Instructions for One-Line Diagram and Sample Diagram

The Customer's one-line diagram is one of the most important parts of the Net Metering Application. The one-line diagram is used by the Company during the review and approval process, and again during field testing and meter installation.

A good diagram can greatly shorten the Company review period and helps expedite the Company's field testing and meter installation. Inconsistencies between the diagram and the actual installation as-built are cause for rejection at the final testing and meter installation.

The diagram does not need to be overly complex, but accuracy and clarity are critical. The sample diagram below is for a typical PV System and is very simple, but it contains the required technical information for the Company. An accurate and complete connection diagram is also important because the design and installation of these systems is not routine.

At a minimum, the one-line diagram must show how the system components are connected electrically and should show equipment part numbers and physical locations. Some of this may be on the application form as well, but having the information on a single document speeds the reviews and field inspections.

The one-line diagram should provide the following information:

a. Generator (PV Panels, Wind Turbine, Hydro Turbine, etc.) - Include manufacturer, part number, nameplate maximum capacity (kW), and physical location. For modular systems (ex. pv panels), also include: number of modules, configuration, nameplate maximum capacity of each module, and total nameplate maximum capacity.
b. Inverter - Include manufacturer, type or series, part number, serial number, nameplate maximum capacity (kW), output voltage, physical location.
c. Disconnect Switch - Include the physical location relative to the Company Service Meter.
d. Electrical Service Panel -Include the panel or main breaker size and the position at which the generation is connected. Show all panels (if there are multiple panels or subpanels) even if not directly connected into the generation system.
e. The Company Service Meter - Include existing meter serial number, meter form, and class
f. PV System Output Meter Base – Include meter form, class, and physical location. Location within 5' of the Company Service meter.
g. Other Related Equipment (battery banks, transfer or bypass switches, backup generators, etc.)

[Sample Drawings-Next Page]

Office Use:

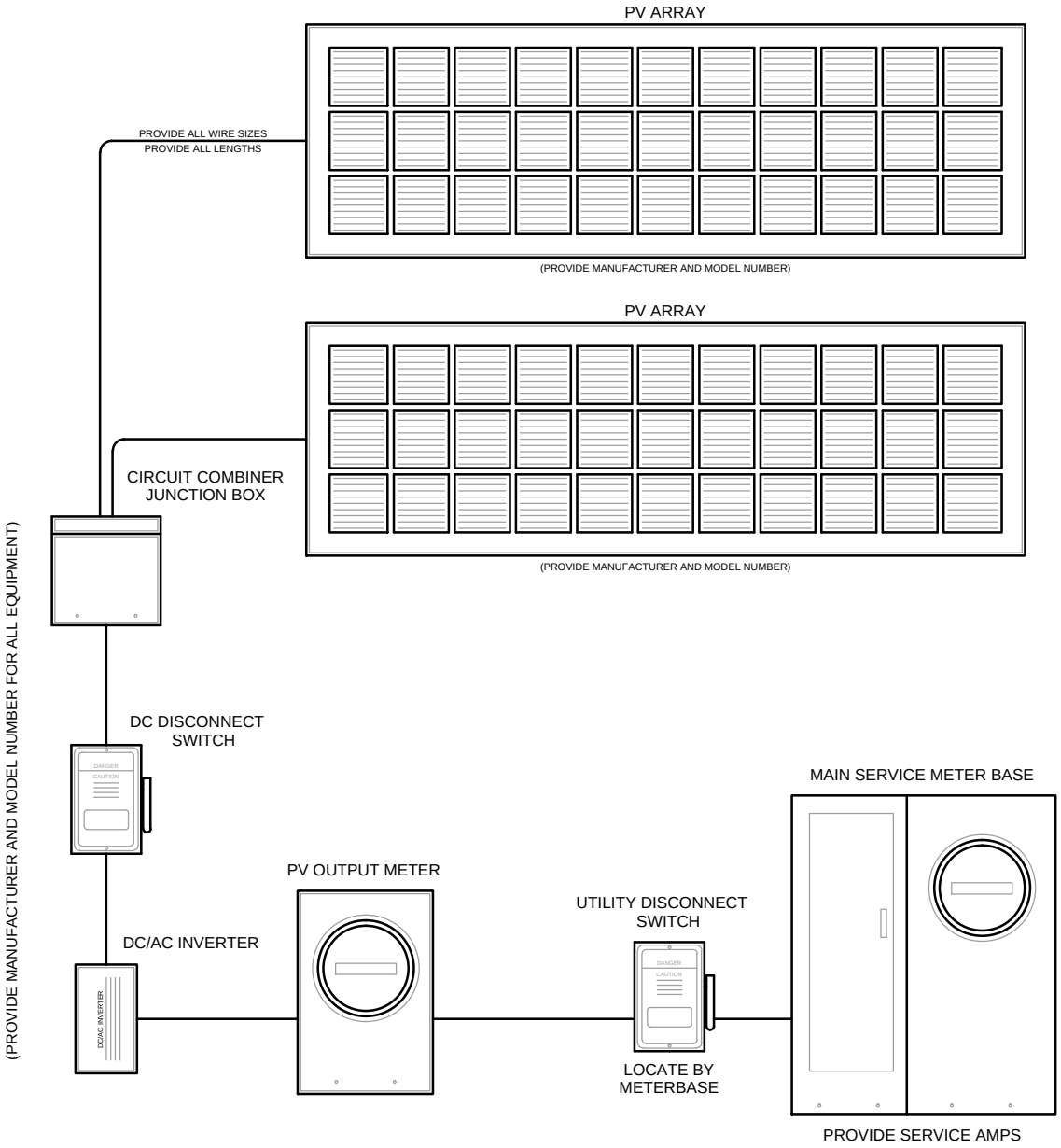
Circuit Number for Installation: _____. Facility □ does □ does not exceed circuit or system limitation in current circuit study.

Customer orientation completed: Date:_____

Approved By:_____ Date:_____

Disapproved By: _____ Date: _____ Reasons for Disapproval: _____

Customer Notified of Grounds for Disapproval: By:_____ Date: _____



NET METERING NOTES:

1. PROVIDE ALL WIRE SIZES AND LENGTHS
2. PROVIDE ALL PART MANUFACTURERS AND MODEL NUMBERS
3 PROVIDE SERVICE SIZE IN TOTAL AMPS
4. PROVIDE A GENERAL SITE PLAN DIAGRAM
5. PROVIDE ALL FUSE SIZES

HEBER LIGHT & POWER
NET METERING DIAGRAM
TYPICAL NET METERING SYSTEM

HEBER LIGHT & POWER
NET METERING
SCALE: NONE
DATE: 05/23/2016
REV: A