Facility: Monticello Scenario No.: ILT-SS-05E (**NRC 2**) Op-Test No.: MNGP 09

Examiners: _____ Operators: _____

Initial Conditions:
Normal plant startup in progress at approximately 54% power. No Limiting conditions for Operation in effect.

Turnover:
Waiting for Nuclear Engineers to double check rod sequence calculations; then continue raising reactor power with Rods. While waiting, perform Core Spray Quarterly

Event No.	Malf. No.	Event Type*	Event Description
1	CS01A	**N (BOP/SRO)**	Perform Core Spray Quarterly. Pump motor breaker trips on Lockout.
2	RW01 C-05-A35	**I (ATC/SRO)**	The RWM fails inoperable. The CRS refers to Tech Spec 3.3.B.3(b) and determines that the RWM can be bypassed.
3	C-06-A02	**C (BOP/SRO)**	Reactor Feed Pump high vibration. The BOP will address this problem and eventually trip the RFP. (ABNORMAL)
4	None	**R (ATC/SRO)**	Lower reactor power with Rods from 54% to 50% with control rods in preparation for securing the RFP.
5	CH07B	**C (ATC)**	CRD Flow Control valve fails closed. ATC will swap to alternate Flow Control Valve.
6	AP07	**I (BOP/SRO)**	Inadvertent ADS Initiation The BOP will address this problem. The CRS will address Tech Specs for 3.3.5. (ABNORMAL)
7	ED05A RR01B	**M (Crew)**	Bus 11 Lockout, reactor scram, LOCA. All rods fully insert and the Primary containment responds as designed, but HPCI fails and RCIC cannot keep up with the inventory loss. Alternate Level Control contingency is performed. Emergency Depressurization is finally necessary to allow low pressure systems to inject. EOPs C.5 1100 and 1200 are performed.
8	HP04B HP03	**C (BOP or ATC)**	HPCI Fails to inject. The BOP/ATC will take manual control but HPCI Turbine eventually trips.

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

ES-301-4 & 5 Quantitative attributes:
Total Malfunctions: 7 Malfunctions
Malfunction(s) after EOP: E8
Abnormal Events: E3 & E6
EOPs: 1100 & 1200
EOP Contingencies: ALC & ED
Critical Tasks: ED, Restore RPV Level
Tech Specs:E2 & E6
SRO-I ATC I/C: E2 & E5