

**STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL**

| | | |
|--|---|----------------------|
| The Connecticut Light & Power Company |) | Docket 424 |
| Application for a Certificate of Environmental |) | |
| Compatibility and Public Need for the Connecticut |) | |
| Portion of the Interstate Reliability Project that |) | |
| traverses the municipalities of Lebanon, Columbia, |) | |
| Coventry, Mansfield, Chaplin, Hampton, Brooklyn, |) | |
| Pomfret, Killingly, Putnam, Thompson, and |) | |
| Windham, which consists of (a) new overhead |) | |
| 345-kV electric transmission lines and associated |) | |
| facilities extending between CL&P's Card Street |) | |
| Substation in the Town of Lebanon, Lake Road |) | |
| Switching Station in the Town of Killingly, and the |) | |
| Connecticut/Rhode Island border in the Town of |) | |
| Thompson; and (b) related additions at CL&P's |) | |
| existing Card Street Substation, Lake Road |) | |
| Switching Station, and Killingly Substation. |) | July 17, 2012 |

PREFILED TESTIMONY OF ISO NEW ENGLAND INC.

By Messrs. Stephen Rourke and Brent Oberlin

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1 **1. Introduction**

2 Q: *Please state your name, position, and business address.*

3 A: *Mr. Rourke.* My name is Stephen Rourke. I am Vice President of System
4 Planning at the ISO. My business address is One Sullivan Road, Holyoke,
5 Massachusetts 01040.

6 *Mr. Oberlin.* My name is Brent Oberlin. I am Director of Transmission Planning
7 at the ISO.

8 Q: *Please summarize your experience and qualifications.*

9 A: *Mr. Rourke:* I have a Bachelor of Science degree in Electrical Engineering from
10 Worcester Polytechnic Institute and a Master of Business Administration degree
11 from Western New England College. In my current position as Vice President of
12 System Planning, I am responsible for overseeing development of the annual
13 Regional System Plan (“RSP”); analysis and approval of new transmission and
14 generation interconnection projects, including the approval of qualification of
15 generating capacity resources, demand resources, and import capacity resources
16 to participate in the Forward Capacity Auction¹ (“FCA”); implementing the
17 Federal Energy Regulatory Commission (“FERC”) approved generator
18 interconnection process; developing the ISO’s findings for Transmission Cost
19 Allocation; and supporting the capacity markets in New England.

20 Previously, I served as the ISO’s Director, Reliability and Operations Services. I
21 was also a former manager of the Rhode Island—Eastern Massachusetts—

¹ Capitalized terms used but not otherwise defined in this filing have the meanings ascribed thereto in the ISO’s Transmission, Markets and Services Tariff (FERC Electric Tariff No. 3) (the “Tariff”).

1 Vermont Energy Control center in Westborough, Massachusetts and former
2 manager of marketing operations for Northeast Utilities/Select Energy Inc. in
3 Berlin, Connecticut. I have over 30 years of experience in operations and
4 planning of the New England bulk power system.

5 *Mr. Oberlin.* I began my career with the Northeast Nuclear Energy Company, a
6 subsidiary of Northeast Utilities, in 1992 where I advanced to Project Engineer.
7 From 1996 to 2006, I worked in the Transmission Planning Department at
8 Northeast Utilities where I advanced to Project Manager. As Project Manager,
9 my key responsibilities included system analysis, planning and interconnection
10 studies for Southwest Connecticut.

11 I joined the ISO in 2006. Initially, I served as Manager, Area Transmission
12 Planning for northern New England. In 2011, I was promoted to Director,
13 Transmission Planning. My responsibilities include regional bulk power system
14 planning, interconnection studies, evaluation of the continuing need for
15 generators, and technical support for the Forward Capacity Market.

16 I am a Licensed Professional Engineer in the State of Connecticut and hold a
17 Bachelor of Science degree in Electric Power Engineering from Rensselaer
18 Polytechnic Institute.

19 Q: *Have you previously testified before the Connecticut Siting Council?*

20 A. *Mr. Rourke:* Yes. I testified in the Greater Springfield Reliability Project
21 proceeding in Docket No. 370.

1 *Mr. Oberlin:* Yes, most recently in the Middletown Norwalk proceeding in
2 Docket No. 272. However, I should note that I was an employee of Northeast
3 Utilities at the time.

4

5 **2. Summary of Testimony**

6 Q: *What is the purpose of your testimony in this proceeding?*

7 A: The testimony describes generally the ISO’s mission and responsibilities. It also
8 describes the ISO’s planning criteria and how they relate to the FERC, the North
9 American Electric Reliability Corporation (“NERC”) and the Northeast Power
10 Coordinating Council, Inc. (“NPCC”) standards and requirements for the Nation’s
11 bulk power transmission system. The testimony supports the need for the
12 Interstate Reliability Project (“Interstate”) to address identified reliability
13 concerns in southern New England.

14 Q: *Please summarize your testimony.*

15 A: Based on studies to date and applicable regional reliability standards, the ISO is
16 concerned about the reliability of the existing electricity delivery system in
17 southern New England and the transfer of power over the transmission system
18 connecting Massachusetts, Connecticut, and Rhode Island. In an effort to
19 evaluate the ability of the transmission system in southern New England to
20 continue to perform reliably, a working group consisting of system planning
21 engineers from the ISO, National Grid and Northeast Utilities was formed (the
22 “Working Group”). The Working Group undertook a comprehensive forward-
23 looking transmission planning study, known as the Southern New England

1 Transmission Reliability analysis. This analysis is documented in the 2011
2 Updated Needs Report referenced in the Application in this proceeding.
3 On July 10, 2012, Northeast Utilities filed in this proceeding a follow-up to the
4 2011 Updated Needs Report entitled *Follow-Up Analysis to the 2011 New*
5 *England East-West Interstate Reliability Project Component Updated Needs*
6 *Assessment* (“Follow-Up Needs Assessment”). The Follow-Up Needs
7 Assessment evaluated the reliability of the southern New England Transmission
8 system under 2022 projected system conditions. The Follow-Up Needs
9 Assessment also accounted for the results from FCA 6, which was held in April
10 2012; the most recent load forecast as reported in the 2012 Capacity, Energy,
11 Loads and Transmission (“CELT”) report; and the newly formulated Energy
12 Efficiency forecast published in the CELT report.

13 Transmission reliability, which can be described as the ability to supply the area’s
14 load under all design contingency events, within all applicable equipment ratings,
15 and while serving the needs of the region, is a major concern for the southern
16 New England system. Critical weaknesses in Connecticut are identified in
17 Section 5.2.3.4 of the Follow-Up Needs Assessment, where there are reliability
18 criteria violations. Without transmission improvements, the system may fail to
19 provide reliable service in these areas.

20 After establishing the existence, nature and location of the reliability concerns, the
21 Working Group identified a number of possible solutions and tested each to
22 determine its ability to eliminate the criteria violations. As a result, a number of
23 possible transmission solutions were developed. This analysis is detailed in the

1 New England East-West Interstate Reliability Project Component Updated
2 Solutions Report dated February 2012 (“Solutions Report”). The Solutions
3 Report explains that Interstate was selected as the preferred transmission solution
4 to meet the reliability need identified in the 2011 Updated Needs Report. While
5 the ISO has updated the reliability need in the Follow-Up Needs Assessment,
6 Interstate, as identified in the Solutions Report, remains the preferred transmission
7 solution to address the reliability need in the Follow-Up Needs Assessment.
8 Interstate consists of approximately 75 miles of new 345 kV transmission lines to
9 be developed predominantly along existing rights-of-way, as well as
10 modifications to substations and switching stations. In Connecticut, the project
11 includes new overhead 345 kV transmission lines and associated facilities
12 between the Card Street substation, Lake Road switching station and the
13 Connecticut/Rhode Island border. In addition, the project includes modifications
14 to Card Street substation, and Lake Road switching station.

15
16 **3. The ISO’s Mission and Responsibilities**

17 Q: *Why was the ISO established?*

18 A: The “Independent System Operator” concept was developed by FERC as part of
19 the framework to support competitive electricity markets. In 1996, FERC stated
20 its principles for the ISO operation and governance in FERC Order 888.² FERC
21 identified Independent System Operator principles as: providing independent,

² Promoting Wholesale Competition Through Open Access, Non-Discriminatory Transmission Services by Public Utilities; Recovery of Stranded Costs by Public Utilities and Transmitting Utilities, Order No. 888, 75 FERC ¶ 31,036 (1996)(establishing principles for ISO's operation and governance).

1 open and fair access to the region’s transmission system; establishing a non-
2 discriminatory governance structure; facilitating market based wholesale
3 electricity rates; and ensuring the efficient management and reliable operation of
4 the regional bulk power system.

5 The ISO was established to be the Independent System Operator of the New
6 England bulk power grid on July 1, 1997,³ and it assumed certain operating and
7 transmission reservation responsibilities which had previously been carried out by
8 the New England Power Pool (“NEPOOL”), which transferred staff and assets to
9 the ISO. In May 1999, the ISO commenced administration of the restructured
10 wholesale electricity marketplace for the region.⁴ In June 2001, FERC conferred
11 authority on the ISO to be responsible for the regional transmission planning
12 process.⁵ In March 2004, FERC granted the ISO status as a Regional
13 Transmission Organization (“RTO”),⁶ and the ISO began operation as an RTO in
14 February 2005.

15 Q: *Does the ISO make any profit from its role as the Independent System Operator?*

16 A: No. As the Independent System Operator, the ISO complies with FERC Order
17 No. 889.⁷ In this regard, the ISO is an independent, private, non-profit, non-stock,

³ New England Power Pool, Order Conditionally Authorizing Establishment of an Independent System Operator and Disposition of Control Over Jurisdictional Facilities, 79 FERC ¶ 61,374 (1997) (authorizing formation of ISO).

⁴ New England Power Pool, Order Conditionally Accepting New and Revised Market Rules, 87 FERC ¶ 61,045 (1999)(authorizing ISO-NE to administer the restructured wholesale electricity marketplace).

⁵ ISO New England Inc. & New England Power Pool, Order On Rehearing Requests and Compliance Filings, 95 FERC ¶ 61384 (2001)(authorizing ISO to oversee regional transmission planning).

⁶ Order Granting RTO Status Subject to Fulfillment of Requirements and Establishing Hearing and Settlement Judge Procedures 106 FERC ¶ 61,280 (2004)(granting ISO-New England RTO status).

⁷ Open Access Same-Time Information System Conduct, Order No. 889, 75 FERC ¶ 61,078 (1996) (rules establishing and governing Open Access Same-Time Information System).

1 company. The ISO therefore has no shareholders, and its Board of Directors and
2 employees are barred from being employed by or owning shares in NEPOOL
3 Market Participants. Its budget is reviewed and approved annually by FERC, and
4 the ISO only recoups its annual expenses.

5 Q: *What are the ISO's mission and responsibilities?*

6 A: The ISO manages the New England region's bulk electric power system, operates
7 the wholesale electricity market, administers the region's Open Access
8 Transmission Tariff ("OATT"), and conducts regional transmission planning.
9 More specifically, the ISO's responsibilities include independently operating and
10 maintaining a highly reliable bulk transmission system, promoting efficient
11 wholesale electricity markets, and working collaboratively and proactively with
12 state and federal regulators, NEPOOL Participants, and other stakeholders in
13 pursuit of these goals.

14 Because FERC has conferred upon the ISO responsibility for conducting long-
15 term system planning for New England,⁸ the ISO must maintain a level of system
16 reliability that meets criteria established by NERC, NPCC, and the ISO's own
17 planning standards. Applicable reliability standards and criteria are discussed
18 more fully below.

19 It is appropriate to add that the massive outage that struck the North American
20 electric power system on August 14, 2003, causing the loss of approximately

⁸ ISO New England Inc. and New England Power Pool, Order on Reh'g, 95 FERC ¶ 61,384 (2001) (authorizing ISO to oversee regional transmission planning); ISO New England Inc and New England Power Pool, 103 FERC ¶ 61,304 (2003) (finding that "[w]e are persuaded by ISO-NE's arguments it is the appropriate authority to approve planning for transmission upgrades..."); Order Accepting Compliance Filing, As Modified, 123 FERC ¶ 61,113 (2008) (accepting ISO Tariff provisions regarding transmission planning).

1 2,500 megawatts (“MW”) of load in New England, has underscored the
2 significance of the ISO’s mission and responsibilities. The event demonstrated the
3 need for appropriate reliability standards, effective monitoring of compliance,
4 and, most importantly, a reliable bulk power transmission system. A well
5 coordinated regional system plan and additional power system infrastructure are
6 more essential than ever to ensure reliability of service to load, because without a
7 well-planned system, there may not be operating options available to maintain
8 reliable service.

9 Q: *What is the ISO’s role in conducting regional transmission planning?*

10 A: The ISO is responsible for conducting long-term regional transmission planning
11 for the New England region. Attachment K to the ISO’s OATT sets forth the
12 ISO’s responsibility for regional transmission planning in New England.

13 Specifically, Attachment K requires the ISO to undertake an assessment of the
14 needs of the bulk power system. The ISO annually prepares the RSP for the six
15 New England states that includes forecasts of future load and how the electrical
16 transmission system as planned can meet the growing demand by adding
17 generating resources, energy efficiency or other demand-side resources, and
18 transmission.

19 Transmission upgrades are planned as required throughout New England to
20 maintain system reliability, improve the efficiency of system operations, increase
21 system transfer capability, serve major load pockets, and reduce locational
22 dependence on generating units. The regional transmission plan is developed
23 through an open process and through participation of, and review by, interested

1 parties, including state regulators and NEPOOL market participants. To ensure
2 that the ISO receives the full benefit of input from all interested stakeholders, the
3 ISO convenes multiple planning meetings over the course of the year with the
4 Planning Advisory Committee (“PAC”) — a stakeholder group that is open to any
5 interested entity, including, but not limited to, Transmission Customers, Market
6 Participants, and various officials of the New England states. The ISO also
7 coordinates the regional system planning process with the participating
8 transmission owners and other asset owners in New England.

9
10 **4. Reliability Standards**

11 Q: *What criteria does the ISO use in determining whether the transmission system in*
12 *New England is reliable?*

13 A: As explained below, there are numerous criteria employed in planning a reliable
14 transmission system. Overall, these criteria all seek to satisfy one overarching
15 objective: to ensure an electric system that can reliably deliver electric energy
16 across the transmission networks owned by the participating transmission owners.
17 If this objective is not met, the consequence would be a significantly increased
18 risk of widespread electric outages to many customers.

19 The ISO plans the New England regional transmission system to comply with the
20 reliability criteria and standards established by NERC, NPCC and the ISO. The
21 ISO’s implementation and compliance with NERC/NPCC Reliability Rules are
22 codified in its operations, planning, and administrative manuals and other written
23 procedures. NERC oversees a number of regional councils, one of which is the

1 NPCC. The NPCC covers New York, New England, and parts of Canada. Under
2 this framework, NERC has established a general set of mandatory standards
3 applicable to all geographic areas. NPCC has established criteria particular to the
4 Northeast, which generally encompass the NERC standards. In turn, the ISO has
5 developed criteria specific to New England that coordinate with the NPCC
6 criteria. Similar standards and criteria exist throughout the nation and other
7 portions of North America.

8 Whether developed by NERC, NPCC, or the ISO, the standards and criteria
9 applicable for assessing the reliability of the New England transmission system
10 are applied in a deterministic fashion (*i.e.*, for specific disturbances or
11 “contingencies”) in order to assess the ability of the system to perform under a
12 series of defined contingency situations. Specifically, these standards and criteria
13 dictate a set of operating circumstances or contingencies under which the New
14 England transmission system must perform without experiencing overloads,
15 instability, or voltage violations. For NPCC, these performance measurements
16 are set forth in NPCC Reliability Reference Directory #1 “Design and Operation
17 of the Bulk Power System.” The ISO planning procedures are designed to meet
18 the reliability standards that are specifically defined in Planning Procedure No. 3,
19 “Reliability Standards for the New England Bulk Power Supply System” (“PP3”).
20 PP3 is the published standard that provides consistent system planning criteria
21 throughout New England. Analyses of these contingencies also include
22 assessment of the potential for widespread cascading outages due to overloads,
23 instability or voltage collapse.

1

2 **5. The Reliability of the Transmission System in Southern New England**

3 Q: *Does the ISO have concerns regarding the ability of the transmission system in*
4 *southern New England to provide continued reliable electric service?*

5 A: Yes. The Follow-up Needs Assessment identifies and details reliability concerns
6 with the southern New England electric system.

7 Q: *What are the ISO's concerns regarding the ability of this transmission system to*
8 *provide continued reliability of electricity service in southern New England?*

9 A: From a reliability perspective, the ISO is concerned that the existing system in
10 southern New England faces a combination of limited transmission capacity,
11 limited generation that is effectively integrated to serve the load, and limited
12 transfer capability into and through the area. As the Follow-Up Needs
13 Assessment shows, there is an increasingly high risk that the system will be
14 unable to withstand single and multiple element contingencies following the
15 single loss or outage of certain critical facilities in these areas as the system
16 approaches or exceeds forecasted peak load levels. Single element contingencies
17 refer to the loss of an individual transmission line, transformer, or generator due
18 to any event such as a lightning strike. Multiple element contingencies refer to a
19 single event which removes multiple pieces of generating or transmission
20 equipment from service, such as may occur following the failure of a circuit
21 breaker or the simultaneous loss of multiple transmission circuits which are on the
22 same tower. These contingencies can result in thermal and voltage violations of

1 the reliability and security standards and criteria established by NERC, the NPCC
2 and the ISO.

3 Q: *What specifically are the ISO's reliability concerns in the southern New England*
4 *Area?*

5 A: The ISO is concerned with thermal overloading of transmission lines and poor
6 voltage performance under numerous contingencies. As explained in the Follow-
7 Up Needs Assessment, for purposes of the study, New England was divided into
8 three sub-areas: Eastern New England, Western New England, and Rhode Island.
9 Due to the nature of the system, for the Eastern New England study, Greater
10 Rhode Island was considered part of the Western New England sub-area. For the
11 Western New England study, Greater Rhode Island was considered part of the
12 Eastern New England sub-area.

13 For the Eastern New England Reliability Analysis, N-1 and N-1-1 thermal
14 violations were observed on the 328 line (Sherman Road to West Farnum). N-1
15 and N-1-1 thermal and voltage violations were observed on the 115 kV path
16 connecting Connecticut to Rhode Island along the Long Island Sound shoreline.
17 Additional N-1-1 thermal violations were observed on the 301-302 lines
18 (Millbury to Carpenter Hill to Ludlow), the 3520 line (ANP Bellingham to West
19 Medway) the 345 kV path between Killingly and West Medway (347, 3361 and
20 336 lines), and on the 115 kV network connecting Rhode Island and Southeastern
21 Massachusetts to Central Massachusetts. With the 301-302 lines (Millbury to
22 Carpenter Hill to Ludlow) out of service as the first contingency, the 142 circuit
23 breaker failure at Sherman Road which removes the 328 line (Sherman Road to

1 West Farnum) and the 3361 line (Sherman Road to ANP Blackstone) showed the
2 potential for voltage collapse. These results indicated a need to increase the
3 eastern New England import capability.

4 For the Western New England Reliability Analysis, N-1-1 violations were
5 observed for the loss of the 330 line (Lake Road to Card Street) as the initial
6 element out of service. The central 345 kV East-West path connecting the Boston
7 area to western Massachusetts (301-302 lines) were thermally overloaded as the
8 other remaining East-West 345 kV path was lost under a N-1-1 contingency
9 event. The 115 kV path from Rhode Island to Connecticut along the Long Island
10 Sound shoreline also had N-1-1 thermal violations for loss the 330 line and an
11 additional 345 kV East-West path.

12 Because the overloading 115 kV lines are on a Connecticut import path, and the
13 critical first element, the 330 line, is a Connecticut import line, the results
14 demonstrate a need to increase Connecticut import capability along with
15 increasing western New England import capability.

16 In Rhode Island, a voltage collapse scenario was observed for the loss of two 345
17 kV lines into West Farnum, the 328 line (Sherman Road to West Farnum) and
18 315 (Brayton Point to West Farnum). These results indicate a need for a new 345
19 kV line into the West Farnum substation to reliably serve load in Rhode Island.

20 Q: *How do thermal overloads occur?*

21 A: Thermal overloads occur when transmission lines, often as a result of a
22 contingency event elsewhere in the system, carry current in excess of their design
23 capacity. Overloaded lines build up heat beyond their temperature limits and may

1 sag in an unsafe manner or fail, redirecting power to other lines, which in turn
2 may become overloaded; a pattern that may result in a sustained loss of load,
3 equipment damage and cascading outages that could affect areas well outside
4 southern New England.

5 Exceeding the ratings of transmission lines can result in line mechanical failure or
6 sagging into public areas, such as highways; thereby compromising public safety
7 and causing uncontrolled outages. Lines that sagged into trees in Ohio
8 contributed to the Northeast Blackout of August 2003.

9 Q: *Why is low voltage a concern?*

10 A: Low voltage at the consumer level is a concern because it can damage equipment
11 and interfere with the proper operation of appliances and machinery. At the
12 transmission level, insufficient voltage can also cause unanticipated and
13 undesirable protective equipment operation, voltage collapse and loss of load.

14 Q: *What consequences can an uncontrolled blackout have?*

15 A: There are two consequences of an uncontrolled blackout. First, it is often difficult
16 to accurately predict how large an area will be affected by a blackout, and as a
17 result. As an example, it could encompass most or all of the northeastern United
18 States, as happened in 1965 and again on August 14, 2003, when parts of the
19 Midwest and Canada were also affected along with the Northeast. Second, it may
20 result in equipment damage that will hamper restoration of service, thus
21 prolonging outages, and make efforts to remedy the system more expensive.

1 **6. Benefits of the Interstate Reliability Project**

2 Q: *What reliability benefits will the Interstate Reliability Project provide to the*
3 *transmission system?*

4 A: The installation of the Interstate Reliability Project will address the reliability
5 issues described above by eliminating the thermal and voltage criteria violations
6 and improving transfer capabilities. Moreover, the transmission upgrades will
7 serve to ensure that the transmission system remains in compliance with
8 reliability standards and criteria established by NERC, the NPCC, and the ISO.
9 The new line into Millbury from West Farnum provides a new import line into
10 eastern New England and allows for the movement of power from western New
11 England and Greater Rhode Island to reliably serve load in eastern New England
12 during capacity deficiency conditions in eastern New England.

13 The line into Card Street substation via Lake Road and West Farnum provides a
14 new import path into Connecticut and western New England and allows for the
15 movement of power from eastern New England and Greater Rhode Island to
16 reliably serve load in Connecticut and western New England during capacity
17 deficiency conditions in the west.

18 The project also provides two new 345 kV lines into West Farnum which resolve
19 the criteria violations in Rhode Island seen for the loss of the two existing 345 kV
20 lines into West Farnum from Sherman Road and Brayton Point.

21 Q: *Did the ISO consider market responses in evaluating the need for Interstate?*

22 A: Yes. The ISO's Tariff requires that the ISO "reflect proposed market responses in

1 the regional system planning process.”⁹ Market responses include, but are not
2 limited to, demand-side projects, generation, distributed generation and Merchant
3 Transmission Facilities. The ISO evaluates the need for Regulated Transmission
4 Upgrades based on viable market responses that have been proposed and (i) have
5 cleared in a FCA, (ii) are contractually bound by a state-sponsored Request for
6 Proposals (“RFP”), or (iii) have a financially binding obligation pursuant to a
7 contract.¹⁰

8 As explained in the Follow-Up Needs Assessment, the ISO considered the impact
9 on the need for Interstate based on the cleared resources in the most recent FCA,
10 the most recent load forecasts and forecasted state-sponsored Energy Efficiency
11 measures through 2022. Even considering these updates, there continues to be a
12 need for Interstate within the 10-year planning horizon.

13 Q: *Will these findings be presented to the PAC?*

14 A: Yes. The findings supporting the determination that the need for Interstate
15 continues to be within in the 10-year planning horizon will be presented at the
16 July 18, 2012 PAC meeting.

17 Q: *Does the ISO support Interstate?*

18 A: Yes. As described above and in the Follow-Up Needs Assessment, the ISO is
19 concerned about the ability of the existing transmission system to maintain
20 reliable electric service in southern New England. Interstate is the preferred
21 transmission solution to meet the reliability needs identified in the Follow-Up
22 Needs Assessment.

⁹ Section 4.2(a) of Attachment K to the Tariff.

¹⁰ *Id.*

1 Q: *Does this conclude your testimony?*

2 A: Yes, thank you.