



Case Number: 14-1623-EL-REN

A. Generating Facility

Name of Renewable Generating Facility: 690 Taylor Road

The name specified will appear on the facility's certificate of eligibility issued by the Public Utilities Commission of Ohio.

Facility Location

Street Address: 690 Taylor Rd

City: Gahanna **State:** OH **County:** Franklin **Zip Code:** 43230

Facility Latitude and Longitude

Latitude: 40.004629 **Longitude:** -82.857859

There are internet mapping tools available to determine the latitude and longitude, if you do not have this information.

If applicable, U.S. Department of Energy, Energy Information Administration Form EIA-860 Plant Name and Plant Code.

EIA-860 Plant Name:

EIA Plant Code:

B. Legal Name of the Facility Owner

Please note that the facility owner name listed will be the name that appears on the certificate.

The address provided in this section is where the certificate will be sent.

If the facility has multiple owners, please provide the following information for each on additional sheets.

Legal Name of the Facility Owner: Duff Warehouses, Inc.

Legal Name of Facility Owner Representative: Susan Reardon

Title: Property Manager

Organization: Continental Realty

Street Address: 150 E Broad St #500

City: Columbus **State:** OH **Zip Code:** 43215

Phone: 6142211800 **Fax:**

Email Address: SReardon@continental-realty.com

Web Site Address (if applicable): <http://www.continental-realty.com/>

C. List the name, address, telephone number and web site address under which the Applicant will do business in Ohio

Legal Name of Facility Owner Representative: Susan Reardon
Title: Property Manager
Organization: Continental Realty
Street Address: 150 E Broad St #500
City: Columbus **State:** OH **Zip Code:** 43215
Phone: 6142211800 **Fax:**
Email Address: SReardon@continental-realty.com
Web Site Address (if applicable): <http://www.continental-realty.com/>

D. Name of Generation Facility Operating Company

Name of Generation Facility Operating Company: Duff Warehouses, Inc.
Legal Name of Contact Person: Nancy Winslow
Title: Owner
Organization: Duff Warehouses, Inc.
Street Address: 6851 Clum Rd.
City: Harrod **State:** OH **Zip Code:** 45850
Phone: 5673644050 **Fax:**
Email Address: NWinslow@midohio.twcbc.com
Web Site Address (if applicable): <http://www.continental-realty.com/>

E. Regulatory/Emergency Contact

Legal Name of Contact Person: Susan Reardon
Title: Property Manager
Organization: Continental Realty
Street Address: 150 E Broad St #500
City: Columbus **State:** OH **Zip Code:** 43215
Phone: 6142211800 **Fax:**
Email Address: SReardon@continental-realty.com
Web Site Address (if applicable): <http://www.continental-realty.com/>

F. Certification Criteria 1: Deliverability of the Generation into Ohio

Ohio Revised Code (ORC) Sec. 4928.64(B)(3)

The facility must have an interconnection with an electric utility.

Check which of the following applies to the facility's location:

Yes The facility is located in Ohio.

No The facility is located in a state geographically contiguous to Ohio (IN, KY, MI, PA, WV).

No The facility is located in the following state:

(If the renewable energy resource generation facility is not located in Ohio, Indiana, Kentucky, Michigan, Pennsylvania, or West Virginia, you are required to submit a POWER FLOW study by one of the regional transmission organizations (RTO) operating in Ohio, either PJM or Midwest ISO, demonstrating that the power from the facility is physically deliverable into the state of Ohio. This study must be appended to the application as an exhibit. THE FACILITY MUST BE INTERCONNECTED TO TRANSMISSION LINES. FOR ADDITIONAL INFORMATION ON DELIVERABILITY REQUIREMENTS, PLEASE REFER TO THE COMMISSION FINDING & ORDER of 3/23/11 IN CASE NO. 09-555-EL-REN.)

G. Certification Criteria 2: Qualified Resource or Technology

You should provide information for only one resource or technology on this application; please check and/or fill out only one of the sections below. If you are applying for more than one resource or technology, you will need to complete a separate application for each resource or technology.

G.1. For the resource or technology you identify in Sections G.4 - G.13 below, please provide a written description of the system.

The system is a 179kW DC solar PV system designed to provide power for the offices located at 690 Taylor Road. The system has the ability to utilize a jumper connection to maximize system output to the building up to 358kW DC to help meet the demand requirements for the building.

The system is comprised of 305 watt 72 cell PV Modules with a distributed architecture inverter system to supply usable power to the existing electrical service.

G.2. Please include a detailed description of how the output of the facility is going to be measured and verified, including the configuration of the meter(s) and the meter type(s).

The output of the array is going to be measured via a certified/calibrated revenue grade meter that is located at the smart control at the pad, with CT's located in the existing switchgear at the output of the system. This information is going to be transmitted via RJ45 connection to the internet and stored within a database through the Nextronex system. This information is readily available via the internet at any time for parsing.

G.3. Please submit digital photographs that depict an accurate characterization of the renewable generating facility. Please indicate the date(s) the photographs were taken. For existing facilities, these photographs must be submitted for your application to be reviewed. For proposed facilities or those under construction, photographs will be required to be filed within 30 days of the on-line date of the facility.

The Applicant is applying for certification in Ohio for a facility using one of the following qualified resources or technologies (Sec. 4928.01 ORC):

G.4 SOLAR PHOTOVOLTAIC

G.4a Location of the PV Array: Other

Description: Mounted on Carports

G.4b Total number of Modules: 1178

G.4.1 PV Modules

For each PV module, provide the following information:

G.4.1.a Manufacturer: Canadian Solar

G.4.1.b Model and Rating: CS6X-305-P 305W DC

H. Certification Criteria 3: Placed-in-Service Date (Sec. 4928.64. (A)(1) O.R.C.)

The Renewable Energy Facility:

No has a placed-in-service date before January 1, 1998; Date:

No has a placed-in-service date on or after January 1, 1998; Date:

No has been modified or retrofitted on or after January 1, 1998; Date:

Please provide a detailed description of the modifications or retrofits made to the facility that rendered it eligible for consideration as a qualified renewable energy resource. In your description, please include the date of initial operation and the date of modification or retrofit to use a qualified renewable resource. Please include this description as an exhibit attached to your application filing and identify the subject matter in the heading of the exhibit.

Yes Not yet online; projected in-service date: October 28, 2014

H.1 Is the renewable energy facility owner a mercantile customer? No

ORC Sec. 4928.01 (19) "Mercantile customer" means a commercial or industrial customer if the electricity consumed is for nonresidential use and the customer consumes more than seven hundred thousand kilowatt hours per year or is part of a national account involving multiple facilities in one or more states.

Has the mercantile customer facility owner committed to integrate the resource under the provisions of Rule 4901:1-39-08 O.A.C? No

If yes, please insert/submit a copy of your approved application as an exhibit to this filing.

I. Facility Information

I.a The nameplate capacity of the entire facility kilowatts (kW): 359.29 **(megawatts (MW):** 0.35929)

I.b If applicable, what is the expected heat rate of resource used per kWh of net generation:
BTU/kWh

I.1 For each generating unit, provide the following information:

<u>Unit In-Service</u> <u>Date</u>	<u>Unit Nameplate</u> <u>Capacity (MW)</u>	<u>Projected Gross</u> <u>Annual Generation</u>	<u>Expected Annual</u> <u>Capacity Factor %</u>	<u>Number of</u> <u>Generating Units</u>
10/28/14	0.000305	0.411	15.4	1,178

$$\text{Capacity Factor \%} = \frac{\text{Projected Annual Generation}}{\text{Nameplate Capacity} \times 8,760} \times 100$$

J. Regional Transmission Organization Information

In which Regional Transmission Organization area is your facility located:

Yes Within Geographic Area of PJM Interconnection, L.L.C.

No Within Geographic Area of Midwest ISO

No Other (specify):

K. Attribute Tracking System Information

Are you currently registered with an attribute tracking system: No

In which attribute tracking system are you currently registered or in which do you intend to register *(the tracking system you identify will be the system the PUCO contacts with your eligibility certification)*:

Yes GATS (Generation Attribute Tracking System)

No M-RETS (Midwest Renewable Energy Tracking System)

Other (specify):

K.1 Enter the generation ID number you have been assigned by the tracking system:

(If the generation ID number has not yet been assigned, you will need to file this number in the PUCO Case Docket within 15 days of the facility receiving this number from the tracking system).

K.2 Has any of the generation of the facility been tracked as RECS that have been sold or otherwise consumed? No

L. Other State Certification

Is the facility certified by another state as an eligible generating resource to meet the renewable portfolio standards of that state? No

L.1 If yes, for each state, provide the following information:

<u>Name of State</u>	<u>State Certification Agency</u>	<u>State Certification Number</u>	<u>Certification Date Issued</u>
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M. Type of Generating Facility

Please check all of the following that apply to the facility:

No Utility Generating Facility:

No Investor Owned Utility

No Rural Electric Cooperative

No Municipal System

No Electric Services Company (competitive retail electric service provider certified by the PUCO)

Yes Distributed Generation with a net metering and interconnection agreement with a utility.
Identify the Utility: **AEP**

No Distributed Generation with both on-site use and wholesale sales.
Identify the Utility:

No Distributed Generation, interconnected without net metering.
Identify the Utility:

N. Meter Specifications

Metering Requirements

- 1. If the renewable energy resource generating facility is 6 kW or below, the output may be measured with either an inverter meter or a utility grade meter.***
- 2. All facilities that are larger than 6 kW must measure the output of the facility with a utility grade meter. Facilities that are larger than 6 kW and that are not measuring output with a utility grade meter will not be certified. OAC 4901:1-40-04 (D)(1)***
- 3. Please only report on the meter or the meters used to measure the output from the facility which will be reported to the attribute tracking system.***

N.a The meter(s) that are measuring output from the facility are:

No Inverter Meter(s)

Yes Utility Grade Meter(s) (Must meet ANSI 12.1, or demonstrate an accuracy level of $\pm 2\%$)

N.1 Please provide the following information for each meter used in your system.

N.1.a Manufacturer: Electro Industries GaugeTech

N.1.b Serial Number: 134-0125645427

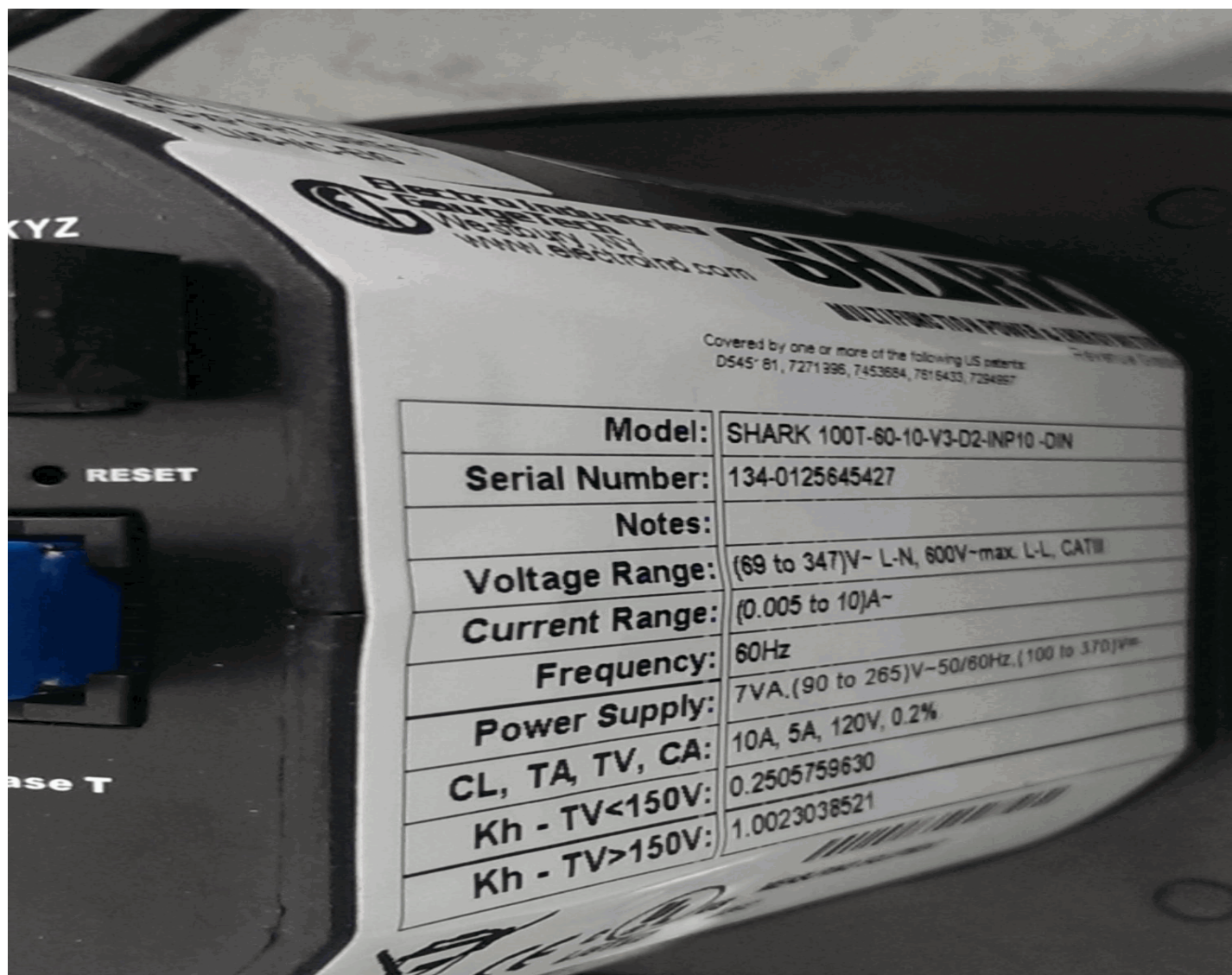
N.1.c Type: SHARK 100T

N.1.d Date of Last Certification: November 05, 2013

Attach a photograph of the meter(s) with date image taken. The meter reading(s) must be clearly visible in the photograph.

N.1.e Report the total meter reading number at the time the photograph was taken and specify the appropriate unit of generation (e.g., kWh): 0

9/16/2014 12:00:00AM



Electro Industries / GaugeTech
 1800 Shames Drive, Westbury, NY 11590-1730 USA
 Tel: 516-334-0870 * Fax: 516-334-3924
 Web Site: www.electroind.com

Calibration and Final Test Report

Model Shark 100T
 Software Ver 2.7.0
 Config File Version 5
 Performed By ella
 Serial Number 0125645427
 Date 11/5/2013
 Class 10
 Frequency 60 Hz
 Part Number Shark100T-60-10-V3-D2-INP10

Start 12:10:41
 End 13:29:29
 Duration 1:18:48

Source FLUKE
 Model 5080A
 Serial No. 1439003
 Reference RD-20-232
 Serial No. 206612

V-Switch 3
 Cal FW 54
 Run FW 51

Voltage			
	A	B	C
0 V	0.000V	0.000V	0.000V
69 V	-0.011	-0.014	-0.01
120 V	0.016	0.017	0.01
230 V	-0.003	-0.004	-0.005
480 V	-0.015	-0.018	-0.015

Current			
	A	B	C
0.000 A	0.000A	0.000A	0.000A
0.250 A	-0.009	0.011	0.043
0.500 A	0.001	-0.003	0.004
1.000 A	-0.001	0	0
5.000 A	-0.003	-0.004	-0.003

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

VA				
Value at	69 V	120 V	230 V	480 V
0.250A		-0.081		
0.500A		-0.041		
1.000A		-0.048		
5.000A	-0.085	-0.09	-0.072	-0.092

Frequency	
60Hz	-0.01 Passed

FINAL QA INSPECTION	
Paperwork	
Physical	
Power up	
LED Test	
RS-485	
IRDA	
Spike	

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			-0.007	-0.046				
0.500A			-0.017	-0.013				
1.000A			-0.019	-0.036				
5.000A	-0.02	-0.029	-0.009	-0.013	-0.003	-0.005	-0.015	-0.005

V-I Check	Passed	VA Check	Passed	W 0deg Check	Passed	W -60deg Check	Passed
Mean	-0.001	Mean	-0.073	Mean	-0.013	Mean	-0.021
Median	-0.003	Median	-0.081	Median	-0.015	Median	-0.013
Worst Error	0.043	Worst Error	-0.092	Worst Error	-0.02	Worst Error	-0.046
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

Passed

0125645427
 000001

QC: _____



Public Utilities Commission

Affidavit for Application for Certification as an Eligible Ohio Renewable Energy Resource Generating Facility

Please be advised that all applicant's contact information, including address and telephone number, will be made public and is not subject to confidential treatment. Additionally, any information pertaining to trade secrets contained within the application will be made public unless filed under seal with a motion for protective order, pursuant to Rule 4901-1-24 of the Ohio Administrative Code.

Case Number: 14-1623-EL-REN

Facility Name: 690 Taylor Road

Name of person making this affidavit: Alexandre Jacques

State of Ohio

County of Pickaway

The undersigned, being duly sworn according to law, deposes and says that:

1. I am authorized to and do hereby make this affidavit on behalf of the Applicant,
2. All facts and statements made in the application for certification, including all attachments and supplemental information or filings, are true and complete to the best of my knowledge, information, and belief,
3. The facility has obtained or will obtain and will maintain all required local, state, and federal environmental permits,
4. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.


_____, Program Manager
Signature of Affiant & Title

Sworn and subscribed before me this 15th day of September, 2014 Month/Year



Notary

My commission expires on

December 14, 2015



Trisha A. Caldwell
Notary Public, State of Ohio
My Commission Expires 12-14-2015

The Public Utilities Commission of Ohio reserves the right to verify the accuracy of the data reported to the tracking system and to the PUCO.

Version: June 3, 2013

This foregoing document was electronically filed with the Public Utilities

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in

Case No(s). 14-1623-EL-REN

Summary: Application Application for solar carports located at 690 Taylor Road Gahanna, Ohio 43230 electronically filed by Alexandre Yacques on behalf of Settle Muter Electric