



Daniel F. Caruso  
Chairman

# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

Internet: [ct.gov/csc](http://ct.gov/csc)

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

May 23, 2007

Anne Bartosewicz  
Middletown-Norwalk Project Director  
Northeast Utilities Service Company  
P.O. Box 270  
Hartford, CT 06141-0270

RE: **DOCKET NO. 272** - The Connecticut Light and Power Company and The United Illuminating Company Certificate of Environmental Compatibility and Public Need for the Construction of a New 345-kV Electric Transmission Line and Associated Facilities Between Scovill Rock Switching Station in Middletown and Norwalk Substation in Norwalk, Connecticut Including the Reconstruction of Portions of Existing 115-kV and 345-kV Electric Transmission Lines, the Construction of the Beseck Switching Station in Wallingford, East Devon Substation in Milford, and Singer Substation in Bridgeport, Modifications at Scovill Rock Switching Station and Norwalk Substation and the Reconfiguration of Certain Interconnections. **Development and Management Plan – Norwalk Substation.**

Dear Ms. Bartosewicz:

At a public meeting held on May 22, 2007, the Connecticut Siting Council (Council) considered and approved the Development and Management (D&M) Plan for the Connecticut Light and Power Company's (CL&P) construction of the Norwalk Substation in Norwalk, Connecticut with the following conditions:

- CL&P provide two-week advance notice prior to commencement of grading and mobilization of a contractor prior to construction.
- CL&P provide a weekly Environmental Inspector's report including spill reports.
- CL&P provide the location of additional staging areas, if needed, prior to use.
- CL&P notify the Council of workday and/or work hour extensions verbally and documented within 24 hours.
- CL&P use excavated material for fill, as appropriate.
- Erosion and sediment controls comply with the 2002 Connecticut Guidelines for Erosion and Sediment Control, as amended.

- Proposed deviations be authorized by the Chairman, or his or her designee, with written specification of the deviation submitted within 24 hours of a business day after the request, and all other changes be noticed to the Council for its advance approval or be subject to enforcement by the Attorney General.

This approval applies only to the D&M Plan submitted on April 27, 2007. Enclosed for your information is the staff report dated May 22, 2007.

Any deviation from the D&M plans may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Please feel free to call S. Derek Phelps, Executive Director if you have any questions.

Sincerely,

  
Daniel F. Caruso  
Chairman

DFC/CML/laf

Enclosure

c: Council Members  
Parties and Intervenors



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Docket No. 272

Connecticut Light and Power Company

Development and Management Plan

Norwalk Substation

Norwalk, Connecticut

May 22, 2007

### Introduction

On April 27, 2007, the Connecticut Light Power Company (CL&P) submitted to the Connecticut Siting Council (Council) for review and approval the Development and Management (D&M) Plan for the Norwalk Substation in Norwalk, Connecticut. The Norwalk Substation is located along New Canaan Avenue between Route 7 to the east and Riverside Drive to the southwest in the City of Norwalk. The Norwalk River runs along the western boundary of the substation. The nearest residences are east across Route 7 and west across the Norwalk River.

CL&P proposes to install new equipment and modify existing equipment within the existing fenced substation to accommodate the Middletown to Norwalk 345-kV Transmission Line Project.

Construction within the Norwalk Substation includes:

- Addition of three Gas Insulated Substation (GIS) transmission circuit positions with two breakers each, and associated equipment, supporting steel and ancillary devices
- Addition of three new 345/115 kV 200 MVA single-phase autotransformers and ancillary devices
- Addition of one spare single-phase transformer and one spare three-phase reactor with foundations, associated devices and oil containment
- Addition of two new three-phase 100 MVA shunt reactors, including surge arresters, foundations, oil containment, fire barriers, and associated devices
- Addition of two new 345-kV circuit switchers, foundations and ancillary devices
- Addition of riser termination structures and foundations, including surge arresters
- Addition of 345-kV Gas Insulated Line (GIL), support structures and foundations between the termination structures and the GIS equipment, between the GIS equipment and the shunt reactors, and between the GIS equipment and the three new transformers
- Addition of underground ground grid and rods
- Increase the height of the existing fence near the Route 7 ramp
- Addition of below grade cable trench to accommodate GIS and control cables
- Addition of an underground duct bank and associated manholes to accommodate control and low voltage power cables
- Final grading and crushed rock surfacing of the substation in proximity of the GIS enclosure
- Addition of landscaping between the Route 7 exit ramp and the substation fence
- Addition of a stairway from the second story of the GIS enclosure to the ground

Additional work outside of the substation fence includes a new 345-kV underground duct bank installed from the two riser locations within the substation to the first set of underground vaults outside of the eastern fenceline within the Route 7 Right-of-Way. A portion of the existing fencing along the eastern side of the substation (along Route 7) may be temporarily removed during construction and reinstalled once duct bank construction has been completed. CL&P proposes to landscape the area between the substation fence and the Route 7 ramp.

### **Consultations**

On March 16, 2007, CL&P met with City of Norwalk officials to discuss modifications to the Norwalk Substation. Topics discussed at that meeting included: GIS Substation addition within the existing GIS enclosure; installation of two shunt reactors; storage locations for the spare 345-kV shunt reactor and 345/115-kV auto-transformer; two 345-kV underground termination structures; and the taller fence near the Route 7 ramp. The City of Norwalk requested that no plastic screening slats be used in the security fence.

Subsequently, the City of Norwalk requested that additional trees be planted in the Connecticut Department of Transportation (CDOT) right-of-way along the Route 7 ramp. The additional landscaping will require review and approval by the CDOT.

### **Permits**

The General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (DEP-PED-GP-015) from the Connecticut Department of Environmental Protection (DEP), was registered by the DEP on April 16, 2006.

### **Schedule**

Construction associated with this project is anticipated to take approximately 15 to 18 months. CL&P will begin construction at the Norwalk Substation in July 2007 with completion expected by December 2008. Council staff recommends CL&P provide two week advance notice prior to commencement of clearing and grading and mobilization of a contractor prior to construction. Work hours are expected to fluctuate between eight and twelve hours per day, five to six days per week.

### **Construction**

Access to the substation for construction, material deliveries, operation, and maintenance will be from New Canaan Avenue and the exit ramp for Route 7 to New Canaan Avenue. CL&P is renewing its permit issued under Docket No. 217 from the Department of Transportation for the construction and use of a temporary access road. Part of that permit requires guardrails be installed to protect the construction work area.

The vacant space within the substation will be used as the staging area for materials and equipment. Construction parking and portable sanitary facilities will also be located within the fenced area. The Construction Contractor will provide additional staging areas and/or construction facilities, if needed. Any additional staging and/or proposed construction locations will be submitted to the Council for approval.

Construction activities will be in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control. Excess spoil material will be removed from the site and disposed of in an approved location. Some spoil material may be retained for backfill.

Groundwater encountered during construction drilling activities will be discharged in accordance with the DEP Stormwater and Dewatering Wastewaters from Construction Activities General Permit GP-015.

Surface drainage will be improved in the area north of the control enclosure and east of the GIS enclosure during final grading of the substation.

CL&P proposes the following procedures (established in the Docket 217 D&M Plan) to address deviations of the D&M Plan:

- For proposed deviations prior to the start of construction or well in advance of commencement of any specified activity, CL&P will submit a request in writing for review and approval by the Council;
- For proposed deviations during construction based upon field conditions, conduct a telephone conference with Council staff to present the proposed modification and receive verbal approval from the Council's Chairman with written specification of the deviation to be submitted within 24 hours after the request; and
- Implementation of deviations to the D&M Plan that are approved by the Council will be documented within the monthly monitoring reports to be submitted by the independent environmental inspector.

Council staff recommends that proposed deviations be authorized by the Chairman with written specification of the deviation submitted within 24 hours of a business day after the request and all other changes require advance notification and Council approval or be subject to enforcement by the Attorney General.

To summarize, the Council staff recommends approval of the Norwalk Substation D&M Plan, with the following conditions:

CL&P provide two-week advance notice prior to commencement of grading and mobilization of a contractor prior to construction.

CL&P provide a weekly Environmental Inspector's report including spill reports.

CL&P provide the location of additional staging areas, if needed, prior to use.

CL&P notify the Council of workday and/or work hour extensions verbally and documented within 24 hours.

CL&P use excavated material for fill, as appropriate.

Erosion and sediment controls comply with the 2002 Connecticut Guidelines for Erosion and Sediment Control, as amended.

Proposed deviations be authorized by the Chairman, or his or her designee, with written specification of the deviation submitted within 24 hours of a business day after the request, and all other changes be noticed to the Council for its advance approval or be subject to enforcement by the Attorney General.



Daniel F. Caruso  
Chairman

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### NOTICE OF SERVICE

I hereby affirm that a photocopy of this document was sent to each Party and Intervenor on the service list dated May 14, 2007.

Dated: May 23, 2007



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Lisa Fontaine  
Custodian of Docket No. 272