



PJM NERC Data Requests

March 11, 2024

Reliability & Standards Compliance
Subcommittee

EOP-011 R1.2.5 and R2.2.8 and PRC-006 Data Request R6 and R8

Applicable to Entities listed in:

- [Manual 13](#) Emergency Operations: Attachment E Manual Load Dump Allocation Tables, Revision 92
- [Manual 13](#) Emergency Operations: Attachment F Manual Load Dump Capability, Revision 92
- [Manual 36](#) System Restoration: Attachment H Underfrequency Load Shed (UFLS) Tables, Revision 33
- *Email to follow for RSCS email subscribers*

Attachment E: Manual Load Dump Allocation Tables

Winter/Summer Required Manual Load Dump PJM Mid-Atlantic Region																
MW	PS	PE	PPL Zone		BC	FE-East	PEPCO ZONE		AE		DPL Zone				Rockland	
			PPL	UGI			PEPCO	SMECO	AECO	Vineland	DPL	ODEC	DEMEC	Dover		Easton
%	17.26%	14.89%	12.61%	0.35%	11.41%	20.90%	9.11%	1.38%	4.16%	0.27%	4.70%	1.43%	0.46%	0.27%	0.09%	0.70%
500	86	74	63	2	57	104	46	7	21	1	24	7	2	1	0	3
1000	173	149	126	3	114	209	91	14	42	3	47	14	5	3	1	7
1500	259	223	189	5	171	313	137	21	62	4	71	21	7	4	1	10
2000	345	298	252	7	228	418	182	28	83	5	94	29	9	5	2	14
3000	518	447	378	10	342	627	273	42	125	8	141	43	14	8	3	21
4000	690	595	504	14	457	836	364	55	166	11	188	57	19	11	4	28
5000	863	744	631	17	571	1045	455	69	208	13	235	72	23	14	5	35

Manual Load Dump Allocation - PJM Mid-Atlantic Region

When issuing a manual Load Dump via All Call, the PJM Dispatcher will include the following information in the message:

- ✓ (1) Area (PJM Mid-Atlantic Region, Eastern Portion of PJM Mid-Atlantic Region, or a zone / company)
- ✓ (2) Total megawatts (refer to appropriate tables for allocation)
- ✓ (3) Allocation table to be used
- ✓ (4) Transmission Zone allocations will be handled separately based on PJM EMS capacity calculations

Allocation percentages are based on 2023 summer but applicable to both 2023 summer and 2023/2024 Winter Load conditions



Attachment F: PJM Manual Load Dump Capability

PJM Manual Load Dump Capability							
	1	2	3	4	5	6	7
Transmission Owner	2023 Summer System Peak Load Est. (MW)	Maximum Manual Load Shedding Capability based on System Peak Load Estimate (MW)	Load Shed Cap (%) (Percent = #2 ÷ #1)	Overlap of Load Shedding and Under frequency Loads (MW)	Overlap of Load Shedding and Under frequency Loads (%) (Percent = #4 ÷ #2)	Manual Load Shedding if Under frequency relays have operated (MW) (MW = #2 - #4)	Manual Load Shedding if Under frequency relays have operated (%) (Percent = #6 ÷ #1)
DPL	2,630	880	33.44%	267	30.36%	613	23.29%
DPL - Dover	148	66	44.30%	39	59.60%	27	17.90%
DPL - DEMEC	252	0	0.00%	0	-	0	0.00%
DPL - Easton	51	19	37.04%	4	21.05%	15	29.24%
DPL - ODEC	779	31	3.98%	14	45.16%	17	2.18%
AE	2,403	751	31.26%	133	17.71%	618	25.72%
AE - Vineland	146	85	58.27%	40	46.78%	45	31.01%
PS	9,904	1632	16.48%	280	17.16%	1352	13.65%
RECO	414	414	100.00%	142	34.35%	272	65.65%
PE	8,527	1218	14.28%	333	27.34%	885	10.38%
EE East - IC	6,072	1,518	25.00%	4	0.25%	1,514	25.10%

⋮



Attachment H: Under Frequency Load Shed (UFLS) Tables

PJM Under Frequency Load Shedding (Hz)																		
UFLS Entity	59.5 Hz	59.3 Hz	59.1 Hz	59.0 Hz	58.9 Hz	58.7 Hz	58.5 Hz	Total	2023 Peak Forecast	59.5 Hz	59.3 Hz	59.1 Hz	59.0 Hz	58.9 Hz	58.7 Hz	58.5 Hz	Total	Comments
AE *		242			287		256	785	2,403		10.07%			11.96%		10.64%	32.68%	
Vineland *		24			19		18	61	146		16.12%			12.84%		12.50%	41.46%	
BGE *		665			656		657	1978	6,474		10.27%			10.13%		10.15%	30.55%	
DPL *		295			294		288	877	2,630		11.22%			11.18%		10.95%	33.34%	
ODEC - DPL *		91			79		88	257	779		11.62%			10.13%		11.25%	33.01%	
DEMEC *		35			27		29	91	252		14.01%			10.62%		11.33%	35.96%	
Easton *		7			6		6	19	51		13.65%			11.70%		11.70%	37.04%	
Dover *		18			20		24	62	148		12.10%			13.48%		16.43%	42.01%	
FE East - JC *		684			692		688	2065	6,072		11.27%			11.39%		11.34%	34.00%	
FE East - ME *		334			344		322	1000	3,040		10.97%			11.33%		10.59%	32.89%	
FE East - PN *		374			290		382	1046	2,871		13.04%			10.09%		13.30%	36.43%	
PECO *		928			932		917	2777	8,527		10.88%			10.93%		10.75%	32.57%	
PEPCO *		547			549		543	1638	5,413		10.10%			10.14%		10.03%	30.27%	
SMECO *		85			87		91	262	753		11.27%			11.49%		12.05%	34.81%	
PPL *		844			836		820	2500	7,175		11.76%			11.65%		11.43%	34.84%	
UGI *		25			24		23	72	195		13.03%			12.31%		11.64%	36.97%	
Public Service *		991			991		991	2973	9,904		10.01%			10.01%		10.01%	30.02%	
RECO *		47			48		47	142	414		11.34%			11.58%		11.44%	34.35%	
Neptune*		66			66		66	198	660		10.00%			10.00%		10.00%	30.00%	
HTP*		66			66		66	198	660		10.00%			10.00%		10.00%	30.00%	
Com Ed *		2282		2279		2339		6900	20,382		11.20%		11.18%		11.48%		33.85%	
Dominion *		1900		1827			2037	5764	18,910		10.05%		9.66%			10.77%	30.48%	
NOVEC *		167		167			166	499	1,489		11.23%		11.19%			11.11%	33.53%	
ODEC - DVP *		126		110			132	369	1,036		12.19%		10.66%			12.78%	35.64%	
NCEMC - DVP *		28		32			29	89	273		10.40%		11.64%			10.69%	32.73%	
FE South **	470	452	487		491	463		2363	8,097	5.80%	5.58%	6.01%		6.06%	5.72%		29.18%	
ODEC - AP **	38	51	41		43	48		221	627	6.02%	8.17%	6.61%		6.86%	7.68%		35.33%	
AEP **	1790	1952	1802		1860	1920		9324	22,453	7.97%	8.69%	8.03%		8.29%	8.55%		41.53%	
Dayton **	200	203	220		182	219		1024	3,295	6.08%	6.16%	6.66%		5.53%	6.63%		31.07%	
Duquesne **	154	141	142		163	140		740	2,712	5.68%	5.19%	5.24%		6.01%	5.15%		27.28%	
FE West **	640	647	614		607	618		3126	11,010	5.81%	5.87%	5.57%		5.51%	5.62%		28.39%	
DEOK **	360	435	320		374	456	392	2337	5,249	6.86%	8.29%	6.10%		7.13%	8.69%	7.47%	44.52%	
CPP **	15	16	15		17	15		78	285	5.27%	5.62%	5.27%		5.97%	5.27%		27.40%	
EKPC**	108	112	112		112	129	122	695	2,027	5.31%	5.53%	5.51%		5.53%	6.36%	6.04%	34.28%	

PJM, as the Planning Coordinator is required to maintain its UFLS (Under Frequency Load Shed) and manual load shed databases **at least once each calendar year**, with no more than 15 months between maintenance activities.

Also per PRC-006-SERC, PJM expects Transmission Owners and Distribution Providers within the SERC region that are identified in *Manual 36 Attachment H* to maintain a time delay (from frequency reaching the set point to the trip signal) of **at least 6 cycles**. SERC requires Transmission Owners and Distribution Providers to maintain 30%.

The data request is based on the 2024 Summer Peak LAS Normal Load Forecasts.

PJM provides this standing update to the Reliability & Standards Compliance Subcommittee to provide guidance to Registered Entities regarding PJM-related data requests applicable to certain NERC Reliability Standards, and to provide a forum through which such Registered Entities can ask questions of PJM staff. This standing update is not intended to serve as complete or definitive guidance regarding how to comply with a PJM-related data request, how to otherwise comply with specific NERC Reliability Standards, or how to otherwise carry out the obligations of Registered Entities.

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