

DRAFT: Response from DE to Energy Services for CESIR results Template, v1, February 2017

DATE: [January 1, 2017]

TO: [Customer Project Manager Name], Energy Services - Customer Project Manager

FROM: [Engineer Name], Distribution Engineering, System Design - Engineer

RE: [Applicant Name]
[Applicant Address]
Coordinated Electric System Interconnection Review (CESIR)
[DG Technology] distributed generation application
Application File No: MC – [123456]

Project Summary

[Example]

The customer presently has a [low tension, 3-phase, 120/208V] electric service. M&S plate [xx] indicates that the address has a [xx] service off the [xx] network/load area.

This project application includes the installation of a [xx] kW (AC) solar PV inverter system interconnected with Con Edison's distribution system under the **Net Metering (Rider R)** rate for a non-residential customer. The proposed system consists of [xx] paralleled inverters powered by solar panels. The documents submitted with the application show the selected inverters to be the same brand which is [Manufacturer] [xxkW, x-phase, voltage, 60 Hz inverter], Model [xx]. The inverter is listed on the NYS DPS's "Certified Interconnection Equipment" list. To be considered for parallel operation with Con Edison's distribution system, the customer's DG facility must meet all the requirements contained in the March 2016, New York State Public Service Commission's Standard Interconnection Requirements (SIR).

The account customer has authorized [Contractor Name and Company] to act on their behalf in the installation and application process of this DG project.

Coordinated Electrical System Interconnection Review Results

We have reviewed this customer's design and have found that the design of this DG facility, as shown in this revision of the diagram, [does/does not meet] the basic design requirements of the New York State Public Service Commission SIR.

[If the design does meet design requirements:

Please forward an executed Appendix A to the Customer with the following design review comments (below) for their follow up action. The applicant may begin construction in accordance with this utility-accepted design. All comments below must be addressed and approved before the applicant requests an inspection.

[If the design does not meet design requirements:

In order to move forward, the applicant must indicate in writing that the customer is committing to one of the options for project revisions or utility upgrades described below. If upgrades are required, the Applicant has 60 business days to pay at least 25% of the costs and 120 business days to provide full payment. Upon full payment the applicant may begin construction and the utility will commence construction of system modifications.]

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Design Review Comments

1. As applicable, description of system upgrades and associated equipment, and an estimate of total cost

2. [Drawing Comments]

Resubmit the Three-Line Diagram (Drawing Name 'PV System Line Diagram', Revision Date [xx]) to fix or include the following key points:

- a. [example] Indicate the incoming service characteristics on the drawing, including voltage and cable size.
- b. [example] Please differentiate between all new and existing equipment.
- c. [example] Please include the existing PV system on the drawing since an updated drawing with all generating equipment has to be posted near the utility meter and the Generator Disconnect Switches.
- d. [example] Indicate the drawing number.
- e. [example] Indicate the changes made in the revision in the Issues/Revisions box.

3. [Equipment Specifications]

[example]: Please provide the manufacturer's cut-sheet for the generator disconnect switch. Note that the generator disconnect switch has to be an external, manual, visible, gang operated load break disconnect switch to meet the requirements of the SIR.

4. [Testing Procedures]

Include the following items to the Pre-Operation Verification Test Procedure, in addition to the steps already submitted:

- a. [example]: For the grid outage test showing that all inverters will immediately stop producing during a utility outage simulated by the opening of the generator disconnect switch, indicate that the test is for [xx] inverters and list them in the test procedure.
- b. [example]: For the time delay test for inverter startup verifying inverters do not start producing for a minimum of 5 minutes upon return of the utility source simulated by the closing of the generator disconnect switch, indicate that the test is for [xx] inverters and list them in the test procedure.
- c. [example]: Refer to all equipment operated in the verification test as it is labeled on the three-line diagram.
- d. [example]: Include the location of all equipment operated in the verification test.

5. [Other]

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[example]: There is existing distributed generation at this location. The submitted SIR Appendix B indicates that there is not. Resubmit a signed copy of the SIR Appendix B to indicate there is existing distributed generation, provide information about the existing generation and include the details on the electrical drawing.

General requirements for all DG interconnections:

- A. Provide the load dispatcher name and phone number you wish to appear in the First Amendment (document to follow). Note that this contact is required to be available at this phone number 24 hours, 7 days a week. The contact will need to be available for communications regarding emergency operation of customer equipment and may need to provide access to their equipment if necessary.
- B. The generator disconnect switch (intertie disconnect) shall provide a visible break, manual, gang-operated, load break, lockable, and accessible isolating device.
- C. At the location, and on the drawing, identify and clearly label the "DEVICE 89 - GENERATOR DISCONNECT SWITCH" with permanent 3/8 inch letters or larger.
- D. The panel board housing the inverter circuit breakers should be labeled "DEVICE 52IT PANEL" with the individual breakers labeled as 52IT-1, 52IT-2, et cetera, to correspond with the associated inverter.
- E. Labeling of all inverters, junction boxes, combiner boxes, array strings, and fuses at the site is required.
- F. Field installation and one/three-line diagram should match 100%. All equipment concerning the DG installation at this site should be shown on this diagram. The system diagram must comply with Con Edison's System Diagram checklist.
- G. Any revisions to the one/three-line diagram should include an updated revision number, date, and comments on the diagram that briefly indicate the changes made. This must be uploaded to Project Center and approved before any inspection is conducted by Con Edison.
- H. Per the NYS SIR, the verification testing procedure will need to be performed every four years and results logged.
- I. All documentation and proper drawings should be submitted and approved prior to the testing and commencement of operation of your equipment. This includes certified relay test reports where applicable.
- J. The one-line diagram shall be laminated and displayed on site within close vicinity of the Con Edison revenue meter and any other generator disconnects downstream. Signage at the revenue meter should include that the meter is fed from two sources. Additional signage shall also be included as to the location of the disconnect switch.

Testing and Inspection

Please make an appointment with the CPM, **[name]** for a verification test and inspection once construction is complete and all documentation is submitted and drawings are approved. **Note**

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that a verification test will not be scheduled until the installation passes DOB or local municipality inspection and ALL outstanding items have been addressed. Please refer to the Con Edison Verification Testing Checklist before requesting an inspection.

The generator-owner/contractor shall be responsible for ongoing compliance with all applicable local, state, and federal codes and standardized interconnection requirements as they pertain to the interconnection of the generating equipment. Note that the New York State Building Code may require additional certifications.

Please forward the above review findings to the application agent.

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