2022 Power Restoration Drill - Day 1		Event Timeline	Rev Date 06/08/2022
Time CDT	**Process Overview / Event Information**	**Operating Functions Impacted (Entities)**	**Member Companies Impacted**
1100-1130	Power Point Presentation/ WebEx (Standards, Participating groups, Objectives…)	BA, RC, TISO, TOps, MTOp, HDCC,	BSMT, AECI, LGE-KU, OMU, MLGW, & TVA
1130	****DRILL EVENTS STARTS** (ASSESSMENT PHASE) - DAY 1**		
1150	**(LGEE)** Brown North – Hardin Co. 345kV line fault; **DNR**	RC	
1200	**(AECI)** Chouteau #2 Bus Fault: Ice on structures, bus trips with loss of ~500MW generation	RC	
1200	**(BSMT)** Cheoah - Santeetlah 161-line trips; tree strikes line; **Return Day 2 ~0900**	RC, TISO, BA	TVA
1205	**(MLGW)** Arlington (68) – Lakeland (85) 161kV and Cordova (39) – North Bartlett (84) removed from service for planned maintenance on Structure #2137, remove antenna; **Return Day 2 ~0800**	RC	
1210	**(TVA)** Allen – Hornlake (Entergy) 161 trips – damaged structure/conductor on Entergy side; **DNR**	TOp, MTOp, RC, TISO	
1215	**(MLGW)** RTU goes down at Allen (35); burnt fiber and cables; no communication; **DNR**	RC	
1230	**(AECI)** Remington - Fairfax 138kV line trip	RC	
1230	**(TVA)** Freeport 500/161 Bank trips on differential due to high wind induced debris: **DNR**	TOp, MTOp, RC	MLGW
1230	**(LGEE)** OMU 138kV bus fault. Results in 69kV feed low voltage and N-1 very close to 100% for Green River Steel 138/69kV transformer due to contingency.	RC	
1245	**(TVA)** BFN unit (1) trips off; 1277 MW; DCS event; Caused by trip of Recirc Pump trip and auto runback problem; estimated return will be 48-72 hours.	BA, RC	
1300	**(LGEE)** Brown North to Hardin 345 outage related issues now above 100% on CA. Redispatch needed to raise Brown and lower at Ghent.	RC	
1300	**(AECI)** Thomas Hill – McCredie 345kV line trip (icing); Thomas Hill generation will be required	RC	
1300	**(MLGW)** Allen (35) – Nonconnah (61) 161kV trip and Allen (35) – Weaver (41) 161kV trip, due to high wind induced galloping; **Return Day1 to Day 2 overnight**	RC	
1315	**(BSMT)** BSMT operations manager reports line will not be cleared & ready for service until 0900 next morning	RC	
1325	**(TVA)** N_Nashville Bus 1-1 & 1-2 trips (886-1), transient due to foreign object; **can be returned by TOp**	TOp, MTOp, RC	
1330	**(AECI)** Pittsville 161kV Bus trips (heavy icing, results in A-frame structure breaking off & landing on buswork); Holden generation limited	RC	

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1330	**(MLGW)** Macon (26) – Southeast Gate (34) 115kV trips; **Return Day 2 ~1100**	RC	
1345	**(LGEE)** Brown 3 trips offline. Issues appear on CA; previous redispatch will need to be corrected by starting Brown CT, but no gas available. Can run Brown 8, 9, 10, 11 on fuel oil at limited output. CRSG and load shedding will be discussed after Brown 3 trips offline.	RC, BA	
1400	**(TVA)** Tiptonville - (AECI) New Madrid 161 trips (ice event; structure down 3 miles out of New Madrid); **Estimated return 12-24 hours**	TOp, MTOp, RC, TISO	AECI
1410	**(AECI)** EEA-3 and BAAL begins – low frequency and dragging ACE start BAAL timer	RC	
1430	**(AECI)** Blackout of AECI system occurs	RC	
Overnight	**(MLGW)** Allen (35) – McLemore (45) 161kV trips due to several damaged insulators; **DNR**		
	(MLGW) Allen (35) – South Primary (31) 161kV trips, C phase on ground; **DNR**		
	(MLGW) Allen (35) – W Mallory (62) 161kV trips, A & B phases on ground; **DNR**		
	(MLGW) Allen (35) – Mitsubishi (95) 161kV trips due to several damaged insulators; **DNR**		
	(BSMT) All generation removed from service per schedule Cheoah - Alcoa Primary trips, **DNR** Calderwood - Alcoa Primary trips, **DNR** Chilhowee - Alcoa Primary trips, **DNR**		
	(TVA) **CORDOVA** Loss of Bank 1 (Bank 2 already out of service, Pre-Outage); **DNR**		
	(TVA) **SHELBY** Loss of Bank 1 & 2 (161 Transfer Busses); **DNR**; results in BO of MLGW area		
	(MLGW) Allen (35) – Nonconnah (61) 161kV trip and Allen (35) – Weaver (41) 161kV, **Return to service**		
	(TVA) Freeport - West Pleasant Hill 161 line section; **DNR**		

2022 Power Restoration Drill - Day 2		Event Timeline	Rev Date 06/08/2022
Time CDT	**Process Overview**	**Operating Functions Impacted (Entities)**	**Member Companies Impacted**
0700-0730	Power Point Presentation/ WebEx (Standards, Participating groups, Objectives…)	BA, RC, TISO, TOps, MTOp, HDCC,	BSMT, AECI, LGE-KU, OMU, MLGW, & TVA
0730	****DRILL STARTS** (RECOVERY PHASE) - DAY 2**		
0730	**(MLGW)** Service area is blacked out		
0730	**(TVA)** Watts Bar area blacked out		
0745	**(LGEE)** LGE KU fully blacked out. Black start at Cane Run diesel and Dix Dam creating two islands and implement Trimble County islanding procedure.		
0800	**(TVA)** Watts Bar Hydro Plant Isolation & Black Start process		
	(MLGW) Arlington (68) – Lakeland (85) 161kV and Cordova (39) – North Bartlett (84) return to service		
0815	**(BSMT)** WRM coordinates with TVA BA to determine generation scheme when Cheoah - Santeetlah returned to service	BA	TVA
	(TVA) MP&L (Entergy) Southaven 500/230 bank, fed from Freeport, trips: **DNR**	TOp, MTOp, RC, BA	
0900	**(BSMT)** Cheoah - Santeetlah 161 line restored. NSCC discusses with TVA RC potential for placing up to 410 MW through Cheoah - Santeetlah line *(Note: Line rating is 283 MVA summer / 335 MVA winter, BSMH Total generation up to 410 MW).*	RC, TISO	TVA
1030	Demonstration/ WebEx (Interconnection Checklist Review)	Julio / Garrett	BSMT, AECI, LGE-KU, OMU, MLGW, & TVA
1100	**(MLGW)** Macon (26) – Southeast Gate (34) 115kV trips; **Return to service**	RC	
1300	**(AECI)** Start process (interconnection checklist, etc.) for syncing their island to BES via Tiptonville - New Madrid line. Sync at New Madrid end.	RC, TOp, MTOp	
????	**(LGEE)** Will complete synchronization of internal islands, or island to BES external to TVA (will implement/complete RC Interconnection Checklist).	RC	
1330	**(TVA)** Synch. Watts Bar Island to Interconnection		
1410	**(TVA)** TOp Transferring Authority back to BA Discussion		
1420-1500	Participant De-Brief/Feedback survey		
1500	****DRILL ENDS****		

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1530-1600	Drill Coordinator De-Brief/Feedback survey	BA, RC, TISO, TOps, MTOp,	BSMT, AECI, LGE-KU, OMU, MLGW, EEI