

OPERATING TEST NO.: Primary Scenarios

Applicant Type	Evolution Type	Minimum Number	Scenario Number					
			1 (501)		2 (401)		3 (301)	
			RO	BOP	RO	BOP	RO	BOP
RO	Reactivity	1*						
	Normal	1*		1		1		1
	Instrument / Component	4*	3,4,5	2,3,5,7,8,9	3	2,4,6,7,8,9	3,5,6,9	2,4,8,11
	Major	1	6	6,10	5	5,10		7,10

As RO	Reactivity	1*						
	Normal	0		1		1		1
	Instrument / Component	2*	3,4,5	2,3,5,7,8,9	3	2,4,6,7,8,9	3,5,6,9	2,4,8,11
	Major	1	6	6,10	5	5,10		7,10

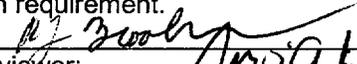
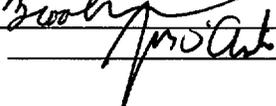
SRO-I

As SRO	Reactivity	0						
	Normal	1*		1		1		1
	Instrument / Component	2*	3,4	2,5,7,8,9	3	2,4,6,7,8,9	3,5,6,9	2,4,8,11
	Major	1		6,10	5	10		7,10

SRO-U

SRO-U	Reactivity	0						
	Normal	1*		1		1		1
	Instrument / Component	2*	3,4	2,5,7,8,9	3	2,4,6,7,8,9	3,5,6,9	2,4,8,11
	Major	1		6,10	5	10		7,10

- Instructions:
- (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
 - (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.45.d) but must be significant per Section C.2.a of Appendix D. * Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one for-one basis.
 - (3) Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirement.

Author: 
 NRC Reviewer: 

OPERATING TEST NO.: Backup Scenarios

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			4 (601)		5 (302)	
			RO	BOP	RO	BOP
RO	Reactivity	1*	4			
	Normal	1*		1	1	1
	Instrument / Component	4*	3	3,7,8	3,4,5	2,4,5,6,7
	Major	1	5,6	5,6	8	8,9

As RO	Reactivity	1*	4			
	Normal	0		1	1	1
	Instrument / Component	2*	3	3,7,8	3,4,5	2,4,5,6,7
	Major	1	5,6	5,6	8	8,9

SRO-I

As SRO	Reactivity	0	4			
	Normal	1*		1	1	
	Instrument / Component	2*		2,3,7,8	3,4	2,5,6,7
	Major	1	5,6		8	9

SRO-U	Reactivity	0	4			
	Normal	1*		1	1	
	Instrument / Component	2*		2,3,7,8	3,4	2,5,6,7
	Major	1	5,6		8	9

- Instructions:
- (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
 - (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.45.d) but must be significant per Section C.2.a of Appendix D. * Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
 - (3) Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirement.

Author: *[Signature]*
 NRC Reviewer: *[Signature]*

Facility: SUSQUEHANNA	Date of Examination: 8/09-8/13 2004
Exam Level (circle one): SRO-I	Operating Test No.: N/A

Control Room Systems (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)		
System / JPM Title	Type Code*	Safety Function
202002 A2.05 3.1/3.1 64.OP.007.151 Reset the Fluid Drive Scoop Tube Lock (OP-164-001)	D, A, S	1
261000 A3.01 3.2/3.3 Perform a Manual Startup of the SGTS in Accordance With OP-070-001	N, E, A, S	9
264000 A4.04 3.7/3.7 Manually Synchronize Diesel Generator "A" to 4.16KV Bus 1A from Panel OC653 in Accordance With OP-024-001	D, E, S	6
295028 EA1.03 3.9/3.9 Reset Drywell Cooling Isolation and Restore Drywell Cooling IAW ES-134-001 (Control Room Actions)	D, E, L, S	7
295037 EA1.11 3.5/3.6 Bypass MSIV and CIG Interlocks During An ATWS And Restore CIG (OP-184-001)	D, E, L, S	5
295018 AA1.03 3.3/3.4 Place Standby RBCCW Pump In Service IAW OP-114-001 (Pump casing drain line leak develops)	N, A, S	8
206000 A4.13 4.1/4.0 Recovery from a Manual Closure of HPCI Isolation Valves With an Initiation Signal Present With a Steam Leak Developing. (OP-152-001)	D, E, A, S	4
In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)		
262002 A4.01 2.8/3.1 Place The Vital AC Uninterruptible Power Supply AC System In Service In Accordance With OP-157-001	M	6
212000 A1.01 2.8/2.9 Start RPS MG Set 2S237A from Local Control Panel 2G201A IAW OP-258-001	E, M, R, A	7
201002 K1.06 3.2/3.3 Bypass Control Rod at Rod Drive Control Cabinet (RDCC) (OP-256-001)	E/A, M	1
* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA, (E/A)Emergency/Abnormal, (E)SF		

Facility: SUSQUEHANNADate of Examination: 8/09-8/13 2004Exam Level (circle one): **RO**Operating Test No.: N/A

Control Room Systems (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)

System / JPM Title	Type Code*	Safety Function
202002 A2.05 3.1/3.1 64.OP.007.151 Reset the Fluid Drive Scoop Tube Lock (OP-164-001)	D, A, S	1
261000 A3.01 3.2/3.3 Perform a Manual Startup of the SGTS in Accordance With OP-070-001	N, E, A, S	9
264000 A4.04 3.7/3.7 Manually Synchronize Diesel Generator "A" to 4.16KV Bus 1A from Panel OC653 in Accordance With OP-024-001	D, E, S	6
295028 EA1.03 3.9/3.9 Reset Drywell Cooling Isolation and Restore Drywell Cooling IAW ES-134-001 (Control Room Actions)	D, E, L, S	7
295037 EA1.11 3.5/3.6 Bypass MSIV and CIG Interlocks During An ATWS And Restore CIG (OP-184-001)	D, E, L, S	5
259001 A2.07 3.7/3.8 Perform Switching Feedwater Level Control 45.OP.013.151 (OP-145-001)	D, A, S	2
295018 AA1.03 3.3/3.4 Place Standby RBCCW Pump In Service IAW OP-114-001 (Pump casing drain line leak develops)	N, A, S	8
206000 A4.13 4.1/4.0 Recovery from a Manual Closure of HPCI Isolation Valves With an Initiation Signal Present With a Steam Leak Developing. (OP-152-001)	D, E, A, S	4

In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)

262002 A4.01 2.8/3.1 Place The Vital AC Uninterruptible Power Supply AC System In Service In Accordance With OP-157-001	M	6
212000 A1.01 2.8/2.9 Start RPS MG Set 2S237A from Local Control Panel 2G201A IAW OP-258-001	E M, R, A	7
201002 K1.06 3.2/3.3 Bypass Control Rod at Rod Drive Control Cabinet (RDCC) (OP-256-001)	E/A, M	1

* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA, (E/A)Emergency/Abnormal, (E)SF

Facility: **SUSQUEHANNA**Date of Examination: **8/09-8/13 2004**Exam Level (circle one): **SRO-U**Operating Test No.: **N/A**

Control Room Systems (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)

System / JPM Title	Type Code*	Safety Function
261000 A3.01 3.2/3.3 Perform a Manual Startup of the SGTS in Accordance With OP-070-001	N, E, A, S	9
295037 EA1.11 3.5/3.6 Bypass MSIV and CIG Interlocks During An ATWS And Restore CIG (OP-184-001)	D, E, L, S	5

In-Plant Systems (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)

262002 A4.01 2.8/3.1 Place The Vital AC Uninterruptible Power Supply AC System In Service In Accordance With OP-157-001	M	6
212000 A1.01 2.8/2.9 Start RPS MG Set 2S237A from Local Control Panel 2G201A IAW OP-258-001	E M, R, A	7
201002 K1.06 3.2/3.3 Bypass Control Rod at Rod Drive Control Cabinet (RDCC) (OP-256-001)	E/A, M	1

* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA, (E/A)Emergency/Abnormal, (E)SF

Facility: SUSQUEHANNADate of Examination: 08/09-08/13 2004Examination Level (circle one): **RO**Operating Test Number: N/A

Administrative Topic (See Note)	Describe activity to be performed
Conduct of Operations	2.1.20 4.3 NEW JPM Fill Out An Aborted Evolution Control Form.
Conduct of Operations	2.1.33 3.4 NEW JPM Perform Drywell sump calculation and determine if leakage is less than Tech. Spec LCO.
Equipment Control	2.2.12 3.0 NEW JPM Determine Jet pump operability.
Radiation Control	2.3.10 2.9 NEW JPM Determine Radiological blocking points for a planned containment entry with the plant at 10% power.
Emergency Plan	N/A
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.	

Facility: SUSQUEHANNA Date of Examination: 08/09-08/13 2004
 Examination Level (circle one): SRO Operating Test Number: N/A

Administrative Topic (See Note)	Describe activity to be performed
Conduct of Operations	2.1.25 3.1 NEW JPM Evaluate/Validate Seismic Monitor System Trigger (SSE leading to Alert E-plan Classification)
Conduct of Operations	2.1.33 4.0 NEW JPM Perform Drywell sump calculation and determine if leakage is less than Tech. Spec LCO.
Equipment Control	2.2.22 4.1 NEW JPM Determine Tech Spec required actions for single loop operations at 28% power AND additional Tech Spec actions to raise power under these conditions
Radiation Control	2.3.10 2.9 NEW JPM Determine Radiological blocking points for a planned containment entry with the plant at 10% power. Identify additional power restrictions/controls for the entry.
Emergency Plan	2.4.44 4.0 NEW JPM Complete ENS and PAR State notification forms (requires PAR determination).
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.	