Interrogatory CSC-1

The United Illuminating Company Docket 317

Witness: Charles Eves

Page 1 of 1

Q-CSC-1:

What were the results of The United Illuminating Company's (UI) notice to abutting property owners of its Application for a Certificate of Environmental Compatibility and Public Need (Application)? Did UI receive certified mail receipts from all abutters? If not, how many receipts were not returned? Did UI make any additional attempts to notify property owners from whom it might not have received return receipts?

A-CSC-1:

On June 21, 2006, UI provided notice of its intent to submit an application to the Siting Council. The notice was sent by Certified Mail to the following persons:

Robert and Paula Mack, 2911 Nicholas Avenue, Trumbull, CT Domenico and Sandra Carlini, 52 Stella Street, Trumbull, CT Judy Pearlman Prescott, 1500 Huntington Turnpike, Trumbull, CT Scott and Gail Stanger, 45 Stella Street, Trumbull, CT The State of Connecticut, Office of Policy and Management, Hartford, CT Gerald and Joanne Young, 6 Wildflower Avenue, Trumbull, CT Chet and Julie Jawor, 39 Stella Street, Trumbull, CT

Return receipts have been received from all addressees other than Chet and Julie Jawor. Copies of the letters and receipts are provided in Attachment CSC-1-1.

Additionally, on June 22, 2006, UI provided a second notice to the individuals listed above. Return receipts have been received from all addressees other than Chet and Julie Jawor. Copies of the letters and receipts are provided in Attachment CSC-1-2. However, it is UI's understanding based on the August 10, 2006 Request for Party Status filed by the Wildflower Coalition Petitioners (the "Coalition") that Chet and Julie Jawor are members of the Coalition.

Wiggin and Dana LLP One Century Tower P.O. Box 1832 New Haven, Connecticut 06508-1832 www.wiggin.com Bruce L. McDermott 203.498.4340 203.782.2889 fax bmcdermott@wiggin.com

WIGGIN AND DANA

VIA CERTIFIED MAIL/RETURN RECEIPT

Counsellors at Law

June 21, 2006

Robert A. and Paula D. Mack 2911 Nicholas Avenue Trumbull, CT 06611

Re: Notice to Property Owners Abutting the Proposed Trumbull Substation Location Trumbull, Connecticut

Dear Mr. and Mrs. Mack:

Pursuant to Connecticut General Statutes § 16-50 l/(b), The United Illuminating Company ("UI" or the "Company") is providing notice of its intent to submit an application to the Connecticut Siting Council ("Council") on or about June 30, 2006 for a Certificate of Environmental Compatibility and Public Need to construct and operate a new 115,000/13,800 –volt electric substation and associated facilities in the Town of Trumbull, Fairfield County, Connecticut ("Project"). Attached is the notice of the application that will appear in *The Trumbull Times, The Bridgeport News*, and *The Stratford Star* on June 22, 2006 and June 29, 2006

Again, additional information about this Project may be obtained from:

The United Illuminating Company P.O. Box 154 157 Church Street New Haven, CT 06506 1-800-7CALLUI (1-800-722-5584) www.uinet.com

Very truly yours,

Bruce L. McDermott

NOTICE OF SITING COUNCIL APPLICATION

Pursuant to Connecticut General Statutes § 16-50/(b) and the Regulations of Connecticut State Agencies § 16-50/-1(e) notice is hereby given that on or about June 30, 2006, The United Illuminating Company ("UI") will file an application, with the Connecticut Siting Council ("Council"), 10 Franklin Square, New Britain CT, for the issuance of a Certificate of Environmental Compatibility and Public Need to construct and operate a new electric substation and associated facilities in the Town of Trumbull, Fairfield County, Connecticut ("Project"). The Project is needed to ensure reliable electric service to customers in the Trumbull/Bridgeport/Stratford/Shelton area of southwest Connecticut. Currently, Ul's Old Town Substation (Bridgeport) and Trap Falls Substation (Shelton) are operating at or near capacity. The Project will be located on property owned by UI at 3-7 Wildflower Lane immediately west of Connecticut State Route 8/Nicholas Avenue (State Route 108) interchange. Details of the project will be included in Ul's application to the Council.

Interested persons may obtain copies of the application from:
The United Illuminating Company

P.O. Box 154, 157 Church Street, New Haven, CT 06506 1-800-7CALLUI (1-800-722-5584), www.uinet.com A copy of the application will also be available at the Council's office, Ten Franklin Square, New Britain CT 06051 telephone number 860-827-2935

© Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D. 4. Restricted Delivery? (Extra Fee) ☐ Yes 2. Article Number (Transfer from service label)		COMPLETE THIS SECTION ON DELIVERY
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Wiggin and Dana LLP One Century Tower P.O. Box 1832 New Haven, Connecticut 06508-1832 www.wiggin.com

Bruce L. McDermott 203.498.4340 203.782.2889 fax bmcdermott@wiggin.com

WIGGIN AND DANA

VIA CERTIFIED MAIL/RETURN RECEIPT

Counsellors at Law

June 21, 2006

Domenico and Sandra Carlini 52 Stella Street Trumbull, CT 06611

Notice to Property Owners Abutting the Proposed Trumbull Substation Location Re:

Trumbull, Connecticut

Dear Mr. and Mrs. Carlini:

Pursuant to Connecticut General Statutes § 16-50 (b), The United Illuminating Company ("UI" or the "Company") is providing notice of its intent to submit an application to the Connecticut Siting Council ("Council") on or about June 30, 2006 for a Certificate of Environmental Compatibility and Public Need to construct and operate a new 115,000/13,800 -volt electric substation and associated facilities in the Town of Trumbull, Fairfield County, Connecticut ("Project"). Attached is the notice of the application that will appear in The Trumbull Times, The Bridgeport News, and The Stratford Star on June 22, 2006 and June 29, 2006

Again, additional information about this Project may be obtained from:

The United Illuminating Company P.O. Box 154 157 Church Street New Haven, CT 06506 1-800-7CALLUI (1-800-722-5584) www.uinet.com

Very truly yours,

McDermott

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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
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Wiggin and Dana LLP One Century Tower P.O. Box 1832 New Haven, Connecticut 06508-1832 www.wiggin.com Bruce L. McDermott 203.498.4340 203.782.2889 fax bmcdermott@wiggin.com

WIGGIN AND DANA

VIA CERTIFIED MAIL/RETURN RECEIPT

Counsellors at Law

June 21, 2006

Judy Pearlman Prescott 1500 Huntington Turnpike Trumbull, CT 06611

Re:

Notice to Property Owners Abutting the Proposed Trumbull Substation Location

Trumbull, Connecticut

Dear Ms. Prescott:

Pursuant to Connecticut General Statutes § 16-50 l/(b), The United Illuminating Company ("UI" or the "Company") is providing notice of its intent to submit an application to the Connecticut Siting Council ("Council") on or about June 30, 2006 for a Certificate of Environmental Compatibility and Public Need to construct and operate a new 115,000/13,800 –volt electric substation and associated facilities in the Town of Trumbull, Fairfield County, Connecticut ("Project"). Attached is the notice of the application that will appear in *The Trumbull Times*, *The Bridgeport News*, and *The Stratford Star* on June 22, 2006 and June 29, 2006

Again, additional information about this Project may be obtained from:

The United Illuminating Company P.O. Box 154 157 Church Street New Haven, CT 06506 1-800-7CALLUI (1-800-722-5584) www.uinet.com

Very truly yours.

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Wiggin and Dana LLP One Century Tower P.O. Box 1832 New Haven, Connecticut 06508-1832 www.wiggin.com

Bruce L. McDermott 203.498.4340 203.782.2889 fax bmcdermott@wiggin.com

WIGGIN AND DANA

VIA CERTIFIED MAIL/RETURN RECEIPT

Counsellors at Law

June 21, 2006

Scott C. and Gail C. Stanger 45 Stella Street Trumbull, CT 06611

Re:

Notice to Property Owners Abutting the Proposed Trumbull Substation Location Trumbull, Connecticut

Dear Mr. and Mrs. Stanger:

Pursuant to Connecticut General Statutes § 16-50 l/(b), The United Illuminating Company ("UI" or the "Company") is providing notice of its intent to submit an application to the Connecticut Siting Council ("Council") on or about June 30, 2006 for a Certificate of Environmental Compatibility and Public Need to construct and operate a new 115,000/13,800 --volt electric substation and associated facilities in the Town of Trumbull, Fairfield County, Connecticut ("Project"). Attached is the notice of the application that will appear in *The Trumbull Times, The Bridgeport News*, and *The Stratford Star* on June 22, 2006 and June 29, 2006

Again, additional information about this Project may be obtained from:

The United Illuminating Company P.O. Box 154 157 Church Street New Haven, CT 06506 1-800-7CALLUI (1-800-722-5584) www.uinet.com

K) à.

Very truly yours

Bruce L. McDermott

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A copy of the application will also be available at the Council's office, Ten Franklin Square, New Britain CT 06051, telephone number 860-827-2935

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: 	A. Signature X
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Bruce L. McDermott 203.498.4340 203.782.2889 fax bmcdermott@wiggin.com

WIGGIN AND DANA

VIA CERTIFIED MAIL/RETURN RECEIPT

Counsellors at Law

June 21, 2006

State of Connecticut
Office of Policy and Management
450 Capitol Avenue
Hartford, CT 06106-1308

Re:

Notice to Property Owners Abutting the Proposed Trumbull Substation Location Trumbull, Connecticut

Dear Sir or Madam:

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WIGGIN AND DANA

VIA CERTIFIED MAIL/RETURN RECEIPT

Counsellors at Law

June 21, 2006

Re:

Gerald E. and Joann M. Young 6 Wildflower Avenue Trumbull, CT 06611

Notice to Property Owners Abutting the Proposed Trumbull Substation Location Trumbull, Connecticut

Dear Mr. and Mrs. Young:

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Very truly yours

MeDermout Bruce L.

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a what tower the	3. Service Type USPS Certified Mail USP Express Mail	
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Bruce L. McDermott 203.498.4340 203.782.2889 fax bmcdermott@wiggin.com

WIGGIN AND DANA

VIA CERTIFIED MAIL/RETURN RECEIPT

Counsellors at Law

June 21, 2006

Chet and Julie Jawor 39 Stella Street Trumbull, CT 06611

Re: Notice to Property Owners Abutting the Proposed Trumbull Substation Location Trumbull, Connecticut

Dear Mr. and Mrs. Jawor:

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U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For C A L S E

Consumer Required
Return Receipt Fee
(Endorsement Required)

Total Postage & Fees

Sept Total Postage & Fees

Sireet, Apt. No.:
or PO Box No. 29 See Reverse for Instructions

0007255060 JUN 22 2006 MAILED FROM ZIP CODE 06510 7002 0860 0002 2519 2932 WIGGIN AND DANA

Counsellors at Law

Chet and Julie Jawor 39 Stella Street Trumbull, CT 06611

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1.1.244

The United Illuminating Company Electric System Work Center 801 Bridgeport Avenue Shelton, CT 06484-4714 203-499-2000



June 22, 2006

Certifled Mail/Return Receipt

Gerald E. and Joann M. Young 6 Wildflower Avenue Trumbull, CT 06611

Re: Notice to Property Owners Abutting the Proposed Trumbull Substation Location Trumbull, Connecticut

Dear Mr. and Mrs. Young:

Pursuant to Connecticut General Statutes § 16-501(b), The United Illuminating Company ("UP" or the "Company") is providing notice of its intent to submit an application to the Connecticut Siting Council ("Council") on or about June 30, 2006 for a Certificate of Environmental Compatibility and Public Need to construct and operate a new 115,000/13,800 -voit electric substation and associated facilities in the Town of Trumbull, Fairfield County, Connecticut ("Project").

The proposed Project will be located on property owned by UI at 3-7 Wildflower Lane immediately west of Connecticut State Route 8/Nicholas Avenue (State Route 108) interchange. Your property abuts the site of the proposed Project at 3-7 Wildflower Lane.

The Project is needed to ensure reliable electric service to customers in the Trumbull/Bridgeport/Stratford/Shelton area of southwest Connecticut. Currently, UI's existing Old Town Substation (Bridgeport) and Trap Falls Substation (Shelton) are operating at or near capacity.

UI expects to begin construction of the Project late in 2006 with a target in-service date of December 2007. Details about the Project will be included in UI's application to the Council.

Additional information about this Project may be obtained from:

Kathleen M. Shanley Director Environmental, Safety & Real Estate The United Illuminating Company 801 Bridgeport Avenue, MS-71 Shelton, CT 06484 (203) 926-4695 Fax: (203) 926-4696

E-Mail: kathleen.shanley@uinet.com

Michael & Real

Very truly yours,

Richard J. Reed Vice President

Electric System

The United Illuminating Company Electric System Work Center 801 Bridgeport Avenue Shelton, CT 06484-4714 203-499-2000



June 22, 2006

Certified Mail/Return Receipt

Judy Pearlman Prescott 1500 Huntington Turnpike Trumbull, CT 06611

Re:

Notice to Property Owners Abutting the Proposed Trumbull Substation Location

Trumbull, Connecticut

Dear Ms. Prescott:

Pursuant to Connecticut General Statutes § 16-50l(b), The United Illuminating Company ("UI" or the "Company") is providing notice of its intent to submit an application to the Connecticut Siting Council ("Council") on or about June 30, 2006 for a Certificate of Environmental Compatibility and Public Need to construct and operate a new 115,000/13,800 –volt electric substation and associated facilities in the Town of Trumbull, Fairfield County, Connecticut ("Project").

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The Project is needed to ensure reliable electric service to customers in the Trumbull/Bridgeport/Stratford/Shelton area of southwest Connecticut. Currently, UI's existing Old Town Substation (Bridgeport) and Trap Falls Substation (Shelton) are operating at or near capacity.

UI expects to begin construction of the Project late in 2006 with a target in-service date of December 2007. Details about the Project will be included in UI's application to the Council.

Additional information about this Project may be obtained from:

Kathleen M. Shanley Director Environmental, Safety & Real Estate The United Illuminating Company 801 Bridgeport Avenue, MS-71 Shelton, CT 06484

(203) 926-4695 Fax: (203) 926-4696

E-Mail: kathleen.shanley@uinet.com

Very truly yours,

Richard J. Reed
Vice President

Electric System

The United Illuminating Company Electric System Work Center 801 Bridgeport Avenue Shelton, CT 06484-4714 203-499-2000



June 22, 2006

Certified Mail/Return Receipt

Robert A. and Paula D. Mack 2911 Nicholas Avenue Trumbull, CT 06611

Re: Notice to Property Owners Abutting the Proposed Trumbull Substation Location Trumbull, Connecticut

Dear Mr. and Mrs. Mack:

Pursuant to Connecticut General Statutes § 16-50l(b), The United Illuminating Company ("UI" or the "Company") is providing notice of its intent to submit an application to the Connecticut Siting Council ("Council") on or about June 30, 2006 for a Certificate of Environmental Compatibility and Public Need to construct and operate a new 115,000/13,800 –volt electric substation and associated facilities in the Town of Trumbull, Fairfield County, Connecticut ("Project").

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Kathleen M. Shanley
Director
Environmental, Safety & Real Estate
The United Illuminating Company
801 Bridgeport Avenue, MS-71
Shelton, CT 06484

(203) 926-4695 Fax: (203) 926-4696 E-Mail: kathleen.shanley@uinet.com

Very truly yours,

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Richard J. Reed Vice President

Electric System

The United Illuminating Company Electric System Work Center 801 Bridgeport Avenue Shelton, CT 06484-4714 203-489-2000



June 22, 2006

Certified Mail/Return Receipt

State of Connecticut
Office of Policy and Management
450 Capitol Avenue
Hartford, CT 06106-1308

Re: Notice to Property Owners Abutting the Proposed Trumbull Substation Location Trumbull, Connecticut

Dear Sir or Madam:

Pursuant to Connecticut General Statutes § 16-50!(b), The United Illuminating Company ("UI" or the "Company") is providing notice of its intent to submit an application to the Connecticut Siting Council ("Council") on or about June 30, 2006 for a Certificate of Environmental Compatibility and Public Need to construct and operate a new 115,000/13,800 —volt electric substation and associated facilities in the Town of Trumbull, Fairfield County, Connecticut ("Project").

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Additional information about this Project may be obtained from:

Kathleen M. Shanley Director Environmental, Safety & Real Estate The United Illuminating Company 801 Bridgeport Avenue, MS-71 Shelton, CT 06484

(203) 926-4695 Fax: (203) 926-4696 E-Mail: kathleen.shanley@uinet.com

Very truly yours,

Richard J. Reed Vice President

Electric System

The United Illuminating Company Electric System Work Center 801 Bridgeport Avenue Shelton, CT 06484-4714 203-499-2000



June 22, 2006

Certified Mail/Return Receipt

Domenico and Sandra Cariini 52 Stella Street Trumbull, CT 06611

Re:

Notice to Property Owners Abutting the Proposed Trumbull Substation Location Trumbull. Connecticut

Dear Mr. and Mrs. Carlini:

Pursuant to Connecticut General Statutes § 16-50/(b), The United Illuminating Company ("UI" or the "Company") is providing notice of its intent to submit an application to the Connecticut Siting Council ("Council") on or about June 30, 2006 for a Certificate of Environmental Compatibility and Public Need to construct and operate a new 115,000/13,800 —volt electric substation and associated facilities in the Town of Trumbull, Fairfield County, Connecticut ("Project").

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Additional information about this Project may be obtained from:

Kathleen M. Shanley
Director
Environmental, Safety & Real Estate
The United Illuminating Company
801 Bridgeport Avenue, MS-71
Shelton, CT 06484
(203) 926-4695 Fax: (203) 926-4696

E-Mail: kathleen.shanley@uinet.com

Very truly yours,

Michael Mel

Richard J. Reed Vice President

Electric System

The United Illuminating Company Electric System Work Center 801 Bridgeport Avenue Shelton, CT 06484-4714 203-499-2000



June 22, 2006

Certified Mail/Return Receipt

Scott C. and Gail C. Stanger 45 Stella Street Trumbull, CT 06611

Re:

Notice to Property Owners Abutting the Proposed Trumbull Substation Location Trumbull. Connecticut

Tranibun, Connecticu

Dear Mr. and Mrs. Stanger:

Pursuant to Connecticut General Statutes § 16-50l(b), The United Illuminating Company ("UI" or the "Company") is providing notice of its intent to submit an application to the Connecticut Siting Council ("Council") on or about June 30, 2006 for a Certificate of Environmental Compatibility and Public Need to construct and operate a new 115,000/13,800 –volt electric substation and associated facilities in the Town of Trumbull, Fairfield County, Connecticut ("Project").

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UI expects to begin construction of the Project late in 2006 with a target in-service date of December 2007. Details about the Project will be included in UI's application to the Council.

Additional information about this Project may be obtained from:

Kathleen M. Shanley
Director
Environmental, Safety & Real Estate
The United Illuminating Company
801 Bridgeport Avenue, MS-71
Shelton, CT 06484

(203) 926-4695 Fax: (203) 926-4696 E-Mail: kathleen.shanley@uinet.com

Very truly yours,

Ruhad (Ned

Richard J. Reed

Vice President

Electric System

The United Illuminating Company Electric System Work Center 801 Bridgeport Avenue Shelton, CT 06484-4714 203-499-2000



June 22, 2006

Certified Mail/Return Receipt

Chet and Julie Jawor 39 Stella Street Trumbull, CT 06611

Notice to Property Owners Abutting the Proposed Trumbull Substation Location Re:

Trumbull, Connecticut

Dear Mr. and Mrs. Jawor:

Pursuant to Connecticut General Statutes § 16-50/(b), The United Illuminating Company ("UP" or the "Company") is providing notice of its intent to submit an application to the Connecticut Siting Council ("Council") on or about June 30, 2006 for a Certificate of Environmental Compatibility and Public Need to construct and operate a new 115,000/13,800 -volt electric substation and associated facilities in the Town of Trumbull, Fairfield County, Connecticut ("Project").

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Additional information about this Project may be obtained from:

Kathleen M. Shanley
Director
Environmental, Safety & Real Estate
The United Illuminating Company
801 Bridgeport Avenue, MS-71
Shelton, CT 06484

(203) 926-4695 Fax: (203) 926-4696 E-Mail: kathleen.shanley@uinet.com

Very truly yours,

Arched Mero
Richard J. Reed
Vice President

Electric System

Machine Limited annotation	(Harolay from sen) 7005 1		other of Pancy & Bynit 456 Chipsty Premis	Complete lians: 1.2 and 3. also complete from 4 if Assincted Delivery is desired. First your name and address on the reverse so that we can return the card to you. Attach this card to the back of the maliplece or on the frunt if space permits. Anticle Addressed to		2. Article Numbo 7005 1820 0001 3412 PS Form 3811 February 2004 Domestic resumments	Trumput (1) Obbil	George and Journ Young	SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can ration the card to you. Attach this card to the back of the malipiece or on the front if space permits. Anticle Addressed to:	
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The United Illuminating Company Docket 317

Witness: Charles Eves Page 1 of 1

Q-CSC-2: How many homes are within a 1,000 foot radius from the center of the proposed substation? Provide the distance and direction of each.

A-CSC-2: There are 40 homes within a 1,000 foot radius from the center of the substation. The attached map illustrates their location relative to the substation and the distance from the substations center.

The United Illuminating Company Docket 317

Witness: Charles Eves Page 1 of 1

Q-CSC-3: How far away is the nearest state-designated scenic road?

A-CSC-3: The nearest state-designated scenic road is the Merritt Parkway, which is located approximately 1800 feet from the substation property line.

The United Illuminating Company Docket 317

Witness: Kathleen Shanley

Page 1 of 1

Q-CSC-4: Will any fuels or hazardous materials be stored at the proposed substation? If yes, provide the best management practices for managing such materials.

A-CSC-4: The substation control building will contain two banks of lead acid batteries. Each bank will be stored within a stationary rack that will be approximately 14 feet long, 3 feet wide and 4 feet high. Each rack will be placed within an acid resistant drip tray that will contain an acid neutralizing material to contain and neutralize any potential release from the batteries.

UI substation personnel routinely inspect, test and replace substation batteries according to UI operating procedures.

The United Illuminating Company Docket 317

Witness: Charles Eves

Page 1 of 1

Q-CSC-5: Would any blasting be required during the construction of the substation?

A-CSC-5: No. Rock augers and/or jack hammers will be utilized when rock

needs to be removed.

The United Illuminating Company Docket 317

Witness: Charles Eves

Page 1 of 1

Q-CSC-6:

Would any equipment, supplies, or materials be stored at the proposed

substation?

A-CSC-6:

Materials and equipment required for the construction of the substation will

be stored at the proposed substation during construction. No equipment, supplies, or materials will be stored at the proposed substation during

operation.

The United Illuminating Company Docket 317

Witness: Charles Eves

Page 1 of 1

Q-CSC-7: Would there be any impulse noise from switching operations, circuit breakers, or other sources? Describe events that would cause impulse noise. How frequently would such events occur?

A-CSC-7: Yes. Under rare conditions, the 115 kV circuit breakers will operate in response to system faults or transmission switching operations. The impulse noise level during breaker operation is 101 dB. These operations could occur at any time, but it is expected that the breakers would be operated less than five times per year, including operations for maintenance purposes.

The United Illuminating Company Docket 317

Witness: Kathleen Shanley

Page 1 of 1

Q-CSC-8: Would the transformers have oil containment sumps to catch any

accidental release of insulating oil? Explain how the containment system

would work.

A-CSC-8: Each transformer will have a concrete oil containment basin. A valve in

the bottom of the basin will allow rainwater to discharge, but will close

when oil is detected to contain any spill.

The United Illuminating Company Docket 317

Witness: Charles Eves

Page 1 of 1

Q-CSC-9: Would the proposed substation be lit under normal conditions, or only

when work is being performed? Explain.

A-CSC-9: Under normal conditions, the proposed substation will not be lit. If work is

being performed at night, such as emergency switching, the substation will

be lit while the work is being performed.

The United Illuminating Company Docket 317

Witness: Charles Eves

Page 1 of 1

Q-CSC-10: Approximately how many trees with a diameter at breast height of six inches or greater would have to be removed to construct the substation and access roads?

A-CSC-10: Approximately 60 trees with a diameter six (6) inches or greater will be removed to provide room for the substation and access roads.

The United Illuminating Company Docket 317

Witness: Charles Eves

Page 1 of 1

Q-CSC-11: Approximately how much cut and fill would be required to prepare the

substation site and access drives?

A-CSC-11: Approximately 450 cubic yards of cut and 1800 cubic yards of fill will be

required.

The United Illuminating Company Docket 317

Witness: Charles Eves

Page 1 of 1

Q-CSC-12: On page 15, Volume 1, of the Application, it states that two 24/32/40 MVA transformers would be installed in the proposed substation. Explain why there are three ratings, e.g. 24, 32, 40.

A-CSC-12: The transformers use radiators and two banks of fans for cooling. The three ratings of the transformers indicate the maximum power capability of the transformers for each of the three cooling modes. They are referred to as ONAN (oil natural, air natural), ONAF (oil natural, air forced) and ONAF (oil natural, air forced). The first mode (ONAN) utilizes cooling by natural conduction and convection of the oil in the transformer and radiators. The second mode (ONAF) utilizes cooling by operating the first bank of fans blowing ambient temperature air onto the radiators. The third mode (ONAF) utilizes cooling by operating the second bank of fans blowing ambient temperature air onto the radiators. The first bank of fans increases the base (ONAN) power rating of the transformer by 33% (i.e., 24 MVA * 1.33 = 32 MVA). The second bank of fans increases the base (ONAN) rating of the transformer by 67% (i.e., 24 MVA * 1.67 = 40 MVA).

The United Illuminating Company Docket 317

Witness: Charles Eves

Page 1 of 1

Q-CSC-13: Will an emergency generator be needed for backup power for control equipment? If yes, provide the specifications of the emergency generator and fuel type.

A-CSC-13: No. The substation will have two separate sources of AC station service. If both sources of AC station service are lost, two sets of DC batteries in the substation control house will provide the backup power for control equipment.

The United Illuminating Company Docket 317

Witness: Charles Eves Page 1 of 1

Q-CSC-14: On page 16, Volume 1, of the Application, it states that "A new single pole tubular steel dead-end structure, located within the substation fenceline, will be approximately 75 feet above grade." Would this structure be the tallest object within the fenced substation? If no, please explain.

A-CSC-14: Yes.

The United Illuminating Company Docket 317

Witness: Charles Eves

Page 1 of 1

Q-CSC-15: Describe the type, height and purpose of existing structures at the

proposed substation site.

A-CSC-15:

The existing structures at the Trumbull Junction site (site of proposed substation), support UI's 115 kV 1710 and 1730 lines that originate at UI's Pequonnock Substation in Bridgeport, and travel in a northerly direction to Trumbull Junction. At Trumbull Junction, the lines connect with CL&P's 115 kV 1710 and 1730 lines that travel in an easterly and westerly direction. The UI lines have existed since approximately 1961, and the CL&P lines have existed since approximately 1950. The existing structures are a mixture of lattice and monopole tubular construction. CL&P Structure 833A is an existing lattice transmission support tap structure that is 93 feet in height and is located at the intersection of the UI and CL&P lines in the CL&P ROW. It will not be located within the new substation fenceline. UI Structure NB31 is an existing lattice switch support structure that is 56 feet in height and is located south of structure 833A. It will be located within the new substation fenceline. UI Structure NB30 is an existing monopole transmission line support tower that is 101.5 feet in height, and is located south of Structure NB31 in the UI ROW. It will not be located within the new substation fenceline.

The United Illuminating Company Docket 317

Witness: Charles Eves

Page 1 of 1

Q-CSC-16: Would the chain link fence have barbed wire?

A-CSC-16: Yes. Ul's standard design for this type of substation utilizes a chain link

fence14 feet in height. At the top of the fence is 1 foot of barbed wire that

is slanted at a 45 degree angle into the substation.

The United Illuminating Company

Docket 317

Witnesses: Kathleen M. Shanley

and Michael Silva

Page 1 of 1

Q-CSC-17: Compare and contrast magnetic fields at abutting residences before and after the proposed substation is operating.

A-CSC-17: The new substation is not predicted to increase the magnetic fields at any of the abutting residences. The dominant existing sources of the magnetic fields are the existing UI and CL&P transmission lines. This will not change after construction of the substation.

For example, the substation fenceline will be located approximately 170 feet from the residence on 6 Wildflower Lane. Measurements and calculations were made at the curb at the end of the cul-de-sac on Wildflower Lane, which is approximately 120 feet from the residence. The measured magnetic field at that location was 1 mG. Using the same transmission line loading data as existed when the magnetic field was measured, the calculated magnetic field at the same location before the new substation was built was 1.1 mG. This calculation was done in order to insure the accuracy of the model used to calculate the magnetic field. Using the same transmission line loading data, the calculated magnetic field at the same location after the new substation constructed was 1.3 mG. The magnetic field resulting from the existing transmission lines and substation would be less at the residence, since the residence is located approximately 120 feet farther away from the source on the other side of Wildflower Lane. Similarly, the nearest abutting property to the substation on Stella Street is approximately 225 feet from the substation fenceline. Since the magnetic field decreases with distance from the source, the magnetic field at this location would be less that that on Wildflower Lane.

The United Illuminating Company Docket 317

Witness: Kathleen Shanley

Page 1 of 1

Q-CSC-18: Provide copies of the written responses that were noted in Volume 1 of the Application, Exhibit B, page 8-1. (These were letters from the Connecticut Commission on Culture and Tourism; Connecticut Historical Commission; and U.S. Department of the Interior.)

A-CSC-18: Attached.



Connecticut Commission on Culture & Tourism

April 13, 2005

Historic Preservation & Museum Division

Mr. Thomas A. Varhol Black & Veatch 11401 Lamar Avenue Overland Park, KS 66211

59 South Prospect Street Hartford, Connecticut 06106

(v) 860.566.3005 (f) 860.566.5078 Subject: Electrical Substation

3-7 Wildflower Lane

Trumbull, CT

Dear Mr. Varhol:

The State Historic Preservation Office has reviewed the above-named project. This office expects that the proposed undertaking will have <u>no effect</u> on historic, architectural, or archaeological resources listed on or eligible for the National Register of Historic Places.

This office appreciates the opportunity to have reviewed and commented upon the proposed undertaking.

We recommend that the responsible agency provide concerned citizens with the opportunity to review and comment upon the proposed undertaking in accordance with the National Historic Preservation Act and the Connecticut Environmental Policy Act.

For further information please contact Dr. David A. Poirier, Staff Archaeologist.

J. Paul Loether

Division Director and Deputy State Historic Preservation Officer



United States Department of the Interior

PISSE U.S. SERVICE SERVICE TO 10

FISH AND WILDLIFE SERVICE

New England Field Office 70 Commercial Street, Suite 300 Concord, New Hampshire 03301-5087

May 12, 2005

Reference:

Project

Electrical substation

Location Trumbull, CT Revolution Russ

Ralph Brooks Black & Veatch Corporation 4800 Meadows Road, Suite 200 Lake Oswego, OR 97035

Dear Mr. Brooks:

This responds to your recent correspondence requesting information on the presence of federally-listed and/or proposed endangered or threatened species in relation to the proposed activity(ies) referenced above.

Based on information currently available to us, no federally-listed or proposed, threatened or endangered species or critical habitat under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area(s). Preparation of a Biological Assessment or further consultation with us under Section 7 of the Endangered Species Act is not required.

This concludes our review of listed species and critical habitat in the project location(s) and environs referenced above. No further Endangered Species Act coordination of this type is necessary for a period of one year from the date of this letter, unless additional information on listed or proposed species becomes available.

Thank you for your coordination. Please contact us at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Michael J. Amaral

michael J. amaral

Endangered Species Specialist

New England Field Office



STATE OF CONNECTICUT

CONNECTICUT HISTORICAL COMMISSION

October 2, 2002

Dr. Ralph E. Brooks Black & Veatch 4004 Kruse Way Place Lake Oswego, OR 97035

Subject: Electrical Substation

3-7 Wildflower Lane

Trumbull, CT

Dear Dr. Brooks:

The State Historic Preservation Office has reviewed the above-named project. This office expects that the proposed undertaking will have <u>no effect</u> on historic, architectural, or archaeological resources listed on or eligible for the National Register of Historic Places.

This office appreciates the opportunity to have reviewed and commented upon the proposed undertaking.

We recommend that the responsible agency provide concerned citizens with the opportunity to review and comment upon the proposed undertaking in accordance with the National Historic Preservation Act of 1966 and the Connecticut Environmental Policy Act.

For further information please contact Dr. David A. Poirier, Staff Archaeologist.

Sincerely,

John W. Shannahan

Director and State Historic

Preservation Officer



United States Department of the Interior

U.S. FISH & WILDLIFE SERVICE

FISH AND WILDLIFE SERVICE New England Field Office 70 Commercial Street, Suite 300 Concord, New Hampshire 03301-5087

RE:

United Illuminating Electrical Substation

Trumbull, Connecticut

Ralph E. Brooks Black & Veatch 4004 Kruse Way Place Suite 200 Lake Oswego, OR 97035 November 8, 2002

Revel Hongs

Dear Mr. Brooks

This responds to your September 18, 2002 letter requesting information on the presence of federally-listed and proposed, endangered or threatened species in relation to the proposed construction of a new electrical substation at 3-7 Wildflower Lane in Trumbull, Connecticut. Our comments are provided in accordance with Section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543).

Based on information currently available to us, no federally-listed or proposed threatened or endangered species under the jurisdiction of the U.S. Fish and Wildlife Service are known to occur in the project area. Preparation of a Biological Assessment or further consultation with us under Section 7 of the Endangered Species Act is not required. Should additional information on listed or proposed species become available, this determination may be reconsidered.

Thank you for your cooperation. Please contact me at 603-223-2541 if we can be of further assistance.

Sincerely yours,

Philip A. Morrison

Fish and Wildlife Biologist

Philip a numer

New England Field Office