

April 3, 2018

Ms. Melanie Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: Docket No. CSC 461A - Greenwich Substation and Line Project, Development and Management Plan, Vol. 1, Part 1- Cos Cob Substation Modifications

Dear Ms. Bachman:

This letter provides the response to requests for the information listed below.

Response to CSC-01 Interrogatories dated 03/19/2018
CSC-006, 007, 008, 009, 011, 012, 013, 014, 015

Very truly yours,

Kathleen Shanley
Manager
Transmission, Siting
As Agent for CL&P
dba EversourceEnergy

cc: Service List

**CL&P dba Eversource Energy
Docket CSC 461A - Greenwich Substation and Line
Project, Development and Management Plan, Vol. 1,
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**Data Request CSC-01
Dated: 03/19/2018**

**Q-CSC-006
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**Witness: Witness Panel
Request from: Connecticut Siting Council**

Question:

Indicate the height and type of fence separating Cos Cob Park from the substation expansion area. What is the height and proposed location of the construction "snow fence" specified on D&M Plan narrative p. 20? Would the existing park fence and proposed "snow fence" be adequate as a site security/ construction barrier?

Response:

The existing park fence is a six-foot black vinyl coated chain link fence with top, bottom and middle rail. This fence cannot be used as a security fence during construction because this design could enable someone to climb over the fence into the Project area. Prior to the start of construction, the Project will install chain link security fencing that will be a minimum of six feet in height. Eversource may utilize four-foot "snow fencing" to serve as a visual barrier to prevent contact with existing substation features within the construction zone.

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**Data Request CSC-01
Dated: 03/19/2018**

**Q-CSC-007
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**Witness: Witness Panel
Request from: Connecticut Siting Council**

Question:

Referring to Site Plan Sheet 10036, vegetative clearing is shown in the southwest corner of the expansion area. Is the clearing limit extending beyond the limits shown to accommodate the specified sedimentation barriers? Describe the vegetation that would remain between the siltation barriers and adjacent property line, if any. If vegetation remains in this area, would any overhanging limbs be trimmed?

Response:

The clearing limit will not be extended beyond the limits shown. In the southwest corner, no vegetation will remain along the southern edge between the siltation barriers and the adjacent property line. Along the west site, existing vegetation, including trees, will remain between the siltation barrier and the property line. Some overhanging limbs from trees on Eversource property will be removed along the west fence line. No vegetation on adjacent property will need to be removed or trimmed.

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Dated: 03/19/2018**

**Q-CSC-008
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**Witness: Witness Panel
Request from: Connecticut Siting Council**

Question:

Referring to Site Plan Sheet 10037- Dewatering Notes 2.4 and 2.6 seem to contradict each other. Is resulting groundwater being removed from the site or discharged on-site? If site soils are assumed to be contaminated, would groundwater encountered during construction also be assumed to be contaminated? Does DEEP or any other regulatory authority allow for the discharge of contaminated groundwater onto the same site property?

Response:

In no event would contaminated groundwater be discharged onto the property. Dewatering Note 2.6 is accurate; Dewatering Note 2.4 is incorrect and should be disregarded. Eversource does not anticipate encountering groundwater within any planned excavations. Based on boring log data, groundwater beneath this site is quite deep (in excess of 20 feet below grade). If, for any reason, groundwater were encountered and required management, Eversource would pump it directly into a containment truck for off-site disposal.

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**Q-CSC-009
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**Witness: Witness Panel
Request from: Connecticut Siting Council**

Question:

What conditions would require the implementation of fugitive dust emission controls? How will

Eversource ensure dust control measures are taken by on-site construction contractors?

Response:

Fugitive dust emission controls would be implemented during dry and/or windy conditions. During these times, vehicles traversing over unfinished surfaces and construction activities, such as excavating and loading spoils or utilizing a hydraulic hammer to remove rock, can create fugitive dust. Eversource will ensure that its contractor strictly adheres to the control of fugitive dust in accordance with its contract with Eversource. Eversource's on-site construction representative(s) will monitor overall conditions and taking preventive measures (such as the use of water trucks) to ensure that fugitive dust emissions are kept under control.

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**Q-CSC-011
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**Witness: Witness Panel
Request from: Connecticut Siting Council**

Question:

What is the distance between the post-construction, permanent substation fence and the existing Cos Cob Park fence?

Response:

The minimum distance between the permanent substation fence and the existing Cos Cob Park fence will be six feet, in accordance with the requirements of the National Electric Safety Code. The actual distance between these two fences will vary between the minimum of six feet and a maximum of approximately seven and a half feet.

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**Q-CSC-012
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**Witness: Witness Panel
Request from: Connecticut Siting Council**

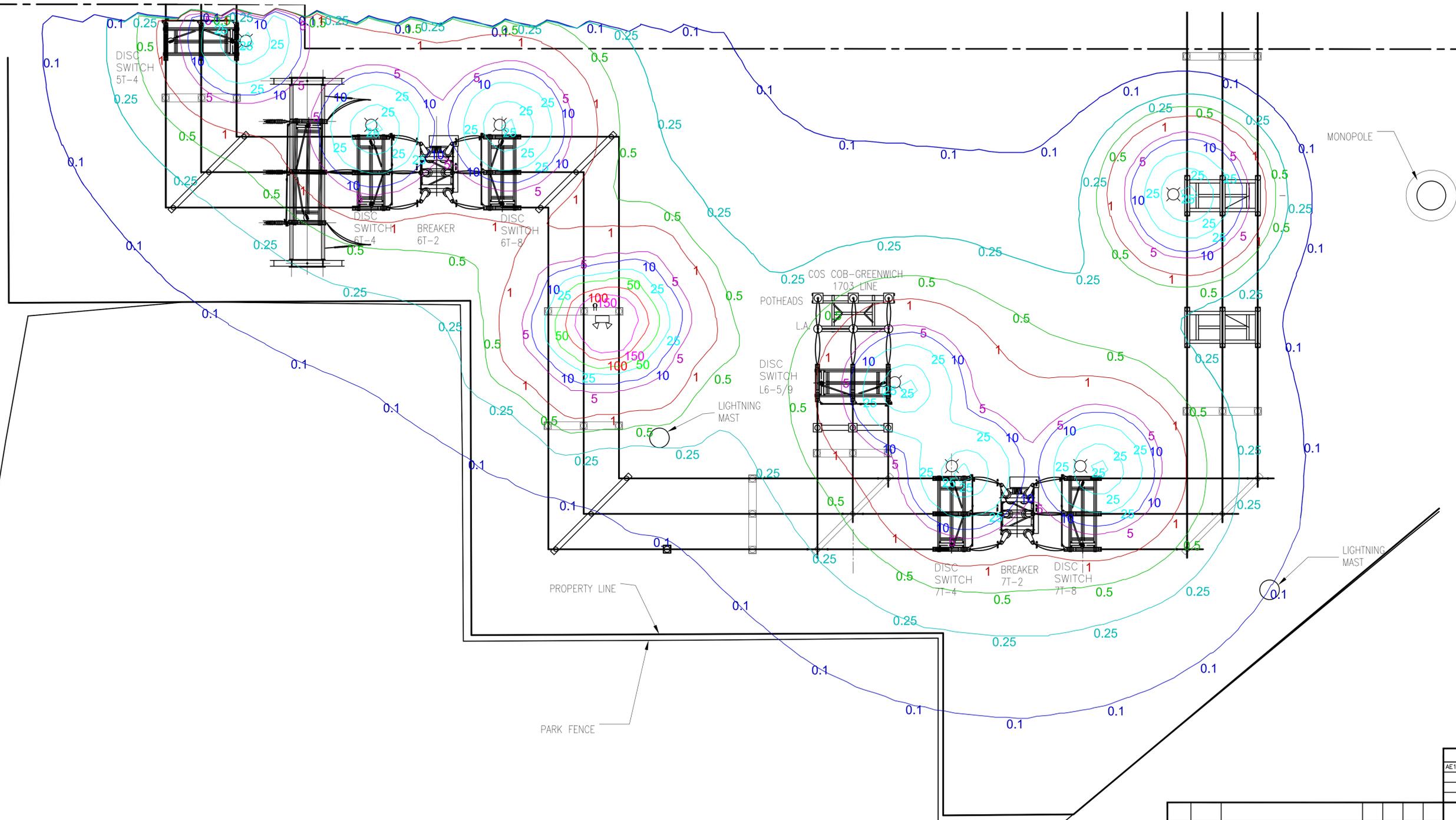
Question:

D&M narrative p. 29 states post-construction lighting would be similar to existing lighting. Please provide a lighting plan and indicate methods to prevent light trespass onto adjacent property.

Response:

Please see the attached lighting plan, which provides the level of illumination in foot candles anticipated to result from the additional lighting sources planned for installation at Cos Cob Substation as part of the Project work. The highest modeled rating along the property boundary is 0.25 foot candle, with most of the property boundary at 0.1 foot candle. For comparison, parking area lighting is typically 1-2 foot candles. The proposed lights are similar to the existing substation lighting.

The proposed lighting would only be utilized during non-daylight work at the substation, which may include switching, maintenance or night time emergency response. When in use, light from the substation will be mitigated by the use of downward directed lighting.



LEGEND

- NEW DOWNWARD DIRECTED 250W LED FLOOD LIGHT
- NEW OUTDOOR LIGHT, 250W HPS
- PHOTOMETRIC CONTOURS
- FOOT CANDLE LEVELS

D&M PLAN SUBMITTAL 04/3/2018

REVISIONS DURING CONSTRUCTION				
AE1	DATE	DESCRIPTION	BY	APP
-	-	11R RINGBUS EXPANSION WO#403813A1	-	-

EVERSOURCE ENERGY

TITLE
 COS COB 11R
 115KV LIGHTING & PHOTOMETRIC PLAN
 PLAN VIEW
 GREENWICH, CT

BY: A/JD (PE)	DWG: -	APP: -	APP: -
DATE: -	DATE: -	DATE: -	DATE: -
H-SCALE: 3/32"=1'-0"	SIZE: D	FIELD BOOK & PAGES	
V-SCALE: 3/32"=1'-0"	V.S.	R.E. DWG	
R.E. PROJ. NUMBER	DWG. NO.		15706-33031

NO.	DATE	AS BUILT REVISIONS	BY	CHK	APP	APP

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**Data Request CSC-01
Dated: 03/19/2018**

**Q-CSC-013
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**Witness: Witness Panel
Request from: Connecticut Siting Council**

Question:

Will the Cos Cob Substation expansion project require a DEEP General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities? If so, what is the status of the permit?

Response:

No. Activities resulting in the disturbance of greater than one (1) acre of land due to clearing, grading and/or excavation activities are subject to the DEEP General Permit ("GP"). The Cos Cob Substation expansion will disturb less than one (1) acre; consequently, it is below the regulatory threshold to trigger the GP requirement.

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Dated: 03/19/2018**

**Q-CSC-014
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**Witness: Witness Panel
Request from: Connecticut Siting Council**

Question:

Will the Cos Cob Substation expansion project require a DEEP Coastal Area Management permit? If so, what is the status of the permit?

Response:

No. There are no jurisdictional areas requiring DEEP Coastal Area Management permit in association with the Cos Cob Substation expansion. A component of the underground transmission line work for the GSLP, the jurisdictional crossing of tidal/navigable waters (i.e., Indian Harbor Pond) will require a DEEP Coastal Area Management permit, including a Coastal Zone Consistency Certification (Structures, Dredging and Fill permit) and 401 Water Quality Certification.

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**Data Request CSC-01
Dated: 03/19/2018**

**Q-CSC-015
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**Witness: Witness Panel
Request from: Connecticut Siting Council**

Question:

Do the proposed potential transformers contain insulation oil? If so, describe oil containment features.

Response:

Each of the proposed potential transformers will contain approximately 31 gallons of insulation oil. The potential transformers will be placed in elevated positions in a manner similar to overhead distribution service transformers. Three of these potential transformers will be installed on individual stands at approximately 16 feet above ground at each underground line terminal position. Another set of three potential transformers will be installed on the overhead 1750 line terminal structure at approximately 24 feet above ground. There is no proposed oil containment system for these transformers.