

R. DIRECTORY OF APPLICATION GUIDE

The following table provides references to indicate where information requested in the Council's application guide is located in this Application.

Table R-1: Cross-Reference Between Council's Guide and This Application

APPLICATION GUIDE FOR TERRESTRIAL ELECTRIC TRANSMISSION LINE FACILITY DATED AUGUST, 2007	
CSC Guide	The Companies' Application
<p>I. Pre-Application Process (General Status § 16-50l (e)) Applicants shall consult General Statutes §§ 16-50g through 16-50aa and Sections 16-50j-1 through 16-50z-4 of the Regulations of Connecticut State Agencies to assure complete compliance with the requirements of those sections.</p>	Volume 1, Section II
<p>II. Quality, Form and Filing Requirements (Regs. Conn. State Agencies § 16-50j-12)</p>	This section details filing mechanics: there are no corresponding sections in the application.
<p>III. Application Filing Fees (General Statutes § 16-50l (a) and Regs. Of Conn. State Agencies § 16-50v-1a) All application fees shall be paid to the Council at the time an application is filed with the Council. Municipal participation fee.</p>	Volume 1, Section IV
<p>IV. Proof of Service (General Status § 16-50l (b)) Each application shall be accompanied by proof of service of such application on:</p> <p>A. The chief elected official, the zoning commission, planning commission, the planning and zoning commissions, and the conservation and wetlands commissions of the site municipality and any adjoining municipality having a boundary not more than 2500 feet from the facility;</p> <p>B. The regional planning agency that encompasses the route municipalities;</p> <p>C. The State Attorney General;</p> <p>D. Each member of the Legislature in whose district the facility is proposed;</p> <p>E. Any federal agency, department, commission, or instrumentality which has jurisdiction over the proposed facility; and</p>	Volume 1, Section V

APPLICATION GUIDE FOR TERRESTRIAL ELECTRIC TRANSMISSION LINE FACILITY DATED AUGUST, 2007	
CSC Guide	The Companies' Application
F. The state departments of Environmental Protection, Public Health, Public Utility Control, Economic and Community Development, and Transportation; the Council on Environmental Quality; the Office of Policy and Management; and the State Historic Preservation Officer (SHPO).	
V. Notice to Community Organizations The applicant shall use reasonable efforts to provide notice of the application on the following: A. Affected community groups including Chambers of Commerce, land trusts, environmental groups, trail organizations, historic preservation groups, advocacy groups for the protection of Long Island Sound, and river protection organizations within the watershed affected by the proposed facility that have been identified by municipality where the facility is proposed to be located or that have registered with the Council to be provided notice; and B. Any affected water company within the watershed affected by the proposed facility.	Volume 1, Section VI
VI. Notice in Utility Bills (General Statutes § 16-50I (b)) For electric transmission facilities, notice shall also be provided to each electric company customer in the municipality where the facility is proposed on a separate enclosure with each customer's monthly bill.	Volume 1, Section VII
VII. Contents of Application (General Statutes § 16-501 (a) (1)) An application for a Certificate for the construction of a transmission line facility should include or be accompanied by the following:	
A. A brief description of the proposed facility, including location relative to affected municipalities and location relative to adjacent streets.	Volume 1, Section I (E)
B. A statement of the purpose for which the application is being made.	Volume 1, Section I (A)
C. A statement describing the statutory authority for such application.	Volume 1, Section I (B)
D. The exact legal name of each person seeking the authorization or relief and the address or principal place of business of each such person. If any applicant is a corporation, trust association, or other organized group, it shall also give the state under the laws of which it was created or organized.	Volume 1, Section I (C)
E. The name, title, address, and telephone number of the attorney or other person to whom	Volume 1, Section I (D)

APPLICATION GUIDE FOR TERRESTRIAL ELECTRIC TRANSMISSION LINE FACILITY DATED AUGUST, 2007	
CSC Guide	The Companies' Application
correspondence or communications in regard to the application are to be addressed. Notice, orders, and other papers may be served upon the person so named, and such service shall be deemed to be service to the applicant.	
F. An Executive Summary providing an overview description of the proposal, and any transmission line facility and routing alternatives.	Volume 1, Section I (Executive Summary)
G. A statement and full explanation of why the proposed transmission line is needed and how the transmission line would conform to a long-range plan for expansion of utility service in the state and interconnected utility systems that would serve the public need for adequate, reliable, and economic service, including:	Volume 1, Section I (F)
1. A description and documentation of the existing system and its limitations;	Volume 1, Section I (F.2 and F.5)
2. Justification for the proposed in-service date;	Volume 1, Section I (F.6)
3. The estimated length of time the existing system is judged to be adequate with and without the proposed transmission line;	Volume 1, Section I (F)
4. Identification of system alternatives with the advantages and disadvantages of each; and	Volume 1, Section I (G)
5. If applicable, identification of the facility in the forecast of loads and resources pursuant to General Statutes § 16-50r.	Volume 1, Section I (F.3);
6. The extent to which the facility shall be located overhead, pursuant to General Statutes § 16-50p(a)(3)(D) and 16-5l(a)(A)	Volume 1, Section (H)
7. An impact assessment of any electromagnetic field to be produced by proposed transmission line, pursuant to General Statutes § 16-5l(a)(A)	Volume 1, Section I (O)
For Sections H – J: All applications shall include the following information for property within the proposed project area, including access roads and the proposed ROW. To the extent that the Applicant does not own, lease or otherwise have access to property within the proposed project areas, the Applicant shall exert due diligence to seek permission to gain access. Due diligence shall be established by the submission of (1) Certified Mailing receipts for letters sent to the owner or owners of record requesting access to the property; and (2) an affidavit from the Applicant stating that it was not provided access to the property. In the absence of permission to access, the Applicant shall make visual inspections to document existing conditions from public ROW, existing utility ROW and/or from other accessible properties within or surrounding the proposed project area.	Proposed routes predominately follows CL&P's existing ROWs, or is aligned along public roadways or in other areas that are visible from public locations.
H. A narrative description of the proposed transmission	Volume 1, Section I (L); Volumes 2

APPLICATION GUIDE FOR TERRESTRIAL ELECTRIC TRANSMISSION LINE FACILITY DATED AUGUST, 2007	
CSC Guide	The Companies' Application
line including:	(Environmental – Wetlands) and 4 (Environmental) and Volumes 9, and 11 (Aerial Photographs) for all of the following.
<u>Existing Conditions</u>	Volume 1, Section I (L)
1. The ecological communities of the wetlands, watercourses and upland systems and their functional significance, including but not limited to:	
a. Floral associations;	Volume 1, Section I (L.1.2, L.1.3, L.2.2 and L.2.3) and Volume 2 (Environmental – Wetlands)
b. Inventory of wildlife habitat with observed and expected wildlife users;	Volume 1, Section I (L.1.3 and L.2.3); Volume 4 (Report entitled “Inventory of Vernal Pools and Amphibian Breeding Habitats Along the Connecticut Portion of the GSSRP” by ENSR)
c. Species of Special Concern and rare or endangered species, including their habitats;	Volume 1, Section I (L.1.3.6 and L.2.3.6)
d. Inventory of breeding birds and their habitats;	Volume 1, Section I (L.1.3.5 and L.2.3.5); Volume 4 (Report Entitled “Inventory of Potential Breeding Bird Species and Habitats Along the Connecticut Portions of Greater Springfield Reliability Project”)
e. Riparian environments and buffer vegetation; and	Volume 1, Section I (L.1.2, L.1.3, L.2.2 and L.2.3) and Volume 2 (Environmental – Wetlands)
f. Fishery habitat and cold water fisheries.	Volume 1, Section I (L.1.3.3 and L.2.3.3)
2. Existing infrastructure (where applicable)	Volume 1, Section I (I.1 and I.2)
a. Existing ROW boundaries;	Volume 9 (Aerial Photographs - 400 Scale), Volume 11 (Aerial Photographs - 100 Scale), Volume 1, Section I (I.1.2 and I.1.3) and Volume 10 (Typical Cross-Sections and Photo Simulations)
b. Components of existing transmission line; and	Volume 1, Section I (F.2, I.1.5); Volume 8 (Photographs); Volume 10 (Typical Cross-Sections and Photo Simulations)
c. Other improvements within existing and proposed right-of-way	Volume 11 (Aerial Photographs - 100 Scale)
<u>Proposed Conditions</u>	
1. Itemized estimated costs;	Volume 1, Section I (I.4)
2. Conductor sizes and specifications;	Volume 1, Section I (I.1.1 and I.2.1)
3. Overhead structure design, appearance, and heights, if any,	Volume 1, Section I (I.1.2 and I.2.2); Volume 8 (Photographs along Proposed Route), Volume 10 (Typical Cross-Sections and Plan & Profile Drawings)
4. Length of line;	Volume 1, Section I (I.4.1)
5. Terminal points;	Volume 1, Section I (I.4)
6. Initial and design voltages and capacities;	Volume 1, Section I (I.1.2, I.2.2, and I.4.3)
7. Rights-of-way and access way acquisition;	Volume 1, Section I (I.3.3)
8. Areas of disturbance (temporary and permanent)	Volume 1, Section I (J, K, M)
9. Proposed construction staging areas, conductor	Volume 1, Section I (J)

APPLICATION GUIDE FOR TERRESTRIAL ELECTRIC TRANSMISSION LINE FACILITY DATED AUGUST, 2007	
CSC Guide	The Companies' Application
pulling sites, material marshaling yards and construction field offices.	
10. Proposed access roads and opportunities for alternative access;	Volume 1, Section I (I.4.3 and J.1.4) and Volume 11 (Aerial Photographs - 100 Scale)
11. Proposed structure location envelopes;	Volume 1, Section I (I.4.4) and Volume 11 (Aerial Photographs - 100 Scale)
12. Proposed blasting, grading, and changes to drainage;	Volume 1, Section I (J.1.9 and N.1.9)
13. Substation connections;	Volume 1, Section I (J.1.9 and N.1.9); Volume 7 (Substation Drawings)
14. Service areas;	Volume 1, Section I (I.4.6)
15. Construction methods and difficulties; and	Volume 1, Section I (J)
16. For an electric transmission line, a description of the life-cycle costs of the proposed transmission line and alternative facilities, including overhead and underground lines, including all capital and operating costs, and other associated effects that can be calculated for development and operation of the specified transmission line and alternative lines over their expected operational lives.	Volume 1, Section I (I.5)
I. <u>Area Description</u> - A proposed route map, and maps or aerial photographs at a suitable scale (one inch = 400 feet to 2,000 feet) showing the ROWs and the proximity of the following:	
1. Settled areas; schools and daycare centers; hospitals; and group homes;	Volume 9 (Aerial Photographs - 400 Scale)
2. Forests and parks; recreational areas; scenic areas; historic areas; and areas of archaeological interest;	Volume 9 (Aerial Photographs - 400 Scale)
3. Areas regulated under the Inland Wetlands and Watercourses Act and Coastal Zone Management Act, unless provided under Section J;	Volume 9 (Aerial Photographs - 400 Scale) Volume 11 (Aerial Photographs - 100 Scale)
4. Areas regulated under the Tidal Wetlands Act, unless provided under Section J;	Volume 9 (Aerial Photographs - 400 Scale)
5. Public water supplies;	Volume 9 (Aerial Photographs - 400 Scale)
6. Hunting or wildlife management areas;	Volume 9, Aerial Photographs (400 Scale)
7. Existing transmission lines within one mile of the route;	Volume 1, Section I (F.2.1, Figure F-2); Volume 9 (Aerial Photographs - 100 Scale)
8. Depth to bedrock map (USGS Series), and;	Volume 9 (USGS Maps)
9. Vegetative communities.	Volume 9 (Aerial Photographs - 400 Scale); Volume 10 (Plan & Profile Drawings) Volume 11 (Aerial Photographs - 100 Scale)
J. <u>Proposed Route Description</u> - Proposed route plans at a scale no smaller than 1"=100 feet, except as otherwise required, showing existing conditions and certain proposed transmission line changes, expanding upon the narrative descriptions in Section H.	Volume 11 (Aerial Photographs - 100 Scale)

APPLICATION GUIDE FOR TERRESTRIAL ELECTRIC TRANSMISSION LINE FACILITY DATED AUGUST, 2007	
CSC Guide	The Companies' Application
<u>Existing Conditions</u>	
a. Identification of existing and proposed ROW boundaries;	Volume 11 (Aerial Photographs - 100 Scale)
b. Location of any existing transmission line structures and accessways;	Volume 11 (Aerial Photographs - 100 Scale)
c. Contour mapping at two-foot intervals;	Volume 11 (Aerial Photographs - 100 Scale)
d. Inland and tidal wetlands boundaries, vernal pools, and intermittent and perennial watercourses, as determined in the field, unless existing mapping is adequate, with a 50 foot buffer shown for wetlands and a 100 foot buffer shown for vernal pools and watercourses.	Volume 11 (Aerial Photographs - 100 Scale)
e. Coastal Management Zone boundaries;	Volume 11 (Aerial Photographs - 100 Scale)
f. 100-year flood plain boundaries as identified by the Federal Emergency Management Agency;	Volume 11 (Aerial Photographs - 100 Scale)
g. Locations of protected and special concern species;	See Volume 1, Section I (L.1.3 and L.2.3) for narrative description. Locations of protected and special concern species not included on maps to protect species.
h. Areas susceptible to soil erosion;	Volume 11 (Aerial Photographs - 100 Scale)
i. Habitat for protected and special concern species, including those represented by the DEP Natural Diversity Data Base (confidential data provided in an appropriate manner);	Volume 1, Section I (L.1.3 and L.2.3)
j. Fishery habitat and cold water fisheries.	Volume 1 (L.1.3.3 and L.2.3.3) Volume 9 (Aerial Photographs - 400 Scale) Volume 11, (Aerial Photographs - 100 Scale)
(All maps shall identify the location(s) of source information.)	
2. <u>Changes to existing conditions for the proposed transmission line:</u>	Volumes 11 (Aerial Photographs - 100 Scale); Volume 10, Cross Sections
a. Additional Rights-of-way width required, if any;	
b. Anticipated transmission line structure location envelopes;	Volume 11 (Aerial Photographs - 100 Scale)
c. Anticipated areas of disturbance (temporary and permanent);	Volume 11 (Aerial Photographs - 100 Scale); Volume 10 (Typical Cross Sections and Photo Simulation)
d. Where any anticipated area of disturbance overlaps a wetland or a wetland buffer boundary;	Volume 11 (Aerial Photographs - 100 Scale)
e. Anticipated area of disturbance for material staging and conductor pulling sites;	Volume 11 (Aerial Photographs - 100 Scale); Volume 9 (Aerial Photographs - 400 Scale), Volume 1, Section I (K)

APPLICATION GUIDE FOR TERRESTRIAL ELECTRIC TRANSMISSION LINE FACILITY DATED AUGUST, 2007	
CSC Guide	The Companies' Application
f. Anticipated access roads and opportunities for alternative access;	Volume 11 (Aerial Photographs - 100 Scale); Volume 9 (Aerial Photographs - 400 Scale)
g. Substation connections;	Volume 11 (Aerial Photographs - 100 Scale); Volume 7 (Substation Drawings)
h. Other sensitive areas requiring special attention.	Volume 11 (Aerial Photographs - 100 Scale)
K. A description of the impact the proposed transmission line and its construction would have on the environment, ecology, and scenic, historic, and recreational values, including effects on:	Volume 1, Section I (N)
1. Public health and safety; Conn. Gen. Stat. § 16-50p. Proposed and existing routes of underground and overhead lines in proximity to residential areas, schools, day care facilities, camps, playgrounds and industrial areas.	Volume 1, Section I (K)
2. Local, state, and federal land use plans including energy security;	Volume 1, Section I (N.1.4)
3. Existing and future development;	Volume 1, Section I (N.1.4)
4. Road crossings;	Volume 11 (Aerial Photographs - 100 Scale); Volume 9 (Aerial Photographs - 400 Scale); Volume 1, Section I (N.1.5)
5. Wetlands, vernal pools, and watercourses within existing or expanded right-of-way, access roads and other disturbed areas; relationship of these features to adjacent uplands; their values and function assessment;	Volume 1, Section I (N.1.2); Volume 2 (Reports by ENSR entitled "Wetland and Waterways Description Report" and "Supplemental Wetland and Waterways Description Report"). See also, Volume 4.
6. Water quality on the right-of-way, and down slope areas including pollution transport and risks from insulating oils;	Volume 1, Section I (J and N.1.2)
7. Wildlife and vegetation, including rare and endangered species, and species of special concern, with documentation by the Department of Environmental Protection Natural Diversity Data Base;	Volume 1, Section I (N.1.3)
8. Open space and protected areas;	Volume 1, Section I (N.1.4)
9. Water supply areas;	Volume 1, Section I (N.1.2)
10. Archaeological and historic resources, with documentation by the State Historic Preservation Officer; and	Volume 1, Section I (N.1.6); Volume 3 (Environmental – Cultural Resources)
11. Other environmental concerns identified by the applicant, the Council, or any public agency.	Volume 1, Section I (L and N)
L. Mapping/plans with an associated description explaining mitigation measures for the proposed transmission line including:	
1. Construction techniques designed specifically to minimize adverse effects on natural areas and sensitive areas;	Volume 1, Section I (J, N); Volume 7 (Substation Drawings); Volume 11 (Aerial Photographs - 100 Scale)
2. Special routing or design features made	Volume 1, Section I (H, I, N)

APPLICATION GUIDE FOR TERRESTRIAL ELECTRIC TRANSMISSION LINE FACILITY DATED AUGUST, 2007	
CSC Guide	The Companies' Application
specifically to avoid or minimize adverse effects on natural areas and sensitive areas;	
3. Justification for maintaining retired or unused facilities on the ROWs if removal is not planned;	Volume 1, Section I (I)
4. Methods to prevent and discourage unauthorized use of the ROWs;	Volume 1, Section I (N)
5. Establishment of vegetation proposed near residential, recreational, and scenic areas and at road crossings, waterways, ridgelines, and areas where the line would be exposed to view;	Volume 1, Section I (J.1.8)
6. Methods for preservation of vegetation for wildlife habitat and screening;	Volume 1, Section I (N.1.3)
7. Methods for mitigating or restoring impacted wildlife habitat, wetlands, and watercourses; and	Volume 1, Section I (N.1.2 and N.1.3)
8. Erosion and sedimentation controls and methodology.	Volume 1, Section I (J.1.1), (N.1.1)
M. Safety and reliability information, including:	Volume 1, Section I (K)
1. Provisions for emergency operations and shutdowns; and	
2. Fire suppression technology.	Volume 1, Section I (K)
N. Justification that the location of the proposed transmission line would not pose an undue safety or health hazard to persons or property along the area traversed by the proposed transmission line including:	Volume 1, Section I (O)
1. Measurements of existing electric and magnetic fields (EMF) at the boundaries of adjacent schools, daycare facilities, playgrounds, and hospitals, with extrapolated calculations of exposure levels during expected normal and peak normal line loading;	Volume 1, Section I (O)
2. Calculations of expected EMF levels at the above listed locations that would occur during normal and peak normal operation of the transmission line; and	Volume 1, Section I (O)
3. A statement describing consistency with the Council's "Best Management Practices for Electric and Magnetic Fields", as amended.	Volume 1, Section I (O)
P. A schedule of proposed program for ROW or property acquisitions, construction, rehabilitation, testing and operation.	Volume 1, Section I (P)
Q. Transmission Line Alternatives. Provide narrative descriptions generally addressing the same items required for the proposed transmission line (Section H).	Volume 1, Section I (H, I.3, I.4, I.5, M, N.2, N.3 and O.4.2)
R. A justification for adoption of the route selected	Volume 1, Section I (H, I)

APPLICATION GUIDE FOR TERRESTRIAL ELECTRIC TRANSMISSION LINE FACILITY DATED AUGUST, 2007	
CSC Guide	The Companies' Application
including a comparison with alternative routes which are environmentally, technically, and economically practicable. For electric transmission lines. Provide a justification of overhead portions, if any, including comparative cost studies and a comparative analysis of effects described in Section K for under grounding. Within 60 days of filing, the applicant shall provide supplemental information for the Council to make a reasonable comparison between the Applicant's proposed route and any reasonable alternative route recommended by the site municipalities pursuant to C.G.S. Section 16-501.	
S. Identification of each federal, state, regional, district and municipal agency with which proposed route reviews have been undertaken or will be undertaken, a copy of each written agency position on such route, and a schedule for obtaining approvals not yet received.	Volume 1, Section I (Q) and Volume 4 (Agency Correspondence)
T. Bulk filing of municipal zoning, planning, planning and zoning, conservation and inland/wetland regulations and bylaws.	Volume 1, Section I (T)
U. Such information any department or agency of the state exercising environmental controls may, by regulation, require.	Volume 1, Section I (Q)
V. Such information the applicant may consider relevant.	Application
X. The applicant shall submit into the record the full text of the terms of any agreement, and a statement of any consideration therefore, if not contained in such agreement, entered into by the applicant and any party to the certification proceeding, or any third party, in connection with the construction or operation of the facility. This provision shall not require the public disclosure of proprietary information of trade secrets. Please note that all documents, including but not limited to maps, must be dated. If the document date is unavailable, the date the document was obtained shall be provided. If a map includes a key table(s) a matching source list/table, appropriately organized, shall also be included.	