



**Northeast
Utilities System**

107 Selden Street, Berlin, CT 06037

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

Robert E. Carberry
Manager – Transmission Siting and
Permitting

June 13, 2007

Mr. S. Derek Phelps
Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

**RE: DOCKET NO. 327: The Connecticut Light and Power Company Application
for a Certificate of Environmental Compatibility and Public Need for the
Construction, Maintenance, and Operation of a Proposed Substation Located
off Commerce Park Drive, Oxford, Connecticut**

Dear Mr. Phelps:

At the Council's hearing for the above-referenced Project held on May 16, 2007 (Transcript 3:30 p.m. at pp. 41-42), The Connecticut Light & Power Company ("CL&P") agreed to furnish copies of its filings with the Federal Aviation Administration ("FAA") to the Council. Accordingly, enclosed please find copies of several "Notice of Proposed Construction or Alteration" forms and associated filing materials. In addition, I have also enclosed a letter from the FAA for the Record in this proceeding.

Please note that copies of these materials have also been furnished to the Department of Transportation (copy of transmittal letter enclosed).

There are no parties other than CL&P to this proceeding.

Very truly yours,

Enclosures



June 14, 2007

Mr. Richard Jaworski
Bureau Chief
Bureau of Aviation and Ports
Connecticut Department of Transportation
2800 Berlin Turnpike
Newington, CT 06067

Re: Oxford Substation Project, Oxford, CT

Dear Mr. Jaworski:

The Connecticut Light & Power Company (CL&P) is pleased to provide the enclosed information relative to CL&P's proposed substation project in Oxford, CT. Specifically, we are transmitting the following:

1. Copies of documentation filed with the Federal Aviation Administration (FAA) on June 12, 2007. This includes copies of the required "Notice of Proposed Construction or Alteration" forms, plans and figures for new and modified structures associated with the proposed substation project.
2. A copy of a letter, dated June 11, 2007, received from the FAA's Burlington, MA office. This correspondence addresses certain concerns raised in ConnDOT's letter of April 25, 2007, submitted to the Connecticut Siting Council on Docket No. 327. Specifically, the FAA letter indicates that the proposed substation and adjacent transmission lines will not impact airport equipment or result in interference beyond acceptable tolerances.

In consideration of the enclosed materials, coupled with materials we submitted to your office on May 30, 2007, CL&P would like to request confirmation of ConnDOT's support for the proposed substation. CL&P remains committed to working closely with ConnDOT and Airport representatives to develop and execute a long-term plan for future modifications to the existing transmission structures and lines near the Waterbury-Oxford Airport.

If you or your staff have any questions regarding this information, please do not hesitate to contact Jeff Martin, Project Manager, at (860) 665-5930.

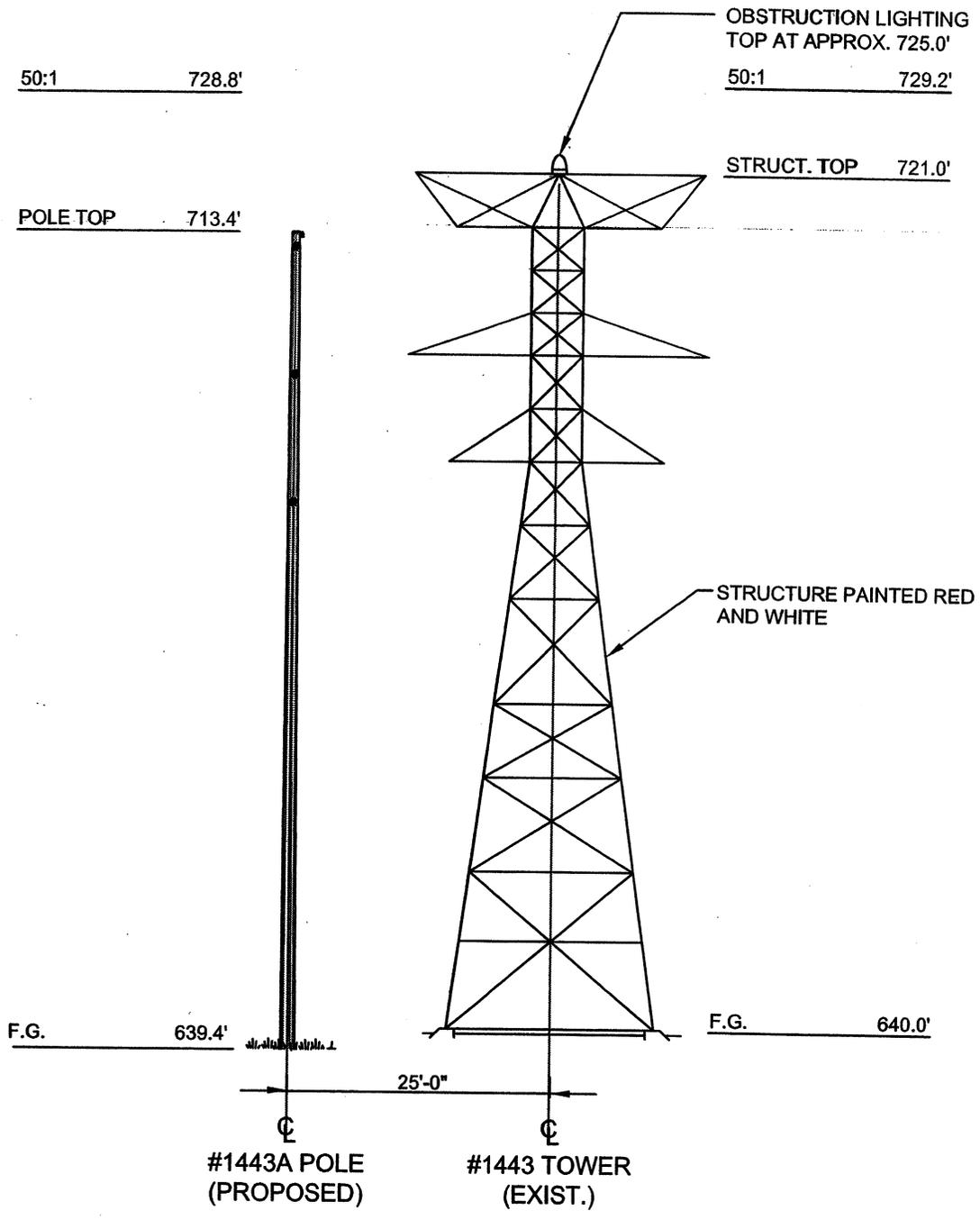
Regards,

Kenneth B. Bowes
Director, Transmission Projects

w/enclosures

cc: David M. Head, Transportation Supervising Planner, ConnDOT
Robert Bruno, ConnDOT
Matthew J. Kelly, Airport Operations Coordinator, Waterbury-Oxford Airport
Jeff Martin, Project Manager, Northeast Utilities

06/06/2007 3:22pm - mccludd - K:\Engineering\Transmission Engineering\TRANS\PROJECTS\Oxford 26N Relocation\Drawings\Permitting\FAA\Sketch - 1443A.dwg



REVISIONS DURING CONSTRUCTION				

NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP

	Northeast Utilities Service Co.			
	FOR CONNECTICUT LIGHT & POWER COMPANY			
TITLE OXFORD 26N				
SECTION AT TOWER 1443A				
OXFORD, CONNECTICUT				
BY	DDM	CHKD.	APP.	
DATE	5/30/07	DATE	DATE	
SCALE	NONE	SIZE	A	
			DWG. NO.	
		V.S.		

SKETCH - 1443A

Notice of Proposed Construction or Alteration (7460-1)

Project Name: CONNE-000069180-07

Sponsor: Connecticut Light and Power

Details for Case : 1445B

Show Project Summary

Case Status

ASN: 2007-ANE-1175-OE

Status: Accepted

Date Accepted: 06/12/2007

Date Determined:

Letters: None

Construction / Alteration Information

Notice Of: Construction

Duration: Permanent

If Temporary : Months: Days:

Work Schedule - Start: 08/01/2007

Work Schedule - End: 06/01/2008

State Filing: Not filed with State

Structure Summary

Structure Type: Transmission Line

Structure Name: 1445B

FCC Number:

Prior ASN:

Structure Details

Latitude: 41° 28' 7" N

Longitude: 73° 7' 53.7" W

Horizontal Datum: NAD83

Site Elevation (SE): 647 (nearest foot)

Structure Height (AGL): 57 (nearest foot)

Marking/Lighting: None

Other :

Nearest City: Waterbury

Nearest State: Connecticut

Traverseway: Private Road

Description of Location: Site plan drawings & structure cross section will be provided.

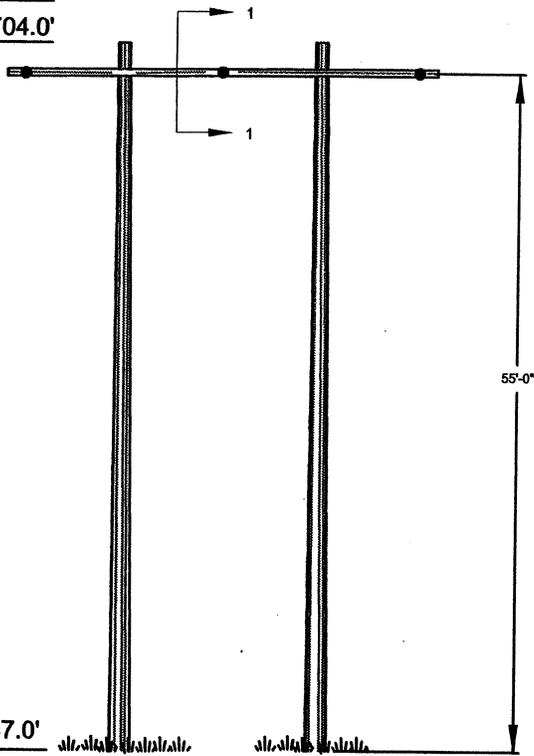
Description of Proposal: The proposed project consists of installing a new substation next to two existing parallel 115-kV double-circuit transmission lines. An existing line will be tapped in (2) two places and brought to the substation requiring a total of five (5) new transmission structures.

Common Frequency Bands

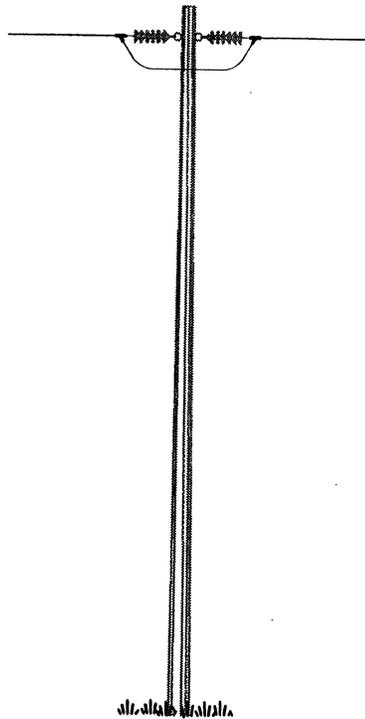
Low Freq	High Freq	Freq Unit	ERP	ERP Unit
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Specific Frequencies

50:1 707.1'
 POLE TOP 704.0'



#1445B H-FRAME
 (PROPOSED)



SECT 1-1

REVISIONS DURING CONSTRUCTION					

					Northeast Utilities Service Co.	
					FOR	CONNECTICUT LIGHT & POWER COMPANY
				TITLE		
				OXFORD 26N		
				SECTION AT TOWER 1445B		
				OXFORD, CONNECTICUT		
		BY	DDM	CHKD.	APP.	APP.
		DATE	5/30/07	DATE	DATE	DATE
		SCALE	NONE	SIZE	A	DWG. NO.
		PROJ.	V.S.	SKETCH - 1445B		
O.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP

Notice of Proposed Construction or Alteration (7460-1)

Project Name: CONNE-000069180-07

Sponsor: Connecticut Light and Power

Details for Case : 1445A

Show Project Summary

Case Status

ASN: 2007-ANE-1176-OE

Status: Accepted

Date Accepted: 06/12/2007

Date Determined:

Letters: None

Construction / Alteration Information

Notice Of: Construction

Duration: Permanent

If Temporary : Months: Days:

Work Schedule - Start: 08/01/2007

Work Schedule - End: 06/01/2008

State Filing: Not filed with State

Structure Summary

Structure Type: Transmission Line

Structure Name: 1445A

FCC Number:

Prior ASN:

Structure Details

Latitude: 41° 28' 9.3" N

Longitude: 73° 7' 52.2" W

Horizontal Datum: NAD83

Site Elevation (SE): 651 (nearest foot)

Structure Height (AGL): 74 (nearest foot)

Marking/Lighting: None

Other :

Nearest City: Waterbury

Nearest State: Connecticut

Traverseway: Private Road

Description of Location: Site plan drawing & structure cross section will be provided.

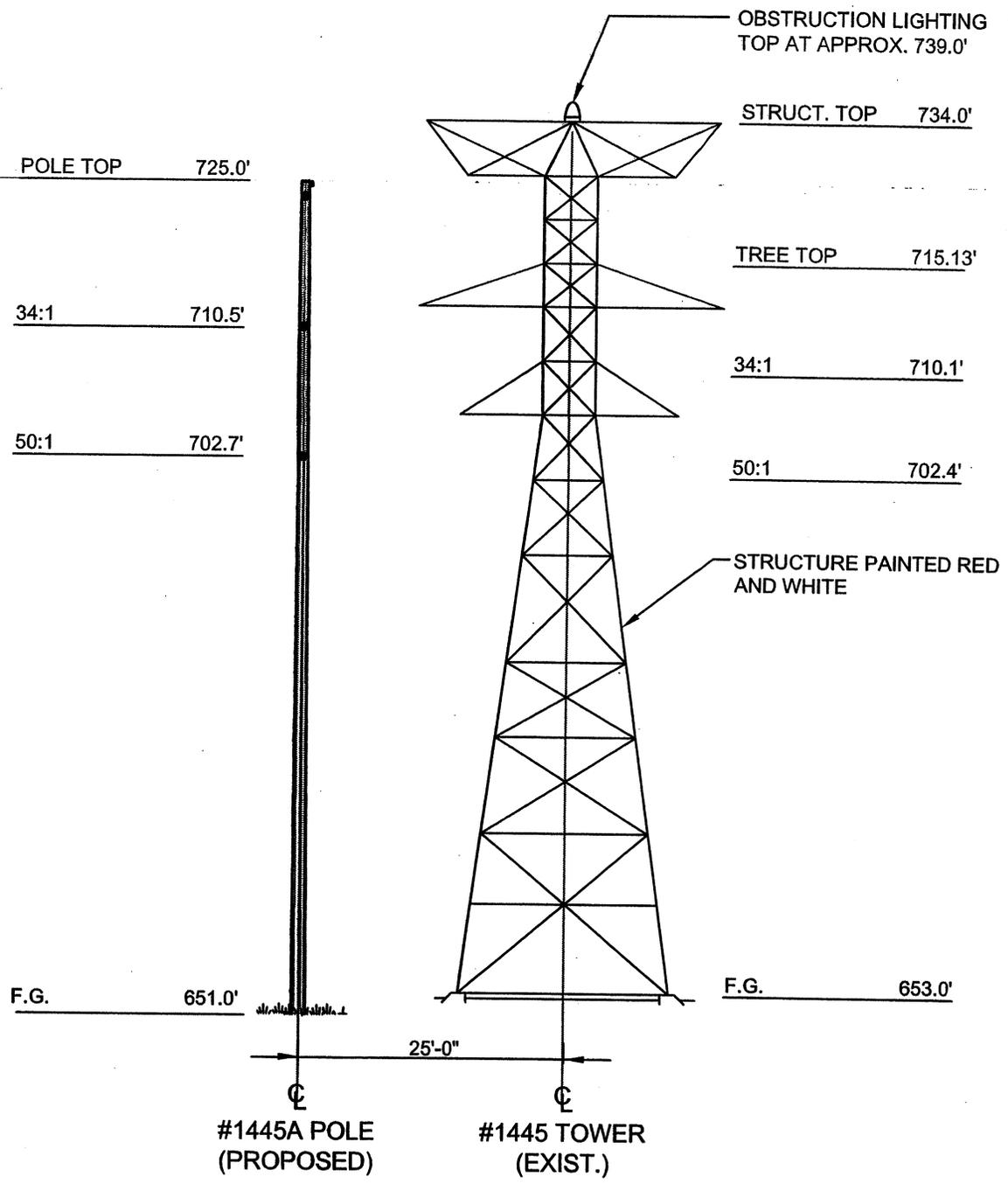
Description of Proposal: The proposed project consists of installing a new substation next to two existing parallel 115-kV double-circuit transmission lines. An existing line will be tapped in (2) two places and brought to the substation requiring a total of five (5) new transmission structures.

Common Frequency Bands

Low Freq	High Freq	Freq Unit	ERP	ERP Unit
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Specific Frequencies

06/06/2007 3:24pm - mccludd - K:\Engineering\Transmission Engineering\TRANS\PROJECTS\Oxford 26N Relocation\Drawings\Permitting\FAA\Sketch - 1445A.dwg



REVISIONS DURING CONSTRUCTION					

NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP

	Northeast Utilities Service Co.			
	FOR CONNECTICUT LIGHT & POWER COMPANY			
TITLE		OXFORD 26N SECTION AT TOWER 1445A OXFORD, CONNECTICUT		
BY	DDM	CHKD.	APP.	APP.
DATE	5/30/07	DATE	DATE	DATE
SCALE	NONE	SIZE	A	
PROJ.	V.S.	DWG. NO.		
				SKETCH - 1445A

Notice of Proposed Construction or Alteration (7460-1)

Project Name: CONNE-000069180-07

Sponsor: Connecticut Light and Power

Details for Case : SUBTERM

Show Project Summary

Case Status

ASN: 2007-ANE-1174-OE

Status: Accepted

Date Accepted: 06/12/2007

Date Determined:

Letters: None

Construction / Alteration Information

Notice Of: Construction

Duration: Permanent

if Temporary: Months: Days:

Work Schedule - Start: 08/01/2007

Work Schedule - End: 06/01/2008

State Filing: Not filed with State

Structure Summary

Structure Type: Transmission Line

Structure Name: SUBTERM

FCC Number:

Prior ASN:

Structure Details

Latitude: 41° 28' 1.9" N

Longitude: 73° 7' 56.8" W

Horizontal Datum: NAD83

Site Elevation (SE): 660 (nearest foot)

Structure Height (AGL): 55 (nearest foot)

Marking/Lighting: None

Other:

Nearest City: Waterbury

Nearest State: Connecticut

Traverseway: Private Road

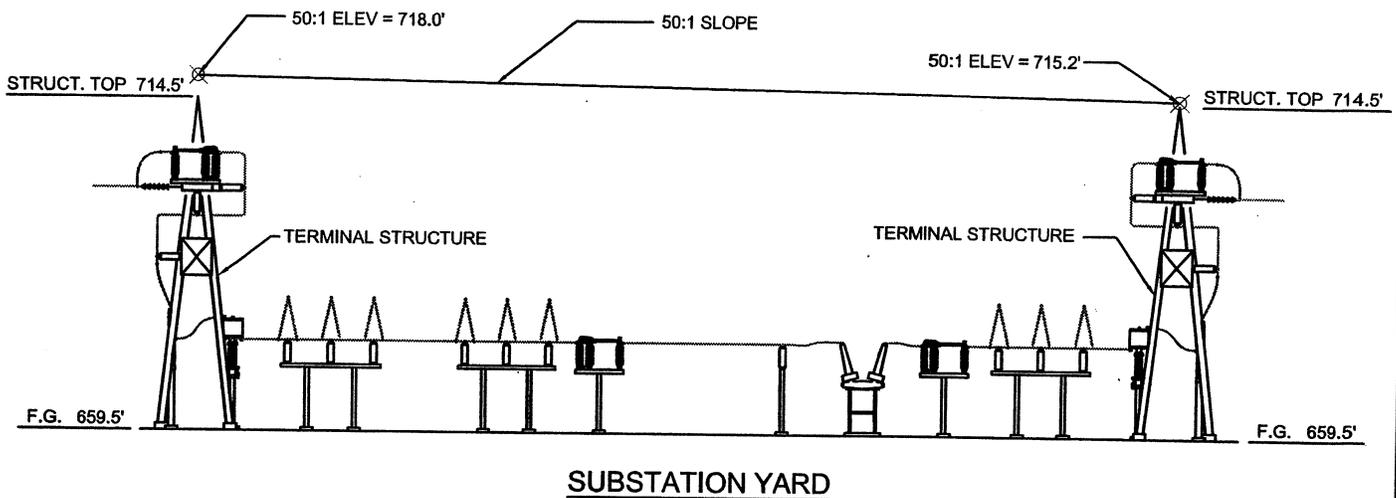
Description of Location: Site plan drawings & structure cross section will be provided.

Description of Proposal: The proposed project consists of installing a new substation next to two existing parallel 115-kV double-circuit transmission lines. An existing line will be tapped in (2) two places and brought to the substation requiring a total of five (5) new transmission structures.

Common Frequency Bands

Low Freq	High Freq	Freq Unit	ERP	ERP Unit
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Specific Frequencies



REVISIONS DURING CONSTRUCTION					



Northeast Utilities Service Co.
 FOR CONNECTICUT LIGHT & POWER COMPANY

TITLE OXFORD 26N
 SECTION AT SUBSTATION TERMINALS
 OXFORD, CONNECTICUT

BY DDM	CHKD.	APP.	APP.
DATE 6/04/07	DATE	DATE	DATE
SCALE NONE	SIZE A	DWG. NO.	

NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP	PROJ.	V.S.	DWG. NO.

SKETCH - SUBTERM

Notice of Proposed Construction or Alteration (7460-1)

Project Name: CONNE-000069180-07

Sponsor: Connecticut Light and Power

Project Summary : CONNE-000069180-07

Structure	City, State	Lat/Long	Map	Actions	Latest Letter
1443A Accepted 2007-ANE-1173-OE	Waterbury, CT	41° 27' 55.50" N 73° 7' 58.50" W	<input checked="" type="checkbox"/> Show Map	Create Fax Cover Upload a PDF	None
SUBTERM Accepted 2007-ANE-1174-OE	Waterbury, CT	41° 28' 1.90" N 73° 7' 56.80" W	<input checked="" type="checkbox"/> Show Map	Create Fax Cover Upload a PDF	None
1445B Accepted 2007-ANE-1175-OE	Waterbury, CT	41° 28' 7.00" N 73° 7' 53.70" W	<input checked="" type="checkbox"/> Show Map	Create Fax Cover Upload a PDF	None
1445A Accepted 2007-ANE-1176-OE	Waterbury, CT	41° 28' 9.30" N 73° 7' 52.20" W	<input checked="" type="checkbox"/> Show Map	Create Fax Cover Upload a PDF	None



Federal Aviation Administration
12 New England Executive Park
Burlington, MA. 01803

Date: June 11, 2007

Mr. Robert E. Carberry
Manager, Transmission Siting and Permitting
Transmission Business
Northeast Utilities System
P.O.Box 270
Hartford, CT 06141-0270

Dear Mr. Carberry:

This letter captures our recent discussion regarding possible electromagnetic interference caused by Northeast Utilities' proposed substation in Oxford, CT. Mike Carlson and Russ Raymond from Northeast Utilities were also present for the discussion.

A concern exists that the substation will detrimentally affect one or all of the communication or transmitting navigational systems resident at the Waterbury-Oxford Airport. The proposed substation as presented in NU's Relocation Study of the Stevenson-Bunker Hill Line drawing, dated May 15, 2007 will not render the Non-Directional Beacon, Localizer, Glide Slope, Distance Measuring Equipment or communications frequencies serving the airport unusable.

The analysis performed is the same used to analyze formal Proposal of Construction or Alteration submittals through the FAA's Obstruction Evaluation Program. The three types of interference that the substation can generate are reflections, reradiation or broad spectrum noise. There is substantial shielding by surrounding trees to negate reflections off any substation components. The small profile of the poles used to tie in the substation lines will not reflect a sufficient amount of energy to impact the navigational systems.

The existing transmission lines impact the localizer and glide slope facilities at the airport. The horizontal wires reradiate signal causing interference in the far field for both systems. The impact to the localizer signal is minimal. There is a greater effect on the glide slope signal, but the interference is within allowable tolerances. Any marginal contribution by the tie-in wires to the overall signal interference will not put the overall interference beyond allowable tolerances.

Broad spectrum noise generated by gaps or loose hardware on transmission line support towers has not impacted the navigational or communications systems at the airport. It is not anticipated that the substation will generate a significant amount of broad spectrum noise to impact the navigational or communication systems at the airport.

The analysis also considered the feasibility of installing a medium intensity approach lighting system. The existing transmission line and towers violate the required 50:1 clear zone for the lighting system. The transmission lines can not be lowered to meet the 50:1 clearance, while meeting the Utility Company's above grade clearance requirements. The transmission lines must be buried to meet both the FAA's and Northeast Utilities' requirements for the lighting system to be installed.

You may contact me for additional information or further discussion at 781-238-7462.

Regards,

A handwritten signature in black ink, appearing to read "Jim Caulfield", written over a horizontal line.

Jim Caulfield