## This would be Dresden's choice to be the spare scenario.

Facility:	Dresden	Scenario #:	ILT-N-1 (Spare scenario)			
Scenario Source:	Site developed	Op. Test #:	2023-301			
Examiners:		Applicants/ Operators:				
Initial Conditions:	Unit 2 is at 100% power					
	2A EHC Pump is OOS					
Turnover:	Branch dP is reading ~27 feet through the Main Condenser A-06, D-09, and N-08 per DOS	of water and it has shall be reversed. 0300-01	as been determined that Circ Water Flow . Once flow has been reversed, exercise CRDs			
Critical Tasks:	RPV-1.1 – If the RPV level trend is not reversible, initiate RPV blowdown with the minimum number of available ADS valves when RPV water level is 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. RPV-1.5 – Per DEOP 100 or DEOP 0400-06 (as applicable), with the automatic ADS timer initiated, inhibit ADS before an automatic actuation occurs.					

Event No.	Malf. No.	Event	Туре*	Event Description	
1	None	N	BOP	(New) CIRC WATER - Reversing Circ Water Flow Through Main Condenser	
2	RODD09ST	С	ATC	(New) CRD - Control Rod, Stuck and Requires Higher Pressure to Move	
3	RLMRFBP	С	ATC	(New) FW - Recirc Runback, due to loss of RFP	
4	RMARMPFAILF(1) RMARMPFAILD(1) VRMISO42A VRMISO42B MRGFPB	I/ MC/TS	BOP / CRS	(New) PRM - RB Fuel Pool Channel B Rad detector fails upscale causing RB Vent to isolate with failure of 2 isolation dampers to close; CRS will reference Tech Specs	
5	HDD3103C2 HDD3103S2	R	ATC	(New) FEEDWTER HEATING - HP Heater Trip (Reactivity move)	
6	ICTUBLK	C/TS	BOP/ CRS	((New) LPCI - Isolable leak on 2A LPCI Pump Suction Piping, spraying onto the 2A and 2B LPCI Pump Motors	
7	F41	М	CREW	MANUAL SCRAM - Recirc leak in Drywell	
8	RLMFAFC RLMFBFC FLMFFC HPPMGDG	Μ	CREW	(New) FWLC - Loss of all Feedwater Reg Valves HPCI degraded EMERGENCY DEPRESSURIZE - On lowering RPV water level	
* (N)orma # (New) –	* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor, (TS)Tech Spec, (MC)Manual Control # (New) – Event not used on previous 2 NRC Exams, (Pre) – Event used on previous 2 NRC Exams				

## Form 3.3-1 Scenario Outline

Facility:	Dresden	Scenario #:	ILT-N-2		
Scenario Source:	Site developed	Op. Test #:	2023-301		
Examiners:		Applicants/ Operators:			
Initial Conditions:	Unit 2 in MODE 2 ~5% power. DGP 01-01 in progress				
Turnover:	Crew will swap Service Water pumps due to abnormal noises in running pump. DGP 01-01 Step G.45 is being performed.				
PC-1.1 – While executing DEOP 200-1, when drywell pressure exceeds 11 psig and operating within the safe region of the drywell spray initiation limit (DSIL), initiate sprays within 6 minutes of exceeding 11 psig while in an ATWS condition.			ywell pressure exceeds 11 psig and only if spray initiation limit (DSIL), initiate drywell hile in an ATWS condition.		
	PC-1.2 – After initiating drywell sprays per the primary containment pressure or temperature legs of DEOP 200-1, terminate drywell sprays before drywell pressure drops to < 0 psig.				

Event No.	Malf. No.	Event	Type*	Event Description
1	None	Ν	BOP	(New) SERVICE WATER - Swap Service Water pumps
2	None	R	ATC	REACTIVITY – Raise Power with Rods (To get 2 Bypass valves open)
3	RODJ07DO	C, TS	ATC/ BOP/ CRS	(New) CRD - Rod Drift
4	K40	C, TS	BOP/ CRS	(New) AUX POWER - Trip of Bus 28
5	FWSACBV	C, MC	ATC	(PRE) HVAC - RFP Vent Fan, Trips Due to Overcurrent; failure of standby fan to auto start
6	F41	М	CREW	(PRE) SLOW LEAK - Steam leak in Drywell
7	121	М	CREW	LEAK WORSENS - Leak worsens, Manual Scram, Electrical ATWS (ARI Unsuccessful)
* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor, (TS)Tech Spec, (MC)Manual Control # (New) – Event not used on previous 2 NRC Exams, (Pre) – Event used on previous 2 NRC Exams				

Facility:	Dresden	Scenario #:	ILT-N-3			
Scenario Source:	Site developed	Op. Test #:	2023-301			
Examiners:		Applicants/ Operators:				
Initial Conditions:	Unit 2 in MODE 1 90% power.					
Initial Conditions:	APRM #6 is OOS due to faulty power supply.					
Turnover:	Torus Cooling was running to	support a HPCI ru	un and can now be secured.			
	SC-1.1 – While executing DEC safe operating values with an manually scram the reactor.	OP 300-1, before unisolable prima	any critical area(s) reach their respective maximum ry system discharging into the respective area(s),			
Critical Tasks:	SC-1.2 – While executing DEOP 300-1, 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 a complete RPV blowdown per DEOP 100 within 10 minutes of exceeding the same max safe parameter in multiple areas.					

Event No.	Malf. No.	Event	Type*	Event Description #
1	None	N	BOP	(New) LPCI – Secure Torus Cooling
2	RDPPATRP	C, TS	ATC / CRS	(Pre) CRD - CRD Pump Trip
3a	SER1633	С	BOP	(New) AUX POWER - Main Power Transformer High Temperature
3b	E230	R	ATC	REACTIVITY MOVE - Lowering power to unload MPT
4	NII12POT NIA2POT B12	I, MC, TS	ATC / CRS	(New) NI – APRM Fails upscale with no half scram and one APRM already out
5	T50 T52	C, MC	BOP	(Pre) GENERATOR - Stator Water Cooling Pump Trip with failure of Standby to start
6	HPRMBRKP HPGP4RLY	М	CREW	(New) MANUAL SCRAM - Unisolable steam leak in HPCI Room
7	Supplemental CAEP	М	CREW	(New) EMERGENCY DEPRESSURIZE – On 2 Areas Above Max Safe Radiation Levels Due To HPCI Steam Line Leak into the HPCI Room
8	ADS3BBN	С	BOP	(New) MAIN STEAM – Failure of ERV to open during Emergency Depressurization
* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor, (TS)Tech Spec, (MC)Manual Control # (New) – Event not used on previous 2 NRC Exams, (Pre) – Event used on previous 2 NRC Exams				

Facility:	Dresden	Scenario #:	ILT-N-4		
Scenario Source:	Site developed	Op. Test #:	2023-301		
Examiners:		Applicants/ Operators:			
Initial Conditions:	Unit 2 in MODE 1 81% power.				
Turnover:	Swap EHC pumps.				
Critical Tasks:	RPV-4.1 – When RPV water level cannot be determined by multiple direct or indirect indications as defined by DEOP 0010-10, enter DEOP 400-1, RPV Flooding, before adequate core cooling is lost as indicated by a rise in Drywell radiation levels.   RPV-4.2 – Following blowdown per DEOP 400-1 during non-ATWS RPV Flooding, maximize injection and do not divert available RPV injection flow paths until the RPV is flooded to the				
	Main Steam Lines.				

Event No.	Malf. No.	Event	Type*	Event Description	
1	None	Ν	BOP	(New) EHC - Swap EHC pumps	
2	B15 NVM100BP	I, TS, MC	ATC / CRS	(New) NBI - MR Level Instrument Fails with Partial Half Scram	
3	None	C, TS	BOP/ CRS	(New) ISO COND - Iso Condenser tube leak; CRS will reference Tech Specs	
4a	К50	C, MC	BOP	(New) - TURBINE AUX - Loss Of Hydrogen Seal Oil, With Failure Of ESOP To Start	
4b	К07	R	ATC	(New) - Lower Reactor Power to meet turbine loading requirements with loss of seal oil	
5	NONE	С	BOP	(New) - INST AIR - Compressor, Swap Due To Oil Leak	
6	RR02A	С	ATC	(Pre) RECIRC - Recirc Pump Speed Controller Failure	
7	NVMNRALP	М	CREW	(New) NBI - Narrow Range Level Reference Leg Leak, Slow rise in DW Pressure, Manual Scram	
8	NVMMRALP NVML29AP NVM106AP/BP NVML112P	Μ	CREW	(Pre) Loss of Level Indication – RPV Flooding	
* (N)orma # (New) –	* (N)ormal, (R)eactivity, (I)nstrument, (C)omponent, (M)ajor, (TS)Tech Spec, (MC)Manual Control # (New) – Event not used on previous 2 NRC Exams, (Pre) – Event used on previous 2 NRC Exams				