		
CR232E (CONT)																									
CR234 (CONT)																									
CR236 (CONT)																									
CR237 (CONT)																									
CR336 (CONT)			X	X			X																		

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6B
SHEET 1a

COMPONENTS AND CIRCUITS	LETDOWN																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
	1	2	2	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	a	b	c				a					0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
MU-V-1A																														
CN601 (CONT)							X	X																						
CN602 (CONT)																														
CN605 (CONT & IND)							X	X	X																					
CN605A (CONT & IND)																														
CN606 (CONT & IND)																														
RU5 (IC-9 INTLK)																														
MU-V-1B																														
CP601 (CONT)							X	X			X																			
CP602 (CONT)																														
CP603 (IND)							X	X	X																					
CP604 (CONT)							X	X	X																					
CP605 (CONT)							X	X			X																			
CP605A (CONT & IND)																														
CP606 (CONT & IND)																														
CP607 (INTLK)																														
RU5 (IC-9 INTLK)																														
MU-V-2A																														
CR17 (PWR)							X	X	X																					
CR17A (PWR)																														
CR331 (CONT)							X	X	X																					
CR331A (CONT)																														
CR332 (CONT)							X	X																						
CR332A (CONT)																														
CR332B (CONT)																														
CR332C (CONT)																														
CR340 (CONT)							X	X	X																					

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COMPONENTS AND CIRCUITS	LETDOWN																										REMARKS		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B
MU-V-2A (Continued)																													
CR333 (CONT)																													
CR334 (CONT)																													
CR335 (CONT)																													
CR336 (CONT)																													
CR338 (CONT)																													
CR339 (CONT)																													
CR352 (CONT)																													
CR657 (CONT)																													
RU513 (ALARM)																													
MU-V-2B																													
CR25 (PWR)																													
CR25A (PWR)																													
CR336 (CONT)																													
CR351 (CONT)																													
CR381 (CONT)																													
CR381A (CONT)																													
CR382 (CONT)																													
CR382A (CONT)																													
CR382B (CONT)																													
CR382C (CONT)																													
CR383 (CONT)																													
CR384 (CONT)																													
CR385 (CONT)																													
CR387 (CONT)																													
CR388 (CONT)																													
CR657 (CONT)																													
RU513 (ALARM)																													
CR340 (CONT)																													

COMPONENTS AND CIRCUITS	LETDOWN																										REMARKS		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B
MU-V-3	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	MANUAL
RV152 (CONT)																													NEW-ISOLATED FOR RSD
RV153 (CONT)																													NEW
RV154 (CONT)																													NEW-REQUIRED ONLY FOR RSD
RV157 (CONT)																													ISOLATED FOR RSD
RV158 (CONT)																													ISOLATED FOR RSD
RV159 (CONT)																													ISOLATED FOR RSD
ED117 (DC)																													NEW; REQUIRED ONLY FOR RSD
RV155 (CONT)																													ISOLATED FOR RSD
MU-V-4																													MANUAL
RV276 (CONT)																													
RV277 (CONT)																													
MU-V-8																													MANUAL
CN42 (PWR)																													
CN611 (CONT)																													
CN612 (CONT)																													
CN613 (CONT)																													
CN614 (CONT & IND)																													
CN615 (IND)																													NEW; REQUIRED ONLY FOR RSD
CN616 (IND)																													NEW; REQUIRED ONLY FOR RSD
CN617 (IND)																													NEW; REQUIRED ONLY FOR RSD
CN618 (IND)																													NEW; REQUIRED ONLY FOR RSD
DL1851 (CONT & IND)																													
DL1852 (CONT)																													

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COMPONENTS AND CIRCUITS	LETDOWN																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
MU-V-8 (Continued)	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
DL1853 (CONT)																														
DL1854 (CONT)																														
DL1855 (CONT)																														
DL1856 (CONT)																														
DL1860 (CONT)																														
MU-V-6A																														
RV282 (CONT)																														
RV284 (CONT)																														
RV286 (CONT)																														
RV288 (CONT)																														
RV289 (CONT)																														
RV290 (CONT)																														
RV293 (CONT)																														
MU-V-6B																														
RV283 (CONT)																														
RV285 (CONT)																														
RV287 (CONT)																														
RV291 (CONT)																														
RV292 (CONT)																														
RV293 (CONT)																														
ED103 (PWR)																														
MU-V-11A																														
RV302 (CONT)																														
RV305 (CONT)																														
RV308 (CONT)																														

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6B
 SHEET 5a

COMPONENTS AND CIRCUITS	LETDOWN																									REMARKS
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
MU-V-11A(Continued)	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
RV313 (CONT)	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z		
RV314 (CONT)	1	2	2	3	4	5	6	7	8	9	10	11	11	11	11	11	11	11	11	11	11	11	11	11		
RV315 (CONT)	a	b	c				a																			
ED103 (PWR)																										
MU-V-11B																									MANUAL	
RV303 (CONT)																										
RV306 (CONT)																										
RV309 (CONT)																										
RV316 (CONT)																										
RV317 (CONT)																										
RV318 (CONT)																										
WDL-V-2																									MANUAL	
DL31 (CONT)																										
DL32 (CONT)																										
DL33 (CONT)																										
DL41 (CONT)																										
DL42 (CONT)																										
WDL-V-1																									MANUAL	
DL21 (CONT)																										
DL22 (CONT)																										
DL23 (CONT)																										

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CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6B
SHEET 6a

COMPONENTS AND CIRCUITS	LETDOWN																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
WDL-V-1(Continued)	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
DL24 (CONT)	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
DL25 (CONT)	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
DL25 (CONT)	a	b	c																											
WDL-V-3								E																						
DL51 (CONT)								X																						
DL52 (CONT)								X																						
DL53 (CONT)								X																						
DL54 (CONT)								X																						
DL55 (CONT)								X																						
WDL-V-4								E																						
DL61 (CONT)								X																						
DL62 (CONT)								X																						
DL63 (CONT)								X																						
DL64 (CONT)								X																						
DL65 (CONT)								X																						
WDL-V-5								E																						
DL71 (CONT)								X																						
DL72 (CONT)								X																						
DL73 (CONT)								X																						
DL74 (CONT)								X																						
DL75 (CONT)								X																						

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COMPONENTS AND CIRCUITS	LETDOWN																								REMARKS					
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	S	S	S	S	R	R		R	R	R	R	T
	G	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	S	S	S	S	B	B		B	B	B	B	B
	F	F	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	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	1	1	1	1	2	3	1	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8			2	1	2	3	a	b	c	d	e			
MU-V-1A																								E					MANUAL	
CN601 (CONT)				X		X																								
CN602 (CONT)																														
CN605 (CONT & IND)			X																											
CN605A (CONT & IND)																								X						
CN606 (CONT & IND)																								X						
RU5 (IC-9 INTLK)																														
MU-V-1B																								E					MANUAL	
CP601 (CONT)				X		X																								
CP602 (CONT)																														
CP603 (IND)				X		X																								
CP604 (CONT)				X		X																								
CP605 (CONT)																														
CP605A (CONT & IND)																								X						
CP606 (CONT & IND)																								X						
CP607 (INTLK)																								X						
RU5 (IC-9 INTLK)																														
MU-V-2A																								E					MANUAL	
CR17 (PWR)																														
CR17A (PWR)																								X						
CR331 (CONT)																														
CR331A (CONT)																								X						
CR332 (CONT)			X	X		X																							REROUTED BY RSD	
CR332A (CONT)						X																							NEW	
CR332B (CONT)																													NEW; ISOLATED FOR RSD	
CR332C (CONT)						X																							NEW; ISOLATED FOR RSD	
CR340 (CONT)																														

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COMPONENTS AND CIRCUITS	LETDOWN																				REMARKS		
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R		R	T
	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	S	S	S	S		S	S
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	H	H	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	F	F	F	F	F	F	
																	2	1	2	3	a	b	
MU-V-2A (Continued)																							
CR333 (CONT)																							
CR334 (CONT)																							
CR335 (CONT)																							
CR336 (CONT)			X	X			X																
CR338 (CONT)																							
CR339 (CONT)			X	X			X																
CR352 (CONT)																							
CR657 (CONT)																							
RU513 (ALARM)																							
MU-V-2B																							
CR25 (PWR)																							
CR25A (PWR)																							
CR336 (CONT)			X	X			X																
CR351 (CONT)			X	X			X																
CR381 (CONT)																							
CR381A (CONT)																							
CR382 (CONT)			X	X			X																
CR382A (CONT)																							
CR382B (CONT)																							
CR382C (CONT)																							
CR383 (CONT)																							
CR384 (CONT)																							
CR385 (CONT)																							
CR387 (CONT)																							
CR388 (CONT)																							
CR657 (CONT)																							
RU513 (ALARM)																							
CR340 (CONT)																							

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COMPONENTS AND CIRCUITS	LETDOWN																												REMARKS
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	R	T		
	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	S	S	S		
MU-V-3	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	F	F	F	F	F	F	F	F	F	F	F	MANUAL	
RV152 (CONT)																												NEW; ISOLATED FOR RSD	
RV153 (CONT)			X					X																				NEW	
RV154 (CONT)																												NEW; REQUIRED ONLY FOR RSD	
RV157 (CONT)																												ISOLATED FOR RSD	
RV158 (CONT)																												ISOLATED FOR RSD	
RV159 (CONT)																												ISOLATED FOR RSD	
ED117 (DC)																												NEW; REQUIRED ONLY FOR RSD	
RV155 (cont)																												ISOLATED FOR RSD	
MU-V-4																												MANUAL	
RV276 (CONT)																													
RV277 (CONT)			X					X																					
MU-V-8																												MANUAL	
CN42 (PWR)																													
CN611 (CONT)				X				X																					
CN612 (CONT)																													
CN613 (CONT)			X	X																									
CN614 (CONT & IND)				X				X																					
CN615 (IND)																												NEW; REQUIRED ONLY FOR RSD	
CN616 (IND)				X				X																				NEW; REQUIRED ONLY FOR RSD	
CN617 (IND)				X																								NEW; REQUIRED ONLY FOR RSD	
CN618 (IND)				X																								NEW; REQUIRED ONLY FOR RSD	
DL1851 (CONT & IND)																													
DL1852 (CONT)																													

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COMPONENTS AND CIRCUITS	LETDOWN																												REMARKS
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	T			
	G	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	S	S			
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	H	H	H	F			
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	Z	A			
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8			2	1	2	3	a	b	c	e			
MU-V-8 (Continued)																													
DL1853 (CONT)																													
DL1854 (CONT)				X			X																						
DL1855 (CONT)				X			X																						
DL1856 (CONT)																													
DL1860 (CONT)				X			X																						
MU-V-6A																													
RV282 (CONT)																										MANUAL			
RV284 (CONT)				X	X		X																						
RV286 (CONT)				X			X																						
RV288 (CONT)																													
RV289 (CONT)																													
RV290 (CONT)																													
RV293 (CONT)																													
MU-V-6B																										MANUAL			
RV283 (CONT)																													
RV285 (CONT)				X	X		X																						
RV287 (CONT)				X			X																						
RV291 (CONT)																													
RV292 (CONT)																													
RV293 (CONT)																													
ED103 (PWR)																													
MU-V-11A																										MANUAL			
RV302 (CONT)																													
RV305 (CONT)				X	X		X																						
RV308 (CONT)				X	X		X																						

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6B
 SHEET 5b

COMPONENTS AND CIRCUITS	LETDOWN																									REMARKS
	D G	D G	F H	F H	F H	F H	F H	F H	F H	I B	I B	I B	I B	I B	I B	I S	I S	I S	I S	R B	R B	R B	R B	R B	R T	
	F A	F A	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F H	F H	F H	F H	F Z	F Z	F Z	F Z	F Z	F Z	F Z
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	F A	F Z	F Z	1	1	1	1	2	3	1
MU-V-11A(Continued)																										
RV313 (CONT)																										
RV314 (CONT)																										
RV315 (CONT)																										
ED103 (PWR)																										
MU-V-11B																										MANUAL
RV303 (CONT)																										
RV306 (CONT)			X	X			X																			
RV309 (CONT)			X	X			X																			
RV316 (CONT)																										
RV317 (CONT)																										
RV318 (CONT)																										
WDL-V-2																										MANUAL
DL31 (CONT)			X	X			X																			
DL32 (CONT)																										
DL33 (CONT)																										
DL41 (CONT)																										
DL42 (CONT)																										
WDL-V-1																										MANUAL
DL21 (CONT)			X	X			X																			
DL22 (CONT)																										
DL23 (CONT)																										

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COMPONENTS AND CIRCUITS	LETDOWN																												REMARKS
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	T			
	G	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	S	S			
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	H	H	H	H			
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	Z	A			
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8			F	F	F	F	F	F	F				
																			A	Z	Z	Z	a	b	c	d	e		
WDL-V-1 (Continued)																													
DL24 (CONT)																													
DL25 (CONT)																													
WDL-V-3																													
DL51 (CONT)			X	X			X																						
DL52 (CONT)																													
DL53 (CONT)																													
DL54 (CONT)																													
DL55 (CONT)																													
WDL-V-4																													
DL61 (CONT)			X	X			X																						
DL62 (CONT)																													
DL63 (CONT)																													
DL64 (CONT)																													
DL65 (CONT)																													
WDL-V-5																													
DL71 (CONT)			X	X			X																						
DL72 (CONT)																													
DL73 (CONT)																													
DL74 (CONT)																													
DL75 (CONT)																													

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COMPONENTS AND CIRCUITS	LETDOWN																										REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	R	T	
	G	H	H	H	H	H	H	B	B	B	B	B	B	S	S	S	S	S	B	B	B	B	B	B	B	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8											
MU-V-5																											
RE38 (INST)		X	X			X																					
RE39 (INST)																											

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6C
SHEET 1a

COMPONENTS AND CIRCUITS	REACTOR COOLANT																											REMARKS
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
	1	2	1	2	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	a	1	2	2	2	2	2	3	3
			a	b	c							a													b	c	d	a
RC-G-8																												
LP51 (PWR)																				X	X							
LP52 (PWR)																				X	X	X						
LP53 (PWR)																												
LP54 (GND CURR)																					X							
LP55 (U.V. POT)																					X							
LP56 (CONT)																					X							
LP57 (CONT)																					X							
LP58 (CONT)																					X	X					X	
CJ151 (CONT)																										X		
CJ152 (CONT)																										X	X	
CK2 (PWR)																												
CK151 (CONT)																										X		
CK152 (CONT/IND)																										X	X	
CK172 (CONT)																										X		
EA6810 (PWR)																												
EA6810A (PWR)																												
EA1322 (PWR)																												
EA1323 (PWR)																												
EA1324 (PWR)																												
EA6811 (PWR)																												
EA6811A (PWR)																												
EA1326 (PWR)																												
EA1327 (PWR)																												
EA1328 (PWR)																												

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COMPONENTS AND CIRCUITS	REACTOR COOLANT																		REMARKS													
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		C	C	C	C	C	C	C	C	C	C	C	C	
	F	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		I	I	C	B	B	B	B	B	B	B	B	B	B
EA6812 (PWR)	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F			
EA6812A (PWR)	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	A	A	A	A	A	A	A	A	A	A	A	Z	Z	
EA1330 (PWR)	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	2	2	2	2	2	2	3	3	3	4	4	5	5	
EA1331 (PWR)	a	b	c						a				0	1	1	1	a	b	c	d	e	f	g	a	b	c	d	a	b	a	b	
EA1332 (PWR)																																
RU11 (INTLK)																											X				REQD. WHEN POWRD. FROM BOP BUS	
RU6 (INTLK)																											X				REQD. WHEN POWRD. FROM BOP BUS	
RC-G-9																											X				REQD. WHEN POWRD. FROM BOP BUS	
CJ151 (CONT)																											X				REQD. WHEN POWRD. FROM BOP BUS	
CJ152 (CONT)																											X	X			REQD. WHEN POWRD. FROM BOP BUS	
CK3 (PWR)																															REQD. WHEN POWRD. FROM BOP BUS	
CK151 (CONT)																											X				REQD. WHEN POWRD. FROM BOP BUS	
CK152 (CONT/IND)																											X	X			REQD. WHEN POWRD. FROM BOP BUS	
CK173 (CONT)																											X				REQD. WHEN POWRD. FROM BOP BUS	
LS51 (PWR)																		X	X													
LS52 (PWR)																			X	X												
LS53 (PWR)																																
LS54 (GND CURR)																					X											
LS55 (U.V. POT)																					X											
LS56 (CONT)																					X											
LS57 (CONT)																					X											
LS58 (CONT)																					X					X	D				ISOLATED FOR RSD	
EA6813 (PWR)																																
EA6813A (PWR)																																

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6C
SHEET 3a

COMPONENTS AND CIRCUITS	REACTOR COOLANT																																REMARKS																							
	A B	A B	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	A Z	C B	C B	C B		C B	C B	C B	C B	C B	C B	C B	C B															
EA1302 (PWR)																																																								
EA1303 (PWR)																																																								
EA1304 (PWR)																																																								
EA6814 (PWR)																																																								
EA6814A (PWR)																																																								
EA1306 (PWR)																																																								
EA1307 (PWR)																																																								
EA1308 (PWR)																																																								
EA6815 (PWR)																																																								
EA6815A (PWR)																																																								
EA1310 (PWR)																																																								
EA1311 (PWR)																																																								
EA1312 (PWR)																																																								
RUG (INTLK)																																																								
RU11 (INTLK)																																																								
RC-V-2																																																								
CS33 (PWR)																																																								
CS33B (PWR)																																																								
CS261 (CONT)																																																								
CS261B (CONT)																																																								
CS261C (CONT)																																																								
CS262 (CONT)																																																								
CS262A (CONT)																																																								
CS263 (CONT)																																																								
CS264 (CONT)																																																								
CS265 (CONT)																																																								

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 CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6C
 SHEET 4a

COMPONENTS AND CIRCUITS	REACTOR COOLANT																												REMARKS		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
	1	2	1	2	2	3	4	5	6	7	8	9	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
CS266 (CONT)																															NEW, REQUIRED ONLY FOR RSD
RC-RV-2																															
ED521 (CONT)																															
ED522 (CONT)																															
ED523B (CONT)																															NEW
ED523C (CONT)																															NEW; ED523 WAS SPARED
ED523E (CONT)																															ED523A WAS SPARED
ED5050 (CONT)																															
ED5052 (CONT)																															
ED103 (PWR)																															
RU9 (INTLK)																															
RU9 (INTLK)																															
RU15 (INTLK)																															
RC-V-3																															MANUAL
CH62 (PWR)																															
CH62A (PWR)																															
CH611 (CONT)																															
CH611A (CONT)																															
CH612 (CONT)																															
CH613 (CONT)																															
CH614 (CONT)																															

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6C
 SHEET 5a

COMPONENTS AND CIRCUITS	REACTOR COOLANT																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
RC-V-4	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	MANUAL
CS32 (PWR)	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
CS32A (PWR)																														
CS251 (CONT)																														
CS251A (CONT)																														
CS252 (CONT)																														
RC-V-28																														
CH621 (CONT)																														
CH622 (CONT)																														
CH621A (CONT)																														
CH63 (PWR)																														
CH63A (PWR)																														
RC-V-44																														
RV1261 (CONT)																														
RV1261A (CONT)																														
RC-V-40A																														
RV1290 (CONT PWR)																														
RV1290A (CONT PWR)																														

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6C
SHEET 6a

COMPONENTS AND CIRCUITS	REACTOR COOLANT																									REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
RC-V-41A	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
RV1291 (CONT PWR)	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
RV1291A (CONT PWR)	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	
RC-V-40B																											
RV1296 (CONT PWR)																											
RV1304 (CONT PWR)						X	X																X	X	X	X	
RC-V-41B																											
RV1297 (CONT PWR)																											
RV1304 (CONT PWR)						D	D																D	D	D	D	
RC-V-42																											
RV1298 (CONT PWR)																											
RV1298A (CONT PWR)																											
RV1304 (CONT PWR)						X	X																X	X	X	X	
RC-V-43																											
RV1299 (CONT PWR)																											
RV1299A (CONT PWR)																											
RV1304 (CONT PWR)						D	D																	D	D	D	
RC-V-1																											
CG77 (PWR)						X								X	X												
CG77A (PWR)																											
CG641 (CONT)						X								X	X												
CG641A (CONT)																											
CG642 (CONT)														X		X							X	X	X	X	
CG643 (CONT)																							X	X	X	X	

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6C
SHEET 7a

COMPONENTS AND CIRCUITS	REACTOR COOLANT																												REMARKS							
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	C	C	C	C	C	C		C	C					
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	I	I	I	I	I	I	I	I		I	I					
	1	2	1	2	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	4	4	5	5		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	F	F	F	F	F	F	F	F	F	F	F	F	F			
	a	a	b	b	c	c	c	c	a	a	a	a	0	1	1	1	1	1	1	a	a	a	a	a	a	a	a	a	a	a	a	a	a			
RC-P-1A TRIP CIRCUITS																																				
ED310 (PWR)																					X															
MR23 (CONT)																																				
MR24 (CONT & IND)																																				
MR26 (CONT & IND)																																				
ED310A (PWR)																																			New	
RC-P-1B TRIP CIRCUITS																																				
ED310 (PWR)																						X														
MP23 (CONT)																																				
MP24 (CONT & IND)																																				
MP26 (CONT & IND)																																				
ED310A (PWR)																																				New
RC-P-1C TRIP CIRCUITS																																				
ED310 (PWR)																						X														
MR38 (CONT)																																				
MR39 (CONT & IND)																																				
MR41 (CONT & IND)																																				
ED310A (PWR)																																				New
RC-P-1D TRIP CIRCUITS																																				
ED310 (PWR)																						X														
MP38 (CONT)																																				
MP39 (CONT & IND)																																				
MP41 (CONT & IND)																																				
MP42 (CONT)																																				
ED310A (PWR)																																				New

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 CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6C
 SHEET 8a

COMPONENTS AND CIRCUITS	REACTOR COOLANT																									REMARKS
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	F	A	A	A	A	A	A	A	A	A	A	
	1	2	1	2	2	3	4	5	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	
			a	b	c				a																	
RC-P-1A,1C Alternate Trip																										
ED110 (PWR)																X			X							
ED110A (PWR)																										New
MR11 (CONT & IND) ISA-02																							X	X		
MR12 (CONT & IND)																							X	X		
MR13 (CONT & IND)																							X	X		
MR51 (CONT & IND) ISB-72																							X	X		
MR52 (CONT & IND)																							X	X		
MR53 (CONT & IND)																							X	X		
RC-P-1B,1D Alternate Trip																										
ED110 (PWR)																X			X							
ED110A (PWR)																										New
MP11 (CONT & IND) ISA-72																							X	X		
MP12 (CONT & IND)																							X	X		
MP13 (CONT & IND)																							X	X		
MP51 (CONT & IND) ISB-02																							X	X		
MP52 (CONT & IND)																							X	X		
MP53 (CONT & IND)																							X	X		

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COMPONENTS AND CIRCUITS	REACTOR COOLANT																								REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T		
	G	G	H	H	H	H	H	B	B	B	B	B	B	S	S	S	S	B	B	B	B	B	B		
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	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	1	1	1	2		
																	2	1	2	3	a	b	c		
RC-G-8																						E			
LP51 (PWR)																									
LP52 (PWR)						X																	X		
LP53 (PWR)																							X		
LP54 (GND CURR)																									
LP55 (U.V. POT)																									
LP56 (CONT)																									
LP57 (CONT)																									
LP58 (CONT)																									
CJ151 (CONT)						X																	X		
CJ152 (CONT)																							X		
CK2 (PWR)																							X		
CK151 (CONT)						X																	X		
CK152 (CONT/IND)																									
CK172 (CONT)						X																	X		
EA6810 (PWR)																							X		
EA6810A (PWR)																							X		
EA1322 (PWR)																					X	X			
EA1323 (PWR)																					X	X			
EA1324 (PWR)																					X	X			
EA6811 (PWR)																							X		
EA6811A (PWR)																							X		
EA1326 (PWR)																					X	X			
EA1327 (PWR)																					X	X			
EA1328 (PWR)																					X	X			

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6C
SHEET 2b

COMPONENTS AND CIRCUITS	REACTOR COOLANT																								REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	P	P	P	P	P	P	A	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	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	a	b	c	d	e	
EA6812 (PWR)																							X		
EA6812A (PWR)																							X		
EA1330 (PWR)																						X	X		
EA1331 (PWR)																						X	X		
EA1332 (PWR)																						X	X		
RU11 (INTLK)																									
RU6 (INTLK)																									
RC-G-9																						E			
CJ151 (CONT)						X																	X		
CJ152 (CONT)																								X	
CK3 (PWR)																								X	
CK151 (CONT)						X																		X	
CK152 (CONT/IND)																								X	
CK173 (CONT)						X																		X	
LS51 (PWR)																								X	
LS52 (PWR)						X																		X	
LS53 (PWR)																								X	
LS54 (GND CURR)																									
LS55 (U.V. POT)																									
LS56 (CONT)																									
LS57 (CONT)																									
LS58 (CONT)																									
EA6813 (PWR)																								X	
EA6813A (PWR)																								X	

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COMPONENTS AND CIRCUITS	REACTOR COOLANT																								REMARKS
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T		
	G	G	H	H	H	H	H	H	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B		
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	1	1	1	1	2		
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	a	b	c	d	e	2	3		
EA1302 (PWR)																					X	X			
EA1303 (PWR)																					X	X			
EA1304 (PWR)																					X	X			
EA6814 (PWR)																							X		
EA6814A (PWR)																						X			
EA1306 (PWR)																					X	X			
EA1307 (PWR)																					X	X			
EA1308 (PWR)																					X	X			
EA6815 (PWR)																							X		
EA6815A (PWR)																						X			
EA1310 (PWR)																					X	X			
EA1311 (PWR)																					X	X			
EA1312 (PWR)																					X	X			
RU6 (INTLK)																									
RU11 (INTLK)																									
RC-V-2																						E			
CS33 (PWR)			X																						
CS33B (PWR)																	P	P	P	P					
CS261 (CONT)			X																						
CS261B (CONT)																	P	P	P	P					
CS261C (CONT)																	P	P	P	P					
CS262 (CONT)			X																						
CS262A (CONT)			X					P																	
CS263 (CONT)			X																						
CS264 (CONT)			X	X			X																		
CS265 (CONT)																									

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6C
SHEET 4b

COMPONENTS AND CIRCUITS	REACTOR COOLANT																										REMARKS	
	D G	D G	F H	F H	F H	F H	F H	F H	I B	I B	I B	I B	I B	I B	I B	I S	I S	I S	I S	I R	R B	R B	R B	R B	R B	R B		T B
	F A	F A	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F H	F H	F H	F Z	F Z	F Z	F Z	F Z	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	A	Z	Z	1	1	1	1	2	3	1		
CS266 (CONT)																												NEW-REQUIRED ONLY FOR RSD
RC-RV-2																												E
ED521 (CONT)																												
ED522 (CONT)																												
ED523B (CONT)				P																								NEW
ED523C (CONT)				P				X																				NEW; ED523 WAS SPARED
ED523E (CONT)																				P	P	P	P					ED523A WAS SPARED
ED5050 (CONT)																												
ED5052 (CONT)																												
ED103 (PWR)																												
RUB (INTLK)																												
RU9 (INTLK)																												
RU15 (INTLK)																												
RC-V-3																												E
CH62 (PWR)			X	X																								MANUAL
CH62A (PWR)																				X	X	X	X					
CH611 (CONT)				X			X																					
CH611A (CONT)																						X	X	X				
CH612 (CONT)																												
CH613 (CONT)																												REROUTED BY RSD; ISOLATED
CH614 (CONT)																												NEW
																												NEW; REQUIRED ONLY FOR RSD

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6C
 SHEET 5b

COMPONENTS AND CIRCUITS	REACTOR COOLANT																												REMARKS
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	T		
	G	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	S	T		
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	H	H	H	A		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	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	1	1	1	1	2	3	1			
RC-V-4																										E			
CS32 (PWR)			X																							MANUAL			
CS32A (PWR)																				X	X	X	X	X					
CS251 (CONT)			X																		X	X	X	X	X				
CS251A (CONT)																					X	X	X	X	X				
CS252 (CONT)			X					X																					
RC-V-28																										E			
CH621 (CONT)				X			X																						
CH622 (CONT)																													
CH621A (CONT)																						X	X	X	X				
CH63 (PWR)			X	X																									
CH63A (PWR)																				X	X	X	X	X	X				
RC-V-44																										E			
RV1261 (CONT)			D	D			D																						
RV1261A (CONT)																						D		D	D				
RC-V-40A																										E			
RV1290 (CONT PWR)			X				X																						
RV1290A (CONT PWR)																						X	X	X					

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COMPONENTS AND CIRCUITS	REACTOR COOLANT																								REMARKS
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	
	G	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	B	
RC-V-41A																								E	
RV1291 (CONT PWR)			D					D																	
RV1291A (CONT PWR)																								D D D	
RC-V-40B																								E	
RV1296 (CONT PWR)																								X X X X	
RV1304 (CONT PWR)			X	X			X																		
RC-V-41R																								E	
RV1297 (CONT PWR)																								D D D	
RV1304 (CONT PWR)			D	D			D																		
RC-V-42																								E	
RV1298 (CONT PWR)																								X X X	
RV1298A (CONT PWR)																								X	
RV1304 (CONT PWR)			X	X			X																		
RC-V-43																								E	
RV1299 (CONT PWR)																								D D	
RV1299A (CONT PWR)																								X	
RV1304 (CONT PWR)			D	D			D																		
RC-V-1																								E	
CG77 (PWR)			X				X																		
CG77A (PWR)																								X X X X	
CG641 (CONT)			X				X																		
CG641A (CONT)																								X X X X	
CG642 (CONT)																									
CG643 (CONT)																									

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COMPONENTS AND CIRCUITS	REACTOR COOLANT																								REMARKS		
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	S	S	S	R	R	R	R	R		R	T
	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	P	P	P	B	B	B	B	B		B	B
F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	F	F	F	F	F	F	F	F	
A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	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	1	1	1	1	2	3	1		
RC-P-1A TRIP CIRCUITS																											
ED310 (PWR)																										X	
MR23 (CONT)																										X	
MR24 (CONT & IND)																										X	
MR26 (CONT & IND)																											
ED310A (PWR)																										X	
RC-P-1B TRIP CIRCUITS																											
ED310 (PWR)																										X	
MP23 (CONT)																										X	
MP24 (CONT & IND)																										X	
MP26 (CONT & IND)																											
ED310A (PWR)																										X	
RC-P-1C TRIP CIRCUITS																											
ED310 (PWR)																										X	
MR38 (CONT)																										X	
MR39 (CONT & IND)																										X	
MR41 (CONT & IND)																											
ED310A (PWR)																										X	
RC-P-1D TRIP CIRCUITS																											
ED310 (PWR)																										X	
MP38 (CONT)																										X	
MP39 (CONT & IND)																										X	
MP41 (CONT & IND)																											
MP42 (CONT)																											
ED310A (PWR)																										X	

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COMPONENTS AND CIRCUITS	REACTOR COOLANT																								REMARKS
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	T	
	G	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	S	S	S	S	S	B	
	F	F	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	F	H	H	H	F	F	F	F	F	
A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	1	1	1	1	2	3	
		1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	A	Z	Z	a	b	c	d	e
RC-P-1A,1C Alternate Trip																									
ED110(PWR)																									X
ED110A(PWR)																									X
MR11(CONT & IND)																									X
MR12(CONT & IND)																									X
MR13(CONT & IND)																									X
MR51(CONT & IND)																									X
MR52(CONT & IND)																									X
MR53(CONT & IND)																									X
RC-P-1B,1D Alternate Trip																									
ED110(PWR)																									X
ED110A(PWR)																									X
MP11(CONT & IND)																									X
MP12(CONT & IND)																									X
MP13(CONT & IND)																									X
MP51(CONT & IND)																									X
MP52(CONT & IND)																									X
MP53(CONT & IND)																									X

COMPONENTS AND CIRCUITS	EMERGENCY FEEDWATER																												REMARKS		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
	1	2	1	2	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
EF-P-2A																															
MD3 (PWR)																															
MD36 (CONT)																															
RU485 (CONT)																															
RU486 (CONT)																															
RU489 (CONT)																															
RU501 (CONT)																															
RL121 (CONT)																															
RG283																															
EF-P-2B																															
ME4 (PWR)																															
ME46 (CONT)																															
RU487 (CONT)																															
RU488 (CONT)																															
RU490 (CONT)																															
RU507 (CONT)																															
RL141 (CONT)																															
RL141A (CONT)																															
RL142 (CONT)																															
RG282 (CONT)																															
EF-V-2A																															
CG15 (PWR)																															
CG241 (CONT)																															
CG242 (CONT)																															

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6E
 SHEET 3a

COMPONENTS AND CIRCUITS	EMERGENCY FEEDWATER																												REMARKS		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z		
	1	2	1	2	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	a	b	c							a																					
EF-V-30D																															
RL54 (INST)																															
RL57 (INST)																															
RL57A (INST)																															
RL57B (INST)																															
RL80 (INST)																															
RL85 (INST)																															
RL86 (INST)																															

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COMPONENTS AND CIRCUITS	EMERGENCY FEEDWATER																											REMARKS						
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	T										
	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B				
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	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	2	3	1							
EF-P-2A											E																							
MD3 (PWR)										X																								
MD36 (CONT)																																		
RU485 (CONT)																																		AUTO START - UV INTLK.
RU486 (CONT)																																		AUTO START - ESAS INTLK.
RU489 (CONT)																																		
RU501 (CONT)																																		AUTO START-NOR/DEF P.B. INTLK.
RL121 (CONT)							X																											AUTO START - HSPS INTLK.
RG283 (CONT)																																		AUTO START - RCP TRIP INTLK.
EF-P-2B											E																							
ME4 (PWR)										X																								
ME46 (CONT)																																		ISOLATED FOR RSD
RU487 (CONT)																																		AUTO START - UV INTLK.
RU488 (CONT)																																		AUTO START - ESAS INTLK.
RU490 (CONT)																																		ISOLATED FOR RSD
RU507 (CONT)																																		AUTO START-NOR/DEF.P.B.INTLK.
RL141 (CONT)							X																											AUTO START - HSPS INTLK.
RL141A (CONT)																																		AUTO START - HSPS INTLK.
RL142 (CONT)																																		AUTO START - HSPS INTLK.
RG282 (CONT)																																		AUTO START - RCP TRIP INTLK.
EF-V-2A											E																							MANUAL
CG15 (PWR)										X																								
CG241 (CONT)											X																							
CG242 (CONT)																																		

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COMPONENTS AND CIRCUITS	EMERGENCY FEEDWATER																								REMARKS	
	D	D	F	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R		T
	G	G	H	H	H	H	H	H	B	B	B	B	B	B	B	B	B	B	S	S	S	S	B	B		B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	A	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8										
EF-V-2B																										
CH96 (PWR)																										
CH871 (CONT)																										
CH872 (CONT)																										
EF-V-30A																										
RF 144 (INST)			X																							
RF 175 (INST)																										
RL44 (INST)																										
RL77 (INST)																										
RF142 (INST)																										
RF144A (INST)																										
RL84 (CONT)																										
EF-V-30B																										
RL54 (INST)																										
RL56 (INST)																										
RL56A (INST)																										
RL56B (INST)																										
RL79 (INST)																										
RF151 (INST)																										
RL86 (INST)																										
EF-V-30C																										
RL44 (INST)																										
RL47 (INST)																										
RL78 (INST)																										
RL83 (INST)																										
RL84 (INST)																										

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H S P S / EMERGENCY FEEDWATER			
A A A A A A A A A A A A A A A A A A C C C C C C C C C C C C C C C	B B B B B B B B B B B B B B B B I I B B B B B B B B B B B B B B B B	T T	F F
1 2 1 2 2 2 3 4 5 6 6 7 8 9 1 1	a b c	a	0 1 1 1 a b c d e f g a b c d a b a b
COMPONENTS AND CIRCUITS			REMARKS
EF-HSFS-A			
EA171 (PWR)		X X	INST PWR EG-DP-VBA NEW
EA172 (PWR)		X X	NEW
RL61 (INST)			NEW
RL62 (INST)			NEW
RL63 (INST)			NEW
RL64 (INST)			NEW
RL65 (INST)			NEW
RL66 (INST)			NEW
RL67 (INST)			NEW
RL68 (INST)			NEW
RL69 (INST)			NEW
RL70 (INST)			NEW
RL81 (INST)			NEW
RL121 (INST)		X	NEW
RL126 (INST)		X X	NEW
EF-HSFS-B			
EA371 (PWR)		X	INST PWR EG-DP-VBB NEW
EA372 (PWR)		X	NEW
RL71 (INST)			NEW
RL72 (INST)			NEW
RL73 (INST)			NEW
RL74 (INST)			NEW
RL75 (INST)			NEW
RL76 (INST)			NEW
RL141 (INST)		X	NEW
RL141A (CONT)		X	NEW
RL142 (CONT)		X	NEW

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		H S P S / EMERGENCY FEEDWATER																
		D D F F F F F F I I I I I I I I I I I I I I R R R R R R R R T																
		G G B B B B B B B B B B B B B B B B S S S S B B B B B B B B																
		P P P P																
		F F F F F F F F F F F F F F F F B B B B F F F F F F F F F																
		A A Z Z Z Z Z Z A Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z A																
		F F F F																
COMPONENTS AND CIRCUITS		1 2 1 2 3 4 5 6 7 1 2 3 4 5 6 7 8 A Z Z Z 1 1 1 1 1 2 3 1															REMARKS	
		a b c d e																
		2 1 2 3																
EF-HSPS-A	E																	
EA171 (PWR)	X																	NEW
EA172 (PWR)	X																	NEW
RL61 (INST)	X																	NEW
RL62 (INST)	X																	NEW
RL63 (INST)	X																	NEW
RL64 (INST)	X																	NEW
RL65 (INST)	X																	NEW
RL66 (INST)	X																	NEW
RL67 (INST)	X																	NEW
RL68 (INST)	X																	NEW
RL69 (INST)	X																	NEW
RL70 (INST)	X																	NEW
RL81 (INST)	X																	NEW
RL121 (INST)	X																	NEW
RL126 (INST)	X																	NEW
EF-HSPS-B	E																	
EA371 (PWR)	X																	NEW
EA372 (PWR)	X																	NEW
RL71 (INST)	X																	NEW
RL72 (INST)	X																	NEW
RL73 (INST)	X																	NEW
RL74 (INST)	X																	NEW
RL75 (INST)	X																	NEW
RL76 (INST)	X																	NEW
RL141 (INST)	X																	NEW
RL141A (CONT)																		NEW
RL142 (CONT)	X																	NEW

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COMPONENTS AND CIRCUITS	H S P S / EMERGENCY FEEDWATER																								REMARKS		
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	T			
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B	B			
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	F	F	F	F	F	F			
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	a	b	c	d	e	A			
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	A	Z	Z	Z	1	1	1	2	3	1	
RL146 (INST)								X																		NEW	
RL148 (CONT)								X																			NEW
EF-HSPS-C									E																		
EA571 (PWR)								X																			NEW
EF-HSPS-D									E																		
EA771 (PWR)								X																			NEW

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COMPONENTS AND CIRCUITS	FEEDWATER (FOR PREVENTION OF OVERFEEDING STEAM GENERATORS)																												REMARKS			
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A		
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F			
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z		
	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
	a		a	b	c				a																							
FW-P-1A																																
GFA1 (CONT)																																
GFA2 (CONT)																																
GFA3 (CONT)																																
GFA4 (CONT)																																
GFA5 (CONT)																																
GFA6 (CONT)																																
GFA7 (CONT)																																
GFA8 (CONT)																																
FW-P-1B																																
GFB1 (CONT)																																
GFB2 (CONT)																																
GFB3 (CONT)																																
GFB4 (CONT)																																
GFB5 (CONT)																																
GFB6 (CONT)																																
GFB7 (CONT)																																
GFB8 (CONT)																																
FW-V-1A																																
CC66 (PWR)																																
CC601 (CONT)																																
CC602 (CONT)																																
CC603 (CONT)																																

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6G
SHEET 2a

COMPONENTS AND CIRCUITS	FEEDWATER (FOR PREVENTION OF OVERFEEDING STEAM GENERATORS)																												REMARKS		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
	1	2	1	2	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
CC604 (CONT)																											X	X			
FW-V-1B																															
CC68 (PWR)																															
CC611 (CONT)																															
CC612 (CONT)																															
CC613 (CONT)																											X	X		X	X
CC614 (CONT)																												X	X		
FW-V-5A																															
CQ101 (PWR)						X	X																								
CQ104 (CONT)						X	X																								
CQ105 (CONT)						X	X						X	X		X	X										X	X			
RL149 (CONT)						X	X						X	X	X												X	X			
RL151 (CONT)																															
CQ661 (CONT)																															
FW-V-5B																															
CR101 (PWR)						X	X	X																							
CR104 (CONT)						X	X	X																							
CR105 (CONT)						X	X	X																							
RL153 (CONT)																												X	X		
RL157 (CONT)																												X	X		
CR661 (CONT)						X	X																					X	X		

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6G
 SHEET 3a

COMPONENTS AND CIRCUITS	FEEDWATER (FOR PREVENTION OF OVERFEEDING STEAM GENERATORS)																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
FW-V-92A																														
CQ106 (PWR)							X	X																						
CQ109 (CONT)							X	X																						
CQ110 (CONT)							X	X						X	X		X	X								X	X			
RL150 (CONT)							X	X						X	X	X										X	X			
RL152 (CONT)																														
FW-V-92B																														
CR106 (PWR)							X	X	X																					
CR109 (CONT)							X	X	X																					
CR110 (CONT)							X	X																			X	X		
RL154 (CONT)																											X			
RL158 (CONT)							X	X																			X			
FW-V-16A																														
RL138 (CONT)																												X		
RL140 (CONT)																												X		
RL141 (CONT)																												X		
RL143 (CONT)																												X		
FW-V-16B																														
RL178 (CONT)																												X		
RL179 (CONT)																														
RL180 (CONT)															X	X		X										X		

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COMPONENTS AND CIRCUITS	FEEDWATER (FOR PREVENTION OF OVERFEEDING STEAM GENERATORS)																				REMARKS	
	D	D	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R		T
	G	G	H	H	H	H	B	B	B	B	B	B	B	B	B	S	S	S	S	S		B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	H		F
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	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	A	
																	2	1	2	3		
FW-P-1A																					E	
GFA1 (CONT)																					X	
GFA2 (CONT)																						
GFA3 (CONT)																					X	
GFA4 (CONT)																					X	
GFA5 (CONT)																					X	
GFA6 (CONT)																					X	
GFA7 (CONT)																					X	
GFA8 (CONT)																						
FW-P-1B																					E	
GFB1 (CONT)																					X	
GFB2 (CONT)																						
GFB3 (CONT)																					X	
GFB4 (CONT)																					X	
GFB5 (CONT)																					X	
GFB6 (CONT)																					X	
GFB7 (CONT)																					X	
GFB8 (CONT)																						
FW-V-1A																					E	
CC66 (PWR)																					X	
CC601 (CONT)																					X	
CC602 (CONT)																					X	
CC603 (CONT)																					X	

COMPONENTS AND CIRCUITS	FEEDWATER (FOR PREVENTION OF OVERFEEDING STEAM GENERATORS)																								REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T	
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B	B	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z		
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8									
CC604 (CONT)																									
FW-V-1B																								E	
CC68 (PWR)																								X	
CC611 (CONT)																								X	
CC612 (CONT)																								X	
CC613 (CONT)																								X	
CC614 (CONT)																									
FW-V-5A																								E	
CQ101 (PWR)		X													X									X	
CQ104 (CONT)		X													X									X	
CQ105 (CONT)		X																							
RL149 (CONT)		X				X	X																		
RL151 (CONT)						X																			
CQ661 (CONT)						X																			
FW-V-5B															E										
CR101 (PWR)								X	X	X	X	X	X	X	X										
CR104 (CONT)								X	X	X	X	X	X	X	X										
CR105 (CONT)			X	X		X																			
RL153 (CONT)						X																			
RL157 (CONT)			X	X		X																			
CR661 (CONT)						X																			

COMPONENTS AND CIRCUITS	FEEDWATER (FOR PREVENTION OF OVERFEEDING STEAM GENERATORS)																										REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	T		
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B	B	B	B		
	F	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	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	1	1	1	1	1	2	3	1	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	2	1	2	3	a	b	c	d	e		
FW-V-92A																										E	
CQ106 (PWR)			X													X										X	
CQ109 (CONT)			X													X										X	
CQ110 (CONT)			X				X																				
RL150 (CONT)			X			X	X																				
RL152 (CONT)						X																					
FW-V-92B																E											
CR106 (PWR)							X	X	X	X	X	X	X	X													
CR109 (CONT)							X	X	X	X	X	X	X	X													
CR110 (CONT)			X	X		X																					
RL154 (CONT)						X																					
RL158 (CONT)			X	X		X																					
FW-V-16A																										E	
RL138 (CONT)																											
RL140 (CONT)																										X	
RL141 (CONT)						X																					
RL143 (CONT)																											
FW-V-16B																E											
RL178 (CONT)						X																					
RL179 (CONT)						X																					
RL180 (CONT)			X			X	X		X		X		X	X													

COMPONENTS AND CIRCUITS	FEEDWATER (FOR PREVENTION OF OVERFEEDING STEAM GENERATORS)																												REMARKS	
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	R	T				
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B	B	B	B	B	B			
	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	F	F		
A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	1	1	1	1	1	2	3	1				
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	A	Z	Z	Z	a	b	c	d	e					
FW-V-17A																												E		
RL138 (CONT)																														
RL141 (CONT)						X																								
RL143 (CONT)																														
RL144 (CONT)																											X			
FW-V-17B															E															
RL178 (CONT)						X																								
RL179 (CONT)						X																								
RL181 (CONT)		X			X	X		X		X		X	X																	

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COMPONENTS AND CIRCUITS	MAIN STEAM																												REMARKS		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B
MS-V-3A, 3B, 3C, 3D, 3E, & 3F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
RF33 (INST)																															
RF34 (INST)																															
RF35 (INST)																															
RF36 (INST)																															
RF37 (INST)																															
RF38 (INST)																															
RF163 (CONT)																															
RF166 (CONT)																															
RF167 (CONT)																															
RF168 (CONT)																															
RF169 (CONT)																															
RF170 (CONT)																															
RF171 (CONT)																															
RF213 (CONT)																															
MS-V-8A																															
CS51A (PWR)																															CS51 WAS SPARED
CS321 (PWR)																															
CS322 (CONT)																															
CS322A (CONT)																															
CS322B (CONT)																															
CS322C (CONT)																															
CS323 (CONT)																															
CS325 (CONT)																															
CS264 (CONT)																															

APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
 CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6H
 SHEET 2a

COMPONENTS AND CIRCUITS	MAIN STEAM																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
MS-V-8B																														
CS52A(PWR)																														
CS264 (CONT)																														
CS331A (CONT)																														
CS332 (CONT)																														
CS332A (CONT)																														
CS332D (CONT)																														
CS333 (CONT)																														
CS335 (CONT)																														
MS-V-4A																														
RF31 (INST)																														
RF132 (PWR)																														
RF146 (INST)																														
RF147 (INST)																														
RF147A (INST)																														
RF149 (INST)																														
RF149A (INST)																														
RF159 (INST)																														
RF161 (INST)																														
AR1509 (INST PWR)																														
MS-V-4B																														
AR1521 (PWR)																														
EA311 (PWR)																														
AR1500 (INST PWR)																														
RF213 (CONT)																														

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COMPONENTS AND CIRCUITS	MAIN STEAM																								REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z		
	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1		
	a		a	b	c				a																	
RF32 (INST)																										
RF155 (INST)																										
RF156 (INST)																										
RF158 (INST)																										
RF158A (INST)																										
RF160 (INST)																										
RF162 (INST)																										
MS-V-2A																										
CS351 (CONT)																										
CS352 (CONT)																										
MS-V-2B																										
CS401 (CONT)																										
CS402 (CONT)																										

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COMPONENTS AND CIRCUITS	MAIN STEAM																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
MS-V-10A	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	REQUIRED FOR EF-P-1
ED531 (PWR)	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
ED532 (PWR)																														
ED533 (PWR)																														
ED534 (CONT)																														
ED535 (CONT)																														
ED536 (PWR)																														
ED537 (CONT)																														
MS-V-10B																														REQUIRED FOR EF-P-1
ED721 (PWR)																														
ED722 (PWR)																														
ED723 (PWR)																														
ED724 (CONT)																														
ED725 (CONT)																														
ED726 (PWR)																														
ED727 (CONT)																														
MS-V-13A																														REQUIRED FOR EF-P-1
RV841 (CONT)																														
RV844 (CONT)																														
RV849 (CONT)																														
RL121 (CONT)																														NEW
RL213 (CONT)																														NEW
RL214 (CONT)																														NEW

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APPENDIX R EVALUATION REPORT-THREE MILE ISLAND UNIT 1
CABLES & COMPONENT IN FIRE AREA/ZONE

ATTACHMENT 3-6H
SHEET 5a

COMPONENTS AND CIRCUITS	MAIN STEAM																												REMARKS	
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	a		a	b	c					a																				
MS-V-13B																														
RV856 (CONT)																														
RV858 (CONT)																														
RV864 (CONT)																														
RL142 (CONT)																														
RL210 (CONT)																														
RL211 (CONT)																														
RL212 (CONT)																														
AS-V-4																														
CE311 (CONT)																														
CE312 (CONT PWR)																														
CE314 (CONT)																														

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COMPONENTS AND CIRCUITS	MAIN STEAM																								REMARKS	
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	T		
	G	H	H	H	H	H	B	B	B	B	B	B	S	S	S	S	B	B	B	B	B	B	B	B		
	A	A	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	1	1	1	2	3	1	
MS-V-3A, 3B, 3C, 3D, 3E, & 3F																									E	
RF33 (INST)																									X	
RF34 (INST)																									X	
RF35 (INST)																									X	
RF36 (INST)																									X	
RF37 (INST)																									X	
RF38 (INST)																									X	
RF163 (CONT)																									X	
RF166 (CONT)																									X	
RF167 (CONT)																									X	
RF168 (CONT)																									X	
RF169 (CONT)																									X	
RF170 (CONT)																									X	
RF171 (CONT)																									X	
RF213 (CONT)																									X	
MS-V-8A																										
CS51A (PWR)																										CS51 WAS SPARED
CS321 (PWR)																										
CS322 (CONT)																										
CS322A (CONT)																										REROUTED BY RSD
CS322B (CONT)																										NEW
CS322C (CONT)																										NEW-ISOLATED FOR RSD
CS323 (CONT)																										NEW-REQUIRED ONLY FOR RSD
CS325 (CONT)																										NEW-REQUIRED ONLY FOR RSD
CS264 (CONT)																										NEW-REQUIRED ONLY FOR RSD

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COMPONENTS AND CIRCUITS	MAIN STEAM																								REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T			
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B		
MS-V-8B									E																
CS52A (PWR)			X						X	X					X										
CS264 (CONT)			X	X		X																			
CS331A (CONT)			X						X	X					X										
CS332 (CONT)			X					X																	
CS332A (CONT)																									
CS332D (CONT)																									
CS333 (CONT)			X																						
CS335 (CONT)																									
MS-V-4A									E																
RF31 (INST)								X			X											X			
RF132 (PWR)																									
RF146 (INST)																									
RF147 (INST)																									
RF147A (INST)																									
RF149 (INST)																									
RF149A (INST)																									
RF159 (INST)																									
RF161 (INST)																									
AR1509 (INST PWR)																									
MS-V-4B									E																
AR1521 (PWR)																									
EA311 (PWR)																									
AR1500 (INST PWR)																									
RF213 (CONT)																									

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COMPONENTS AND CIRCUITS	MAIN STEAM																								REMARKS				
	D	D	F	F	F	F	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T								
	G	G	H	H	H	H	B	B	B	B	B	B	S	S	S	B	B	B	B	B	B	B	B	B					
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F						
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	Z	Z	Z	Z	A						
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	2	1	2	3	a	b	c	d	e				
RF32 (INST)										X	X			X															
RF155 (INST)																													
RF156 (INST)																													
RF158 (INST)						X																							
RF158A (INST)																													
RF160 (INST)																													
RF162 (INST)																													
MS-V-2A											E																		
CS351 (CONT)			X							X	X																		
CS352 (CONT)			X				X																						
MS-V-2B											E																		
CS401 (CONT)			X			X				X	X																		
CS402 (CONT)			X			X																							

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COMPONENTS AND CIRCUITS	MAIN STEAM																								REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	T	
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	S	B	
MS-V-10A																									REQUIRED FOR EF-P-1
ED531 (PWR)																									
ED532 (PWR)																									
ED533 (PWR)																									
ED534 (CONT)																									
ED535 (CONT)																									
ED536 (PWR)																									
ED537 (CONT)																									
MS-V-10B																									REQUIRED FOR EF-P-1
ED721 (PWR)																									
ED722 (PWR)																									
ED723 (PWR)																									
ED724 (CONT)																									
ED725 (CONT)																									
ED726 (PWR)																									
ED727 (CONT)																									
MS-V-13A																									REQUIRED FOR EF-P-1
RV841 (CONT)																									
RV844 (CONT)																									
RV849 (CONT)																									
RL121 (CONT)																									NEW
RL213 (CONT)																									NEW
RV214 (CONT)																									NEW

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COMPONENTS AND CIRCUITS	MAIN STEAM																				REMARKS	
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	R	R	R	R	R		T
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	S	S	S	S	S	S		B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	H	H	H	H	H	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	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	
																	a	b	c	d	e	
MS-V-13B									E													
RV856 (CONT)																						
RV858 (CONT)								X	X													
RV864 (CONT)								X														
RL142 (CONT)						X															NEW	
RL210 (CONT)						X															NEW	
RL211 (CONT)																					NEW	
RL212 (CONT)																					NEW	
AS-V-4								E														
CE311 (CONT)						X		X			X										X	
CE312 (CONT PWR)								X														
CE314 (CONT)						X																

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COMPONENTS AND CIRCUITS	DECAY HEAT REMOVAL																												REMARKS				
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A			
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B		
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F				
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z				
	1	2	1	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	1	2	2	2	2	2	3	3	3	4	4	5	5	
	a	a	b	b	c				a					0	1	1	1	1	1	a	b	c	d	e	f	g	a	b	c	d	a	b	
CS191A (CONT)																																	
CS192 (CONT)																													X		X		
CS193 (CONT)																												X					
DH-V-3								E																									
CS22 (PWR)								X																									
CS221 (CONT)								X																									
CS222 (CONT)																														X		X	
DH-V-4A								E																									
CQ4 (PWR)								X	X																								
CQ171 (CONT)								X	X																								
CQ172 (CONT)								X	X								X	X								X			X		X		
CQ173 (CONT)								X	X								X	X	X							X		X	X	X			
DH-V-4B								E																									
CR4 (PWR)								X	X	X																							
CR171 (CONT)								X	X	X																							
CR172 (CONT)								X	X								X	X	X	X								X		X			
CR173 (CONT)								X	X																		X	X	X	X			

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COMPONENTS AND CIRCUITS	DECAY HEAT REMOVAL																												REMARKS			
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A		
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B	
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F			
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z			
	1	2	1	2	2	2	3	4	5	6	6	7	8	9	1	1	1	1	1	1	2	2	2	2	2	3	3	3	4	4	5	5
	a																															
DH-V-5A									E																							
CQ11 (PWR)									X	X																						
CQ251 (CONT)									X	X																						
CQ252 (CONT)									X	X								X	X							X		X	X			
CQ253 (CONT)										X								X	X	X							X	X	X			
DH-V-5B									E																							
CR11 (PWR)									X	X																						
CR251 (CONT)									X	X																						
CR252 (CONT)									X	X								X	X	X		X					X		X			
CR253 (CONT)																											X	X	X	X		
DH-V-6A	E																															
CQ12 (PWR)	X								X	X																						
CQ261 (CONT)	D								D	D	D																					
CQ262 (CONT)									X	X								X	X							X		X	X			
DH-V-6B	E																															
CR12 (PWR)	X								X	X																						
CR261 (CONT)	D								D	D	D																					
CR262A (CONT)									X	X	P	X						X	X	X	X					X		X				

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COMPONENTS AND CIRCUITS	DECAY HEAT REMOVAL																												REMARKS		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B
DH-V-12A	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	MECHANICAL-MANUAL
DH-V12B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	MECHANICAL-MANUAL
BS-V-3A	E																														MANUAL
CQ5 (PWR)	X					X	X																								
CQ201 (CONT)	X					X	X	X																							
CQ202 (CONT)						X	X					X	X											X		X	X	X			
CQ203 (CONT)												X	X	X											X	X	X	X			
BS-V-3B	E																														MANUAL
CR203 (CONT)																									X	X	X	X			
CR202 (CONT)							X	X					X	X	X	X										X	X	X	X		
CR201 (CONT)		X					X	X																							
CR5 (PWR)	X						X	X																							
BS-V-2A						E																									MANUAL
CQ151 (CONT)						X	X	X																							
CQ152 (CONT)						X	X					X	X												X		X	X	X		
CQ153 (CONT)												X	X	X												X	X	X	X		

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COMPONENTS AND CIRCUITS	DECAY HEAT REMOVAL																												REMARKS		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B
BS-V-2B																															MANUAL
CR153 (CONT)																															
CR152 (CONT)																															
CR151 (CONT)																															
DH-V-75A	E																														MANUAL
RE387 (CONT)																															
RE388 (CONT & IND)	X																														
RE389 (CONT)	X																														
DH-V-75B	E																														MANUAL
RE394 (CONT)																															
RE395 (CONT)	X																														
RE396 (CONT)	X																														
DH-V-76A	E																														MANUAL
RE387 (CONT)																															
RE388 (CONT & IND)	X																														
RE391 (CONT)	X																														
DH-V-76B	E																														MANUAL
RE394 (CONT)																															
RE395 (CONT)	X																														
RE398 (CONT)	X																														

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COMPONENTS AND CIRCUITS	DECAY HEAT REMOVAL																												REMARKS		
	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		A	A
	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B		B	B
	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	
	1	2	1	2	2	2	3	4	5	6	6	7	8	9	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	
DH-V-7A																															
CQ13 (PWR)																															
CQ271 (CONT)																															
CQ272 (CONT)																															
DH-V-7B																															
CR13 (PWR)																															
CR271 (CONT)																															
CR272 (CONT)																															

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COMPONENTS AND CIRCUITS	DECAY HEAT REMOVAL																								REMARKS	
	D G	D G	F H	F H	F H	F H	F H	F H	I B	I B	I B	I B	I B	I B	I S	I S	I S	I S	R B	R B	R B	R B	R B	R B		T B
	F A	F A	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F H	F H	F H	F H	F Z	F Z	F Z	F Z	F Z	F Z	F A	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	A	Z	Z	1	1	1	1	2	3	1
CS191A (CONT)																			X	X	X			X		
CS192 (CONT)			X																							X
CS193 (CONT)			X	X			X																			
DH-V-3																										MANUAL
CS22 (PWR)			X																							
CS221 (CONT)			X																							
CS222 (CONT)			X				X																			X
DH-V-4A																										MANUAL
CQ4 (PWR)																										
CQ171 (CONT)																										
CQ172 (CONT)			X					X																		
CQ173 (CONT)																										
DH-V-4B																										MANUAL
CR4 (PWR)																										
CR171 (CONT)																										
CR172 (CONT)			X	X			X																			
CR173 (CONT)																										

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COMPONENTS AND CIRCUITS	DECAY HEAT REMOVAL																				REMARKS				
	D G	D G	F H	F H	F H	F H	F H	F H	I B	I B	I B	I B	I B	I B	I S	I S	I S	R B	R B	R B		R B	R B	R B	T B
	F A	F A	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F Z	F H	F H	F H	F Z	F Z	F Z	F Z	F Z	F Z	F A	
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	A	Z	Z	a	b	c	d	e	1
DH-V-12A																									MECHANICAL-MANUAL
DH-V12B																									MECHANICAL-MANUAL
BS-V-3A																									MANUAL
CQ5 (PWR)																									
CQ201 (CONT)																									
CQ202 (CONT)			X					X																	
CQ203 (CONT)																									
BS-V-3B																									MANUAL
CR203 (CONT)																									
CR202 (CONT)			X	X			X																		
CR201 (CONT)																									
CR5 (PWR)																									
BS-V-2A																									MANUAL
CQ151 (CONT)																									
CQ152 (CONT)			X					X																	
CQ153 (CONT)																									

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COMPONENTS AND CIRCUITS	DECAY HEAT REMOVAL																								REMARKS		
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	T				
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	B	B	S	S	S	S	S	S	B				
	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
	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	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	2	3	1
																	2	1	2	3	a	b	c	d	e		
BS-V-2B																											MANUAL
CR153 (CONT)																											
CR152 (CONT)			X	X			X																				
CR151 (CONT)																											
DH-V-75A																											MANUAL
RE387 (CONT)																											
RE388 (CONT & IND)			X					X																			
RE389 (CONT)																											
DH-V-75B																											MANUAL
RE394 (CONT)																											
RE395 (CONT)			X	X				X																			
RE396 (CONT)																											
DH-V-76A																											MANUAL
RE387 (CONT)																											
RE388 (CONT & IND)			X					X																			
RE391 (CONT)																											
DH-V-76B																											MANUAL
RE394 (CONT)																											
RE395 (CONT)			X	X				X																			
RE398 (CONT)																											

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COMPONENTS AND CIRCUITS	DECAY HEAT REMOVAL																												REMARKS
	D	D	F	F	F	F	F	I	I	I	I	I	I	I	I	I	I	R	R	R	R	R	R	R	R	T			
	G	G	H	H	H	H	H	B	B	B	B	B	B	B	B	S	S	S	S	B	B	B	B	B	B	B	B	B	
	F	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		
	A	A	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	A	Z	Z	Z	a	b	c	d	e			
	1	2	1	2	3	4	5	6	1	2	3	4	5	6	7	8	2	1	2	3	1	1	1	1	2	3	1		
DH-V-7A																													MANUAL
CQ13 (PWR)																													
CQ271 (CONT)																													
CQ272 (CONT)			X					X																					
DH-V-7B																													MANUAL
CR13 (PWR)																													
CR271 (CONT)																													
CR272 (CONT)			X	X			X																						

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