

Facility: SALEM 1 & 2 Scenario No.: NRC 1 (ESG-7) Op-Test No.: 2017 NRC

Examiners: T. FISH  
NA  
NA

Operators: (SRO) B. MEYERS  
(RO) SURROGATE  
(BOP) SURROGATE

Initial Conditions: IC-232, 76% power, EOL.

Turnover: Raise power to 89% @ 10% per hour.

Event No.	Malf. No.	Event Type*	Event Description
1		R (ALL)	Raise power to 89% @ 10%/hr using Turbine Controls.
2	PR0018B	C (SRO, RO)	PZR PORV 2PR2 leaks. Crew enters S2.OP-AB.PZR-0001. (TS exercised)
3	RC0014B	I (SRO, RO)	22 RC Loop Tavg fails high causing continuous inward rod motion. Crew enters S2.OP-AB.ROD-0003. (TS exercised)
4	TU0075 TU0083A TU0083B	M (ALL)	Loss of MTLO resulting in a power reduction and then manually tripping the reactor due to elevated main turbine vibrations.
5	RP0058 RP0059A RP0059B RP0060A RP0060B RP0247 B440 F DI B441 F DI C310 F DI C510 F DI	C (SRO, RO)	All actions from the control room will fail to actuate a reactor trip (ATWT with Loss of Main Feedwater). Crew transitions to 2-EOP-FRSM-1.
6	AF0182B AF0353C	C (SRO, BOP)	Failure of 22 AFW pump pressure override circuit resulting in no AFW flow from 22 AFW pump.  Failure of 23 AFW pump to auto start requiring manual start.
7	RD0061	I (SRO, RO)	Failure of auto rod control speed controller. Requires RO to manually insert rods.
		Critical Task # 1	Start AFW pump to establish $\geq 44E^4$ lbm/hr flow
		Critical Task # 2	Insert negative reactivity into the core.

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

Facility: SALEM 1 & 2 Scenario No.: **NRC 2 (ESG-8)** Op-Test No.: 2017 NRC

Examiners: NA Operators: (CRS) SURROGATE  
T. FISH (RO) B. MEYERS  
NA (BOP) SURROGATE

Initial Conditions: IC- 233, 100% power, BOL. PZR level channel III removed from service due to failing high, 2PR6 shut due to 2PR1 control circuit problems (no active troubleshooting is in progress).

Turnover: Maintain 100% and be prepared to support maintenance troubleshooting on PZR pressure channel and 2PR1.

Event No.	Mal. No.	Event Type*	Event Description
1	CV0034	C (SRO, RO)	23 Charging pump trips. Crew enters S2.OP-AB.CVC-0001.
2	VL0245	C (SRO, RO)	Letdown orifice isolation valve (2CV4) fails to close (partially open) on loss of all charging pumps. (TS exercised)
3	EL0141 FP25D	M (ALL)	Loss of 2E Group Bus due to electrical fault in cubicle. Crew enters 2-EOP-TRIP-1.
4	RC0003C	C (SRO, RO)	23 RCP trips following Rx Trip. (Loss of Normal Spray)
5	SG0078A	C (ALL)	21 SG tube leak (50 gpm). Crew enters S2.OP-AB.SG-0001. Leak degrades to a 400 gpm rupture. Crew initiates SI and re-enters 2-EOP-TRIP-1, then transitions to 2-EOP-SGTR-1.
6	A701 B DI	C (SRO, RO)	Train B SI switch fails to actuate. RO initiates Train A SI.
7	VL0298	C (SRO, RO)	2PR2 PZR PORV fails to close during depressurization
		Critical Task #1	Isolate feed flow into and steam flow from 21 SG.
		Critical Task # 2	Establish and maintain RCS temps so transition from SGTR does not occur.

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