

UIL Holdings Corporation  
157 Church Street  
P.O. Box 1564  
New Haven, CT 06506



Via Hand Delivery and Electronic Mail

March 16, 2015

Robert Stein  
Chairman  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06051

Re: Petition No. 1120 – The United Illuminating Company Petition for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is Required for the Proposed Modifications to the Hawthorne Substation at 180 Hawthorne Drive, Fairfield, Connecticut

Dear Chairman Stein:

Please find enclosed the original and fifteen (15) copies of The United Illuminating Company's ("UI") responses to the Town of Fairfield's Second Set of Interrogatories, dated February 18, 2015 in connection with the above-referenced Petition. Additionally, UI will electronically file all responses and attachments via [siting.council@ct.gov](mailto:siting.council@ct.gov).

If you have any questions concerning this submittal, please contact me at your convenience.

Very truly yours,

A handwritten signature in blue ink, appearing to read 'Bruce L. McDermott', with a long horizontal flourish extending to the right.

Bruce L. McDermott  
Managing Counsel – Operations  
UIL Holdings Corporation  
As Agent for The United Illuminating Company

cc: Service List (via electronic mail only)

Enclosures

Interrogatory TOF-1

The United Illuminating Company

Witness: Matthew Cloud  
Ron Rossetti

Petition 1120

Page 1 of 1

Q-TOF-1: Under what circumstances, if any can the capacitors to be installed at the Hawthorne Substation fail catastrophically and/or explode? If there are circumstances which would cause them to do so please state the effect that said failure/explosion would have on the surrounding property.

A-TOF-1: All equipment within a substation may fail by ceasing to perform its intended function. Should the substation equipment experience a failure, protection systems would immediately remove the affected equipment from service, thereby protecting the public and the equipment. UI utilizes highly sophisticated, extensive and redundant protection systems to remove the failed piece of equipment from service within milliseconds of the failure event. These protection systems avoid the possibility that a simple failure propagates to a catastrophic failure, which would result in irreparable equipment damage. Other devices installed within the substation constantly monitor the equipment to alert UI of any abnormal or emergency situations.

Interrogatory TOF-2

The United Illuminating Company

Witness: Matthew Cloud  
Ron Rossetti

Petition 1120

Page 1 of 1

Q-TOF-2: Does United Illuminating intend to perform testing regarding any emission of Electromagnetic Radiation from the power lines and/or Hawthorne Substation? If said testing has been or will be performed please furnish the undersigned with copies of results of said tests.

A-TOF-2: UI is currently undertaking an analysis of the Electric and Magnetic Fields (EMF) generated by the substation and adjacent transmission lines for existing and future conditions after the proposed equipment addition. That analysis is expected to be completed by March 24th and will be documented in a formal report to be filed with the Connecticut Siting Council.

Interrogatory TOF-3

The United Illuminating Company  
Petition 1120

Witness: Bohdan Katreczko  
Page 1 of 1

Q-TOF-3: Has United Illuminating performed or does it intend to perform environmental testing on the land which was purchased from General Electric? If so, please provide reports containing results of said testing.

A-TOF-3: Yes, United Illuminating has performed environmental testing on the land which was purchased from General Electric. The Wetland Identification and Delineation Report, the Natural Diversity Database determination, and the Stormwater Pollution Control Plan Site Plan were submitted on December 30, 2014 in response to Siting Council interrogatories. In addition, the following reports are provided: Phase I Environmental Site Assessment (Attachment TOF-3-A), Phase II Environmental Site Assessment (Attachment TOF-3-B), Stormwater Pollution Control Plan (Attachment TOF-3-C).

Interrogatory TOF-4

The United Illuminating Company

Witness: Matthew Cloud  
Ron Rossetti

Petition 1120

Page 1 of 1

Q-TOF-4: Please provide the undersigned with a lighting plan for the Hawthorne Substation setting forth, at a minimum, the location of the lights, the type of lights and the height at which said lights are going to be installed.

A-TOF-4: See Attachment TOF-4-A, Lighting Plan.

Interrogatory TOF-5

The United Illuminating Company

Witness: Matthew Cloud  
Ron Rossetti

Petition 1120

Page 1 of 2

Q-TOF-5: Please provide a list of any and all consultants, engineers, and/or planners which have been or will be engaged by United Illuminating to provide services regarding the Hawthorne Substation, together with copies of any reports rendered by said consultants.

A-TOF-5 General Engineering, Procurement and Construction:

David Koehler  
Manager  
Black and Veatch  
11401 Lamar Ave  
Overland Park, KS 66211

Services rendered: Engineering, procurement, construction, noise analysis. Analysis will be provided by March 24<sup>th</sup>.

EMF Study:

Bill Bailey, Ph.D.  
Manager  
Exponent Failure Analysis Associates  
17000 Science Drive Suite 200  
Bowie, MD 20715

Services rendered: Tests to study EMF levels of the existing substation and simulate studies to verify any changes due to installation of capacitor banks. Analysis will be provided by March 24<sup>th</sup>.

Environmental:

Jeff Lambert  
Manager  
Conestoga Rovers & Associates  
45 Farmington Valley Drive,  
Plainville, CT 06062

Services rendered: NDDDB submission and correspondence; storm water plan development, registration, submission and correspondence; pre-characterization of soil and groundwater. Environmental reports were submitted on December 30, 2014 in response to Siting Council interrogatories. See also, response to TOF-3.

Interrogatory TOF-5

The United Illuminating Company

Witness: Matthew Cloud  
Ron Rossetti

Petition 1120

Page 2 of 2

David George  
Manager  
Heritage Consultants LLC  
P.O. Box 310249,  
Newington, CT 06111

Services rendered: Cultural resource review. Report submitted to the State Historic Preservation Office on July 2, 2014. (Attachment TOF-5-A).

Donald A. Smith  
Manager  
BL Companies  
355 Research Parkway,  
Meriden, CT 06450

Services rendered: Survey and soil borings

Mike Libertine  
Manager  
All-points Technology Corporation  
3 Saddlebrook Drive,  
Killingworth, CT 06419

Services rendered: Site photo simulation. Report previously submitted.