



PET # 3

NORTHEAST UTILITIES SERVICE COMPANY
P. O. BOX 270
HARTFORD, CONNECTICUT 06101
203-666-6911

DONALD C. SWITZER
EXECUTIVE VICE-PRESIDENT

September 20, 1972

Mr. William C. Joram, Jr.
Executive Director
Power Facility Evaluation Council
State Office Building (Room 31A)
165 Capitol Avenue
Hartford, Connecticut 06115

RECEIVED

SEP 22 1972

POWER FACILITY
EVALUATION COUNCIL

Dear Mr. Joram:

Pursuant to Section 16-50j-39 of the Administrative Regulations adopted by the Power Facility Evaluation Council, Northeast Utilities Service Company, as agent for its corporate affiliate, (The Connecticut Light & Power Company (CL&PCo)), hereby petitions for an advisory ruling determining that no certificate of environmental compatibility and public need is required pursuant to Section 16-50k(a) of the General Statutes of Connecticut for the CL&PCo electric transmission line project described herein. It is submitted that no such certificate is required because of one or both of the following reasons:

- a. The proposed project is not substantial enough to constitute "modification" of the transmission line.
- b. The proposed project will not have a substantial adverse environmental effect.

In addition to the foregoing reasons, we believe that no application is required for this project because the transmission line was constructed prior to April 1, 1972, and therefore, in accordance with Section 16-50k(d) of the General Statutes the Public Utility Environmental Standards Act does not apply to it.

The proposed project would primarily consist of reconductoring (sometimes called "re-wiring") all of one 115 kV circuit and most of the second 115 kV circuit from Trumbull Junction in the Town of Trumbull westerly 18.9 miles to Norwalk Substation in the Town of Norwalk. As more fully described below a number of minor modifications to a few of the existing steel supporting structures are also contemplated. This work is intended to improve the 115 kV supply from the sources of generation in the Bridgeport - Milford area to the loads in lower Fairfield County.

Because of operating and construction scheduling considerations the work would be broken into several components. The northerly circuit for a distance of 18.9 miles from Trumbull Junction to Norwalk Substation is scheduled for completion by December, 1973. The southerly circuit, for a distance of 15.9 miles from the Old Town Substation (of The United Illuminating Company in the Town of Bridgeport) to the Norwalk Substation would be completed by October, 1974. In both cases it is proposed to replace the existing 4/0 copper conductor with 556 kcmil ACSR conductor, the latter being about 0.4 inches larger in diameter. Both circuits were constructed in their present form in 1950.

For a little over two miles from the Norwalk Substation northward, CL&PCo has already initiated relocation and reconstruction of the lines which are the subject of this request in conjunction with and as a result of the rebuilding of Route 7. Because this highway construction and the associated transmission line work has been halted by court injunction, this request for an advisory ruling proposes reconductoring on the existing structures in this area. If and when relocation work resumes, the relocated and rebuilt line may obviate the need for some of the reconductoring proposed herein.

Disregarding the uncertain alternative posed by the highway relocation work (which was commenced by CL&PCo in 1970), minor modifications are proposed on a few structures out of the total 158 along the entire length. At seven structures minor regrading of the earth around the foundations is anticipated to cover some which are exposed. At five other structures it is necessary to increase the size of no more than two of the four foundations supporting each structure. This is due to the increased conductor size and tension the structures support. At one of these same five towers and two additional locations it will be necessary to add a single wood pole to withstand the heavier conductor loading. Finally, at a point where the lines cross the Penn Central Railroad north of Norwalk Substation, it is planned to replace two of the existing steel structures with wood pole structures, again due to conductor loading considerations. Of these sixteen structures for which modifications are anticipated only one, near a road crossing, is visible to the public to any extent. The others are in woods and out of sight. The nature of the work is also such that, except at the railroad crossing and the three places where a pole will be added, there will be no change in appearance of the structures.

The Public Utility Environmental Standards Act does not define "modification" and it therefore must be interpreted in accordance with its customary usage. The dictionary definition of "modification" is "the act or action of changing something without fundamentally altering it." "Change" is defined as "the action of making something different in form, quality or state." It is submitted that the replacement of the conductors with conductors of slightly larger diameters and the minor

September 20, 1972

modifications to the existing structures on this transmission right-of-way will not cause this facility to be different in form, quality or state within the context of the statute's concern with significant impact of utility facilities on environment and ecology.

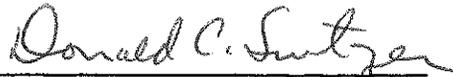
The proposed project will not involve increasing the size or location of the transmission structures or materially altering their appearance, nor will the cleared right-of-way area be enlarged. The project would cause no discernible adverse effect on the environment or ecology, nor would it damage scenery, historic or recreational values. Section 16-50(a) provides that the Power Facility Evaluation Council must determine that a proposed project may have a "substantial adverse environmental effect" prior to the requirement that a certificate of environmental compatibility and public need be obtained. It is submitted that the Council should determine that this proposed project will have no such substantial adverse environmental effect and therefore that no certificate is required.

Communications regarding this request should be directed to Donald C. Switzer, Executive Vice-President, Northeast Utilities Service Company, P. O. Box 270, Hartford, Connecticut 06101 (telephone 666-6911).

Very truly yours,

NORTHEAST UTILITIES SERVICE COMPANY

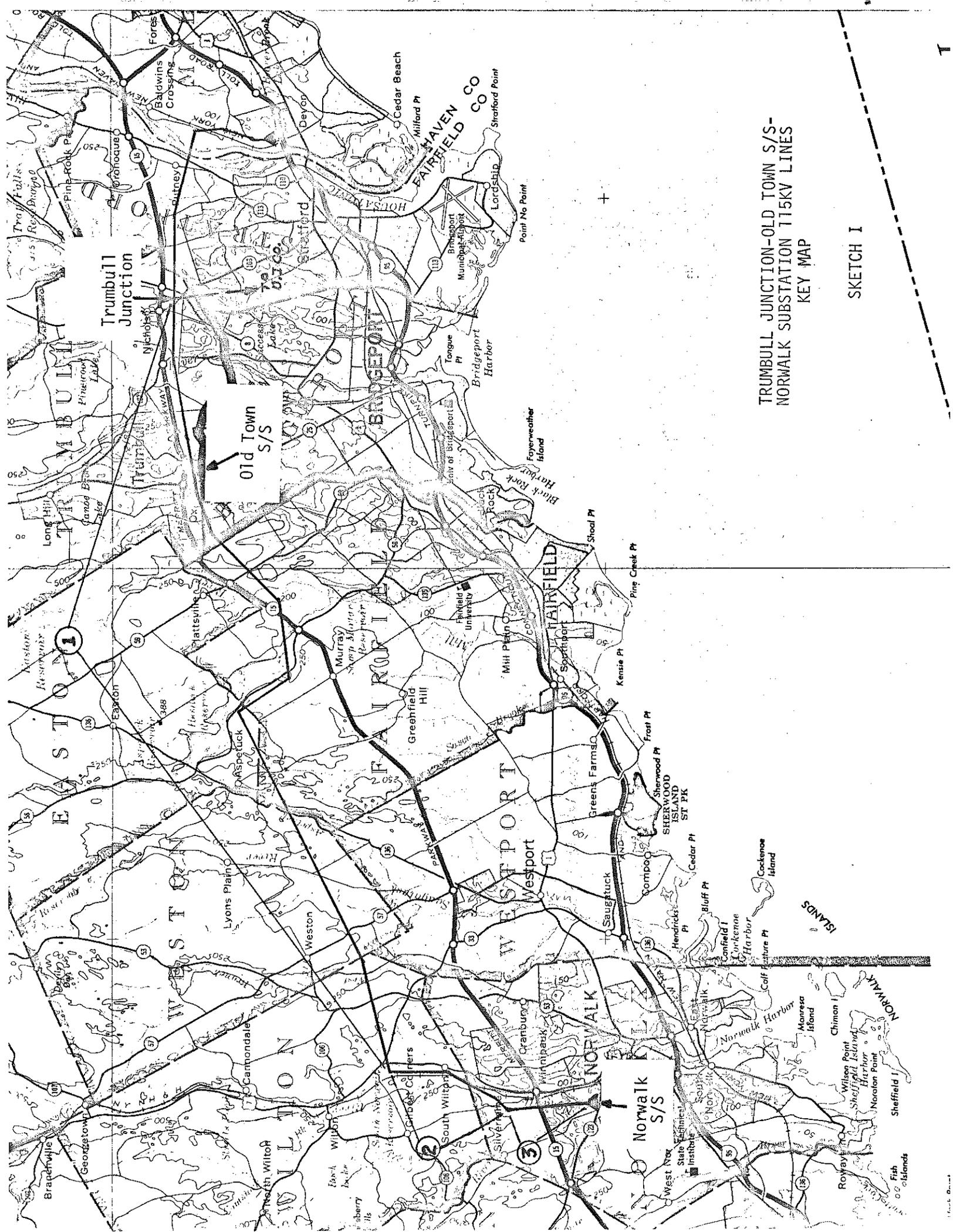
By



Donald C. Switzer
Executive Vice-President

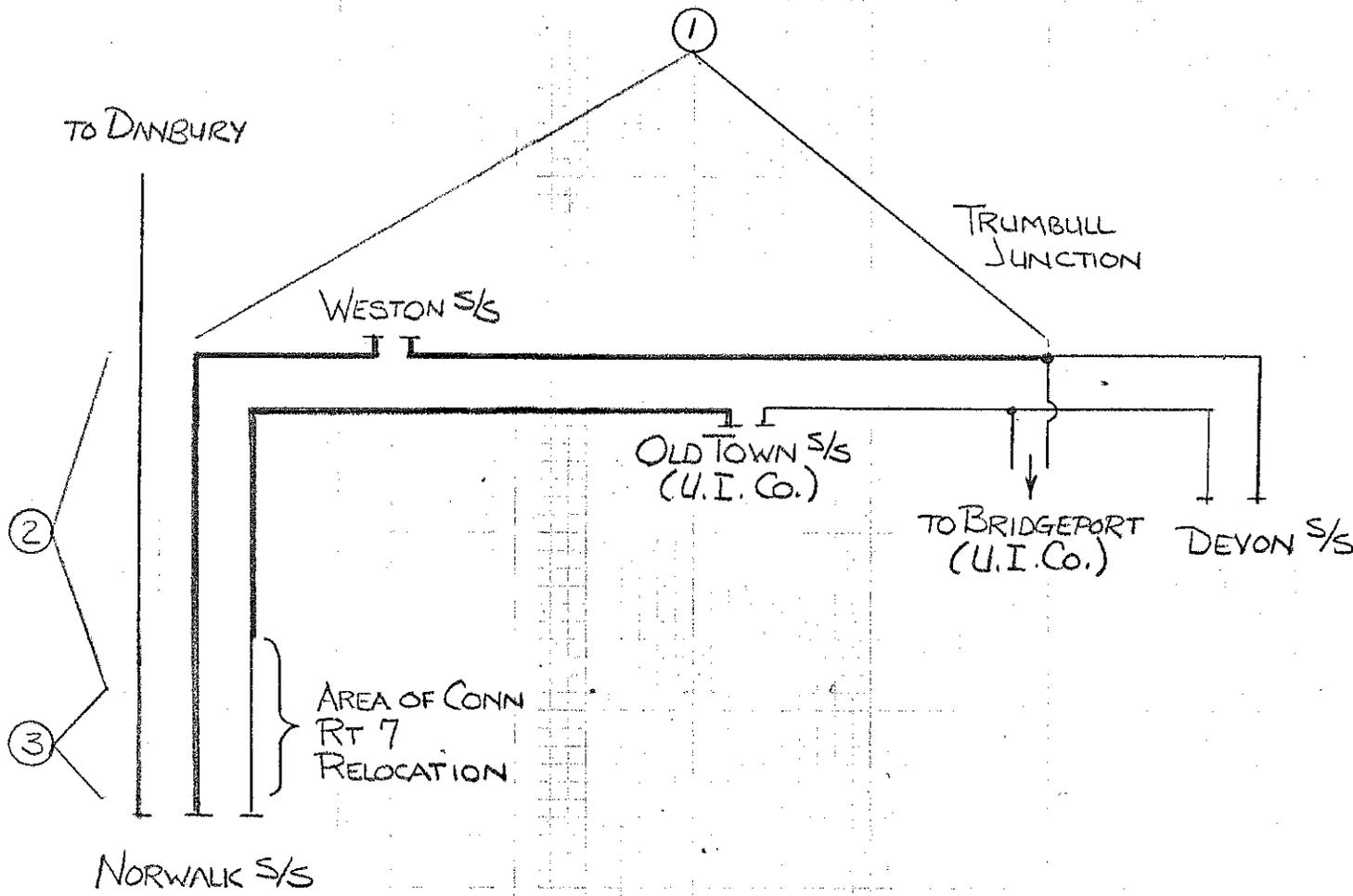
DCS/bt

Attachments



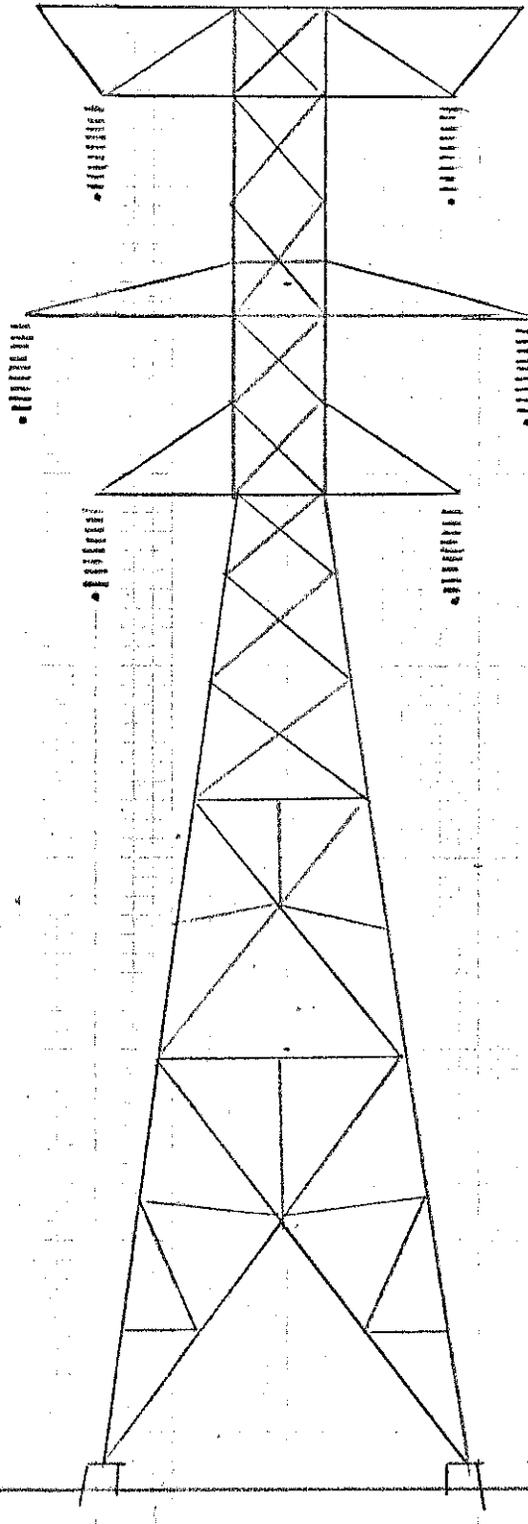
TRUMBULL JUNCTION-OLD TOWN S/S-
 NORWALK SUBSTATION 115KV LINES
 KEY MAP

SKETCH I



NOTE: HEAVY LINE INDICATES PORTION OF LINE TO BE RECONDUCTORED

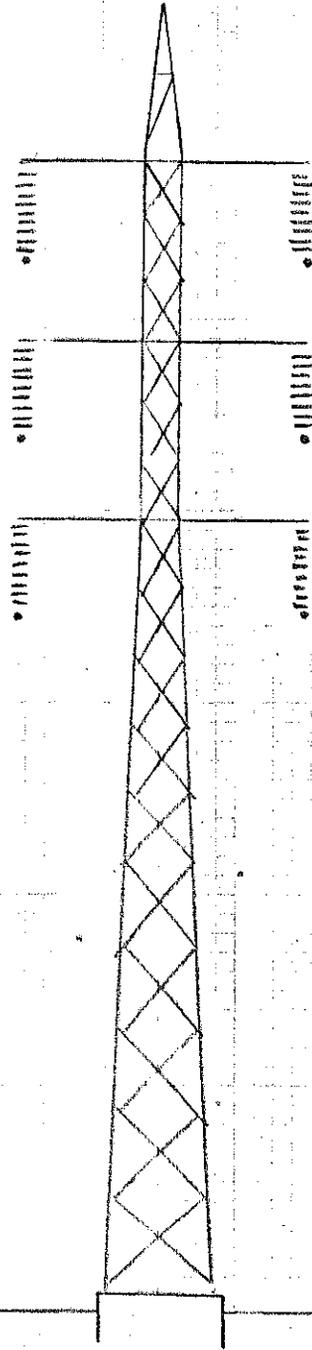
SCHEMATIC ARRANGEMENT



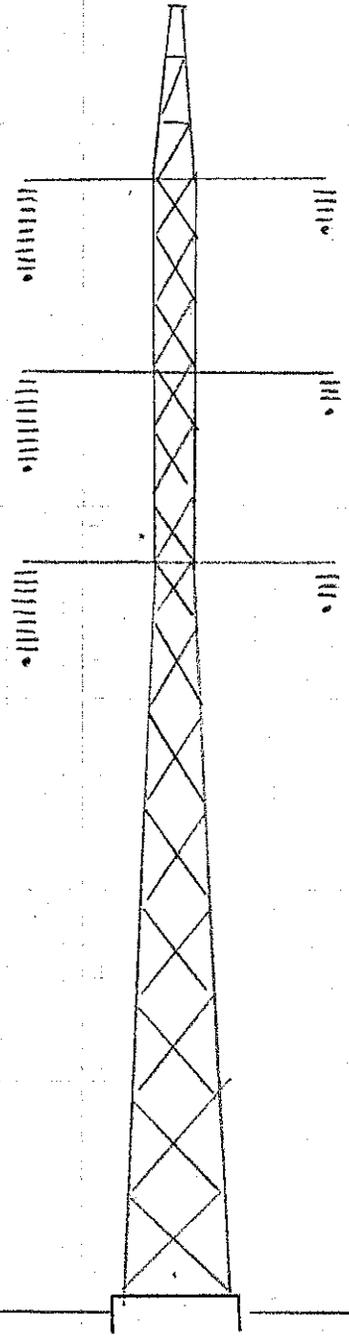
TYPICAL STRUCTURE - SECTION 1
PRESENT AND PROPOSED

SKETCH 3

DEVON - NORWALK



NORWALK - DANBURY



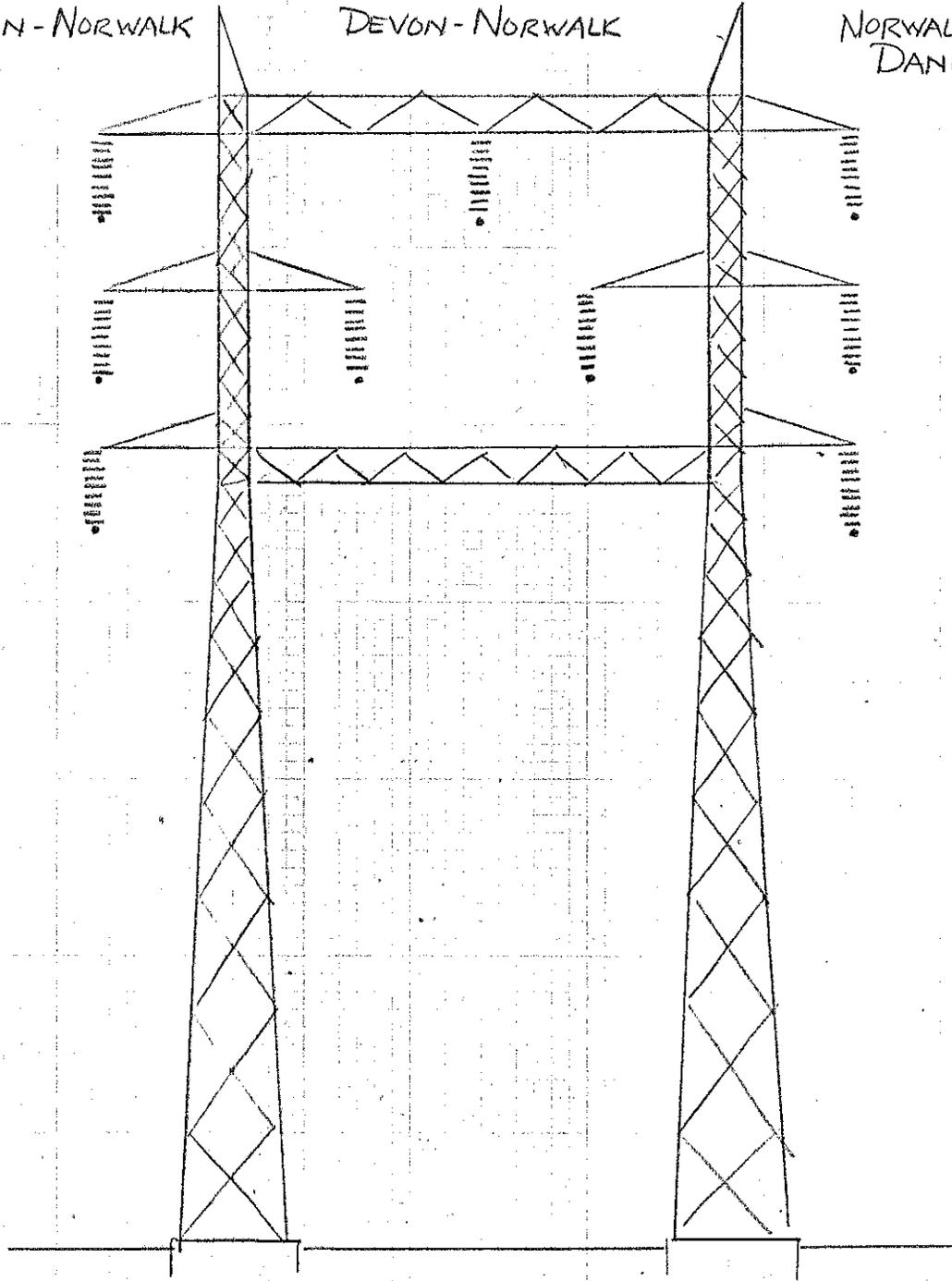
TYPICAL STRUCTURE - SECTION 2
PRESENT AND PROPOSED
(LOOKING SOUTHERLY)

SKETCH 4

DEVON - NORWALK

DEVON - NORWALK

NORWALK -
DANBURY



TYPICAL STRUCTURE - SECTION 3

PRESENT AND PROPOSED
(LOOKING SOUTHERLY)

SKETCH 5

October 17, 1972

Mr. Donald C. Switzer
Executive Vice President
Northeast Utilities Service Company
P. O. Box 270
Hartford, Connecticut 06101

Dear Mr. Switzer:

On October 13, 1972 at a meeting of the Power Facility Evaluation Council this Council ruled that no certificate of environmental compatability and public need is required pursuant to section 16-50K (a) of the General Statutes of Connecticut, for The Connecticut Light and Power Company electric transmission line project exactly as described in your petition dated September 20, 1972 regarding reconductoring all of one 115 kV circuit and most of the second 115 kV circuit from Trumbull Junction in the Town of Trumbull westerly 18.9 miles to Norwalk Substation in the Town of Norwalk.

The Council ruled that the fact that the transmission line was constructed before April 1, 1972 had no bearing in their decision and that the decision made applied only to this petition exactly as stated and is not applicable to any reworking of any other transmission line.

Yours very truly,

WILLIAM C. JURAM, JR.
Executive Director

WCJjr:rvc

CUP THE CONNECTICUT LIGHT AND POWER COMPANY
A NORTHEAST UTILITIES COMPANY

RECEIVED

November 4, 1974

POWER FACILITY
EVALUATION COUNCIL

RECEIVED
NOV 5 1974
STATE UTILITIES COMMISSION
STATE OF CONNECTICUT

Mr. Henry Mierzwa
Executive Secretary
Public Utilities Commission
State Office Building
Hartford, Connecticut 06115

Subject: File No. 4-T-24-34-11-749
Request for Approval of Method and Manner
of Reconductoring a Portion of an Existing
115 kV Line between Trumbull Junction and
Norwalk Substation

Dear Mr. Mierzwa:

On November 2, 1972 a request was filed with the Commission with respect to the above-mentioned construction in accordance with Section 16-11-137 of Commission Docket No. 9000. On November 8, 1972 a letter from the Commission was sent to us granting such approval.

Due to the nature of the reconstruction, these lines were energized at 115 kV on a daily basis.

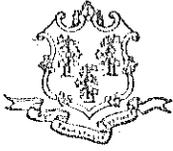
The Commission is hereby advised that the rebuilding of these subject lines was completed on October 31, 1974.

Yours very truly,



P. F. Ryder
Distribution Engineer

PFR/gdw



STATE OF CONNECTICUT

PUBLIC UTILITIES COMMISSION

STATE OFFICE BUILDING HARTFORD, CONNECTICUT 06115

RECEIVED
JUN 27 1974
POWER FACILITY
EVALUATION COUNCIL

FILE

4 - T - 764

IN THE MATTER OF REQUEST OF THE CONNECTICUT
LIGHT AND POWER COMPANY FOR APPROVAL OF METHOD
AND MANNER OF MODIFYING TWO 115 KV LINES AND
ONE TO PASS THROUGH AND ONE TO SUPPLY A NEW
FLAX HILL SUBSTATION IN THE TOWN OF NORWALK

On January 2, 1974 a request was filed with the Commission with respect to the above-mentioned construction, in accordance with sections 16-11-137 and 16-11-139 of Commission Docket No. 9000.

It also appears that there was filed by the applicant a letter dated May 23, 1974 requesting permission to energize the above-mentioned lines.

The Chief Engineer of this Commission has examined the request to energize these lines and recommends that approval be granted as requested.

Now, therefore, we do hereby grant approval to energize these lines as requested.

The Connecticut Light and Power Company is hereby directed to advise the Commission of the date on which these lines are first energized.

Dated at Hartford, Connecticut this 21st day of June, 1974.

By Order
Public Utilities Commission

Henry Mierzwa
Executive Secretary

CC: Power Facility Evaluation Council - Mr. Wm. Joram ✓

DRAFT



STATE OF CONNECTICUT

POWER FACILITY EVALUATION COUNCIL
STATE OFFICE BUILDING HARTFORD, CONNECTICUT 06115
TEL (203) 566-5612

INSPECTION OF PETITION NO. 3

On July 29, 1975, Joseph Laforte designee of the Commissioner of the Department of Environmental Protection and Executive Director Joram of the PFEC accompanied by Mssrs. Gerald Thompson and Michael Carlson of Northeast Utilities inspected the 115 kV electric transmission line on which rewiring had been completed between Trumbull and Norwalk.

There was no visual evidence that work had been done on the line except that at points where the line changed direction, wooden poles had been installed to replace lattice towers. Where the re-wired circuit ran parallel to a circuit of the former type, it could be seen that the diameter of the new conductors was larger than that of the older ones.

The rewiring was observed to have been completed as specified in the applicants letter of September 20, 1972 (Petition No. 3).

7/19/73

IDENTIFICATION OF FOLLOWING PHOTOGRAPHS:

PHOTOS OF PROPOSED CABLE ROUTE FROM TRIANGLE STREET TO MIDDLE RIVER SUBSTATION.

1. Taylor St. at Casper St. looking southeasterly to Triangle Substation.

Taylor St. at Casper St. looking northwesterly along Taylor Street.

Taylor St. near the railroad crossing looking southeasterly toward Triangle Substation.

Taylor St. near railroad crossing looking northeasterly across the railroad.

Wildman St. at Austin St. looking southwestly across railroad.

Wildman St. at Austin St. looking northerly along Wildman St.

Wildman St. at White St. looking southerly along Wildman St.

Wildman St. at White St. looking westerly along White St. to Ninth Ave.

White St. at Ninth Ave. looking easterly along White St. to Wildman St.

White St. at Ninth Ave. looking northwesterly along Ninth St.

11. Ninth St. at Osborne St. looking southeasterly along Ninth St.

12. Ninth St. at Osborne St. looking southwestly along Osborne St.

Osborne St. at Hospital Ave. looking northeasterly along Osborne St.

Osborne St. at Hospital Ave. looking southwestly along Osborne St.

Osborne St. at Granville Ave. looking northeasterly along Osborne St.

Osborne St. at Granville Ave. looking southwestly along Osborne St.

Osborne St. at Balmforth Ave. looking northeasterly along Osborne St.

Osborne St. at Balmforth Ave. looking northwesterly along Balmforth Ave.

Union St. at Balmforth Ave. looking southeasterly along Balmforth Ave.

Union St. at Balmforth Ave. looking southwestly along Union St.

Union St. at Maple Ave. looking northeasterly along Union St.

Union St. at Maple Ave. looking northwesterly along Maple Ave.

23. Maple Ave. at East Franklin St. looking southeasterly along Maple Ave.

24. Maple Ave. at East Franklin St. looking southwestly along E. Franklin St.

TRIANGLE STREET TO MIDDLE RIVER S/S
PHOTOS NOS. 1-42

TRIANGLE STREET TO MIDDLE RIVER S/S
PHOTOGRAPHS

7/19/73
IDENTIFICATION OF PHOTOS
TRIANGLE ST. TO MIDDLE RIVER S/S

2.

25. Main St. at East Franklin St. looking northeasterly along E. Franklin St.
26. Main St. at Franklin St. looking westerly along Franklin St.
27. Franklin St. at Fairview Ave. looking easterly along Franklin St.
28. Franklin St. at Fairview Ave. looking westerly along Franklin St.
29. Franklin St. at Kohanza St. looking easterly along Franklin St.
30. Franklin St. at Kohanza St. looking westerly along Franklin St.
31. Franklin St. at Franklin St. Ext. looking easterly along Franklin St.
32. Franklin St. at Franklin St. Ext. looking southwesterly along Gregory St.
33. Gregory St. at Hilltop Manor looking easterly along Gregory St.
34. Gregory St. at Hilltop Manor looking northwesterly along Gregory St.
35. Gregory St. at Topfield Dr. looking southeasterly along Gregory St.
36. Gregory St. at Topfield Dr. looking westerly along Gregory St.
37. Gregory St. at Westville Ave. looking easterly along Gregory St.
38. Gregory St. at Westville Ave. looking northwesterly along Westville Ave.
39. Westville Ave. at Filmore Ave. looking southeasterly along Westville Ave.
40. Westville Ave. at Filmore Ave. looking westerly along Middle River Rd.
41. Middle River Rd. at Substation looking easterly along Middle River Rd.
42. Middle River Rd. in the vicinity of the Substation looking northerly along Middle River Rd. (substation site on right).

Photographs taken by George Betancourt
under the supervision of
Rory T. Ashton on Wednesday,
July 18, 1973

R.T.A.
7-27-73