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# Control Performance Standard Report

December, 1999

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## Calculation of Compliance

Control area compliance will be determined by examining both CPS parameters. One parameter (CPS1) measures control impact on frequency. This parameter is calculated from a MW-Hz error value computed over a sliding 12-month period. The second parameter (CPS2) is a function of the ten-minute ACE magnitudes over a one-month period. Compliance to the two measures is outlined below.

Control Compliance Rating = Pass, if CPS1 > 100% and CPS2 > 90%

Control Compliance Rating = Fail, if CPS1 < 100% or CPS2 < 90%

\* The "Months" column indicates the number of months of data in the CPS1 12-Month Rolling Average.

\*\* The "Compliant" column indicates the number of months, within the range of the "Months" column, that each Control Area's CPS2 value was greater than or equal to 90%.

Control Area	CPS1	CPS2	Months *	Compliant **
<b>ECAR</b>				
Allegheny Power System	133.67	91.60	12	8
American Electric Power Company	163.25	94.64	12	12
Big Rivers Electric Corporation	152.17	90.70	12	12
Cinergy Corporation	152.92	94.50	12	11
Duquesne Light Company	199.96	91.40	12	11
East Kentucky Power Cooperative	151.63	95.47	12	9
First Energy Corporation	149.39	92.93	12	12
Hoosier Energy Rural Electric Coop	181.72	94.80	12	11
Indianapolis Power & Light Company	183.74	98.57	12	12
LG&E Energy	159.68	94.80	12	12
Michigan Electric Coordinated Syst	170.50	97.45	12	12
Northern Indiana Public Service Co	129.98	93.00	12	12
Ohio Valley Electric Corporation	168.76	97.40	12	12
Southern Indiana Gas & Electric Co	143.94	96.10	12	12
The Dayton Power & Light Company	185.46	94.80	12	9
<b>ERCOT</b>				
Austin Energy	187.66	98.65	12	12
Central & South West Sevices, Inc.	176.54	96.70	12	12
Lower Colorado River Authority	156.64	92.23	12	12
Public Utilities Board Brownsville	217.60	99.75	12	12
Reliant Energy HL&P	198.80	96.34	12	12
S Texas & Medina Electric Coops.	175.09	99.91	12	12
Texas Municipal Power Pool	163.92	98.21	12	12
Texas-New Mexico Power Company	188.72	99.24	12	12
TXU Electric	167.42	92.90	12	12

<b>Control Area</b>	<b>CPS1</b>	<b>CPS2</b>	<b>Months *</b>	<b>Compliant **</b>
<b>FRCC</b>				
City of Homestead	179.47	99.50	12	12
City of Lake Worth	96.85	100.00	6	6
City of New Smyrna Beach	200.00	100.00	12	12
City of Tallahassee	190.43	99.90	12	12
Florida Municipal Power Pool	183.44	96.71	12	12
Florida Power & Light Company	194.71	99.15	12	12
Florida Power Corporation	182.79	97.53	12	12
Gainesville Regional Utilities	175.56	97.58	12	12
Jacksonville Electric Authority	194.28	96.06	12	12
Reedy Creek	200.00	100.00	12	12
Seminole Electric Cooperative	200.55	99.19	12	12
Tampa Electric Company	179.28	98.00	12	12
<b>MAAC</b>				
PJM Interconnection	164.43	92.20	12	11
<b>MAIN</b>				
Alliant East	133.82	95.98	12	12
Ameren	172.45	98.30	12	12
Central Illinois Light Company	127.41	<b>73.34</b>	12	
City WL&P-Springfield	187.94	99.72	12	12
Columbia Water & Light Department	192.33	94.40	12	12
Commonwealth Edison Co.	169.81	94.80	12	12
Electric Energy, Inc.	197.64	99.66	12	11
Illinois Power Company	198.62	95.99	12	12
Madison Gas & Electric Company	156.85	96.00	12	12
Southern Illinois Power Coop	143.91	99.42	12	12
Upper Peninsula Power Company	212.93	96.19	12	12
Wisconsin Electric Power Company	173.53	94.62	12	12
Wisconsin Public Service Corporation	162.53	95.60	12	12
<b>MAPP</b>				
Alliant West	134.13	96.00	11	10
Dairyland Power Cooperative	247.16	98.48	12	12
Great River Energy	185.06	96.18	12	12
Lincoln Electric System	194.77	99.98	12	12
Manitoba Hydro-Electric Board	172.11	99.89	12	12
MidAmerican Energy Company	161.19	97.95	12	12
Minnesota Power Company	182.37	97.86	12	12
Muscatine Power & Water	179.58	100.00	12	12
Nebraska Public Power District	140.46	96.88	12	12
Northern States Power Company	177.16	96.48	12	12
Omaha Public Power District	161.62	97.16	12	11
Otter Tail Power Company	184.49	98.89	12	12
Saskatchewan Power Corporation	198.68	98.16	12	12
Southern Minnesota Muni. Power	174.19	99.71	12	12
St. Joseph Light & Power Company	121.35	99.40	8	8
WAPA - Upper Great Plains East	193.13	99.89	12	12

Control Area	CPS1	CPS2	Months *	Compliant **
<b>NPCC</b>				
HydroQuebec	172.10	100.00	12	12
Independent Electricity Market Operat	180.51	99.30	12	12
ISO-New England	161.83	93.00	12	12
Maritime Area	188.22	99.90	12	12
New York Power Pool	161.93	<b>84.70</b>	12	5
<b>SERC</b>				
Alabama Electric Cooperative	177.39	98.66	12	12
Associated Electric Cooperative Inc.	148.63	93.06	12	12
Cajun Electric Power Cooperative	147.61	94.40	12	12
Carolina Power & Light Co. East	166.01	94.90	12	12
Carolina Power & Light Co. West	183.08	99.80	12	12
Duke Power Company	173.56	96.60	12	12
Enron - Brownsville	177.26	99.90	7	7
Enron - Caledonia	207.10	99.70	6	6
Enron - New Albany	167.31	99.90	6	6
Entergy Electric System	159.13	94.00	12	12
SEPA	152.73	99.60	12	12
South Carolina Electric & Gas Co	156.58	<b>87.20</b>	12	11
South Carolina Public Service	144.21	93.10	12	12
South Mississippi Electric Power	181.98	99.78	10	10
Southern Company Services	182.49	95.50	12	12
Tennessee Valley Authority	166.48	92.20	12	12
Virginia Electric & Power	163.37	95.00	12	12
Yadkin, Inc.	<b>No Report, AGC is out of service.</b>			
<b>SPP</b>				
Board Of Public Utils.	177.51	99.18	12	12
Central & South West Sevices, Inc.	177.45	98.37	12	12
Central Louisiana Electric Company	184.65	99.33	12	12
City of Independence Missouri	100.00	100.00	12	12
City of Lafayette	176.62	99.42	12	12
Empire District Electric Company	284.02	94.36	12	12
Grand River Dam Authority	206.75	100.00	12	12
Kansas City Power & Light Company	153.33	93.17	12	12
Louisiana Energy & Power Authority	210.65	99.51	12	12
Missouri Public Service Company	149.67	91.00	12	11
Oklahoma Gas & Electric Company	161.82	98.50	12	10
Southwestern Power Administration	196.16	99.72	12	12
Southwestern Public Service Co	118.93	100.00	12	12
Sunflower Electric Corp.	171.45	100.00	12	12
West Plains Energy	182.00	97.00	12	12
Western Farmers Electric Coop	171.37	99.80	12	12
Western Resources	183.71	99.70	12	12

Control Area	CPS1	CPS2	Months *	Compliant **
<b>WSCC-AZNMSNV</b>				
Arizona Public Service Company	199.99	99.37	12	12
El Paso Electric Company	191.08	98.21	12	12
Imperial Irrigation District	161.69	94.85	8	7
Nevada Power Company	182.74	99.45	12	12
Public Service of New Mexico	184.67	96.20	12	12
Salt River Project	201.26	99.75	12	12
Tucson Electric Power Company	159.13	96.20	12	12
WAPA - Lower Colorado	174.46	96.01	12	12
<b>WSCC-CAMX</b>				
California ISO	181.70	94.73	12	12
Comision Federal de Electricidad	171.87	<b>89.67</b>	12	8
L.A. Dept of Water & Power	183.55	94.46	12	12
<b>WSCC-NWPP</b>				
Avista Corporation	187.33	99.00	12	12
Bonneville Power Administration	171.25	95.69	12	12
British Columbia Hydro & Power	201.93	99.71	12	12
Chelan County PUD #1	194.19	99.78	12	12
Douglas County PUD #1	152.80	99.00	12	12
ESBI Alberta Ltd.	188.89	92.90	12	12
Grant County PUD #1	199.66	99.91	12	12
Idaho Power Company	195.38	99.73	12	12
Montana Power Company	190.25	99.94	12	12
PacifiCorp-East	179.65	93.59	12	12
PacifiCorp-West	173.73	96.72	12	12
Portland General Electric Company	192.97	99.17	12	12
Puget Sound Energy	190.87	99.91	12	12
Seattle Department of Lighting	168.33	99.90	11	11
Sierra Pacific Power Company	179.82	94.14	12	11
Tacoma Power	198.58	100.00	12	12
<b>WSCC-RMPA</b>				
Public Service Co of Colorado	174.52	92.75	12	12
WAPA - Colorado Missouri	191.99	95.90	12	12
WAPA - Upper Great Plains West	273.49	99.52	12	12