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April 5, 2024

VIA ELECTRONIC MAIL AND HAND DELIVERY

Melanie Bachman
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: PETITION NO. 1600 – TRITEC Americas, LLC notice of election to waive exclusion from Connecticut Siting Council jurisdiction, pursuant to Connecticut General Statutes §16-50k(e), and petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed construction, maintenance and operation of a 0.999-megawatt AC solar photovoltaic electric generating facility located at Parcel No. 30-2-74-40 Chamberlain Highway, Berlin, Connecticut, and associated electrical interconnection. **Petitioner Responses to Interrogatories from Council.**

Dear Attorney Bachman:

On behalf of TRITEC Americas, LLC (“Petitioner”), please accept the enclosed responses to the interrogatories provided by the Connecticut Siting Council (“Council”) on March 22, 2024.

Consistent with Council requirements, Petitioner submits an original and fifteen hard copies of all necessary documents.

Please feel free to contact me if you have any questions.

Very truly yours,

Paul R. Michaud

c: Service List dated November 23, 2023

Petition No. 1600
TRITEC Americas, LLC
Parcel No. 30-2-74-40
Chamberlain Highway, Berlin, Connecticut

Interrogatories – Set 2
March 22, 2024

50. Referencing Interrogatory response 10, the site plans show solar panels and racking within the catchment area. Can the fence also be relocated into the catchment area to increase the distance from the abutting property line? If not, provide detailed reasons.

Response: The fence has been relocated further west to increase the distance between the fence and adjacent property line. Please see the enclosed, “Exhibit A: Proposed Solar Photovoltaic Array.”

51. Referencing Interrogatory response 30, can a transformer be installed with a secondary containment system and/or a low-level oil alarm?

Response: The transformer has a built-in safety system. If the transformer runs low on oil, then it trips the fuses and shuts down the entire Project. This shut down immediately informs the monitoring team, who dispatches service to the Project.

52. What is the noise profile of the selected transformer?

Response: The transformer model to be used on this project will be based on availability at the time of construction. However, per NEMA TR-1, a transformer of this size would produce a noise level of 61 dB at a distance of 1 meter. This data has been used in the sound level calculations submitted in conjunction with these responses to interrogatories. Please see the enclosed, “Exhibit B: Noise Level Calculations.”

53. Referencing Interrogatory response 33, submit a detailed sound level calculation work sheet or a sound study that accounts for cumulative noise levels from the proposed eight inverters and transformer at the nearest property line.

Response: Sound level calculations have been submitted in conjunction with these responses to interrogatories. Please see the enclosed, “Exhibit B: Noise Level Calculations.”

54. Referencing Interrogatory response 42, what is the status of the Phase 1B archeological survey requested by the State Historic Preservation Office?

Response: The Phase 1B survey and necessary coordination with SHPO is currently being scheduled and will take place prior to the commencement of construction activities.

Exhibit A: Proposed Solar Photovoltaic Array

LEGEND

	PROPERTY LINE
	SOLAR SETBACK LINE
	WETLAND LIMIT
	WETLAND UPLAND REVIEW AREA - 100 FT BUFFER
	7 TALL CHAIN LINK FENCE
	STORMWATER CATCHMENT AREA
	OVERHEAD ELECTRIC LINE (BY OTHERS)
	ELECTRIC CONDUIT (BY OTHERS)
	UTILITY POLE (BY OTHERS)
	TRINA 540W SOLAR MODULES
	EVERGREEN TREE
	NEW ENGLAND EROSION CONTROL / RESTORATION NO MOW MIX
	GRAVEL ROAD
	LIMITS OF TREE CLEARING
	LIMITS OF EXISTING TREE LINE
	CONCRETE PAD
	INVERTER

GENERAL NOTES

- THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL FINAL APPROVAL OF THIS PLAN IS GRANTED.
- EXISTING BOUNDARY, TOPOGRAPHY AND SITE CONDITIONS INFORMATION TAKEN FROM A PLAN ENTITLED "PROPERTY/TOPOGRAPHIC SURVEY" DATED 11/04/22, SCALE: 1"=80', BY BL COMPANIES.
- ALL CONSTRUCTION SHALL COMPLY WITH TOWN OF BERLIN STANDARDS, CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS.
- THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL COUNTY AND TOWN CONSTRUCTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE, AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE ENGINEER OF RECORD IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING. ANY CONFLICT BETWEEN THE DRAWINGS SHALL BE CONFIRMED WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO BIDDING.
- SHOULD ANY UNCHARTERED OR INCORRECTLY CHARTED, EXISTING PIPING, OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE ENGINEER OF RECORD IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
- DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
- THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE ENGINEER OF RECORD.
- THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ENGINEER OF RECORD HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
- THE CONTRACTOR SHALL COMPLY WITH CFR 29 PART 1926 FOR EXCAVATION/TRENCHING AND TRENCH PROTECTION REQUIREMENTS.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE ENGINEER OF RECORD AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING PROCESS.
- INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER, MUNICIPAL RECORD MAPS, AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT (800) 922-4455 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.

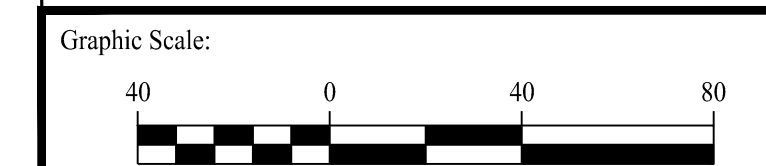
SOLAR ARRAY SYSTEM INFORMATION

	TOTAL
SIZE DC	1,399 MW
SIZE AC	0,999 MW
INVERTER LOAD RATIO	1.40
MODULE TYPE	TRACKING TRINASOLAR TSM-540-DEG19C.20 (540W)
MODULE QUANTITY	2,590
INVERTER	SUNGROW SG125HV 125KW
INVERTER QUANTITY	8
UTILITY	EVERSOURCE

SEED MIX NOTES

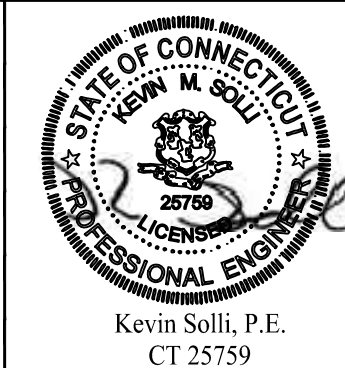
SEED MIXES
NEW ENGLAND EROSION CONTROL/RESTORATION NO MOW MIX (NEW ENGLAND WETLAND PLANTS, INC.)
APPLICATION RATE: 1 LBS/2,500 S.F.
ERNMX-147
APPLICATION RATE: 42 LBS/ACRE WITH A COVER CROP OF ANNUAL RYEGRASS AT 12 LBS/ACRE
ERNMX-610
APPLICATION RATE: 30 LBS/ACRE OF A COVER CROP. FOR A COVER CROP USE EITHER GRAIN OATS (JAN 1 TO JUL 31) OR GRAIN RYE (AUG 1 TO DEC 31)
NOTE: ERNMX-147 TO BE USED WITHIN ARRAY. ERNMX-610 TO BE USED OUTSIDE FENCELINE AND IN NON-ARRAY AREAS (ROAD SHOULDERS, PERIMETER ALLEYS, ELECTRIC TRENCHES, ETC.)

2	04/02/24	Revised Per CSC Interrogatories
1	02/28/24	Revised Per CSC Interrogatories
Rev. #:	Date	Description



SOLLI ENGINEERING
 501 Main Street, Monroe, CT 06468 T: (203) 880-5455 F: (203) 880-9695
 11 Vanderbilt Ave, Norwood, MA 02062 T: (781) 352-8491 F: (203) 880-9695

Drawn By:	RHF
Checked By:	CJB
Approved By:	KMS
Project #:	23100201
Plan Date:	09/30/23
Scale:	1" = 40'



PROPOSED SOLAR PHOTOVOLTAIC ARRAY

0 CHAMBERLAIN HIGHWAY
BERLIN, CONNECTICUT

Sheet Title:	Sheet #:
SITE LAYOUT PLAN	2.11

Apr 02, 2024 - 4:08pm Anthony X:\SE_Files\Project Data\2023\23100201 - 0 Chamberlain Highway - Berlin, CT\Coord Data\23100201-2.11.dwg

Exhibit B: Noise Level Calculations

3.12 NOISE

Noise from the construction of the solar panel facility is exempted under Connecticut regulations for the control of noise. For more information refer to RCSA 22a-69-1.8(h). During construction, the increase in noise will likely lead to a subsequent elevation in ambient sound levels in the immediate vicinity of the Project. Standard construction equipment will be used for the Project, and the highest level of noise generated from this equipment - such as backhoes, bulldozers, cranes and trucks – is expected to be approximately 88 dBA from the origin.

The primary sources of noise generation associated with the Facility will be the 2,000 kVA transformer and (8) inverters. The solar panels themselves do not have any associated noise. A summary of the equipment and manufacturer’s listed sound data is provided below in Table 1.

Table 1: Equipment Sound Summary

Equipment	Number of Sources	Listed Sound Pressure (dBA)	Distance of Observed Sound Level (meters)
Sungrow SG125HV 125kW Inverters	8	61.6	1
2,000 kVA Transformer	1	61	1

The logarithmic decibel scale is utilized to combine sound levels and adjust for distance based on the Inverse Square Law. Total sound levels from the proposed equipment was calculated as shown below:

Calculate Anticipated Sound Level at Nearest Property Boundary

Multiple analysis points were studied along the property boundary to determine at which point the highest level of sound will be produced by the equipment on-site. Once the point was determined, following equation was used to determine the sound level of each piece of noise-producing equipment:

$$L_b = L_a - 20 \times \log_{10}\left(\frac{D_b}{D_a}\right)$$

Where:

L_b = Noise level at new distance (dBA)

L_a = Noise level at original distance (dBA)

D_b = New distance from source of noise (meters)

D_a = Original distance from source of noise (meters)

Using the data from Table 1, as well as the distances from each inverter (180’, 97’, 316’, 188’, 565’, 369’, 525’ & 345’) and the transformer (591’) to the property line, the total anticipated sound level for each piece equipment was calculated.

Combining Sound Levels

To add multiple sound levels of different strength, the following equation was used:

$$L_t = 10 \log_{10}\left(\sum 10^{\frac{L_b}{10}}\right)$$

After combining all sound levels from each piece of equipment, it was determined that the highest collective operational noise at the property boundary would be 34.9 decibels. This noise level meets applicable CT

Exhibit B: Noise Level Calculations

DEEP Noise Standards, and noise levels will effectively be reduced to zero during nighttime hours when the array is not generating electricity.

