



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@po.state.ct.us

www.ct.gov/csc

June 9, 2005

Bruce L. McDermott, Esq.
Wiggin and Dana LLP
One Century Tower
P. O. Box 1832
New Haven, Connecticut 06508-1832

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. **Singer Substation - Development and Management Plan**

Dear Attorney McDermott:

At a public meeting held on June 8, 2005, the Connecticut Siting Council (Council) considered and conditionally approved the Development and Management (D&M) Plan for the Singer Substation and 115-kV Interconnections in the City of Bridgeport, Connecticut with the following conditions:

- That the location of the contractor yard/staging areas be identified and provided to the Council prior to use.
- A copy of the dewatering permit is filed with the Council prior to commencement of construction with methods for dewatering consistent with the 2002 Connecticut Erosion and Sediment Control Guidelines.
- Submittal of a final design drawing for the architectural wall including review by City of Bridgeport for Council review and approval.
- The erosion and sediment controls be inspected weekly and after every major storm event with deficiencies corrected within 24 hours.
- UI and the South End Community Council finalize landscaping details and be submitted for Council review and approval prior to installation of plantings
- No construction shall commence until an Environmental Inspector has been provided for Council approval.
- A monthly construction progress report including a report by the Environmental Inspector.

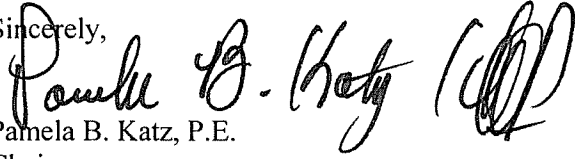
Docket No. 272
D&M Decision
June 8, 2005
Atty. McDermott

Any deviation from this plan 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.

Enclosed is a copy of the staff report on this D&M Plan, dated June 8, 2005.

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

Sincerely,


Pamela B. Katz, P.E.
Chairman

PBK/laf

Enclosures

c: Council Members
Parties and Intervenors



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@po.state.ct.us

www.ct.gov/csc

Docket No. 272

The United Illuminating Company

Development and Management Plan

Singer Substation and 115-kV Interconnections, Bridgeport

June 8, 2005

On April 29, 2005, the Connecticut Siting Council (Council) received from the United Illuminating Company a segment of the Development and Management (D&M) Plan for the Singer Substation and 115-kV Interconnections.

The D&M Plan outlines the installation of a new 345/115-kV substation facility and 115-kV underground interconnection and line terminations to the Bridgeport Energy switchyard (north of the new substation and Pequonnock substation which are 580 feet and 1,450 feet north of the new substation, respectively). Such site development details include location of substation equipment, gas-insulated switchgear (GIS), screening/security wall, access points, erosion and sediment controls; landscaping, 115-kV interconnections, traffic management, and project schedule.

The location of the substation is consistent with the Council's April 7, 2005 Decision and Order and agreed upon by the City of Bridgeport, PSEG Connecticut LLC and UI. UI has entered a purchase and sale agreement with PSEG for a 1.54 acre parcel of property bordered by Main Street to the west, Atlantic Street to the north, Russell Street to the east and Henry Street to the south in the City of Bridgeport. UI is negotiating for a staging yard across the street of the Singer substation for temporary construction trailers, equipment/material storage, and vehicle parking. Council staff recommends that the location of contractor yard/staging areas be identified and provided to the Council prior to use.

Elevations at the substation site range between approximately eight to ten feet above mean sea level. The site has been previously disturbed and minimal grading is necessary. Several large trees and smaller shrubs would be cleared prior to construction. Excavation is necessary to install foundations for the Singer substation GIS build, control building, transformers and shunt reactors. Also, foundations for the underground to overhead transition interconnect structures would be installed at the Pequonnock substation and Bridgeport Energy. Soils would be stockpiled or removed as necessary and if contaminated soil is encountered this soil would be stockpiled separately for testing and later removed to an approved facility for treatment. During excavation water may be encountered. UI would obtain a General Dewatering Permit prior to the commencement of construction. Council staff recommends a copy of the dewatering permit be filed with Council prior to commencement of construction and the methods for dewatering are consistent with the 2002 Connecticut Erosion and Sediment Control Guidelines.

UI proposes to construct four access points, two for the GIS building and two for the open transformer area both from Atlantic and Henry Streets. Main Street would be the main thorough-fare for construction vehicles from major roadways and the highway located north of the substation. Temporary construction fencing would be used to control access during non-construction hours.

Three 345-kV/115kV autotransformers, five 345-kV shunt reactors (4 active, 1 spare), would be installed within an open-air acoustical enclosure. Trap rock filled concrete sumps will be constructed beneath oil-filled equipment with a capacity to hold 110 percent of the equipment's volume. These sumps would be equipped with monitors and level alarms. UI would inspect sumps for rainwater and remove water via oil/separators. UI proposes to construct a 75-foot by 309-foot 345-kV GIS building for associated capacitors and breakers. A 35-foot by 65-foot control building would be constructed adjacent to the GIS building.

The Singer substation will have an architectural wall about 309 feet along Main Street and 135 feet along Henry and Atlantic Streets with the height of the wall approximately 35-45 feet. The remaining perimeter would include security fencing consisting of a 14-foot high chain link fence topped with barbed wire and two gates for access. The wall would provide a visual and noise screen to adjacent land uses. The City of Bridgeport has reviewed and commented on the preliminary wall design, thus the final design has not been provided. Council staff recommends a finalized design for the architectural wall be submitted to the Council for review and approval.

UI contends erosion and sediment controls conform with the 2002 Connecticut Erosion and Sediment Control Guidelines. Such techniques, but not limited to, include use of stone lined tracking pads at construction access points, synthetic and/or haybale erosion and sediment controls, watering, calcium chloride or temporary crushed stone would be used for dust control. Earth stockpiles would be watered or have a material cover to control dust. At the Pequonnock Substation construction would be as close as 60 feet to Bridgeport Harbor; therefore, Council staff recommends the erosion and sediment controls be inspected weekly and after every major storm event with deficiencies corrected within 24 hours.

A Landscape Plan has been provided identifying locations of sidewalks and vegetative plantings. The City of Bridgeport forwarded comments from the South End Community Council, an organization of residents and businesses in the South End of Bridgeport, affirming the architectural façade however requests that vegetative plantings be installed along the side walls of the Main Street façade and to utilize trees and shrubs that are urban tolerant. Council staff recommends UI and the South End Community Council finalize landscaping details and is submitted for Council review and approval prior to installation of plantings

Council staff recommends that no construction shall commence until an Environmental Inspector has been provided for Council approval, as per Order 20 of the Council's April 7, 2005 Decision and Order.

A Project Schedule for the construction of the Singer Substation and 115-kV interconnections have been provided and UI expects substation site work and installation of underground infrastructure be completed within two years, beginning June 2006 and an additional nine months for the 115-kV interconnection beginning June 2007. Expected completion for all work is June 2008. UI proposes a quarterly construction progress reports; however Council staff recommends a monthly construction progress report including a report by the Environmental Inspector.

UI proposes to construct two underground 115-kV transmission line interconnections. Both transmission lines would exit the Singer substation underground and be installed 900 feet to Bridgeport Energy and 1,450 feet to Pequonnock substation. At Bridgeport Energy UI proposes to install a set of terminal structures and modify the existing bus. At Pequonnock substation UI would install termination structures, two circuit breakers, associated switches and additional bus work at the north end of the substation.

Each circuit would have a minimum of 12 conduits in a duct bank measuring 48 inches wide by 42 inches high installed in a trench at varying depth to avoid other utilities but with cover not less than 30 inches. The Pequonnock circuit would require one splicing vault measuring approximately 9 feet wide by 40 feet long by 8 feet high. No vault is needed for the Bridgeport Energy connection.

UI has provided a traffic management plan. City of Bridgeport provided comments stating approval of such Traffic Management Plans is under municipal purview for municipal roadways and/or State DOT within state roadways. Therefore Council staff recommends that UI submit copies of the Traffic Management permits prior to commencement of construction.

Council staff recommends approval of the D&M Plan for the Singer 345-kV Substation and 115-kV transmission line interconnections at the Pequonnock substation and Bridgeport Energy subject to the following conditions:

- That the location of the contractor yard/staging areas be identified and provided to the Council prior to use.
- A copy of the dewatering permit is filed with the Council prior to commencement of construction with methods for dewatering consistent with the 2002 Connecticut Erosion and Sediment Control Guidelines.
- Submittal of a final design drawing for the architectural wall including review by City of Bridgeport for Council review and approval.
- The erosion and sediment controls be inspected weekly and after every major storm event with deficiencies corrected within 24 hours.
- UI and the South End Community Council finalize landscaping details and be submitted for Council review and approval prior to installation of plantings
- No construction shall commence until an Environmental Inspector has been provided for Council approval.
- A monthly construction progress report including a report by the Environmental Inspector.