

Facility: <u>Dresden Generating Station</u>	Scenario No.: <u>2017-301 ILT-N-1</u>	Op-Test No.: <u>2017-301</u>
---	---------------------------------------	------------------------------

Examiners <hr/> <hr/> <hr/>	Operators / crew position <hr/> / ATC <hr/> / BOP <hr/> / CRS <hr/>
---------------------------------------	--

Initial Conditions: Unit 2 is in Mode 2. DGP 01-01 is in progress.

Turnover: Place Isolation Condenser in a Standby Lineup in preparation for RPV pressure reaching 150 psig. When the Isolation Condenser has been placed in a Standby Lineup continue startup per DGP 01-01. Raise reactor power by control rod withdrawal until 2 Main Turbine Bypass Valves are fully opened.

Critical Tasks: RPV-5.1 – With a reactor scram required and the reactor not shutdown, take action per DEOP 400-5, Failure to Scram, to reduce power by inserting control rods.

RPV-5.12 – When executing DEOP 400-5, Failure to Scram, reactor pressure is controlled as necessary to prevent an uncontrolled positive reactivity excursion of > 5% power.

Event No.	Malf. No.	Event Type*	Event Description
1	NONE	N BOP	IC – Place Isolation Condenser in a Standby Lineup
2	NONE	R ATC	REACTIVITY – Raise reactor power by withdrawing control rods.
3	RDPPATRP	C ATC	CRD – CRD Pump trip (Overcurrent)
4	T18	C/T BOP	AUX POWER – EDG INOP due to EDGCW pump failure
5	NII17POT B15	I/T ATC	NI – IRM fails upscale with partial ½ scram
6	N01	C BOP	SERVICE AIR – Swap SAC due to oil leak
7	RDPPBTRP	M ALL	CRD – CRD pump trip and accumulator trouble alarm (Manual Scram)
8	RDHLVFPA RDHLVFPB RDHLDEGA RDHLDEGB RDFHYLK	M ALL	Hydraulic ATWS/ARI unsuccessful – Scram Resets

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

Facility: <u>Dresden Generating Station</u>	Scenario No.: <u>2017-301 ILT-N-2</u>	Op-Test No.: <u>2017-301</u>
---	---------------------------------------	------------------------------

Examiners <div style="border-bottom: 1px solid black; height: 1.2em; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid black; height: 1.2em; margin-bottom: 2px;"></div> <div style="border-bottom: 1px solid black; height: 1.2em;"></div>	Operators / crew position <div style="border-bottom: 1px solid black; height: 1.2em; margin-bottom: 2px;"></div> / ATC <div style="border-bottom: 1px solid black; height: 1.2em; margin-bottom: 2px;"></div> / BOP <div style="border-bottom: 1px solid black; height: 1.2em;"></div> / CRS
--	--

Initial Conditions: Unit 2 is at 62% Rx Power. No equipment is OOS, and no LCO required actions.
Unit 3 is at full power. No equipment is out of service, no evolutions in progress, no LCO required actions.

Turnover: Unit 2: Pump DWEDS IAW DOP 2000-180
Maintain load per TSO direction.

Critical Tasks: RPV-1.1 – If the RPV level trend is not reversible with an RPV injection source lined up with a pump running, initiate emergency depressurization between an RPV water level between the Top-of-Active Fuel and the Minimum Steam Cooling RPV Water Level or within 1 minute after TAF is reached, whichever is later.
RPV-1.2 – When high and low pressure systems are available for RPV injection, do not stop or divert injection from the RPV until level is restored to above the Top-of-Active Fuel (TAF).
RPV-1.3 – Upon RPV level restoration following a loss of vessel inventory, all available injection systems are controlled in such a fashion that RPV overfill does not result in compromise of the HPCI system due to steam line flooding (+55 inches).
RPV-1.5 – Per DEOP 100, RPV Control, with the automatic ADS timer initiated, inhibit ADS before an automatic actuation occurs.
RPV-2.1 – When conditions are met per DEOP 400-2, Emergency Depressurization, the minimum number of available SRV's required for emergency depressurization (MNSRED) are opened.
PC-1.1 – While executing DEOP 200-1, Primary Containment Control, when drywell pressure exceeds 9 psig and only if operating within the safe region of the drywell spray initiation limit (DSIL), initiate drywell sprays.

Event No.	Malfunction No.	Event Type*		Event Description
1	NONE	N	ATC	CONTAINMENT – Pump DWED Sump
2	RODH06DO	C	ATC	CRD – Control Rod H-06 Drift Out
3	ICSPDFT	C/T	BOP	IC – Spurious Initiation
4	RADRBVAH VRD5741C VRD741C3 VRD742C3 VGLAUA06	C/T	BOP	CONTAINMENT – RB Vent Rad monitor failure w/ failure of SBGT to AutoStart
5	T47 T50	C	BOP	SWC – Stator Water Cooling Pump Trip/Failure of Standby Pump to Start
6	NONE	R	ATC	REACTIVITY – Emergency Load Reduction
7	F43	M	ALL	RECIRC – Recirc System Leak (Manual Scram)

8	L72 AT46	M	ALL	AUX PWR – Auxiliary Power Fails to Transfer / Emergency Depressurization due to Low RPV Level
* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor				

Facility: <u>Dresden Generating Station</u>	Scenario No.: <u>2017-301 ILT-N-3</u>	Op-Test No.: <u>2017-301</u>
---	---------------------------------------	------------------------------

Examiners <hr/> <hr/> <hr/>	Operators / crew position <hr/> / ATC <hr/> / BOP <hr/> / CRS <hr/>
---------------------------------------	--

Initial Conditions: Unit 2 is at Full Power. No equipment is OOS, and no LCO required actions.
Unit 3 is at full power. No equipment is out of service, no evolutions in progress, no LCO required actions.

Turnover: Swap RWCU recirc pumps to allow for maintenance on 2A pump.
Maintain load per TSO direction.

Critical Tasks: RPV-2.1 – When conditions are met per DEOP 400-2, Emergency Depressurization, the minimum number of available SRV's required for emergency depressurization (MNSRED) are opened.
RPV-2.3 – After DEOP 400-2, Emergency Depressurization, has been entered, an attempt has been made to open all ERV's, and less than the minimum number of available SRV's required for emergency depressurization (MNSRED) are open, alternate emergency depressurization methods are used until RPV pressure is less than the decay heat removal pressure (DHRP).
SC-1.1 – When executing DEOP 300-1, Secondary Containment Control, before any critical area(s) reach their respective maximum safe operating values with an unisolable primary system discharging into the respective area(s), manually scram the reactor.
SC-1.2 – When executing DEOP 300-1, Secondary Containment Control, when more than one critical area reaches their respective maximum safe operating values for the same parameter with an unisolable primary system discharging into the respective area(s), perform an emergency depressurization of the reactor.

Event No.	Malf. No.	Event Type*	Event Description
1	NONE	N BOP	RWCU – Swap RWCU pumps
2	NONE	R ATC	REACTIVITY – Lower power 100 MWe using Rods and Recirc.
3	B15 NVM100BP	I/T ATC	NBI – MR level instrument fails downscale with RPS failure to ½ scram
4	ADS3CBN ADS3CSD	C/T BOP	MAIN STEAM – ERV spurious opening
5	SCAFILOF	C ATC	CRD – Swap Pumps Due To Suction Filter Clogging
6	PCVDMD14	I/T BOP	CONTAINMENT – DW to Torus D/P controller failure.
7	SER1363	M ALL	FEEDWATER – System high vibes (Manual Scram).
8	CIRWCUJP U34 U71	M ALL	EMERGENCY DEPRESSURIZE – On 2 areas above max safe water levels due to unisolable RWC system leak and flooding LPCI corner rooms.

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

