

## INITIAL INSPECTION AND INTERCONNECTION FACILITY VERIFICATION

As part of the Initial Inspection process, Interconnection Customer will perform a one-time effort to (a) verify that the installed Interconnection Customer's Interconnection Facility matches the approved documents on file with Duke Energy, and (b) document the Duke POI right-of-way (ROW) access for Duke personnel.

This document describes Duke's requirements on the scope of the initial inspection process.

### 1. Interconnection Facility As-built Installation Evaluation

The interconnection facility as-built installation evaluation is to verify that the installed Interconnection Customer's Interconnection Facility matches the approved documents on file with Duke Energy: the latest approved single line diagram (SLD), the Interconnection Request, the Interconnection Agreement with any amendment.

Before the initial inspection, Duke will collect relevant documentation on file and prepare a summary of site information for the Interconnection Customer. In addition, the following materials of each facility will be provided to the customer.

1. The latest Interconnection Request Duke has on file
2. The Interconnection Agreement with any amendments
3. The latest SLD Duke has on file
4. A summary table of site information (see an example in appendix)
5. A report template in Microsoft Excel format

After the self-administered initial inspection of each facility, the Interconnection Customer shall provide the following materials back to Duke.

- a. Any updated SLD that would accurately reflect the as-built facility
  - The SLD shall list basic information of major equipment: meter, recloser, transformers, inverters, PV modules, etc.
- b. Report of the inverter data: quantity, manufacturer, model, kVA rating, serial number, manufacture date
  - Fill out the Excel report template with inverter data as much as possible.
  - Photos of the inverter's full nameplate and UL 1741 compliance label are required.
  - Inverter settings and other interconnection devices protection settings are addressed separately following the requirements in the **DER Functional Settings Document**.

- c. Report of the step-up transformer data: quantity, kVA rating, winding type, and grounding configuration
  - o Fill out the Excel report template with transformer data as much as possible.
  - o Photos of the transformer’s full nameplate are required.
- d. **Optional:** if the customer has any other document of the inspection process and results, e.g., customized inspection report, Duke Energy will collect the document to review and keep the record for future reference.

## 2. Duke POI Right-of-Way Access

After the self-administered initial inspection Interconnection Customers shall provide the photo proof of compliance with the requirements in the **Guidance Document for Right-of-way Access and Maintenance of Duke POI Facilities.**

Interconnection Customer shall provide one-time photographic documentation to Duke that right-of-way access for Duke POI facilities is being properly maintained in a manner consistent with Duke standards and requirements.

## Appendix

Table of Expected vs. As-Built Installation; Differing Information in Red

	<b>Expected by Duke Energy</b>	<b>As-Built Installation</b>
Site Name	Sample Solar, LLC	Sample Solar, LLC
Site Address	1234 First St. Anywhere, NC 12345	1234 First St. Anywhere, NC 12345
IPP Number	123abc	123abc
AC Output	4.975 MW	4.975 MW
Interconnection Voltage	22.86 kV	22.86 kV
Commenced Operation Date	12/21/2015	12/21/2015
Transformers (Quantity, Size, Primary/Secondary Grounding)	5, 1250 kVA, YG/yg (per IR); 5, 1200 kVA, YG/yg (per SLD dated 7/10/2014)	2, 1760 kVA, YG/y/y 2, 660 kVA, YG/y
Inverters (Quantity, Manufacturer, Model)	10, Advanced Energy, 500NX (per IR); 5, Advanced Energy, 1000NX (per SLD dated 7/10/2014)	4, SMA, Sunny Central SC 800CP-US 2, SMA, Sunny Central SC 750CP-US
Last Duke Energy Commissioning Test Date	None conducted	None conducted

## Revision History

Revision	Date	Comments
1.0	9/28/2021	Initial release
1.1	11/4/2021	Apply to all IC in general