

Case No. 13-1355-EL-REN
Staff Interrogatories – Initial Set

Question 1: In Section A of the application, the facility street address is listed as “see lat/long”. Please provide the correct facility street address for our records.

Answer 1: The location of the facility is on an unaddressed portion of land given to us by the Village of Oak Harbor, so we cannot provide a physical address. We can provide easement information if necessary. The closest address to the array is in the next parcel over to the East of...

11709 Christiansen Road, Oak Harbor, OH 43449

Question 2: In Section G.2 of the application, you state that “the output of the facility will be monitored by two meters. The first meter would be based on the inverters. And the second meter would be a revenue grade meter.” For facilities that produce over 6kw we require proof of a utility grade meter. If this is not proven we cannot certify the facility. Please describe the utility grade system below.

Answer 2: In section N we provide the serial number and specifications of the utility (revenue) grade meter. Here is also the report from it.

Electro Industries / GaugeTech
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Calibration and Final Test Report

Model Shark 100T Software Ver 2.6.0 Config File Version 4 Performed By ella Serial Number 0125645831 Date 4/11/2013 Class 10 Frequency 60 Hz Part Number Shark100T-60-10-V3-D2-INP10	Start 9:25:10 End 10:41:20 Duration 1:16:10 V-Switch 3 <table border="1" style="font-size: small;"> <tr><td>Cal FW</td><td>54</td></tr> <tr><td>Run FW</td><td>51</td></tr> </table>	Cal FW	54	Run FW	51	Source FLUKE Model 5080A Serial No. 1614101 Reference RD-20-232 Serial No. 206612
Cal FW	54					
Run FW	51					

Voltage				Current			
	A	B	C		A	B	C
0 V	0.000V	0.000V	0.000V	0.000 A	0.000A	0.000A	0.000A
69 V	-0.007	0.002	-0.001	0.250 A	0.007	-0.009	-0.05
120 V	-0.003	-0.004	-0.004	0.500 A	0.008	0.01	-0.004
230 V	-0.002	0	-0.002	1.000 A	0.002	0.003	0.006
480 V	-0.005	-0.003	-0.002	5.000 A	0.002	0.001	0

VA					Frequency	
Value at	69 V	120 V	230 V	480 V	60Hz	
0.250A		-0.048			-0.005	Passed
0.500A		-0.031				
1.000A		-0.036				
5.000A	-0.057	-0.072	-0.056	-0.091		

Watts								
Value at	69V		120V		230V		480V	
	0 Deg.	-60 Deg.	0 Deg.	-60 Deg.	0 Deg.	-60 Deg.	0 Deg.	-60 Deg.
0.250A			-0.015	-0.011				
0.500A			0.001	0.023				
1.000A			0.015	0.001				
5.000A	-0.006	-0.017	-0.004	0.009	-0.061	-0.064	-0.039	-0.031

V-I Check		Passed	VA Check		Passed	W 0deg Check		Passed	W -60deg Check		Passed
Mean	-0.002		Mean	-0.056		Mean	-0.016		Mean	-0.013	
Median	-0.001		Median	-0.056		Median	-0.006		Median	-0.011	
Worst Error	-0.05		Worst Error	-0.091		Worst Error	-0.061		Worst Error	-0.064	
Records in Band	95.833		Records in Band	100		Records in Band	100		Records in Band	100	
Band Limit	+/-0.03		Band Limit	+/-0.1		Band Limit	+/-0.1		Band Limit	+/-0.2	

Final Test Checks	
Leds	Passed
Buttons	Passed
IrDA test	Passed
KYZ pulse test	Passed
Wh pulse test	Passed
Network test	Passed
Transducer Test	Passed

FINAL QA INSPECTION	
Paperwork	<input type="checkbox"/>
Physical	<input type="checkbox"/>
Power up	<input type="checkbox"/>
LED Test	<input type="checkbox"/>
RS-485	<input type="checkbox"/>
IRDA	<input type="checkbox"/>
Spike	<input type="checkbox"/>

Passed

0125645831

Question 3: In sections G.3 of the application you inserted a photo of two rows of solar panels. The system is stated to have a total of 2,464 panels however. Please submit a photo of the entire facility (at least the majority of the solar panels) for our records.

Answer 3: Here are the remaining photos taken of the site. All taken on 6/6/2013



Question 4: In section I.1 the nameplate capacity is listed as 0.45 MW. But in section G.4b you state the facility has 484 (230W) panels and 1980 (255w) panels. Since $484 \times 230W = 111,320W$ and $1980 \times 255W = 504,900W$, which combined equals 616,200W or 0.6162MW. Is the nameplate capacity 0.6162 MW?

Answer 4: The facility nameplate is .6162MW. I think the confusion here is that we used multiple panel types, and under the generating units section, we use the inverter as the generating unit because there are no provisions to input two different variables of generating units. So to clarify, the overall nameplate of the facility is .6162MW DC (given the multiple types of panels used), but the generating capacity of the project is only the maximum output of the inverters which matches the .45MW nameplate.

Question 5: In section M you state that the facility is a Municipal System. What city owns the system? If a city does not own the system, Section M must be adjusted to one of the other options for “type of generating facility”.

Answer 5: Solar Advocate Development owns the system but it is connecting via the municipal electric system of the Village of Oak Harbor via their permission. No interconnection was needed.

Distributed Generation, interconnected without net metering.

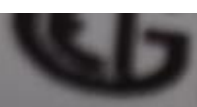
Identify the Utility: Village of Oak Harbor, Ohio

Question 6: In Section N the photo that you attached is not of the meter itself but of screen shots of the generation. Please provide a photo of the utility grade hardware so we have proof that you are using utility grade metering equipment.

Answer 6:





 **Electro Industries**
WedgeTech
Westbury, NY
www.electroind.com

SHARK

MULTIFUNCTION POWER

Covered by one or more of the following US patents:
6545181, 7271388, 7453884, 7515433, 7294997

Model:	SHARK 100T-60-10-V3-D2-INP10-DIN
Serial Number:	134-0125645831
Notes:	
Voltage Range:	(69 to 347)V~ L-N, 600V~max. L-L, CATIII
Current Range:	(0.005 to 10)A~
Frequency:	60Hz
	7VA, (90 to 265)V~50/60Hz, (100 to 370)V~

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Summary: Response Response to staff interrogatories electronically filed by Mr. Alex Yacques
on behalf of SOLAR PLANET