



**Connecticut
Light & Power**

The Northeast Utilities System

107 Selden Street, Berlin CT 06037

Northeast Utilities Service Company
P.O. Box 270
Hartford, CT 06141-0270
(860) 665-5000

March 26, 2010

Mr. Daniel F. Caruso, Chairman
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Docket 272 – FINAL REPORT

Dear Chairman Caruso:

The Connecticut Light and Power Company ("CL&P") hereby provides its Final Report for the Middletown to Norwalk 345-kV Transmission Line Project ("Project") in accordance with the Regulations of Connecticut State Agencies (RCSA), Section 16-50j-62(c); the Connecticut Siting Council's Decision and Order; and the Council's approval of the thirteen Development and Management ("D&M") Plans for CL&P's portion of the Project:

- Segment 1a, *Scovill Rock to Chestnut Junction, Oxbow Junction to Beseck Switching Station (excluding Royal Oak Bypass) and Black Pond Junction to Beseck Switching Station - approved on March 8, 2006;*
- Segment 1b, *Royal Oak Bypass - approved on August 31, 2006;*
- Segment 2a, *Beseck Switching Station to Cheshire/Hamden Town Line - approved on June 7, 2006;*
- Segment 2b, *Cheshire/Hamden Town Line to East Devon Substation - approved on August 31, 2006;*
- Segment 3, *East Devon Substation to the Housatonic River Crossing - approved on March 22, 2006;*
- Segment 4a, *Singer Substation to Fairfield/Westport Town Line - approved on February 22, 2006;*
- Segment 4b, *Sasco Creek to Father Conlon Place in Norwalk - approved on June 27, 2006;*
- Segment 4c, *Father Conlon Place to Norwalk Substation in Norwalk - approved on May 1, 2007;*
- *Scovill Rock Switching Station - approved on August 24, 2005;*
- *Beseck Switching Station - approved on February 22, 2006;*
- *East Devon Substation - approved on December 12, 2006;*
- *Norwalk Substation - approved on May 22, 2007;*
- *Crossings of Watercourses and Railroad Crossings in Segments 3, 4a and 4b - approved on May 22, 2007.*



middletown | norwalk

Pursuant to RCSA, Section 16-50j-62(c), the Final Report identifies the following:

1. all agreements with abutters or other property owners regarding special maintenance precautions (Attachment 1).
2. significant changes to the D&M Plans that were required because of the property rights of underlying and adjoining owners or for other reasons (Attachment 2);
3. the location of non-transmission materials which have been left in place in the form of culverts, erosion control structures along watercourses and steep slopes, and corduroy roads in regulated wetlands (Attachment 3);
4. the locations of areas where special planting and reseeding have been done (Attachment 4); and
5. the actual construction cost of the facility (Attachment 5) including but not limited to the following costs:
 - a. clearing and access;
 - b. construction; and
 - c. rehabilitation.

Please contact me if you have questions at 860-665-2771.

Sincerely,



Anne Bartosewicz
Middletown-Norwalk Project Director

Attachments

cc: (w/o attachments)
Fred Cunliffe - Connecticut Siting Council
Docket 272 Service List

Attachment 1:
Agreements with Abutters or Other Property Owners Regarding Special Maintenance Precautions

1.0 Overhead

Agreements with property owners regarding special maintenance precautions associated with the overhead portion of the Project are grouped as follows:

- Tree agreements
- Gate agreements
- Herbicide use

1.1 Tree agreements

During the course of the Project, CL&P entered into an agreement with the following property owner. The agreement allows the property owner to maintain tall growing trees within the right of way provided the property owner maintains the trees to a not to exceed specified height.

TABLE 1.1 TREE AGREEMENTS

Line List Number	Property Owner Municipality
1068.00	Anthony and Wendy Coppola Orange, CT

Note: CL&P had similar agreements in place prior to the Project with various property owners along the Project corridors. These agreements are not listed. Additionally, CL&P may pursue other tree agreements with property owners along the Project corridor in the future, on a case by case basis.

1.2 Gate agreements

The following is a list of property owners with whom CL&P has entered into an agreement to install and maintain a gate on the property for CL&P access to the ROW.

TABLE 1.2 GATE AGREEMENTS

Line List Number	Name	Gate Location
0075.00	Jeffrey Grenier Durham, CT	Powder Hill Road, Durham
0081.00	Fred Bulmer Durham, CT	Powder Hill Road, Durham
0102.00	State of CT, DEP Durham, CT	Durham Meadows, Route 147, Durham
0120.00	Norman Hicks Durham, CT	Little Lane, Durham

Line List Number	Name	Gate Location
0124.00	John Moss Durham, CT	Little Lane, Durham
0127.00	Nancy Boscarino Middletown, CT	Route 17, Middletown, AR-36
0130.14	Walter Pietruska Durham, CT	Black Walnut Drive, Middletown
0177.00	Lois Branciforte Durham, CT	Arbutus Street, Durham
0225.00	Hazelwood Excavating Wallingford, CT	Carpenter Lane, Wallingford
0280.00	Rosemary Green Meriden, CT	Black Pond Junction, Route 691, Meriden
0703.00	Ed Goglia Cheshire, CT	Old Lane, Cheshire
0743.00	Edward Russell Wallingford, CT	Tuttle Road, Cheshire
0758.00	Tracy Sires Wallingford, CT	Mansion Road, Wallingford
0798.00	Docker Drive Realty, LLC Wallingford, CT	Docker Lane, Wallingford
0863.00	Town of Wallingford	Tamarac Swamp Road, Wallingford
0866.00	Marc Haas Wallingford, CT	Liney Hall Lane, Wallingford
0877.00	Nancy Pogmore Wallingford, CT	Pogmore Drive, Williams Road, in pasture, Wallingford
0890.00	Mark Malchiodi Wallingford, CT	Malchodi Drive, Wallingford
0892.00	Edward Benneccchi Wallingford, CT	Durham Road, within pasture, Wallingford
0893.00	William Taylor Wallingford, CT	Durham Rd, within pasture, Wallingford
0896.00	Jules Perrault Wallingford, CT	Durham Road, Wallingford
1339.00	Deborah Zale Hamden, CT	Brooksvale Road, Hamden
1329.00	Debbie & Joe Esposito Hamden, CT	Tom Swamp Road, Hamden
1248.00	Congregation B'Nai Jacobs Woodbridge, CT	Rimmon Road, Woodbridge
1181.00	Marian Gemmell Orange, CT	Dogwood Road, Orange
1220.00	William Tuttle Woodbridge, CT	Brookwood Drive, Woodbridge
1179.00	Lou Gherlone Orange, CT	Dogwood Road, Orange
1086.00	Janet Stratton Orange, CT	Pine Tree Drive, Orange
1167.00	Thomas Castiello Orange, CT	Overland Drive, Orange

Line List Number	Name	Gate Location
1118.00	John Silva Orange, CT	Sunset Drive, Orange
1022.00	George Ambriscoe Milford, CT	North Street, Route 121, Milford
1015.00	Mark Filanowski Milford, CT	Wheelers Farm Road, Milford
1013.00	Frank Campuarto Milford, CT	Wheelers Farm Road, Milford
1005.00	City of Milford	Paddock Place, Milford, AR-22
0938.00	Aerial Lift Milford, CT	Plains Road, Milford
0105.00	David Stinson & Susan Stone* Middlefield, CT	Cherry Hill Street, Durham
0171.00	Henry Racki* Durham, CT	Arbutus Street, Durham
0229.00	Ronald Shoneck* Meriden, CT	Fleming Road, Meriden
0860.00	Joan Gumkowski* Wallingford, CT	Tamarac Swamp Road, Wallingford
0898.00	Paul Aiken* Wallingford, CT	Durham Road, Wallingford
1342.00	Jean Russo* Hamden, CT	Brooksvale Road, Hamden
1108.00	Margaret Randi* Orange, CT	Route 152, Orange
0921.02	Devon Power* Milford, CT	Naugatuck Avenue, Milford
0963.00	Irene Capozziello* Milford, CT	Oronoque Road, Milford

* Gate installed on property at request of property owner, but property owner did not sign written gate agreement.

1.3 Herbicide Requirements

Herbicide use for maintenance and operations is restricted or limited on three properties as follows:

- South Central Connecticut Regional Water Authority (RWA): Bethany, Woodbridge, West Haven, Orange

Based on Appendix G of the Change-in-Use application provided to the Connecticut Department of Public Health for RWA properties, use of herbicides on RWA properties is limited to those approved in the most current version of the "Northeast Utilities System Transmission Vegetation Management Plan for the Transmission Rights-of-Way on the South Central Connecticut Regional Water Authority Water Supply Watershed".

- Middletown Water Company, City of Middletown Water Department Property

Based on Appendix D of the Segment 1b D&M Plan, "Conditions for Constructing Project on Middletown Water Department Property," Schedule II - Post Construction, and the Council's approval of the D&M plan, use of non-chemical means is required for vegetation management within the transmission rights of way and NU shall provide long-term protection management practices for all activities that may affect water quality.

- Town of Wallingford, Intersection of Tamarac Swamp Road and East Center Street

Based on the December 10, 2007 letter from the Council regarding "Best Management Practices – Class II Water Company Land Town of Wallingford", use of herbicides is prohibited on Town of Wallingford property that has been classified as Class I or Class II for future sensitive drinking water sources.

2.0 Underground

CL&P entered into an Encroachment Agreement with the State of Connecticut, Department of Transportation (ConnDOT) for the placement of the ductbank and splice vaults in state roadways.

3.0 Substation/Switching Stations

There were no agreements made with abutters for special maintenance precautions at substations/switching stations.

4.0 Water and Railroad Crossings

There were no agreements made with abutters for special maintenance precautions at water or railroad crossings.

Attachment 2:
Significant Changes to the D&M Plans

1.0 Overhead

1.1 Segment 1a

Change Request 1 submitted to the Council on October 20, 2006 and approved by the Council in a letter dated November 7, 2006 included construction of access roads within wetlands within the ROW, increased the height of four structures by 10 feet or more, changed structure type from wood to self-supporting steel.

Change Request 7 submitted to the Council on March 13, 2007 and approved by the Council in a letter dated March 30, 2007 included the relocation of a structure by 50 feet at the request of the property owner and the First Selectman of Durham.

Change Request 8 submitted to the Council on August 16, 2007 and approved by the Council in a letter dated September 16, 2007 included the redesign of a structure from a steel three-pole dead-end to a wood three-pole dead-end and relocated it 33 feet to the north of the original location in order to facilitate construction near energized lines.

Change Request 10 submitted to the Council on November 9, 2007 and approved by the Council in a letter dated April 8, 2008 included the relocation of a structure approximately 85 feet westerly, along with an increase in height of 20 feet, to avoid an extended outage of a 345-kV circuit that would have been necessary to avoid existing structures and their associated guying.

1.2 Segment 2a

Change Request 3 submitted to the Council on January 11, 2007 and approved by the Council in a letter dated February 5, 2007 included the redesign of structures in the Wallingford Landfill and vicinity to reduce the tensions and decrease the loads on the structures and foundations based on the results of the analysis of the geotechnical borings and soil conditions in this area. Also included are the addition of a temporary access road spur through a wetland and the relocation of a structure by 30 feet to avoid construction interfering with existing guying.

Change Request 4 submitted to the Council on June 8, 2007 and approved by the Council in a letter dated July 12, 2007 included the addition of a temporary access road through each of two wetlands. The change request also included the addition of an access road across private property. The request for access through private property was later withdrawn by CL&P (in a letter to the Council dated 6-27-07).

Change Request 6 submitted to the Council on October 5, 2007 and approved by the Council in a letter dated October 15, 2007 included the relocation of a structure 35 feet to align it with another new structure and to avoid a line outage that would have been needed for construction.

1.3 Segment 2b

Change Request 4 submitted to the Council on January 26, 2007 and approved by the Council in a letter dated February 7, 2007 included an increase in the height of four structures by 10 feet to maintain clearances over roadways and to maintain the same conductor position relative to the adjacent structure.

Change Request 5 submitted to the Council on March 1, 2007 and approved by the Council in a letter dated March 30, 2007 included the construction of a new temporary access road through a wetland for demolition of a structure.

Change Request 6 submitted to the Council on March 23, 2007 and approved by the Council in a letter dated March 30, 2007 included structure changes in the vicinity of East Devon substation south to the Devon Generating Station consisting of the addition of two structures, changes in the types of structures, and increases in the height of several structures by 10 feet or more as a result of design changes in the Milford Power interconnection and field conditions.

Change Request submitted to the Council on July 16, 2007, jointly for Segments 2a (non significant) and 2b (significant) approved by the Council in a letter dated July 18, 2007 included CL&P's use of construction mats over an existing access road and culvert at a stream/wetland crossing to make D&M Plans consistent with amended permit issued by the U. S. Army Corps of Engineers (ACOE) on July 9, 2007.

Change Request 10 submitted to the Council on October 19, 2007 and approved by the Council in a letter dated November 7, 2007 included the relocation of a structure by 47 feet at the request of the property owner.

Change Request 11 submitted to the Council on January 18, 2007 and approved by the Council in a letter dated January 23, 2007 included the relocation of a structure into a portion of a state jurisdictional wetland in order to avoid a ConnDOT drainage pipe associated with the Wilbur Cross Parkway.

2.0 Underground

2.1 Segment 3

Change Request 2 submitted to the Council on October 6, 2006 and approved by the Council in a letter dated October 13, 2006 provided notification to the Council that blasting would be required to install water and sanitary lines in the new Shelland Street in Milford.

2.2 Segment 4a

Change Request submitted to the Council on May 2, 2006 and approved by the Council on June 12, 2006 to allow minor changes in the design of the cable bonding system resulting in minor changes of several vault locations. Included in the request was a deviation to the route in Bridgeport, routing the ductbank through a vacant lot between Broad Street and Main Street.

2.3 Segment 4c

CL&P and UI submitted an application for the amendment of the Certificate for Docket 272 to the Council on July 21, 2006. The amendment requested a route change to eliminate two crossings of the Norwalk River as required by the ACOE. This resulted in the formation of Segment 4c. The amendment was approved by the Council and the Certificate was amended on February 6, 2007.

3.0 Substation/Switching Stations

There were no significant changes to the D&M Plans for Scovill Rock, Beseck, East Devon or Norwalk Substation/Switching stations.

4.0 Water and Railroad Crossings

A Change Request was submitted to the Council on November 30, 2007 to change the two Metro North rail crossings from a jack and bore methodology to a horizontal directional drill to avoid impacts from increased heat associated with idling trains nearby. The Council approved the request on December 14, 2007.

Attachment 3:

Location of Non-Transmission Materials that have been left in Place

1.0 Overhead

The following table identifies the locations of non-transmission materials left in place in the form of culverts, erosion control structures along watercourses and steep slopes, and corduroy roads in regulated wetlands.

TABLE 3.1 LOCATION OF NON-TRANSMISSION MATERIALS LEFT IN PLACE

Segment/Sheet Number	Non-transmission Material Left in Place	Location
Segment 1a		
Beseck Switching Station to Oxbow Junction		
01225-15001, 1 of 7	12" culvert	West of Powder Hill Rd between structures 24503A and 24504
	12" culvert w/sediment basin	West of Powder Hill Rd between structures 24504 and 24505
01225-15001, 2 of 7	12" culvert w/sediment basin, 12" culvert	West of Powder Hill Rd between structures 24505 and 24506
	12" culvert, sediment basin	West of Powder Hill Rd between structures 24506 and 24507
	40" culvert	West of Powder Hill Rd between structures 24507 and 24508
01225-15001, 3 of 7	10" culvert	East of Black Walnut Dr between existing structures 4497 and 4498
	waterbar w/sediment basin	Between structures 24539 and 3575
	40" culvert*	Between structures 24541 and 24542
01225-15001, 6 of 7	40" culvert, wood mat bridge	West of Johnson Rd and west of structure 24551
	40" culvert	West of Johnson Rd between structures 24551 and 24552
01225-15001, 7 of 7	12" culvert	East of Foothills Rd between structures 24556 and 24557
Scovill Rock Switching Station to Chestnut Junction		
01228-15001, 1 of 3	12" culvert*, 24" culvert*	East of Bartholomew Rd between structures 24606 and 24607
01228-15001, 2 of 3	24" culvert* (2 locations, 1 pre-existed Project)	Near structure 24608
	waterbar, sediment basin, 40" culvert *	East of Rt. 154 between structures 24614 and 24615
	40" culvert* (3 locations, 2 pre-existed Project)	East of Rt. 154 between structures 24615 and 24616

Segment/Sheet Number	Non-transmission Material Left in Place	Location
	sediment basin	East of Rt. 154 between structures 24616 and 24617
	waterbar	East of Rt. 154 between structures 24618 and 24619
Beseck Switching Station to Black Pond		
01227-15001, 1 of 3	28" culvert	North of Carpenter Ln near structure 24500
01227-15001, 2 of 3	40" culvert	North of Fleming Rd near private pond between structures 24458/24410 and 24559/24411
Segment 1b		
01225-15001, 3 of 7	12" culvert	AR-36 in Middlefield
	40" culvert (2 locations)	West of Rt. 17 in Middlefield between structures 24531 and 24532A
	40" culvert	West of Rt. 17 in Middlefield between structures 24532A and 24533
	18" culvert	East of Rt. 17 in Middlefield between Rt. 17 and structure 24534
Segment 2a		
Beseck Switching Station to Cook Hill Junction		
01229-15001, 30 of 30	(3) 12" culverts, wood mat bridge	South of Carpenter Ln near structure 8759
	40" culvert	Near structure 24289
01229-15001, 28 of 30	40" culvert	North of Liney Hall Ln between structures 24270 and 24271
01229-15001, 27 of 30	24" culvert, 12" culvert with sediment basins	Near structure 24255
01229-15001, 22 of 30	10" culvert	Near structure 24216
	40" culvert	Southwest of Ashley Ln between structures 24212 and 24213
01229-15001, 21 of 30	40" culvert, waterbar with sediment basin	East of Tuttle Ave between structures 24211 and 24212
Segment 2b		
Cook Hill Junction to East Devon Substation		
01229-15001, 20 of 30	sediment basins in road drainage, one with (2) 8" culvert outflows	South of Darley Dr between structures 24200/4013 and 24199/4012
01229-15001, 19 of 30	waterbar with sediment basins (2 locations)	West of Brooksvale Ave between structures 24191/4004 and 24190/4003
	14" culvert, (3) 18" culverts	Near structures 24186/3999
	18" culverts with sediment basin	Between structures 24185/3998
	12" culvert	Near 24184/3997

Segment/Sheet Number	Non-transmission Material Left in Place	Location
01229-15001, 18 of 30	(2) 10" culverts, 18" culvert, (2) 18" culverts with sediment basins (2 locations)	Northeast of West Todd Rd between structures 24179/3992 and 24180/3993
	2 level spreaders	Southwest of Gaylord Mountain Rd near structures 24177/3990
	10" culvert, 10" culvert with 2 sediment basins	Southwest of Gaylord Mountain Rd near structures 24176/3989
	10" culvert with 2 sediment basins	Southwest of Gaylord Mountain Rd near structures 24175/3988
	10" culvert with 2 sediment basins	Southwest of Gaylord Mountain Rd near structures 24174/3987
	sediment basin in drainage ditch	Southwest of Gaylord Mountain Rd between structures 24174/3987 and 24176/3989
	Waterbar (2 locations)	Southwest of Gaylord Mountain Rd between structures 24173/3986 and 24174/3987
	10" culvert	Near structures 24173/3986
	10" culvert	Southwest of Gaylord Mountain Rd between structures 24172/3985 and 24173/3986
01229-15001, 17 of 30	10" culvert (2 locations)	Near structures 24169/3982
	12" culvert	Near Downs Rd
	12" culvert	At the cul-de-sac on Raccio Dr
01229-15001, 16 of 30	(3) 40" culverts, 5 waterbars	Near Tennessee Gas underground pipeline between structures 24156/3969 and 24157/3970
	11 waterbars	Between structures 24152/3965 and 24154/3967
	wood mat bridge	Near structures 24154/3967
	wood mat bridge	Between structures 24151/3964 and 24152/3965
01229-15001, 15 of 30	18" culvert	Near structures 24152/3965
	18" culvert*	South of Morris Rd between structures 24140/3953 and 24141/3954
01229-1501, 14 of 30	drainage ditch with sediment basin, waterbar	North of Dillon Rd near structures 24137/3950
	12" culvert, waterbar, waterbar with sediment basins	North of Dillon Rd between the reservoir and structures 24137/3950
	12" culvert	South of Dillon Rd near structures 24131/3944
01229-15001, 13 of 30	(3) 18" culverts, (2) 18" culverts	In access road between structures 24129/3942 and 24130/3943A.
	12" culvert	Near structures 24128/3941
	10" culvert	Between structures 24127/3940 and 24128/3941
01229-15001, 10 of 30	12" culvert	In existing RWA access road west of Dogburn Rd
01229-15001, 9 of 30	waterbar	Between structures 24077/3890 and 24078/3891

Segment/Sheet Number	Non-transmission Material Left in Place	Location
	12" culvert	Near structures 24072/3885
01229-15001, 4 of 30	8" culvert, (2) 8" culverts with sediment basins	Northeast of Wepawaugh River in existing off-ROW access road in Eisenhower Park
	18" culvert	Near structures 24022/3835
01229-15001, 3 of 30	12" culvert	Northeast of Wheeler Farm Rd in spur to structure off of existing nursery field road near structures 24017/3830
01229-15001, 2 of 30	Mats over underground pipeline	Near East Devon Substation

*Existed prior to Project, but was replaced during Project

2.0 Underground

No non-transmission materials were left in place in the underground portion of the Project.

3.0 Substations

No non-transmission materials were left in place at the Scovill Rock, Beseck, East Devon or Norwalk Switching Stations/Substations.

4.0 Water and Railroad Crossings

No non-transmission materials were left in place at water or railroad crossings.

Attachment 4:
Locations of Areas of Special Plantings

1.0 Overhead

CL&P provided some plantings within and adjacent to the rights of way, based on its evaluation of construction impacts and discussions with certain property owners, in the following towns along the overhead portion of the Project: Middletown, Middlefield, Durham, Haddam, Meriden, Wallingford, Cheshire, Hamden, Bethany, Woodbridge, Orange and Milford.

In addition to plantings provided on specific properties following discussions with property owners, CL&P also performed the following "special planting" work:

- Special pasture seeding mixes were used for certain pastures in Wallingford and Orange.
- Woody cover was planted to provide cooling for Allen Brook in Wallingford at the request of State Representative Mary Mushinsky.
- Trees were planted on CL&P property at the request of State Representative Mary Fritz to provide an additional evergreen buffer to residents on High Hill Road in Wallingford
- A road buffer was planted adjacent to wetland areas along Downs Road in Bethany at the request of the Town Tree Warden and local residents.
- Over two acres of wetlands were created in Eisenhower Park in Milford in accordance with the Army Corps of Engineers Permit. Additional wetland and upland shrubs and herbaceous plugs were planted within the right-of-way in Eisenhower Park in areas where invasive species were removed in accordance with the Army Corps of Engineers Permit.

2.0 Underground

Replanting of disturbed areas was performed based on agreements with certain property owners in the following towns along the underground portion of the Project: Milford, Bridgeport, Fairfield, Westport and Norwalk.

3.0 Substations

No "special plantings" were installed at the Scovill Rock, Beseck, East Devon or Norwalk Switching Stations/Substations, other than vegetative plantings approved by the Council as part of the D&M Plans for Beseck and East Devon.

4.0 Water and Railroad Crossings

No special plantings were installed at water or railroad crossings.

Attachment 5
Actual Construction Cost for the Project

The actual construction cost for the Project will be provided following the reconciliation of the project costs with ISO New England.