Facility: Perry **Scenario No.: 1 - 100%** **Op-Test No.: 2019-1**

Examiners: _____ **Operators:** _____ **(SRO)**
_____ _____ **(ATC)**
_____ _____ **(BOP)**

Initial Conditions: Plant is at 100% power. Stator Water Pump B Pump is tagged out due to oil leak. ESW A & ECC A are running. I&C tech is performing SVI-D23-T1213, Suppression Pool Average Temperature. eSOMS Narrative Log is down. PRA Risk is Green and the Grid Risk is Normal

Planned Activities: Start RCIC in CST to CST Mode for vibration testing. Page Jeff Reeves when RCIC is running. NLO has been briefed and is on station to support pump start. When contacted by SCC, lower power to 93% per the Reactivity Plan and IOI-3 Power Maneuvering, for upcoming surveillances. Make any Narrative Log entries on your note pads.

Critical Tasks: 1) Insert control rods.
2) Start HPCS to recover RPV level.
3) Close MSIVs before exceeding 100 °F/Hr. Cooldown rate

Event No.	Malf. No.	Event Type*	Event Description
1		N(BOP) N(SRO)	Start RCIC in CST to CST Mode
2		R(ATC) R(SRO)	Lower Power with Rx Recirc flow to 93%
3		C(ATC) C(SRO)	Hotwell Pump A Headloss – Shift Hotwell pumps
4		C(BOP) C(SRO) TS(SRO)	RCIC CST Level instrument fails low – RCIC fails to complete shift to SP from CST. T.S. 3.3.5.2 & T.S. 3.5.3 & 3.3.6.1
5		C(BOP) C(SRO) TS(SRO)	Inadvertent HPCS initiation due to failed RPV level transmitters. T.S. 3.5.1 & T.S. 3.3.5.1
6		M(ALL)	Loss of Feedwater
7		C(ATC)	RPS fails in AUTO and MANUAL – ARI fails in AUTO - ARI works in Manual
8		C(BOP)	HPCS fails to auto start @ L2 – Start HPCS manually.
9		C(ATC)	Bypass valve #1 fails open – Close MSIV before 500 psig

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

Facility: Perry **Scenario No.:** 2 - 85% **Op-Test No.:** 2019-1

Examiners: _____ **Operators:** _____ (SRO)
_____ _____ (ATC)
_____ _____ (BOP)

Initial Conditions: Plant is at 85% power. Containment Pressure transmitter 1E12-N062D failed its Surveillance as it could not be adjusted within the allowable value yesterday. PLCO (P19-E12-010) has been generated. eSOMS Narrative Log is down. PRA Risk is Green and the Grid Risk is Normal.

Planned Activities: Shift Fuel Handling Building Exhaust Fans A/C to B/C for planned work. When contacted by SCC raise power to 93% per the Reactivity Plan and IOI-3 Power Maneuvering and hold there for upcoming surveillances. Make any Narrative Log entries on your note pads.

Critical Tasks: 1) Isolate leak into Sec. Containment.
2) Isolate Main Steam to SJAE.
3) Insert Control Rods

Event No.	Malf. No.	Event Type*	Event Description
1		N(BOP) N(SRO)	Shift Fuel Handling Building Exhaust fans
2		TS(SRO)	Containment Spray Cont. Press transmitter failure. T.S. 3.3.6.2
3		C(BOP) C(SRO) TS(SRO)	AEGT A Controller failure T.S. 3.6.4.1 and 3.6.4.3
4		C(ATC) C(SRO)	APRM D fails downscale
5		C(ATC) C(BOP) C(SRO)	RWCU leak into A Pump room – Enter EOP-3
6		M(All)	Earthquake < OBE causes failure of SJAE. Enter ONI-D51, ONI-D17, ONI-N11, ONI-C51
7		R(ATC) R(SRO)	On failure of SJAE, lower power with flow and insert Manual Rx Scram.
8		M(ALL)	ATWS (<4%) Enter EOP-1 & EOP-1A - Manually insert rods.
9		C(ATC)	CRD pump trips. Restart CRD pump to insert rods.
10		C(ATC) C(SRO)	Generator field breaker fails to automatically trip on generator trip.

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

Facility: Perry **Scenario No.: 4 - 11%** **Op-Test No.: 2019-1**

Examiners: _____ **Operators:** _____ **(SRO)**
_____ _____ **(ATC)**
_____ _____ **(BOP)**

Initial Conditions: Plant S/U in progress; Main turbine @ 1800 rpm. Ready for Main Generator synch per IOI-3, Step 4.3.35. RFPT 'A' is out of service; installing insulation. TBCC Pump 'C' is out of service for bearing replacement. eSOMS Narrative Log is down. PSA Risk is Green and the Grid Risk is Normal.

Turnover: Planned activities; raise reactor power per IOI-3. Reactor Engineering concurs with gang rod withdrawal where not prohibited. Then synchronize to the grid and continue power ascension. Make any Narrative Log entries on your note pads.

Critical Tasks: 1) Initiate Suppression Pool leak isolation,
2) Insert control rods,
3) Manually isolate the Main Steam Lines,
4) (Contingency) Initiate Emergency Depressurization

Event No.	Malf. No.	Event Type*	Event Description
1		R-(ATC) R-(SRO)	Raise Reactor power to establish approximately 2 ½ Bypass Valves open.
2		N-(BOP) N-(BOP)	Synchronize the Main Generator to the grid
3		I-(SRO)	Control Room Ventilation Rad Monitor sample pump fails; TS 3.3.7.1
4		C-(ATC) C-(SRO)	High vibration main turbine bearing manually trip turbine.
5		C-(ATC) C-(SRO)	ONI-N32 – Main Turbine Trip, generator output breaker S610 fails to trip.
6		C-(SRO)	Both Upper Containment airlock doors open at same time TS 3.6.1.2
7		C-(BOP) C-(SRO)	LPCS Room sump alarm, enter EOP-3 ; SP Level <17.8 feet, enter EOP-2; Closes LPCS Suction Valve prior to SP lowering < 14.25 feet
8		M-(Crew)	TB/HB Vent Hi Rad, Turbine Area Temperature High, MSIVs fail to close
9		C-(BOP)	MSIVs on C MSL fail to close – isolate the main steam line

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