Facility: **Perry** Scenario No.: **1-93%** Op-Test No.: **2013-01**

Examiners: _____ Operators: _____ SRO
_____ _____ ATC
_____ _____ BOP

Initial Conditions: Reactor power was lowered to ~93% power two hours ago for Quarterly Turbine Stop and Control Valve SVI (which was just completed last shift). M29 Boiler is out of service for repair. NCC B pump is OOS to replace motor. IOI-3 Attachment 3 at Step 2.0, rods at Step 69. A Severe Thunderstorm Watch is in effect for Lake County. PSA Risk is Green. Grid is Normal

Turnover: Start ECC B pump for vibration testing (Maintenance Engineering is waiting). When concurrence granted from WCC, restore Rx Power per IOI-3 to 100%.

Event No.	Malf. No.	Event Type*	Event Description
1		N (BOP/ SRO)	Start ECC B pump
2		R (ATC/ SRO)	Raise Rx power with flow to 100%
3	CP03_1P42C0001B	C (BOP) C (SRO)	ECC B Pump slow degradation, Enter TS 3.7.10
4	B21n0073g	C (BOP) C (SRO)	Small OBE Earthquake. Enter ONI-D51 Earthquake Inadvertent HPCS initiation. Enter ONI-E12-1 Inadvertent Initiation of ECCS or RCIC. Enter ONI-C51 on HPCS injection. Enter T.S. 3.5.1
5		M (ALL) C (BOP/ SRO) R (ATC/ SRO)	Large OBE Earthquake causes failure of SJAE (H2 recombiner leak). Enter ONI-D51, ONI-D17 & ONI-N11 Lower Rx power with Flow then insert manual Rx scram
6	Zd1c71s1	M (ALL) C (ATC/ SRO)	Earthquake causes loss of RPV Level Indication (L8) resulting in loss of FW & HPCS. Enter EOP-1 RPV control. Mode switch fails
7	Rv04_1b21f0051c	M (ALL) C (BOP/ SRO)	Enter EOP-04-4 RPV Flooding ADS SRV fails to open.

* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor

Facility: **Perry** Scenario No.: **2- 100%** Op-Test No.: **2013-01**

Examiners: _____ Operators: _____ SRO
_____ _____ ATC
_____ _____ BOP

Initial Conditions: Reactor is at full power. RHR B was tagged out of service yesterday for valve work. RHR C breaker was racked out late last shift due to observation of nicked control power wire in breaker cubicle. TS 3.5.1 Condition C was entered 2 hours ago. Efforts are in progress to restore RHR B or C to Operable status. M29 Boiler is out of service for repair. SWC B pump is OOS due to high vibrations – awaiting new motor. IOI-3 Section 4.5 is complete, rods at Step 69. Unusually low ambient temperatures are predicted for today. Very low load on grid today.

Turnover: Shift TBCC pumps to equalize run time. When concurrence granted from WCC and Plant Manager, commence Rx Power reduction per IOI-3 for low grid load.

Event No.	Malf. No.	Event Type*	Event Description
1		N (BOP/ SRO)	Shift TBCC pumps
2		R (ATC/ SRO)	Lower Rx power with flow
3	Cb01_1n21 c0002b	C (ATC/ SRO)	Condensate booster pump B trip
4	CP03_0P4 3C0001B	C (BOP/ SRO)	NCC B Pump degradation / trip. Enter ONI-P43
5	RP01A	C (BOP) C (ATC) C (SRO)	Loss of RPS Bus A. Enter ONI-C71-2 Enter ORM 6.3.1 Testing Requirement 5
6		M (ALL) C (BOP) C (SRO)	Steam Leak in Steam Tunnel. Enter EOP-3, Plant scram on MSIV Closure due to high tunnel temperature with MSL A failure to isolate. ATWS – enter EOP-1 and EOP-1A Enter T.S. 3.6.1.3
7	TH25 MS01A & MS01E	C (BOP/ SRO)	SRV failure to open during manual operations while controlling Rx pressure with SRVs.
8		M (ALL)	Emergency Depressurization on lowering Rx level – EOP-4-2

* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor

Facility: **Perry** Scenario No.: **3- 71%** Op-Test No.: **2013-01**

Examiners: _____ Operators: _____ SRO
_____ _____ ATC
_____ _____ BOP

Initial Conditions: Yesterday Reactor power was reduced to ~63% due to degrading vacuum caused by debris on the Circ Water screens. Cleaning of Circ Water screens A & C is complete. Power ascension will follow Circ Water Pump shift. IOI-3 Att. 3 Step 2.4, rods at Step 69. Unusually low ambient temperatures are predicted for today. HPCS is out of service for motor replacement - in day 7 of a 14 day LCO – TS 3.5.1, Condition B. Stator Water Cooling Pump is out of service for high vibrations. PSA Risk is Green. Grid is Normal.

Turnover: Shift Circulating Water pumps from A/B to A/C to allow Maintenance to clean the B pump inlet screen. When concurrence granted from WCC and Plant Manager, commence Rx Power ascension per IOI-3.

Event No.	Malf. No.	Event Type*	Event Description
1		N (BOP/ SRO)	Shift Circulating Water pumps
2		R (ATC/ SRO	Raise Rx power with flow
3	1H13P800 3AD6	C (BOP/ SRO)	Hi vibrations on DW Cooling Fan 2A
4	NM04A	I (ATC) I (SRO)	APRM A fails upscale TS 3.3.1.1 & ORM 6.2.1
5	Cb01_1b33 s101B	C (ATC/ SRO)	Recirc Pumps down shift to Slow → Enter ONI-C51
6	TH21A Ry02-1c71k14A-H	C (ATC/ SRO)	Power Oscillations → Enter EOP-1 on failure to scram
7	RD15, cb04_1e12 c0002a	M (ALL) C (ATC/ SRO) C (BOP/ SRO)	ATWS, loss of high pressure injection → Enter EOP-1A Rod Gang Drive fails (Selects Individual Drive) RHR A pump fails to start on Terminate & Prevent
8		M (ALL)	Emergency Depressurization
9	Pt01_1b21 n0091e	C (BOP/ SRO)	CRD Pump trip

* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor