

Facility: <u>Dresden Generating Station</u>	Scenario No.: <u>2019-301 ILT-N-1</u>	Op-Test No.: <u>2019-301</u>	
Examiners _____ _____ _____	Operators _____ _____ _____	/ crew position / ATC / BOP / CRS	
Initial Conditions: <u>Unit 2 is at 100% power.</u>			
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Turnover: <u>Maintain load per TSO direction.</u>			
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Critical Tasks: <u>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.</u>			
<u>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 &gt; 5% power.</u>			
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Event No.	Malf. No.	Event Type*	Event Description
1	FRV2ALU	C ATC	FW – 2A FWRV Lockup
2	HPSPDFT	C/T BOP	HPCI – Spurious Initiation
3	HP6	C BOP	CONDENSER - Cribhouse, Intake Clogging
4	Q31	M ALL	MANUAL SCRAM - Loss Of All Service Water
5	RDHLVFPA RDHLDEGA	M ALL	ATWS – Hydraulic, ARI Unsuccessful / Team Inserts Rods By Manually Drive Rods
* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor, (T)ech Spec			

Facility: <u>Dresden Generating Station</u>	Scenario No.: <u>2019-301 ILT-N-2</u>	Op-Test No.: <u>2019-301</u>	
Examiners	Operators	/ crew position	
_____	_____	/ ATC	
_____	_____	/ BOP	
_____	_____	/ CRS	
Initial Conditions:	<u>Unit 2 is at 70% Power</u>		
	<u>U2 SBO Diesel Generator running for surveillance</u>		
Turnover:	<u>Shutdown the U2 SBO Diesel Generator</u>		
	<u>After the SBO is secured, raise power using control rods</u>		
Critical Tasks:	<u>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.</u> <u>PC-1.2 – After initiating drywell sprays per the primary containment pressure or temperature legs of DEOP 200-1, Primary Containment Control, terminate drywell sprays before drywell pressure drops to &lt; 0 psig. (This may not apply based on scenario run time)</u> <u>PC-4.3 – When executing DEOP 200-1, Primary Containment Control, when suppression pool water level cannot be held above 12 feet, trip HPCI.</u> <u>PC-4.4 – When executing DEOP 200-1, Primary Containment Control, when suppression pool water level cannot be held above 11 feet, manually scram and then perform an emergency depressurization of the reactor.</u> <u>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.</u> <u>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).</u>		
Event No.	Malfunction No.	Event Type*	Event Description
1	NONE	N BOP	AUX POWER – SBO Diesel, Secure from Surveillance Run
2	NONE	R ATC	REACTIVITY – Raise Power Using Control Rods
3	RODF08DI	C/T ATC	CRD FCV Fails High Causing Rods to Drift IN
4	RADRBVAH	C/T BOP	CORE SPRAY - System Low Pressure
5	N33	C BOP	INSTRUMENT AIR – Compressor, Trip Due to Overcurrent
6	ASDMRHGH	C ATC	RECIRC – Master Recirculation Flow Controller Fails Upscale
7	CSBRKSEV	M ALL	Manual Scram – Earthquake Causes Plant Damage/Torus Leak
8	F41	M ALL	Small Steam Leak/Emergency Depressurize Due Low Torus Level
* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor, (T)ech Spec			

Facility: <u>Dresden Generating Station</u>	Scenario No.: <u>2019-301 ILT-N-3</u>	Op-Test No.: <u>2019-301</u>	
Examiners	Operators	/ crew position	
_____	_____	/ ATC	
_____	_____	/ BOP	
_____	_____	/ CRS	
Initial Conditions: <u>Unit 2 is at 70% power.</u>			
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Turnover: <u>When directed by the Shift Manager, raise reactor power using Recirc.</u>			
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Critical Tasks: <u>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.</u>			
<u>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 &gt; 5% power.</u>			
<u>PC-1.3 – When executing DEOP 200-1, Primary Containment Control, if cannot stay inside the limits of the Pressure Suppression Pressure (PSP) limit, enter DEOP 400-2, Emergency Depressurization and blowdown the reactor.</u>			
<u>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.</u>			
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Event No.	Malf. No.	Event Type*	Event Description
1	NONE	C ATC	FW – RFP, Swap Due to Oil Leak
2	NONE	R ATC	RECIRC – Reactivity, Raise Power Using Recirculation Flow
3	WTNP	C / T BOP	APRM – Flow Converter Failure
4	RDFCVFBL	C ATC	CRD - FCV, Fails Closed
5	ICSPDFT	I / T BOP	ISO COND - System, Spurious Isolation (fails to isolate)
6	I21	M ALL	MANUAL SCRAM - Steam Leak in the Drywell
7	B12 SER1026 SER1060 AW4	M ALL	ATWS – Electrical, ARI Unsuccessful
8	I21 K23 K40	M ALL	EMERGENCY DEPRESSURIZE – On Exceeding Pressure Suppression Pressure Due To Steam Leak inside the Drywell And Partial Loss of Ability to Spray the Drywell
* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor, (T)ech Spec			

Facility: <u>Dresden Generating Station</u>	Scenario No.: <u>2019-301 ILT-N-4</u>	Op-Test No.: <u>2019-301</u>		
Examiners _____ _____ _____	Operators _____ _____ _____	/ crew position / ATC / BOP / CRS		
Initial Conditions: <u>Unit 2 is in Mode 2. DGP 01-01 is in progress.</u> <u>Power is approximately 4%</u>				
Turnover: <u>Plant inspections are in progress. Power ascension is expected to continue next shift.</u> <u>After taking the shift, swap RFP vent fans for maintenance.</u>				
Critical Tasks: <u>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.</u> <u>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.</u>				
Event No.	Malf. No.	Event Type*		Event Description
1	NONE	N	BOP	HVAC – RFP Vent Fan, Swap For Maintenance
2	RDFAILF5	I / T	ATC	CRD - RPIS, Loss of Control Rod Position Indication
3	B38	C	BOP	RBCCW – Pump Trip
4	NII12POT	I / T	ATC	NI – IRM, Fails Upscale Causing Half Scram
5	HP6 HP7	C	BOP	CIRC WATER - Pump, Trip Due To Overcurrent
6	HP3	M	ALL	MANUAL SCRAM - Flooding in Condensate Pump Room
7	HPRMBRKP	M	ALL	EMERGENCY DEPRESSURIZE – On 2 Areas Above Max Safe Radiation Levels Due To HPCI Steam Line Leak into the HPCI Room
* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor, (T)ech Spec				