

Scenario Outline

Facility: <u>Dresden Generating Station</u>	Scenario No.: <u>2021-301 ILT-N-2</u>	Op-Test No.: <u>2021-301</u>	
Examiners	Operators	/ crew position	
_____	_____	/ ATC	
_____	_____	/ BOP	
_____	_____	/ CRS	
Initial Conditions: <u>Unit 2 is at 85% Power.</u>			
<u>Site is under a high winds advisory due to inclement weather.</u>			
Turnover: <u>A Condensate/Condensate Booster Pump is experiencing high vibrations and needs to be removed from service for maintenance once power is lowered to 82% per DGP 03-01, Power Changes, step G.4.</u>			
Critical Tasks: <u>1. If the RPV level trend is not reversible with an RPV injection source lined up with a pump running, initiate emergency depressurization by opening 5 ADSVs with RPV water level between the Top-of-Active Fuel and the Minimum Steam Cooling RPV Water Level or within 2 ½ minutes after TAF is reached, whichever is later.</u> <u>2. Per DEOP 100, RPV Control, with automatic ADS timer initiated, inhibit ADS before an automatic actuation occurs.</u>			
Event No.	Malf. No.	Event Type*	Event Description #
1	NONE	R ATC	Lower Power with flow
2	NONE	N BOP	Secure RFP and C/CB Pump
3	HPRMBRKP	C/T BOP / CRS	HPCI Isolation due to Steam Leak
4	RDPPBTRP	C/T ATC / CRS	CRD Pump Trip
5	CSP501B	C/T BOP / CRS	Core Spray System Low Pressure
6	X10	C ATC	RFP Vent Fan Trip
7	F41	M Team	Recirc Leak in DW – Manual Scram
8	CS2AFTC CSLAUPPA	C BOP	Core Spray Pump Fails to Auto Start
9	RLMRASP RLMRBSP	M Team	Loss of Feed – Emergency Depressurization on Level
* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor, (T)ech Spec			
# (New) – Event not used on previous 2 NRC Exams, (Pre) – Event used on previous 2 NRC Exams			

Scenario Outline

Facility: <u>Dresden Generating Station</u>	Scenario No.: <u>2021-301 ILT-N-3</u>	Op-Test No.: <u>2021-301</u>	
Examiners	Operators	/ crew position	
_____	_____	/ ATC	
_____	_____	/ BOP	
_____	_____	/ CRS	
Initial Conditions: <u>Unit 2 is at 72% Power.</u>			
<u>U2 Isolation Condenser is OOS for 2-1301-3 valve motor replacement.</u>			
Turnover: <u>During initial power ascension following a refuel outage, 345kV Bus Tie 4-5 CB tripped. Repairs have been completed and the 345kV Switchyard is ready to be returned to a normal lineup. Once restored, continue on with power ascension to raise reactor power to 90% using recirc flow per QNE guidance.</u>			
Critical Tasks: <u>1. With reactor scram required and reactor not shutdown, act per DEOP 400-5, Failure to Scram, to reduce power by inserting negative reactivity before Torus temperature reaches 110°F.</u> <u>2. Once DEOP 400-5, Failure to Scram, is entered –AND- reactor power is > 6% -AND- reactor level is > the Top-of-Active Fuel – AND- drywell pressure is > 2 psig or an ERV is open –AND- torus temperature is > 110° F, terminate and prevent injection (with exception of SBLC and CRD) into the RPV prior to exceeding Heat Capacity Temperature Limit (HCTL).</u>			
Event No.	Malf. No.	Event Type*	Event Description #
1	NONE	N BOP	Restore 345kV Bus Tie 4-5 Circuit Breaker
2	NONE	R ATC	Raise Reactor Power using Recirc Flow
3	RR02A	C/T ATC / CRS	Recirc Pump Speed Controller Failure
4	RADRBVAH VGDSTBYA VGDPRI VGDSTRTA	C/T BOP / CRS	RB Vent Rad Monitor Fails Upscale, SBTG Fails to Auto Start
5	T50	C BOP	Stator Water Cooling Pump Trip
6	CIGP1I	M Team	Spurious Group 1 - SCRAM
7	RDHLVFP RDHLDEGA RDHLVFPB RDHLDEGB	M Team	Hydraulic ATWS
8	SCRLFVAD SCRLFVBD	C ATC	SBLC Relief Valve Fails Open
* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor, (T)ech Spec			
# (New) – Event not used on previous 2 NRC Exams, (Pre) – Event used on previous 2 NRC Exams			

Scenario Outline

Facility: <u>Dresden Generating Station</u>	Scenario No.: <u>2021-301 ILT-N-4</u>	Op-Test No.: <u>2021-301</u>	
Examiners <hr/> <hr/> <hr/>	Operators	/ crew position <hr/> / ATC <hr/> / BOP <hr/> / CRS <hr/>	
Initial Conditions: <u>Unit 2 is in Mode 2. Reactor Power is stable at 7%</u>			
Turnover: <u>Per DGP 01-01, Unit Startup, step G.57, stop rejecting to the Condenser with RWCU. Once complete, continue raising power to 10% per DGP 01-01 in preparation to put the Mode Switch in RUN.</u>			
Critical Tasks:			
<ol style="list-style-type: none"> <u>1. When RPV water level cannot be determined by multiple direct or indirect indications as defined by DEOP 0010-10, exit DEOP 100 and enter DEOP 400-1, RPV Flooding before DW radiation levels exceed 100 R/hr.</u> <u>2. When conditions are met per DEOP 400-1, RPV Flooding, the minimum number (2 ADSVs) of available ADSVs for RPV depressurization are opened before DW radiation levels exceed 100 R/hr to allow RPV injection with high capacity, low pressure sources (Condensate/Feedwater, LPCI and/or CS).</u> <u>3. Following RPV depressurization during non-ATWS RPV Flooding, and before DW radiation levels exceed 100 R/hr, maximize injection with high capacity, low pressure sources (Condensate/Feedwater, LPCI and/or CS) and do not divert available RPV injection flow paths until the RPV is flooded to the Main Steam Lines.</u> 			
Event No.	Malf. No.	Event Type*	Event Description #
1	NONE	N BOP	Secure Rejecting to Condenser with RWCU
2	NONE	R ATC	Raise Power with Rods
3	ADS3ESD	C/T BOP / CRS	ERV Spurious Open
4	WTPPDSH1 HWWTPPDSH(1) HWWTBPMP(1)	C BOP	Degraded TBCCW Pump
5	NII17POT B15	I/T ATC / CRS	IRM Fails Upscale – Partial Half Scram
6	NVM100BP	M TEAM	Medium Range Level Reference Leg Leak, Rise in DW Press - Scram
7	B12	C ATC	Electrical ATWS
8	NVM100AP NVM129AP NVM106AP/BP NVML112P	M TEAM	Loss of Level Indication – RPV Flooding
<p>* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor, (T)ech Spec</p> <p># (New) – Event not used on previous 2 NRC Exams, (Pre) – Event used on previous 2 NRC Exams</p>			