

SCS Dell 014136 Yorktown, LLC Sol Customer Solutions, LLC 1101 Connecticut Ave NW, Second Floor Washington, DC 20036

September 21, 2022

Town of Yorktown Planning Board 1974 Commerce St Yorktown Heights, NY 10598

Dell Avenue Solar Farm Operations & Maintenance Plan

Preliminary Draft, Revision #1 (updates in red)

SCOPE OF MAINTENANCE SERVICES - by maintenance provider to Sol Customer Solutions

1. Monitoring, Reporting, & Inventory	Frequency
Configuration, Onboarding, & Training	Included
Active Site Monitoring (Remote)	Daily
DC Health Analysis	Monthly
Maintain Spare Parts	Included
Warranty Enforcement	Included

2. Site Property Inspection/Maintenance	Frequency
Site Host Relations	As necessary
Perimeter & Fence Inspection	Annually
Erosion Inspection	Annually
Site Security Systems Inspection	Annually
Signage & Labels Inspection	Annually
Vegetation Management	Refer to narrative at bottom
Panel Washing	TBD
Mid-Year Site Inspection	Included
On-Site Emergency Key Lock Box	Included

3. DC Systems	Frequency
Racking Inspections	As recommended by manufacturer
Ballast Blocks	If applicable
Module Inspections	Annually
Broken Module Replacement	As necessary
Wire Inspections	Annually
Combiner Box & Re-Combiner Inspections	If applicable
Combiner Box & Re-Combiner Torque Inspections	If applicable
DC Electrical Balance-of-System	Annually



4. AC Systems	Frequency
Inverters	As recommended by manufacturer
Inverter Air Filters & Transformer Heat Sinks	As recommended by manufacturer or Annually
AC Panelboards & Disconnects	Annually
Transformers	As recommended by manufacturer or Annually
AC Disconnect	Annually
Switchgear	Annually
AC Electrical Balance-of-System	Annually
MV Equipment	If applicable

5. DAS/SCADA Inspections	Frequency
General DAS Inspection	Annually
Sensor Verification	Annually
Pyranometers & Reference Cells	At least twice per year
Pyranometer Calibration	As recommended by manufacturer
Data/Instrument Accuracy &	As recommended by manufacturer
Communications Verification	

6. Testing	Frequency
Module Level Thermal Audits	Annually
Thermal Imaging	Annually
Transformer Oil Testing	If applicable
Point-to-Point Testing	Annually (5%)

7. Corrective Maintenance	Frequency
Remote Troubleshooting	Included
Remote Equipment Resets	Included
On-Site Troubleshooting, Repairs, Diagnostics	Included
On-Site Resets	Included
Corrective Maintenance	Included
Parts Procurement	TBD
Corrective Maintenance Exclusions	TBD



VEGETATION MANAGEMENT – by maintenance provider to Sol Customer Solutions

For the Dell Avenue Solar Farm, Sol Systems recommends a mixture of native and naturalized grasses and legumes. Due to the site's shallow bedrock, moisture availability and retention will be limited. To support pollinator-friendly species, seed mixes such as or similar to Round Seed Panic Grass, Clover, Black Eyed Susan, and Birds Foot Trefoil are recommended. These grasses and flowers provide value to pollinators and stabilize the soil. Sol Systems will include pollinator-friendly plants in the mix and the final seed mix will be determined based on site conditions, timing of seeding, and availability of seeds.

Vegetation management of a pollinator-friendly site is accomplished through a combination of mowing and herbicide treatment. Long-term maintenance is performed by a vetted firm with conservation and ecology expertise on staff to assess on-site conditions and this same firm is typically that which first seeded the site during the construction phase. Typically, a site will be fully mowed several times in the first three years of growth. This technique, meant to mimic a prescribed burn on a meadow, limits the presence of invasive species while allowing for establishment of native species. Some targeted herbicide application may occur in these early years to manage specific invasive species. In later years, once vegetation is established, maintenance will focus on fewer, more targeted mowing events and some herbicide application. This will manage invasive species in the long term, while allowing the native / naturalized meadow to grow. Vegetation on solar sites is typically allowed to grow to the height of the leading edge of the solar module.

Sol Systems is also willing to explore additional benefits to the site such as the opportunity to add artificial or human-made nesting structures for bees and other pollinators to the perimeters of the site.

Attached is an example of a suitable seed mix to be considered for this site. Once a seed mix is selected, an addendum to the Scope of Maintenance Services will be developed that covers the vegetation management services, including frequency of cutting/mowing.



[Final selections are to be determined during detailed engineering design]



Ernst Conservation Seeds

8884 Mercer Pike Meadville, PA 16335 (800) 873-3321 Fax (814) 336-5191 www.ernstseed.com

Date: March 21, 2021

Fuzz & Buzz Mix - Standard - ERNMX-146

	Botanical Name	Common Name
26.40 %	Lolium perenne, 'Crave', Tetraploid	Perennial Ryegrass, 'Crave', Tetraploid
20.80 %	Dactylis glomerata, 'Pennlate'	Orchardgrass, 'Pennlate'
18.90 %	Poa pratensis, 'Ginger'	Kentucky Bluegrass, 'Ginger' (pasture type)
17.00 %	Festuca elatior x Lolium perenne, Duo	Festulolium, 'Duo'
5.70 %	Trifolium hybridum	Alsike Clover
4.80 %	Trifolium pratense, Medium, Variety Not Stated	Red Clover, Medium, Variety Not Stated
2.00 %	Lotus corniculatus, 'Leo'	Bird's Foot Trefoil, 'Leo'
1.30 %	Cichorium intybus	Blue Chicory
1.00 %	Chrysanthemum leucanthemum	Oxeye Daisy
0.90 %	Coreopsis lanceolata	Lanceleaf Coreopsis
0.80 %	Chamaecrista fasciculata, PA Ecotype	Partridge Pea, PA Ecotype
0.40 %	Solidago nemoralis, PA Ecotype	Gray Goldenrod, PA Ecotype

100.00 %

Seeding Rate: Expect to apply about 40 lbs per acre with a

cover crop of annual ryegrass 12 lbs/acre

Forage & Pasture Sites; Solar Sites



EMERGENCY RESPONSE PLAN – to be finalized by EPC contractor on behalf of Sol Customer Solutions

Local Fire Department Training

• The applicant will provide emergency response training to the local fire department and produce an electronic version of the training program, so that it can be utilized to train personnel in the future. The initial training will involve a site walkthrough with local fire department(s), the Town of Yorktown Fire Prevention Bureau, and the EPC (engineering-procurement-construction) contractor. It will occur at the end of the construction phase.

Example of Emergency Response Plan

Site Safety/Emergency Shutdown Procedure

Call Sol Systems and/or O&M Provider for consultation.

If an immediate unsafe condition exists: CALL 911.

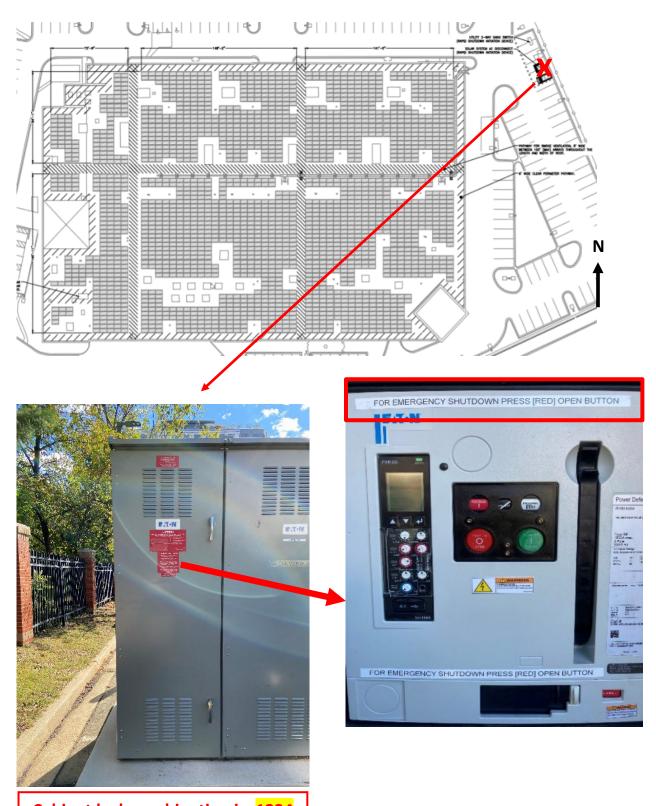
Walk to main AC electrical disconnect switch (noted on site plan as red X). Cabinet lock combination is: 1234

Follow instruction shown on the next page to shut down system.

[Continues on next page]



Site Plan & Emergency Electrical Disconnect Panel Location



Cabinet lock combination is: 1234