

STATE OF MAINE  
PUBLIC UTILITIES COMMISSION

Docket No. 2008-255

September 17, 2008

CENTRAL MAINE POWER COMPANY  
and PUBLIC SERVICE OF NEW  
HAMPSHIRE Request for Certificate of  
Public Convenience and Necessity for the  
Maine Power Reliability Program  
Consisting of the Construction of  
Approximately 350 Miles of 345 kV and 115  
kV Transmission Lines ("MPRP")

EXAMINER'S DATA REQUEST  
NO. 4

---

### I. GENERAL INSTRUCTIONS

1. Please provide the response to each numbered request on a separate sheet of paper, or papers. Each sheet of paper should be three-hole punched.
2. For each response, please state (1) the name(s) and title(s) of the person(s) responsible for preparing the response, and (2) the name(s) and title(s) of the person(s) who are competent to give testimony concerning the response and all documents produced as part of the responses.
3. Where information requested is not available in the precise form described in the question, or is not available for all years indicated, please provide all information with respect to the subject matter of the question that can be identified in the Utility's Work papers and files, or that is otherwise available.
4. As used in this data request, "available" means within the Utility's knowledge, possession, or control, or within the party's power, capacity or ability to retrieve or obtain from an affiliate, a contractor, or any other source.

### II. DATA REQUEST

1. (Volume VII, Exhibit 1-1, Page 2 of 573) Please identify any system design standards that require the system to be designed to withstand the contingencies modeled with the assumption that the SPS failed to operate. As part of your response, explain if the conditions modeled would be considered extreme contingencies from the system that exists today.

2. (Volume VII, Page 2 of 573) Were all the SPSs that were deleted approved by ISO-NE? NPCC?
3. (Volume VII, Page 4 of 573) Please supply the ratings for all 345/115kV transformers in Maine and the seacoast area of New Hampshire. In your response, please include temperature limits and loss of life used. If PP-7 was used to calculate ratings for the transformer, also include similar information for the previous ratings.
4. (Volume VII, Page 4 of 573) Please provide a detailed list of the recent changes that were made in the rating methodology for line ratings established by ISO-NE. Please also identify in detail what level of the Maine Transmission System is required under ISO-NE PP-7 to adhere to this new rating methodology.
5. (Volume VII, Page 4 of 573) Please describe in detail why CMP decided to go with the new PP-7 rating procedures. Was it optional? Was CMP rating its equipment above their capabilities and if, so, why did CMP not know it at the time? What has PSNH done in this regard?
6. Please define normal transfer limit, emergency transfer limit, and normal transfer level as used in the ISO-NE design standards.
7. Please define how each petitioner interprets what a "reasonably stressed system" is as required to be used in design studies.
8. (Volume VII, Exhibit 1-1, Page 13 of 573) Please provide a larger wall size copy of the map shown in figure 2-1, Maine Transmission System. Please also provide similar size copy of a map illustrating the petitioners proposed MPRP routing.
9. (Volume VII, Exhibit 1-1, Page 15 of 573) Please explain why you use 30 minutes to adjust system conditions prior to the next contingency where the standards use 10 minutes.
10. (Volume VII, Exhibit 1-1, Page 15 of 573) Please provide a detailed explanation/description on what segments of the infrastructure & lines within the system is required to be designed to the N-1-1 Criteria under a Regional Control Area.
11. (Volume VII, Page 15 of 573) Please provide a description/definition as to what segments or portions of the transmission grid is considered as part of the interconnected bulk electrical system for the eastern Interconnection.

12. (Volume VII, Page 15 of 573) Please Identify and define what level of the existing Transmission System in Maine and New England governed by ISO-NE is required to perform and adhere to National and Regional Standards.
13. (Volume VII, Page 16 of 573) Please provide a detailed description of the requirements needed to qualify as a Local Transmission Owner.
14. (Volume VII, Page 16 of 573) Please provide an explanation and give an example of what would be a "regulated transmission solution".
15. (Volume VII, Page 20 of 573) It appears that 100 degrees F is used to rate transmission lines and a lower temperature occurs on the 90/10 peak design day. What would be the probability of occurrence of a peak day that reached 100 degrees F and what would be the average temperature for the day?
16. (Volume VII, Page 20 of 573) Please explain why the LTCs are allowed to regulate and the PARs are not.
17. (Volume VII, Page 20 of 573) Please show what SPSs were required to remedy any deficiencies of the baseline study. In your response, please be specific as to what SPSs remedy which deficiency.
18. (Volume VII, Page 20 of 573) Please provide a list of the Line Sections within the Maine Transmission System that are or have been grandfathered in the rating methodology.
19. (Volume VII, Pages 21-26 of 573) Please list all 115kV faults and locations that faults were simulated where the 115kV primary relay system was not in service and the disturbance had to be cleared in backup time.
20. Please provide documentation that shows that the ISO-NE requires that planning studies be simulated at 100 percent load levels with a 90/10 probability of occurrence.
21. (Volume VII, Page 27 of 573) Please provide the current status of the planned 2007 replacement of the MEPCO corridor related SPS that are specific to the original flow based SPSs. Please also provide the current status from the Operational Planning Study for any developments regarding the set points on the MEPCO corridor SPSs, Maine Yankee DCT, New Brunswick – Maritimes and the NRI.
22. (Volume VII, Page 34 of 573, Table 4-2) Please show what the normal and emergency transfer limits are in both directions for these interfaces today and in 2017. As part of your response, please show contractual power flows and direction for the same time periods.

23. (Volume VII, Page 44 of 573) Please supply what the south to north transfer limit is today for the Maine to New Hampshire interface for all lines in service and one line out of service.
24. (Volume VII, Pages 149-151 of 573) Please reconcile why the Maine to New Hampshire interface backs off only approximately 240 MW when the New Brunswick to New England interface is changed from -300 MW to 0 MW.
25. (Volume VII, Pages 149-151 of 573) Please reconcile why the Maine to New Hampshire interface backs off only approximately 700 MW when the New Brunswick to New England interface is changed from 0 MW to 1000 MW.

Dated: September 17, 2008

Respectfully submitted,

---

James Buckley  
Hearing Examiner