

STATE OF CONNECTICUT  
CONNECTICUT SITING COUNCIL

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December 12, 2013

John Morissette  
Manager-Transmission Siting  
Northeast Utilities Service Company  
P.O. Box 270  
Hartford, CT 06141-0270

RE: **DOCKET NO. 435** - The Connecticut Light & Power Company Application for a Certificate of Environmental Compatibility and Public Need for the Stamford Reliability Cable Project, which consists of construction, maintenance, and operation of a new 115-kV underground transmission circuit extending approximately 1.5 miles between Glenbrook and South End Substations, Stamford, Connecticut and related substation improvements.

Dear Mr. Morissette:

At a public meeting of the Connecticut Siting Council (Council) held on December 12, 2013, the Council considered and approved the Development and Management (D&M) Plan submitted for this project on October 31, 2013.

This approval applies only to the D&M Plan submitted on October 31, 2013. Any changes to the D&M Plan require advance Council notification and approval. Furthermore, the Certificate Holder is responsible for reporting requirements pursuant to Regulations of Connecticut State Agencies Section 16-50j-62.

Please be advised that deviations from this plan are enforceable under the provisions of the Connecticut General Statutes § 16-50u. Enclosed is a copy of the staff report on this D&M Plan, dated December 12, 2013.

Thank you for your attention and cooperation.

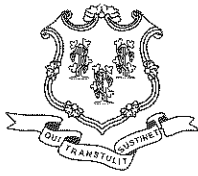
Very truly yours,

Robert Stein  
Chairman

RS/CDM/jb

Enclosure: Staff Report, dated December 12, 2013

c: Parties and Intervenors  
The Honorable David Martin, Mayor, City of Stamford  
Norman Cole, Planning and Zoning Dir., City of Stamford



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**Docket 435: Stamford  
Connecticut Light & Power  
Development and Management Plan  
Staff Report  
December 12, 2013**

On September 5, 2013, the Connecticut Siting Council (Council) issued a Certificate of Environmental Compatibility and Public Need to The Connecticut Light & Power Company (CL&P) for the construction, maintenance and operation of a new 115-kV underground transmission circuit extending approximately 1.5 miles between Glenbrook and South End Substations in Stamford, Connecticut and related substation improvements. As required in the Council's Decision and Order, CL&P submitted a Development and Management (D&M) Plan for this facility on October 31, 2013.

Previously (on October 17, 2013), the Council approved three staging areas CL&P could use to support its construction activities. These three areas are: the Stamford Area Work Center, the Glenbrook Substation, and the South End Substation (to be used only if necessary due to size constraints).

There are two components to CL&P's D&M Plan for this project: 1) modifications to be made to the Glenbrook and South End substations; and 2) the installation of the underground 115-kV transmission line between the two substations.

As all work on this project will take place in upland areas, no permits will be required from the U.S. Army Corps of Engineers. However, CL&P will have to obtain a DEEP Contaminated Soil Transfer and Staging General Permit in addition to the Council's D&O. CL&P also consulted with the State Historic Preservation Office, which determined that no historical resources would be affected by this project.

Consistent with condition number two of the Council's Decision and Order CL&P served the D&M Plan on the City of Stamford and parties and intervenors.

CL&P has established a community outreach team and project website. Project representatives have been and will be in contact with residents, businesses, and stakeholders during the construction period.

### **Substations**

All substation modifications will be implemented within the existing fence lines of the substations. The modifications to be made at the Glenbrook Substation include: installation of a 115-kV breaker, installation of a cable termination, installation of a motor operated disconnect switch for the cable line, installation of lightning arrestors on the termination structure, installation of three potential transformers, installation of control cables for the new equipment, and installation of three 115-kV coupling capacitors for breaker protection. These modifications would also require additional protection and control work including updating the System Control and Data Acquisition (SCADA) system.



The modifications to be made at the South End Substation include: installation of a riser pole for cable termination and lightning arrestors, installation of a motor operated disconnect switch, installation of control cables, replacement of components of the ring bus with three new potential transformers, and the installation of a steel structure for a disconnect switch. These modifications would also require additional protection and control work including updating the SCADA system.

Work hours for the substation modifications will consist of 10-hour workdays occurring between 7:00 a.m. and 7:00 p.m. Monday through Saturday.

### **Underground Transmission Line**

The underground transmission line will be installed in concrete duct banks running between the two substations. Duct bank installation will involve several different activities, including: pavement cutting, trench excavation, duct placement, backfilling, and grading.

Prior to the commencing the duct bank installation work, CL&P will conduct site preparation activities that will include: deploying temporary construction storage containers, erecting traffic control signs, and installing protective fences and erosion and sedimentation controls as necessary. In some locations, vegetation clearing may be required. But this activity should be minimal as most of the transmission line's route is within the right-of-way of existing streets.

After a section of duct banks has been installed, the transmission line cable will be pulled through the conduits placed in the ducts. The line will have three locations where sections of the cable will have to be spliced together, which will require splice vaults to be installed. These vaults will be approximately 24 feet long by 9 feet tall by 9 feet wide and will be spaced 2,000 feet apart along the transmission line's route.

There are two locations at which the transmission line will have to be installed in special crossings. One location is the east branch of Rippowam River, which in the area where the line must cross runs in a concrete box culvert buried under South State Street. Here, the transmission line will be installed over the river's culvert in a flattened arrangement. The other location is under the Metro North Railroad from Lincoln Avenue on the east side of the railroad to Scott Place on the west side. To cross under the rail line, CL&P will use a jack and bore method to install its line.

After the duct banks and splice vaults have been installed, CL&P will restore and clean up the areas that were disturbed for the installation. Where these areas are outside a roadway right-of-way, CL&P will adhere to its *Construction and Maintenance Environmental Requirements Best Management Practices Manual*. For areas within roadway right-of-ways, CL&P will perform restoration activities in accordance with applicable state and/or city standards.

For the underground transmission line installation, CL&P has developed a Traffic Management Plan (TMP) in collaboration with the State Department of Transportation (CDOT) and City of Stamford. Under this plan, CL&P will seek to avoid working within street right-of-ways during rush hour periods and will vary the hours worked—daytime, nighttime, or weekend—depending on the location of the work area.

### **Best Management Practices**

During the construction of this project CL&P will follow its adopted Best Management Practices for spill prevention and response, storm water management, air quality protection (including dust control), handling and disposal of excavated soil and wastes, trench dewatering, refueling of construction machinery, storage of petroleum products, snow removal and de-icing, discovery of cultural resources, and lighting and noise mitigation. CL&P will also have a team of management and field personnel dedicated to monitoring construction activities for compliance with environmental regulatory requirements.

The D&M plans indicate that CL&P will install erosion and sedimentation controls consistent with the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control* around the areas that will be disturbed during construction. These measures will be kept in place during the construction period.

### **EMF**

As part of its D&M, CL&P has included a post-construction EMF monitoring plan that complies with the requirements of the Council's D&O.

### **Notifications and Reports**

CL&P proposes to submit notifications and reports consistent with the Council's Regulations of Connecticut State Agencies (RCSA) Section 16-50j-62(b)(3). Its construction progress reports will be filed on a monthly basis.

### **Restoration**

Restoration of disturbed areas would consist of grading and reseeded to establish a uniform vegetative cover of 70 percent density on disturbed soils that otherwise would not be paved or graveled (substation, staging areas, and roadways excavated during trenching). CL&P has provided a paving restoration plan for the roadways to standards outlined by CDOT and the City of Stamford.

### **Recommendations**

The D&M plans as presented substantially conform to the Council's Decision and Order.

Staff recommends that approval of future requested significant changes to the approved D&M Plan be delegated to Council staff in accordance with RCSA Section 16-50j-62(b). In accordance with that section, if advance written notice is impractical, CL&P shall provide verbal notice of the changes and shall submit written specifications to the Council within 48 hours after the verbal notice. All changes pursued without advance notification and approval shall be subject to a penalty, enforceable by the Attorney General pursuant to C.G.S. §16-50u.

Staff recommends approval of this D&M Plan for Docket 435.