Northeast Utilities System

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May 21, 2009

Mr. S. Derek Phelps
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Docket No. 370 - CT Greater Springfield Reliability Project

Dear Mr. Phelps:

This letter provides the response to requests for the information listed below.

CL&P responses to the remaining 25 interrogatories in OCC-02 are in progress. We apologize for the delay.

Response to OCC-02 Interrogatories dated 04/24/2009
OCC-028, 034, 035, 046, 049, 050, 053, 056, 059, 060

Very truly yours,

Robert Carberry

Robert Carberry
Project Manager
NEEWS Siting and Permitting
NUSCO
As Agent for CL&P

cc: Service List

Witness: CL&P Panel
Request from: Office of Consumer Counsel

Question:
Please provide CL&P's best estimate of the effect of the CVETRP alone, without any other portions of the NEEWS system, on the difference between Connecticut and Hub or WCMA locational market prices in the ISO energy market.

Response:

GSRP and MMP are reliability projects. They were designed to correct transmission facility overloads and unacceptable low-voltage conditions. They were not designed for the purpose of reducing locational market prices in the ISO energy market or to provide other market benefits. CL&P believes that, because GSRP will address system conditions that typically result in differences in LMP's, such as by increasing transfer limits between Massachusetts and Connecticut and increasing the reliability of the greater Springfield transmission system (thereby reducing the need to dispatch local and higher cost generation), the projects may reduce market prices. However, CL&P does not forecast such effects in the regular course of its business of providing regulated transmission services, and has not attempted to do so with respect to GSRP. In contrast to the demonstrable reliability benefits of a transmission project, its ancillary future economic benefits (like those of a generating plant) are necessarily speculative. Any such projection requires multiple assumptions concerning, among other things, future system topology, future market conditions, and future market rules; and these assumptions become more uncertain as a projection reaches further out into the future. Accordingly, CL&P has retained an economic consulting firm to estimate the ancillary economic benefits of GSRP and other NEEWS projects, including their impact on the LFRM. CL&P will provide that report to the Council, the OCC, and the service list when it is finished.

Witness: CL&P Panel
Request from: Office of Consumer Counsel

Question:
With respect to the statement that "The Needs Analysis determined that these resources were not sufficient to reliably serve the Springfield area load; and that the Springfield Area would suffer a "load deficiency" in 2009 and through the end of the study period in 2016. Needs Analysis, at 10, 11." (Application p. F-26)

a. Please reconcile the 874 MW of Springfield capacity for 2009 listed in Needs Analysis Table 3-1 with the 1,289 MW of existing Springfield capacity listed in Application Table F-1.
b. Please identify the 31 MW of capacity over 60 years old assumed retired in Needs Analysis Tables 3-1 and 3-2.
    i. Please identify the units listed in Application Table F-1 that total 31 MW, or reconcile Table F-1 with Needs Analysis Tables 3-1 and 3-2.
c. Please provide the derivation of the unavailable generation in Needs Analysis Tables 3-1 and 3-2.
d .Please specify whether the "CT" and "RI" columns refer to the load and capacity in the states, in the load zones of those names, or the RSP areas of those names.

Response:

a. The 874 MW of Springfield capacity listed in Table 3-1 of the Need Analysis does not include approximately 412 MW of Stony Brook generation. The generation capacity for the Springfield area listed in the Needs Analysis, Table 3-1, contains the generation located within this area that is directly connected and serves the load on the 115-kV transmission system west of the Ludlow Substation. The Stony Brook generating station is radially connected to the 345-kV bus at the Ludlow Substation. The operation of the Stony Brook generating units does not reduce the requirement of the system to bring power into the Springfield area to serve customer load.

b. The 31 MW of generation listed in Table 3-1 of the Needs Analysis is Cobble Mountain generation. Table F-1 of the Application derates Cobble Mountain generation to 17 MW.

c. ISO-NE developed the unavailable generation levels listed in Tables 3-1 and 3-2. The ISO-NE derivation may be provided in their response to Data Request OCC-02, Q-OCC-062.

d. For Connecticut, the load includes the entire state. However, the capacity includes only in-state generation and does not include the Lake Road facility. For Rhode Island, National Grid would be the best source for the information requested on specific load-serving substations and generating plant locations.

Witness: CL&P Panel
Request from: Office of Consumer Counsel

Question:
Please provide the Springfield loads from the 2009 ISO-NE load forecast corresponding to the 2009 and 2016 Springfield loads reported in Needs Analysis Tables 3-1 and 3-2.

Response:

The attachment on page 2 of 2 contains 90/10 peak-load forecast data for the western Massachusetts substations, including the substations within the Springfield area, based on the 2009 ISO-NE CELT Report dated April 2009.

2009 Western Massachusetts Area Substation Summer 90/10 Peak Load Forecast

2009

					FCA1		FCA2		FCA3		FCA4		FCA5		FCA6		FCA7		FCA8		FCA9
				Passive Demand Response - MW	45		53		53		53		53		53		53		53		53
				Active Demand Response - MW	40		51		51		51		51		51		51		51	CAGR	51
				FYAF	YF %	DR-MW	YF %	DR-MW	YF %	DR-MW	YF %	DR-MW	YF %	DR-MW	YF %	DR-MW	YF %	DR-MW	YF %	DR-MW	YF %	DR-MW
Western Massachusetts Area (Zones 141 - 160)			Actual	1.034	1.12	84	1.85	104	1.75	104	1.28	104	1.27	104	1.46	104	1.03	104	1.22	104	1.01	104
Substation	Load kV	Bus #	2008	2009	2010		2011		2012		2013		2014		2015		2016		2017		2018
Agawam	13.8	73024	37.8	38.1	38.5	2.8	40.1	3.1	40.5	3.1	41.4	3.1	41.9	3.1	42.5	3.1	42.9	3.1	43.5	3.1	43.9	3.1
Amherst	13.8	73017	19.6	20.3	20.5	1.5	20.8	1.6	21.2	1.6	21.4	1.6	21.7	1.6	22.0	1.6	22.3	1.6	22.5	1.6	22.8	1.6
Blandford	23.0	73022	12.0	12.4	12.5	0.9	12.7	1.0	13.0	1.0	13.1	1.0	13.3	1.0	13.5	1.0	13.6	1.0	13.8	1.0	13.9	1.0
Brockwood	13.8	73027	62.7	64.9	65.6	4.7	66.6	5.2	67.7	5.2	68.6	5.2	69.5	5.2	70.5	5.2	71.2	5.2	72.1	5.2	72.8	5.2
Buck Pond (WG&E)	23.0	71753	22.6	23.4	23.6	1.7	24.0	1.9	24.4	1.9	24.7	1.9	25.0	1.9	25.4	1.9	25.7	1.9	26.0	1.9	26.2	1.9
Chicopee (CELD)	13.8	71761/71762	92.8	96.1	97.1	6.9	98.6	7.6	100.4	7.6	101.7	7.6	103.0	7.6	104.4	7.6	105.5	7.6	106.8	7.6	107.9	7.6
Clinton	13.8	73026	58.8	60.8	61.5	4.4	62.4	4.8	63.5	4.8	64.3	4.8	65.2	4.8	66.1	4.8	66.8	4.8	67.6	4.8	68.3	4.8
East Longmeadow (NGrid)	13.2	72465	31.0	32.1	32.4	2.3	32.9	2.6	33.5	2.6	33.9	2.6	34.4	2.6	34.8	2.6	35.2	2.6	35.6	2.6	36.0	2.6
East Springfield	13.8	73028	50.9	52.6	53.2	3.8	54.0	4.2	55.0	4.2	55.7	4.2	56.4	4.2	57.2	4.2	57.8	4.2	58.5	4.2	59.1	4.2
Elm (WG&E)	23.0	71752	58.9	60.9	61.6	4.4	62.5	4.8	63.6	4.8	64.4	4.8	65.3	4.8	66.2	4.8	66.9	4.8	67.7	4.8	68.4	4.8
Five Corners (NGrid)	13.2	72479	6.0	6.2	6.3	0.4	6.4	0.5	6.5	0.5	6.6	0.5	6.6	0.5	6.7	0.5	6.8	0.5	6.9	0.5	7.0	0.5
Florence (NGrid)	13.8	72481	27.9	28.8	29.2	2.1	29.6	2.3	30.1	2.3	30.5	2.3	30.9	2.3	31.4	2.3	31.7	2.3	32.1	2.3	32.4	2.3
Franconia	13.8	73031	40.2	41.6	42.0	3.0	42.7	3.3	43.4	3.3	44.0	3.3	44.5	3.3	45.2	3.3	45.7	3.3	46.2	3.3	46.7	3.3
Gunn	23.0	73029	30.6	31.8	32.2	2.3	32.7	2.5	33.3	2.5	33.7	2.5	34.1	2.5	34.6	2.5	35.0	2.5	35.4	2.5	35.8	2.5
Holyoke (HG&E)	115	71768	29.7	30.7	31.1	2.2	31.5	2.4	32.1	2.4	32.5	2.4	32.9	2.4	33.4	2.4	33.7	2.4	34.1	2.4	34.5	2.4
Ingleside (HG&E)	115	71767	29.6	30.6	30.9	2.2	31.4	2.4	32.0	2.4	32.4	2.4	32.8	2.4	33.3	2.4	33.6	2.4	34.0	2.4	34.4	2.4
Ludlow	13.8	73021	19.4	20.1	20.3	1.4	20.6	1.6	21.0	1.6	21.2	1.6	21.5	1.6	21.8	1.6	22.0	1.6	22.3	1.6	22.5	1.6
Midway	13.8	73025	3.7	3.8	3.9	0.3	3.9	0.3	4.0	0.3	4.0	0.3	4.1	0.3	4.2	0.3	4.2	0.3	4.3	0.3	4.3	0.3
Midway (NGrid)	13.8	72482	28.9	29.9	30.2	2.1	30.7	2.4	31.2	2.4	31.6	2.4	32.0	2.4	32.5	2.4	32.8	2.4	33.2	2.4	33.6	2.4
Orchard	13.8	73077	34.2	35.4	35.8	2.5	36.3	2.8	36.8	2.8	37.4	2.8	37.9	2.8	38.5	2.8	38.8	2.8	39.3	2.8	39.7	2.8
Pineshed (SHEL)	13.8	71758	28.7	29.7	30.0	2.1	30.5	2.4	31.0	2.4	31.4	2.4	31.8	2.4	32.3	2.4	32.6	2.4	33.0	2.4	33.3	2.4
Piper	13.8	73030	44.4	45.9	46.4	3.3	47.1	3.7	48.0	3.7	48.6	3.7	49.2	3.7	49.8	3.7	50.4	3.7	51.0	3.7	51.6	3.7
Prospect (HG&E)	13.8	73076	9.1	9.4	9.5	0.7	9.7	0.7	9.8	0.7	10.0	0.7	10.1	0.7	10.2	0.7	10.3	0.7	10.5	0.7	10.6	0.7
Silver	13.8	73032	36.3	37.5	38.0	2.7	38.5	3.0	39.2	3.0	39.7	3.0	40.2	3.0	40.8	3.0	41.2	3.0	41.7	3.0	42.2	3.0
Southwick	13.8	73023	21.3	22.0	22.3	1.6	22.6	1.8	23.0	1.8	23.3	1.8	23.6	1.8	23.9	1.8	24.2	1.8	24.5	1.8	24.7	1.8
West Springfield	13.8	73081	40.0	41.4	41.8	3.0	42.5	3.3	43.2	3.3	43.8	3.3	44.3	3.3	45.0	3.3	45.4	3.3	46.0	3.3	46.5	3.3
Greater Springfield Area Subtotal =			877.4	907.2	917.4	65.3	931.6	72.2	947.9	72.2	960.0	72.2	972.2	72.2	985.4	72.2	996.6	72.2	1008.8	72.2	1018.9	72.2
Amherst	13.8	73018	19.5	20.2	20.4	1.5	20.7	1.6	21.1	1.6	21.3	1.6	21.6	1.6	21.9	1.6	22.1	1.6	22.4	1.6	22.6	1.6
Ashfield	23.0	73020	2.5	2.6	2.6	0.2	2.7	0.2	2.7	0.2	2.7	0.2	2.8	0.2	2.8	0.2	2.8	0.2	2.9	0.2	2.9	0.2
Berkshire	23.0	73010	7.9	8.2	8.3	0.6	8.4	0.7	8.5	0.7	8.6	0.7	8.8	0.7	8.9	0.7	9.0	0.7	9.1	0.7	9.2	0.7
Cumberland	13.8	73074	35.5	36.7	37.1	2.6	37.7	2.9	38.4	2.9	38.8	2.9	39.3	2.9	39.9	2.9	40.3	2.9	40.8	2.9	41.2	2.9
Doreen	23.0	73012	27.1	28.0	28.3	2.0	28.8	2.2	29.3	2.2	29.7	2.2	30.0	2.2	30.5	2.2	30.8	2.2	31.2	2.2	31.5	2.2
Doreen (GE)	115	72957	4.0	4.1	4.2	0.3	4.2	0.3	4.3	0.3	4.4	0.3	4.4	0.3	4.5	0.3	4.5	0.3	4.6	0.3	4.6	0.3
French King	115	72939	5.3	5.5	5.5	0.4	5.6	0.4	5.7	0.4	5.8	0.4	5.9	0.4	6.0	0.4	6.0	0.4	6.1	0.4	6.2	0.4
Montague	13.8	73075	29.5	30.5	30.8	2.2	31.3	2.4	31.9	2.4	32.3	2.4	32.7	2.4	33.2	2.4	33.5	2.4	33.9	2.4	34.3	2.4
Oswald	23.0	73011	44.4	45.9	46.4	3.3	47.1	3.7	48.0	3.7	48.6	3.7	49.2	3.7	49.8	3.7	50.4	3.7	51.0	3.7	51.6	3.7
Partridge (+NGrid)	23.0	73015	11.9	12.3	12.4	0.9	12.6	1.0	12.9	1.0	13.0	1.0	13.2	1.0	13.4	1.0	13.5	1.0	13.7	1.0	13.8	1.0
Plainfield	23.0	73016	3.4	3.5	3.6	0.3	3.6	0.3	3.7	0.3	3.7	0.3	3.8	0.3	3.8	0.3	3.8	0.3	3.9	0.3	3.9	0.3
Pleasant	23.0	73014	11.6	12.0	12.1	0.9	12.3	1.0	12.5	1.0	12.7	1.0	12.9	1.0	13.0	1.0	13.2	1.0	13.3	1.0	13.5	1.0
Pleasant (NGrid)	23.0	72458	32.5	33.6	34.0	2.4	34.5	2.7	35.1	2.7	35.6	2.7	36.0	2.7	36.5	2.7	36.9	2.7	37.4	2.7	37.7	2.7
Pudick	13.8	73019	32.2	33.3	33.7	2.4	34.2	2.6	34.8	2.6	35.2	2.6	35.7	2.6	36.2	2.6	36.6	2.6	37.0	2.6	37.4	2.6
Shelburne	69	73005	3.9	4.0	4.1	0.3	4.1	0.3	4.2	0.3	4.3	0.3	4.3	0.3	4.4	0.3	4.4	0.3	4.5	0.3	4.5	0.3
Woodland	23.0	73013	1.6	1.7	1.7	0.1	1.7	0.1	1.7	0.1	1.8	0.1	1.8	0.1	1.8	0.1	1.8	0.1	1.8	0.1	1.9	0.1
Woodland (NGrid)	23.0	72489/72490	11.8	12.2	12.3	0.9	12.5	1.0	12.7	1.0	12.9	1.0	13.1	1.0	13.3	1.0	13.4	1.0	13.6	1.0	13.7	1.0
Pittefield/Berkshire Area Subtotal =			284.6	294.3	297.6	21.2	302.2	23.4	307.5	23.4	311.4	23.4	315.4	23.4	320.0	23.4	323.3	23.4	327.2	23.4	330.5	23.4
Western Massachusetts Area Loads Subtotal =			1162.0	1201.5	1215.0	86.4	1233.8	95.6	1255.4	95.6	1271.5	95.6	1287.6	95.6	1306.4	95.6	1319.9	95.6	1336.0	95.6	1348.5	95.6
Western Massachusetts Area Service Loads Net of DR =						1138.2		1159.8		1175.8		1192.0		1210.8		1224.2		1240.3		1253.8		

Western Massachusetts Area Loads Plus CL&P (Zone 171)

Scitico (CL&P)	23.0	73457	78	80.7	81.6	5.8	82.6	6.4	84.3	6.4	85.3	6.4	86.4	6.4	87.7	6.4	88.6	6.4	89.7	6.4	90.6	6.4
Franconia (CL&P)	13.8	73031	9.4	9.7	9.8	0.7	10.0	0.8	10.2	0.8	10.3	0.8	10.4	0.8	10.6	0.8	10.7	0.8	10.8	0.8	10.9	0.8
Silver (CL&P)	13.8	73032	6.5	6.7	6.8	0.5	6.9	0.5	7.0	0.5	7.1	0.5	7.2	0.5	7.3	0.5	7.4	0.5	7.5	0.5	7.5	0.5
Southwick (CL&P)	13.8	73023	7.8	8.1	8.2	0.6	8.3	0.8	8.4	0.6	8.5	0.6	8.6	0.6	8.8	0.6	8.9	0.8	9.0	0.6	9.1	0.6
Western Massachusetts Area Loads (including CL&P) =			1263.7	1306.7	1321.3	7.6	1341.8	8.4	1365.3	8.4	1382.7	8.4	1400.3	8.4	1420.7	8.4	1435.4	8.4	1452.9	8.4	1467.6	8.4
Western Massachusetts Area Plus CL&P Loads Net of DR =						1333.4		1356.8		1374.4		1391.8		1412.4		1427.0		1444.5		1459.2		
ISO-NE 2008 CELT Report 90/10 Summer Peak Forecast =				1338.0	1353.0		1374.0		1398.0		1416.0		1434.0		1455.0		1470.0		1488.0		1503.0	

Notes:

1. The First Year Adjustment Factor (FYAF) is used to normalize the historic 2008 peak load data to the forecasted 2009 summer peak period load level by ISO-NE in its April 2009 filing of the Capacity, Energy, Loads and Transmission Report (CELT).

2. The Yearly Forecast (YF) percentages are the individual growth rates forecasted by ISO-NE for the period. The individual substation loads are adjusted each year by the representative YF. The Compound Annual Growth Rate (CAGR) is a growth rate factor over the forecast period used to develop future load forecast levels that equal the ISO-NE published forecast in its 2009 CELT Report.

3. In accordance with ISO-NE, western Massachusetts load accounts for 60% of the CMA/WMA area, including the National Grid East Longmeadow load. Demand Response resources assigned to the western Massachusetts area are based on a load ratio share.

4. Demand Response levels are based on FCA2 results. Passive Demand Response resources are assumed to be 100% available. Active Demand Response resources are assumed to be 75% available. The values are grossed up by 5.5% to account for distribution losses. HG&E, WMECO French King and Doreen load are modeled on the 115-kV system.

5. Transmission losses are assumed to be approximately 2.5% (~30 MW). The Total Western Massachusetts Load does not include transmission losses. The ISO-NE CELT forecast loads include these losses. The addition of western Massachusetts substation loads and assumed transmission losses will be approximately equal to the ISO-NE forecast load level. WMECO load power factors are assumed to be .99 lagging at the distribution voltage level and .98 lagging at the 115-kV transmission level.

6. In 2011, National Grid (NGrid) will construct a new 115-kV switching station in Hampden, MA to electrically serve NGrid's East Longmeadow load from the WMECO transmission system. This load is assumed to be in the Greater Springfield area starting in 2006.

Witness: CL&P Panel
Request from: Office of Consumer Counsel

Question:
Please provide ISO-NE's rules and standards for real-time 10-minute spinning reserves, 10-minute non-spinning reserves and 30-minute operating reserves for:

a. the Springfield area
b. Western Massachusetts
c. Connecticut.

Response:

ISO-NE Operating Procedure No. 8 titled Operating Reserve and Regulation, dated October 1, 2006 identifies the requirements for operating reserves for the New England control area. An internet link to this document follows this response. The rules and standards for calculating real-time 10-minute spinning reserves, 10-minute non-spinning reserves and 30-minute operating reserves throughout New England, including Springfield, Western Massachusetts and Connecticut, are in this procedure.

http://www.iso-ne.com/rules_proceds/operating/isone/op8/op8_rto_final.pdf

Witness: CL&P Panel
Request from: Office of Consumer Counsel

Question:
Please provide the generation and interface tables, comparable to those shown in redacted Attachment A.4 of CSC-018, SP0 1 Bulk for:

a. Each N-1 dispatch from each of the "all-lines-in" base dispatch runs (D1, D2, D3, the D2 sensitivity with 100 MW on the CSC line, and each of the cases with Meridian and Towantic).
b. Each N-1-1 dispatch from each of the base dispatch runs.

Response:
Attachment A.5 of the study report titled "*Analysis of the Technical Effectiveness of Proposed Generation at Meriden & Oxford, Ct in Resolving Springfield and North-Central Connecticut Area Transmission Reliability Problems*" was included in the CSC-01, Q-CSC-018-SP01 bulk materials, in both CEII form for qualified recipients and in redacted form for others on the Service List, and contains the requested generation and interface tables. The attachment is titled "ATTACHMENT A.5: *POWERFLOW DISPATCH SUMMARY DOCUMENT*" and contains seven power-flow summary documents arranged in the following order.

1. Power-flow summary for Dispatch D1, "all-lines-in" case used for N-1 analysis
2. Power-flow summary for Dispatch D1, "all-lines-in" case used for N-1-1 analysis
3. Power-flow summary for Dispatch D2, "all-lines-in" case used for N-1 analysis
4. Power-flow summary for Dispatch D2, "all-lines-in" case used for N-1-1 analysis
5. Power-flow summary for Dispatch D3, "all-lines-in" case used for N-1 analysis
6. Power-flow summary for Dispatch D3, "all-lines-in" case used for N-1-1 analysis
7. Power-flow summary for Dispatch D2, "all-lines-in" case with flow on CSC set to 100 MW; case used for N-1 analysis

Witness: CL&P Panel
Request from: Office of Consumer Counsel

Question:
Please clarify whether overloads in the power simulations are defined based on long-term-emergency (LTE) ratings or some other standard.

(a) Please specify how long transmission circuits are assumed able to operate above the LTE or other standard used.

Response:
Power flows for contingency analyses (N-1) are based on the applicable emergency ratings in accordance with ISO-NE Planning Procedure No. 3 titled, Reliability Standards for the New England Area Bulk Power Supply System. Under N-1 contingency conditions the applicable emergency rating is a transmission facility's Long Time Emergency (LTE) rating developed in accordance with ISO-NE Planning Procedure No. 7 titled "Procedure for Determining and Implementing Transmission Facility Ratings in New England". During the summer period a transmission facility may be operated in N-1 conditions up to its LTE rating for up to 12 hours. A power flow on a transmission facility which exceeds its LTE rating must be reduced to below that rating within 15 minutes by system operator action.

Witness: CL&P Panel
Request from: Office of Consumer Counsel

Question:
Please clarify whether the "D1 With CT Import 1700 MW" dispatch case is the dispatch following the N-1 contingency with the system operating in dispatch mode DI.

Response:
The "D1 with CT Import 1700 MW" dispatch is the dispatch following the N-1 contingency with the system operating in dispatch mode D1 prior to the N-1-1 contingency.

Witness: CL&P Panel
Request from: Office of Consumer Counsel

Question:
Please provide the PDF attachments described at pp. 16, 17 and 84 of CSC-018, SP01 Bulk, as pdf files.

a. If available, please provide all of CSC-018, SP01 Bulk, as a searchable pdf.

Response:

The PDF attachments described in pp. 16, 17 and 84 of the CSC-01, Q-CSC-01-SP01 Bulk were provided in searchable PDF file format on a compact disk in both CEII form for qualified recipients and in redacted form for others on the Service List. These attachments are titled:

Power flow summary - Meriden Plant
Power flow summary - Towantic Plant
Attachment A.5: *Powerflow Dispatch Summary Document*

Witness: CL&P Panel
Request from: Office of Consumer Counsel

Question:
Please explain why Devon 7 and 8 are listed as generating in the Power Flow Summaries.

a. Are these units currently operating, or expected to return to service?

Response:

Devon 7 and 8 have been retired. The units were in the original ISO-NE base cases used for the need analyses. The updated need analyses will remove these units from service, and other Connecticut units will be dispatched to maintain the same Connecticut Import level. This will not have any material impact on the results due to the location of these generating units in the Connecticut transmission system.

Witness: CL&P Panel
Request from: Office of Consumer Counsel

Question:
Please identify the generation listed as GLNBROOK in the Power Flow Summaries.

Response:
The Glenbrook STATCOM is listed as GLNBROOK in power-flow summaries. The Glenbrook STATCOM is modeled in the power-flow base cases as a generator that does not produce megawatts but which produces or absorbs MVARs. The power output in megawatts is always listed as zero, and the reactive output of the STATCOM varies between +/- 150 MVARs.