



222 South 9th Street
Minneapolis, MN 55402
Phone: 612-326-1500
E-mail: steve.broyer@ecosrenewable.com
March 19th, 2019

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

Re: Petition NO. 1220 - Facility Construction Deadline Extension

Dear Melanie:

I'm writing to request that the Connecticut Siting Council (CSC) extend the three-year construction deadline for petition number 1220. Windham Solar LLC ("Windham") has been working with diligence and in good faith to achieve commercial operation of the Projects—three 2.0 MW and one 1.0 MW Solar Photovoltaic Electrical generation facilities on two sites located at 1219 and 1240 Voluntown Road, Griswold—by the current deadline for construction. Significant time, effort and resources have been expended. Windham has already invested hundreds of thousands of dollars in the Projects. The current three-year construction deadline for the project is June 24th, 2019, and the Windham would like to request an extension of the construction deadline for an additional two years until June 24th of 2021.

On August 31st, 2018, the CSC approved a partial development and management plan for 1240 Voluntown Road, to allow for clearing and the initial phases of construction to begin on the northerly parcel of the project. Windham is completing the final design for the first two 1.0MW solar facilities for the 1240 parcel per the attached electrical one-line and site plan (Attachment A). The intent is to interconnect and energize this initial phase by September of 2019, and then proceed with the remaining Projects. CT-DEEP has

issued a general permit for both 1240 and 1219 (Attachment B) A final D&M plan with the electrical and structural racking drawings will be submitted to the CSC for approvals in the next 30 days, with the intent of beginning site construction in May of 2019.

The delay with the projects is a combination of factors. The delay common to all projects is the delay in completing the interconnection process. Another delay factor common to all projects is the dispute related to Eversource's obligations under federal and state law to agree to purchase the energy and capacity from the projects, which dispute involves cases currently before the Connecticut Appellate Court and the Superior Court.

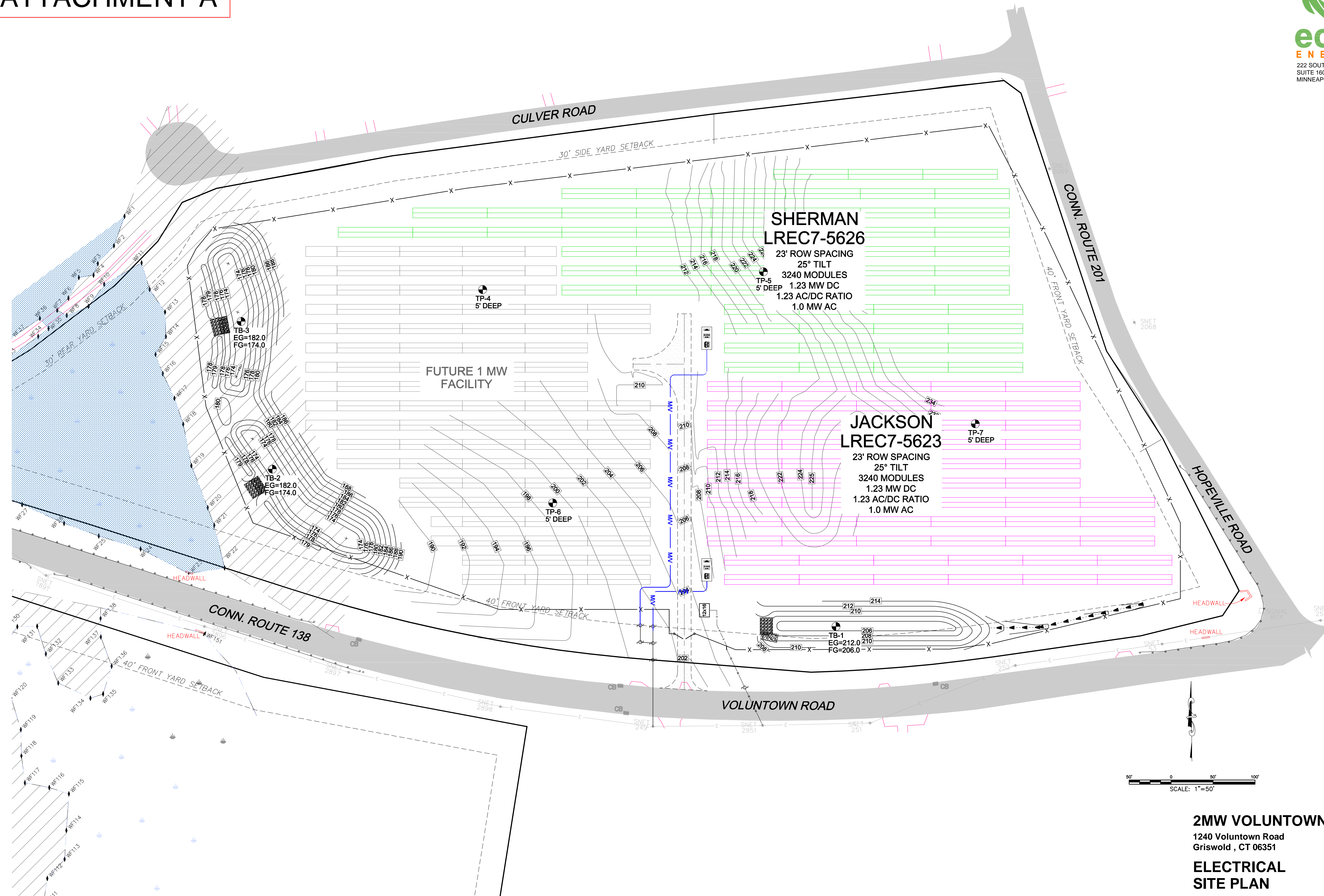
A 2-year extension of the construction deadline for the project, should allow us to have the causes for the delays fully resolved for all the Projects.

Thank you,

A handwritten signature in black ink, appearing to read "Steve Broyer", is written over a horizontal line.

Steve Broyer

CC: Michael, Perrone, CSC Analyst
Mario Tristany Jr, Griswold Town Planner
Todd Babbitt, Griswold First Selectman

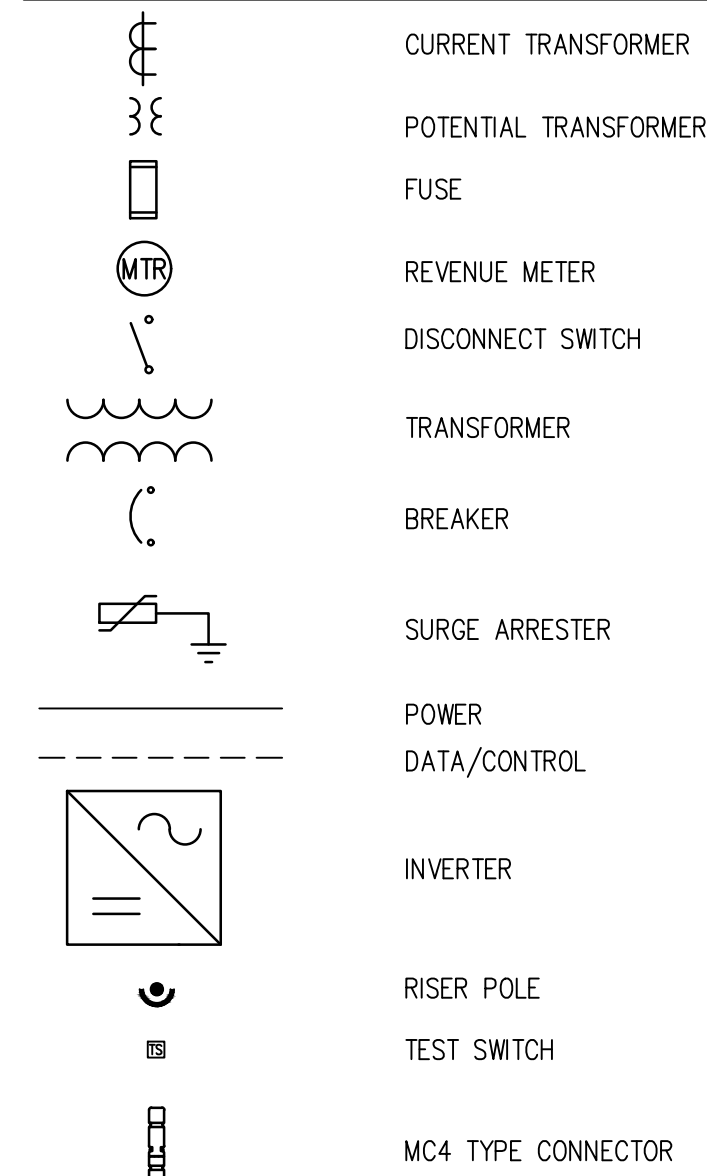


1. AC TOTAL NAMEPLATE: 1000kW
2. DC TOTAL NAMEPLATE: 1247.4kW
3. UTILITY EQUIPMENT IS SHOW FOR REPRESENTATION PURPOSE ONLY. ACTUAL EQUIPMENT TO BE DESIGNED, SIZED AND SPECIFIED BY THE UTILITY.
4. UTILITY INTERCONNECTION PCC EQUIPMENT & LABOR DIVISION TO BE CONFIRMED BY CONTRACTOR WITH UTILITY. ACTUAL EQUIPMENT AND CONFIGURATION SHALL BE VERIFIED BY UTILITY.
5. CONTROLLERS SHALL BE SEL-751R.
6. CONTROLLERS SHALL BE EQUIPPED WITH FRONT RS-232 PORT AND CAPABLE OF COMMUNICATING IN DNP PROTOCOL.
7. ALL SECONDARY CONDUCTORS FROM TRANSFORMER TO SWITCHBOARDS ARE DESIGNED BY OTHERS. CONTRACTOR SHALL VERIFY EXACT INSTALLATION REQUIREMENTS WITH LOW VOLTAGE ENGINEER.
8. CONTROLLER SHALL BE EQUIPPED WITH TEST SWITCHES FOR ALL VOLTAGE AND CURRENTS INPUTS.
9. GROUNDING SHALL BE COORDINATED AND VERIFIED WITH THE LOW VOLTAGE DRAWINGS.
10. CONTRACTOR TO PROVIDE TELECOMMUNICATION LINE, SPECIFIC REQUIREMENTS SHALL BE COORDINATED WITH UTILITY.
11. THIS IS A CONCEPTUAL ONE-LINE DESIGN FOR TYPICAL DISTRIBUTED GENERATION FACILITY. ACTUAL EQUIPMENT MAY VARY BASED ON FINAL DESIGN PARAMETERS.
12. PART NUMBERS ARE FOR REFERENCE AND CONCEPTUAL DESIGN ONLY. ENGINEERED EQUALS SHALL BE SUBMITTED TO BE APPROVED.
13. COMBINERS ARE INTEGRAL TO INVERTERS LOCATED THROUGHOUT THE ARRAY.
14. INDIVIDUAL STRINGS ARE TO BE FUSED AT 20A, WHERE POSSIBLE COMBINE TWO STRINGS USING Y-SPLICE AND SINGLE HOMERUN HARNESS. SEE HARNESS DETAIL.
15. MODULE: CANADIAN SOLAR CS3U-385MS, 1500V, 385W
 - 15.1. MODULES ARE WIRED IN SERIES STRINGS OF 27 MODULES.
 - 15.2. Isc: 10.09A, Voc: 48.0V, Imp: 9.58A, Vmp: 40.2V
 - 15.3. TOTAL MODULES: 3,240 CERTIFIED TO UL 1703.
16. UTILITY METERING AND PRIMARY CIRCUIT PROTECTION BY UTILITY. ECOS TO PROVIDE REQUIRED EQUIPMENT. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING UTILITY PROVIDED EQUIPMENT AND CONTRACTOR PROVIDED EQUIPMENT.

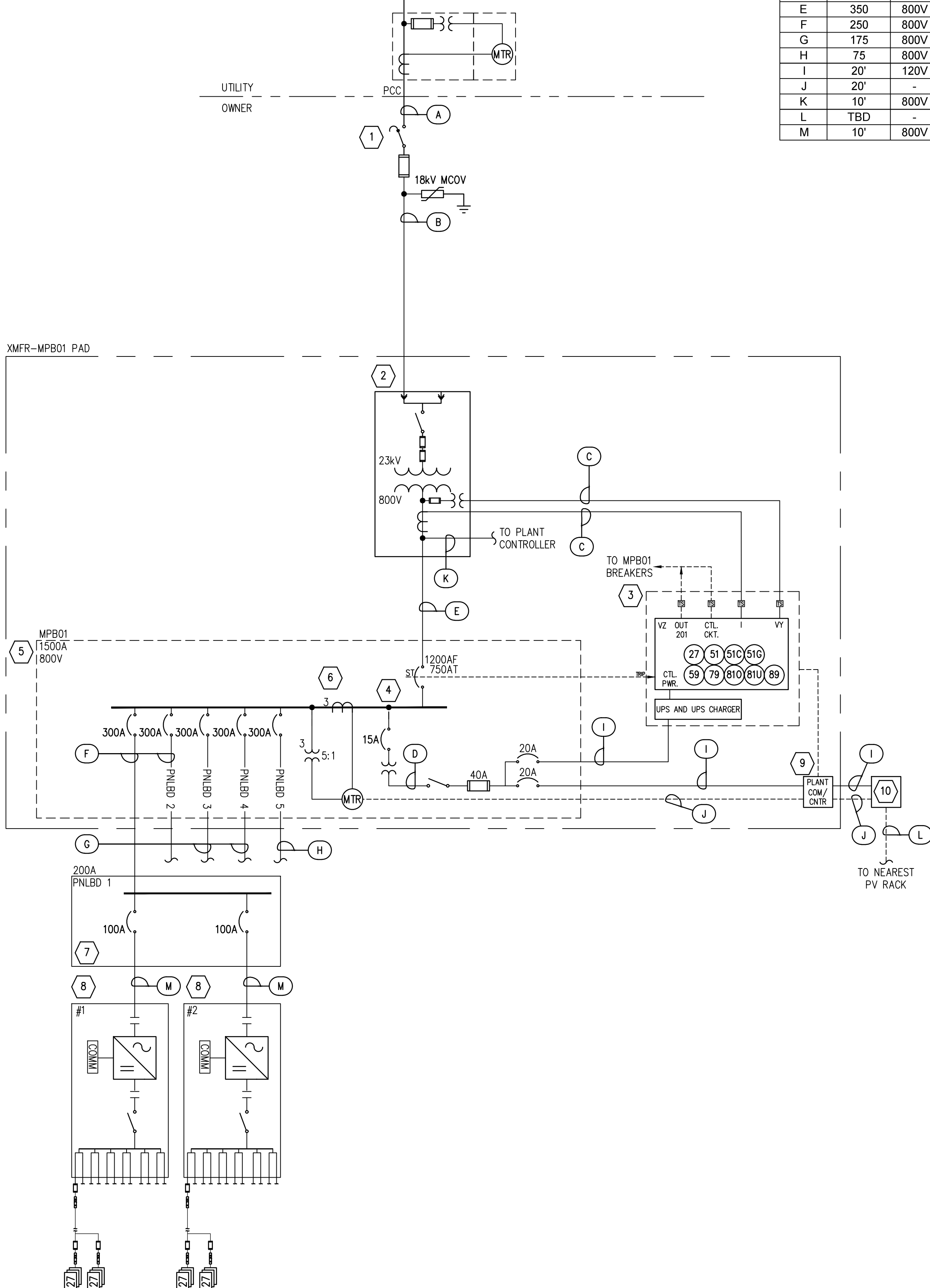
KEY NOTES

- 1 S&C OMNI-RUPTER GANG OPERATED LOAD BREAK DISCONNECT MANUALLY OPERATED (147442R4-A1P1-S1) 25kV, 150kV BIL, 800A CONTINUOUS, 65KA 24/7 UTILITY ACCESS, VISIBLE BREAKER, AND UTILITY LOCKABLE
- 2 STEP-UP TRANSFORMER 1100 kVA 23 kV G-WYE:800V G-WYE 3ø, 4W, 95kV BIL, Z=5.75%
- 3 SEL-751R
- 4 7.5kVA MINI SUB, 800V:120 TRANSFORMER 1ø, 10KAIC EATON DRY TYPE (OR EQUIVALENT)
6 CKT BREAKER PANEL
- 5 MAIN PANELBOARD:
BACKFEED RATED
800V, 1500A, 3ø, 4W (USE ABB 800V BREAKERS)
- 6 REC METER 800V 1350:1 CT'S 2% ACCURACY
- 7 PANELBOARD:
BACKFEED RATED
TYPICAL, 800V, 200A (USE ABB 800V BREAKERS)
- 8 INVERTER: HUAWEI SUN2000 100KTL-USHO
3ø, 4W, 800V OUTPUT, 1500V DC INPUT.
RATED CONTINUOUS OUTPUT: 72.9A
CSA TO UL 1741SA & IEEE1547 CERTIFIED
TOTAL (12) 27 MODULE STRING/INVERTER
- 9 HUAWEI CONTROLLER:
SMART ACU200 W/POWER LINE CARRIER (PLC)
- 10 WEATHER STATION:
(2)POA PYRANOMETERS
(2)BACK OF MODULE TEMP SENSORS
(1) ANEMOMETER
(1) AMBIENT TEMP SENSOR
COMPLETE STATION PER OWNER REQUIREMENTS

LEGEND



1219 VOLUNTOWN ROAD
GRISWOLD, CONNECTICUT 06351
23kV
TO POI: EVERSOURCE LINE
#13B25



Cable Schedule											
Circuit ID	CCT Lengh	Voltage	Qty of Ø Cond.	Size of Ø Cond	Qty of GRND Cond.	Size of EQP GRND Cond	Insulation Type	Qty of Conduits	Conduit Size	Conduit Type	Notes
A	50'	23kV	1	#1AWG AL	1	#8AWG	Covered Wire	-	-	-	OH
B	100'	23kV	1	#1/0 AWG AL	-	-	25kV EPR/133%	2	4"	PVC	TYP JCN, MV-105. From pole to UG
C	10'	800V	1	#12AWG CU	-	-	THWN-2 (2kV)	1	3/4"	EMT	PT - CT cqts.
D	20'	120V	1	#10AWG CU	1	#10AWG	THHN	1	3/4"	EMT	-
E	350	800V	1	(5) Sets 350kcmil AL	1	#4/0AWG	THWN-2 (2kV)	5	3 1/2"	PVC	-
F	250	800V	1	(1) Sets 300kcmil AL	1	#4AWG	THWN-2 (2kV)	1	3"	PVC	UG
G	175	800V	1	(1) Sets 300kcmil AL	1	#4AWG	THWN-2 (2kV)	1	3"	PVC	UG
H	75	800V	1	(1) Sets 300kcmil AL	1	#4AWG	THWN-2 (2kV)	1	3"	PVC	UG
I	20'	120V	2	#12AWG CU	1	#12AWG	THHN	1	3/4"	EMT	-
J	20'	-	-	-	-	-	-	1	3/4"	EMT	CAT6
K	10'	800V	3	#8AWG CU	-	-	THWN-2 (2kV)	1	3/4"	EMT	Cable Type
L	TBD	-	-	-	-	-	-	1	3/4"	PVC	Sensor Wires
M	10'	800V	3	#1AWG CU	1	#6AWG	THWN-2 (2kV)	1	2"	EMT	-

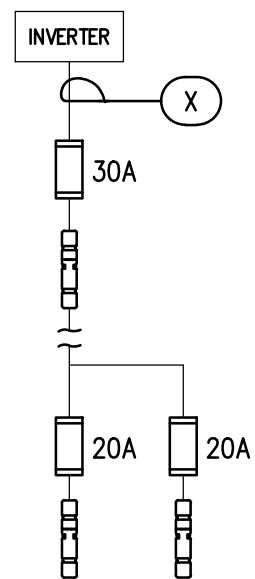
BILL OF MATERIAL					
NO.	EQUIPMENT	MANUFACTURER	PART#/CATALOG#	QUANTITY	COMMENTS
1	LOAD-BREAKER DISCONNECT SWITCH	S&C	OMNI RUPTER 147442R4-A1P1-S1	1	
2	TRANSFORMER	COOPER	1100kVA	1	
3	RELAY	SEL	SEL-751R	1	
4	AUX TRANSFORMER	ABB	7.5kVA	1	
5	MAIN PANELBOARD	TBD	--	1	
6	PANELBOARD	TBD	--	5	
7	INVERTER	HUAWEI	100KTL-USH0	10	
8	SOLAR MODULE	CANADIAN SOLAR	CS3U-385MS	3240	
9	PLANT CONTROLLER	HUAWEI	SMART ACU200	1	PER OWNER SPEC
10	WEATHER STATION	KIPP & ZONEN	rT1	2	PER OWNER SPEC

OVERCURRENT PROTECTION - SEL-751A		
Voltage Ctrl Phase Inst Overcurrent Pickup (50P)	36.8 A, sec	(~80% normal load current)
Voltage Ctrl Phase Time Overcurrent Pickup (51P)	18.4 A, sec	(~40% normal load current)
Phase Overcurrent Time Dial (51PTD)	2.4	(~0.1 sec clearing time for 3PH fault)
Phase Overcurrent Curve Type (51PCT)	U4	(U.S. Extremely Inverse)
Phase Overcurrent Voltage Control (51C)	406.5 V, sec	(88% of $V_{nom, L-N}$; Level 1 Undervoltage)
Residual Ground Time Overcurrent Pickup (51G)	9.2 A, sec	(~50% of phase time overcurrent pickup)
Residual Ground Time Dial (51GTD)	2.4	(~0.1 sec clearing time for SLG fault)
Residual Ground Overcurrent Curve Type (51GCT)	U4	(U.S. Extremely Inverse)

VOLTAGE & FREQUENCY PROTECTION	751A Relay			Inverter		
	Pickup	Delay (sec)	Total Clearing Time* (sec)	Pickup	Oper Time (sec)	Total Clearing Time* (sec)
Under Frequency (81U2)	56.5 Hz	0.110	0.160	56.5 Hz	0.160	0.160
Under Frequency (81U1)	58.5 Hz	299.97	300.02	58.5 Hz	300.0	300.0
Over Frequency (81O1)	61.2 Hz	299.97	300.02	61.2 Hz	300.0	300.0
Over Frequency (81O2)	62.0 Hz	0.110	0.160	62.0 Hz	0.160	0.160
Under Voltage (27P2) (50% of Vnom _{L-N})	230.94V	1.050	1.100	230.94V	1.10	1.10
Under Voltage (27P1) (88% of Vnom _{L-N})	406.45V	1.950	2.000	406.45V	2.00	2.00
Over Voltage (59P1) (110% of Vnom _{L-N})	508.07V	1.950	2.000	508.07V	1.00	2.00
Over Voltage (59P2) (120% of Vnom _{L-N})	554.26V	0.110	0.160	554.26V	0.160	0.160
LROV Overvoltage (140% of Vnom _{L-N})	-	-	-	646.63V	-	1 ms

TRIP AND BLOCK CLOSE LOGIC

TRIP = TR OR 51PT OR 51GT OR 51NT OR 81U1 OR 81U2 OR 27P1 OR 27P2 OR 59P1 OR 59P2
CLOSE = CL OR PB_1 AND ITMR1 :: Close Command OR Front Panel Push Button AND NOT(Timer 1)
TMR1 PICKUP = {27P1 AND 81U1} :: NOT(Level 1 Undervoltage AND Level 1 Underfrequency)
TMR1 DELAY = 30 seconds :: 5 minutes above Level 1 Undervoltage AND Underfrequency thresholds



Typical String Harness

Westwood

Designed:	MFM
Checked:	DAM
Drawn:	TCR

Record Drawing by/date:

Revisions:		
#	DATE	DESCRIPTION
1	03/01/2019	INVERTER UPDATE

Prepared for:



VOLUNTOWN SHERMAN

Griswald, CT

ONE LINE
NOT FOR CONSTRUCTION

Date: 09/09/16

Sheet: 1 OF 1

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NOTES

SYSTEM SPECIFICATIONS:

1. AC TOTAL NAMEPLATE: 1000kW

2. DC TOTAL NAMEPLATE: 1247.4kW

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14. INDIVIDUAL STRINGS ARE TO BE FUSED AT 20A. WHERE POSSIBLE COMBINE TWO STRINGS USING Y-SPLICE AND SINGLE HOMERUN HARNESS. SEE HARNESS DETAIL.

15. MODULE: CANADIAN SOLAR CS3U-385MS, 1500V, 385W

15.1. MODULES ARE WIRED IN SERIES STRINGS OF 27 MODULES.

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15.3. TOTAL MODULES: 3,240 CERTIFIED TO UL 1703.

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KEY NOTES

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S&C OMNI-RUPTER GANG OPERATED LOAD BREAK DISCONNECT MANUALLY OPERATED (147442R4-A1P1-S1) 25kV, 150kV BIL, 800A CONTINUOUS, 65KA 24/7 UTILITY ACCESS, VISIBLE BREAK, AND UTILITY LOCKABLE

STEP-UP TRANSFORMER 1100 kVA 23 kV G-WYE:800V G-WYE 3Ø, 4W, 95kV BIL, Z=5.75%

SEL-751R

7.5kVA MINI SUB, 800V:120 TRANSFORMER 1Ø, 10KAIC EATON DRY TYPE (OR EQUIVALENT) 6 CKT BREAKER PANEL

MAIN PANELBOARD: BACKFEED RATED 800V, 1500A, 3Ø, 4W (USE ABB 800V BREAKERS)

REC METER 800V 1350:1 CT's 2% ACCURACY

PANELBOARD: BACKFEED RATED TYPICAL, 800V, 200A (USE ABB 800V BREAKERS)

INVERTER: HUAWEI SUN2000 100KTL-USHO 3Ø, 4W, 800V OUTPUT, 1500V DC INPUT. RATED CONTINUOUS OUTPUT: 72.9A CSA TO UL 1741SA & IEEE1547 CERTIFIED TOTAL (12) 27 MODULE STRING/INVERTER

HUAWEI CONTROLLER: SMART ACU200 W/POWER LINE CARRIER (PLC)

WEATHER STATION:

(2) POA PYRANOMETERS

(2) BACK OF MODULE TEMP SENSORS

(1) ANEMOMETER

(1) AMBIENT TEMP SENSOR

COMPLETE STATION PER OWNER REQUIREMENTS

LEGEND

CURRENT TRANSFORMER

POTENTIAL TRANSFORMER

FUSE

REVENUE METER

DISCONNECT SWITCH

TRANSFORMER

BREAKER

SURGE ARRESTER

POWER

DATA/CONTROL

INVERTER

RISER POLE

TEST SWITCH

MC4 TYPE CONNECTOR

1219 VOLUNTOWN ROAD
GRISWOLD, CONNECTICUT 06351
23kV
TO POI: EVERSOURCE LINE
#13B25

UTILITY
OWNER

PCC

MTR

1

18kV MCOV

A

B

XMFR-MPB01 PAD

2

23kV

800V

TO PLANT CONTROLLER

C

C

K

E

5

MPB01
1500A
1800V

6

4

3

5:1

15A

1200AF
750AT

20A

20A

40A

20A

D

MTR

H

I

J

3

TO MPB01
BREAKERS

VZ

OUT
201

CTL.
CKT.

VY

27

51

51C

51G

59

79

610

81U

89

UPS AND UPS CHARGER

9

PLANT
COM/
CNTR

I

J

L

TO NEAREST
PV RACK

INVERTER

X

30A

20A

20A

Typical String Harness

Cable Schedule

Circuit ID	CCT Lengh	Voltage	Qty of Ø Cond.	Size of Ø Cond	Qty of GRND Cond.	Size of GRND Cond	Insulation Type	Qty of Conduits	Conduit Size	Conduit Type	Notes
A	50'	23kV	1	#1AWG AL	1	#8AWG	Covered Wire	-	-	-	OH
B	100'	23kV	1	#1/0 AWG AL	-	-	25kV EPR/133%	2	4"	PVC	TYP JCN, MV-105. From pole to UG
C	10'	800	1	#12AWG CU	-	-	THWN-2 (2kV)	1	3/4"	EMT	PT - CT cqts.
D	20'	120	1	#10AWG CU	1	#10AWG	THHN	1	3/4"	EMT	-
E	175'	800V	1	(5) Sets 350kcmil AL	1	#4/0AWG	THWN-2 (2kV)	5	3 1/2"	PVC	-
F	250'	800V	1	(1) Sets 300kcmil AL	1	#4AWG	THWN-2 (2kV)	1	3"	PVC	UG
G	175'	800V	1	(1) Sets 300kcmil AL	1	#4AWG	THWN-2 (2kV)	1	3"	PVC	UG
H	75'	800V	1	(1) Sets 300kcmil AL	1	#4AWG	THWN-2 (2kV)	1	3"	PVC	UG
I	20'	120V	2	#12AWG CU	1	#12AWG	THHN	1	3/4"	EMT	-
J	20'	-	-	-	-	-	-	1	3/4"	EMT	CAT6
K	10'	800V	3	#8AWG CU	-	-	THWN-2 (2kV)	1	3/4"	EMT	Cable Type
L	TBD	-	-	-	-	-	-	1	3/4"	PVC	Sensor Wires
M	10'	800V	3	#1AWG CU	1	#6AWG	THWN-2 (2kV)	1	2"	EMT	-

BILL OF MATERIAL

NO.	EQUIPMENT	MANUFACTURER	PART#/CATALOG#	QUANTITY	COMMENTS
1	LOAD-BREAKER DISCONNECT SWITCH	S&C	OMNI RUPTER 147442R4-A1P1-S1	1	
2	TRANSFORMER	COOPER	1100kVA	1	
3	RELAY	SEL	SEL-751R	1	
4	AUX TRANSFORMER	ABB	7.5kVA	1	
5	MAIN PANELBOARD	TBD	---	1	
6	PANELBOARD	TBD	---	5	
7	INVERTER	HUAWEI	100KTL-USHO	10	
8	SOLAR MODULE	CANADIAN SOLAR	CS3U-385MS	3240	
9	PLANT CONTROLLER	HUAWEI	SMART ACU200	1	PER OWNER SPEC
10	WEATHER STATION	KIPP & ZONEN	rT1	2	PER OWNER SPEC

OVERCURRENT PROTECTION - SEL-751A

Voltage Ctrl Phase Inst Overcurrent Pickup (50P)	36.8 A, sec	(~80% normal load current)
Voltage Ctrl Phase Time Overcurrent Pickup (51P)	18.4 A, sec	(~40% normal load current)
Phase Overcurrent Time Dial (51PTD)	2.4	(~0.1 sec clearing time for 3PH fault)
Phase Overcurrent Curve Type (51PCT)	U4	(U.S. Extremely Inverse)
Phase Overcurrent Voltage Control (51C)	406.5 V, sec	(88% of Vnom L-N; Level 1 Undervoltage)
Residual Ground Time Overcurrent Pickup (51G)	9.2 A, sec	(~50% of phase time overcurrent pickup)
Residual Ground Time Dial (51GTD)	2.4	(~0.1 sec clearing time for SLG fault)
Residual Ground Overcurrent Curve Type (51GCT)	U4	(U.S. Extremely Inverse)

VOLTAGE & FREQUENCY PROTECTION

	751A Relay			Inverter		
	Pickup	Delay (sec)	Total Clearing Time* (sec)	Pickup	Oper Time (sec)	Total Clearing Time* (sec)
Under Frequency (81U2)	56.5 Hz	0.110	0.160	56.5 Hz	0.160	0.160
Under Frequency (81U1)	58.5 HZ	299.97	300.02	58.5 Hz	300.0	300.0
Over Frequency (81O1)	61.2 Hz	299.97	300.02	61.2 Hz	300.0	300.0
Over Frequency (81O2)	62.0 Hz	0.110	0.160	62.0 Hz	0.160	0.160
Under Voltage (27P2) (50% of Vnom L-N)	230.94V	1.050	1.100	230.94V	1.10	1.10
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Over Voltage (59P2) (120% of Vnom L-N)	554.26V	0.110	0.160	554.26V	0.160	0.160
LROV Overvoltage (140% of Vnom L-N)	-	-	-	646.63V	-	1 ms

* Total Breaker/Relay clearing time assumes 3 cycle delay for relay and breaker operation. Inverter power electronics have negligible operating time.

TRIP AND BLOCK CLOSE LOGIC

TRIP = TR OR 51PT OR 51GT OR 51NT OR 81U1 OR 81U2 OR 27P1 OR 27P2 OR 59P1 OR 59P2
CLOSE = CL OR PB_1 AND !TMR1 :: Close Command OR Front Panel Push Button AND NOT (Timer 1)
TMR1 PICKUP = !(27P1 AND 81U1) :: NOT (Level 1 Undervoltage AND Level 1 Underfrequency)
TMR1 DELAY = 300 seconds :: 5 minutes above Level 1 Undervoltage AND Underfrequency thresholds

VOLUNTOWN JACKSON

Griswald, CT

ONE LINE NOT FOR CONSTRUCTION

Date: 09/09/16

Sheet: 1 OF 1

N:\0010348.00\PROJECTS\Voluntown Solar\16-09-09 Voluntown Solar



Bureau of Materials Management and Compliance Assurance

Notice of Permit Authorization

October, 31 2018

Steve Broyer
WINDHAM SOLAR LLC
222 S 9TH ST
MINNEAPOLIS, MN 55402-3382

Subject: General Permit Registration for the Discharge of Stormwater and Dewatering
Wastewaters from Construction Activities
Application NO.: 201809790

Steve Broyer:

The Department of Energy and Environmental Protection, Water Permitting and Enforcement Division of the Bureau of Materials Management and Compliance Assurance, has completed the review of the Voluntown Solar (located at 1240 Voluntown Rd, Griswold) registration for the **General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, effective 10/1/13 (general permit)**. The project is compliant with the requirements of the general permit and the discharge(s) associated with this project is (are) authorized to commence as of the date of this letter. Permit No. GSN003354 has been assigned to authorize the stormwater discharge(s) from this project.

Questions can be emailed to deep.stormwater@ct.gov.