

CERTIFIED COMPONENTS:

A nationally recognized testing laboratory must certify all the components in a residential or commercial generation system. These certifications are to include but are not limited to the following:

1. Photovoltaic modules shall meet the requirements of the Underwriters Laboratory (UL) Standard 1703.
2. Inverters shall meet the requirements of UL 1741.
3. Overall system design and individual component specifications shall be in accordance with this standard and California Electric Code Book (CEC) Article 690.

METERING:

Metering will be applicable for generation systems up to 1 MW in capacity. Metering will be provided by the City of Lodi in accordance with the established Rules and Regulations Section 21.H. After the customer has paid all appropriate fees and all paperwork is completed and approved, the City will set a Meter rated for the voltage supplied. Billing will be in accordance with the established City of Lodi Electric Rate Schedule.

GENERATION METERING:

All Photovoltaic Systems must be installed with a generation meter socket to receive a City of Lodi supplied meter so that the City and the customer can monitor and measure the system's generation.

VISUAL OPEN LOCKABLE AC DISCONNECT:

A visual open lockable AC disconnect device (Square D DU221RB or approved equal) shall be installed between the alternate energy source and the alternate energy source meter. This disconnect must be within 10' of the Main Service Entrance Panel, on the same wall surface/face and must be accessible to the City at all times.

LABELING:

Photovoltaic systems must be labeled in accordance with the requirements of this standard. All labels shall be affixed in a permanent manner appropriate to the installed device.

Drawing name: M:\DATA\CAD\Standards\Spec\09420240_1.dwg Plotted: Oct 23, 2017 - 11:09am

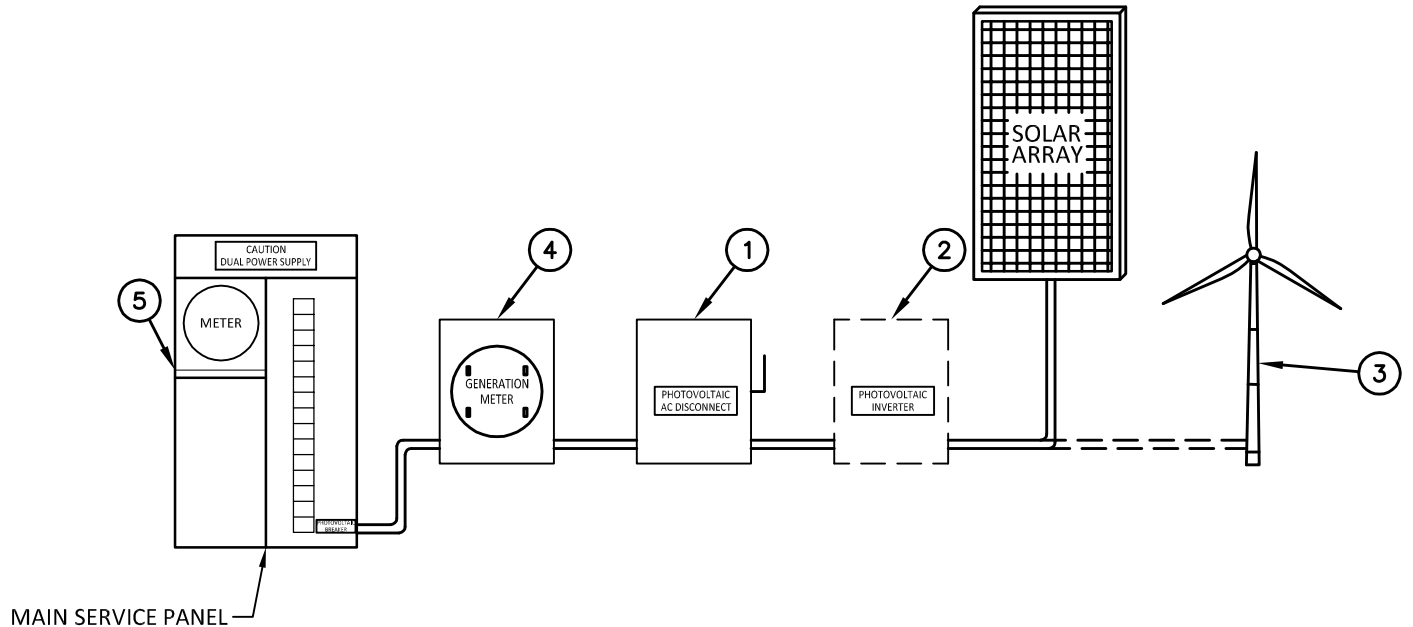
5	ADDED BATTERY BACKUP SPECIFICATIONS	10/23/17	RT	HS	HS
4	PV SYSTEM CHANGED FROM NEM TO EP	7/26/17	RT	HS	HS
3	PV SYSTEM CHANGE TO NET METER STYLE	1/12/16	CW	TC	HS
No.	REVISIONS	DATE	BY	CK'D	APP'D



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

ENGINEERING STANDARD
GENERATION METERING

03/31/06	EF	EF	AMS	04-03-06	SHEET 1 OF 4	942 0240
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 5	



NOTES:

- ① A/C DISCONNECT SHALL BE MANUALLY OPERATED, LOCKABLE AND HAVE A VISIBLE OPEN POINT. A/C DISCONNECT ACCESSIBLE TO CITY OF LODI AT ALL TIMES AND SHALL BE MOUNTED WITHIN 10' OF THE MAIN SERVICE ENTRANCE PANEL AND ON THE SAME WALL SURFACE/FACE.
- ② THIS IS FOR REFERENCE ONLY IF STAND ALONE INVERTERS ARE USED.
- ③ THIS SPECIFICATION SHALL BE USED FOR ALL RENEWABLE ENERGY SOURCES (EX. P.V., WIND, BIO-MASS GENERATORS, ETC.)
- ④ GENERATION METER SOCKET UPPER JAWS (SOURCE) SHALL BE WIRED FROM THE PHOTOVOLTAIC INVERTER/SOLAR ARRAYS. GENERATION METER SOCKET LOWER JAWS (LOAD) SHALL BE WIRED TO THE PHOTOVOLTAIC BREAKER IN MAIN SERVICE PANEL PANEL.
- ⑤ NO WORK SHALL OCCUR ON THE UTILITY SIDE OF THE MAIN SERVICE BREAKER. THE PHOTOVOLTAIC SYSTEM SHALL BE CONNECTED ON THE LOAD SIDE OF THE MAIN SERVICE BREAKER.

ALL ELECTRICAL CONSTRUCTION MUST MEET CITY OF LODI MUNICIPAL CODES AND CALIFORNIA ELECTRIC CODE BOOK REQUIREMENTS.

Drawing name: M:\DATA\CADStandards\Spec\0942\0240_2.dwg Plotted: Oct 23,2017 - 11:33am

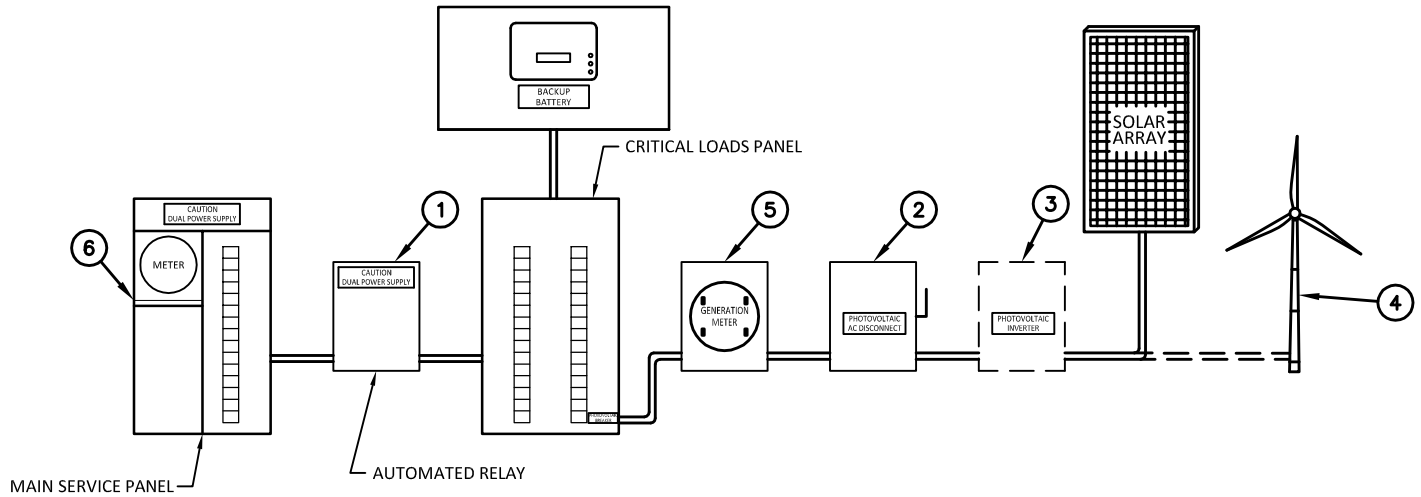
No.	REVISIONS	DATE	BY	CK'D	APP'D
5	ADDED BATTERY BACKUP SPECIFICATIONS	10/23/17	RT	HS	HS
4	PV SYSTEM CHANGED FROM NEM TO EP	7/26/17	RT	HS	HS
3	PV SYSTEM CHANGE TO NET METER STYLE	1/12/16	CW	TC	HS



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

ENGINEERING STANDARD
GENERATION METERING

10/23/17	BG	HS	<i>HZ</i>	<i>HZ</i>	SHEET 2 OF 4	942 0240
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 5	



NOTES:

- ① AUTOMATED RELAY SHALL DISCONNECT UTILITY CONNECTION AUTOMATICALLY IN THE EVENT OF A LOSS OF UTILITY POWER. (INCLUDE MANUFACTURER SPECIFICATIONS FOR EQUIPMENT ALONG WITH SUBMISSION TO LODI ELECTRIC UTILITY DEPARTMENT.)
- ② A/C DISCONNECT SHALL BE ACCESSIBLE TO CITY OF LODI AT ALL TIMES AND SHALL BE MOUNTED WITHIN 10' OF THE MAIN SERVICE ENTRANCE PANEL AND ON THE SAME WALL SURFACE/FACE.
- ③ THIS IS FOR REFERENCE ONLY IF STAND ALONE INVERTERS ARE USED.
- ④ THIS SPECIFICATION SHALL BE USED FOR ALL RENEWABLE ENERGY SOURCES (EX. P.V., WIND, BIO-MASS GENERATORS, ETC.)
- ⑤ GENERATION METER SOCKET UPPER JAWS (SOURCE) SHALL BE WIRED FROM THE PHOTOVOLTAIC INVERTER/SOLAR ARRAYS. GENERATION METER SOCKET LOWER JAWS (LOAD) SHALL BE WIRED TO THE PHOTOVOLTAIC BREAKER IN CRITICAL LOAD PANEL.
- ⑥ NO WORK SHALL OCCUR ON THE UTILITY SIDE OF THE MAIN SERVICE BREAKER. THE PHOTOVOLTAIC SYSTEM SHALL BE CONNECTED ON THE LOAD SIDE OF THE MAIN SERVICE BREAKER.

ALL ELECTRICAL CONSTRUCTION MUST MEET CITY OF LODI MUNICIPAL CODES AND CALIFORNIA ELECTRIC CODE BOOK REQUIREMENTS.

Drawing name: M:\DATA\CADStandards\Spec\0942\0240_3.dwg Plotted: Oct 23, 2017 - 11:32am

No.	REVISIONS	DATE	BY	CK'D	APP'D
5	ADDED BATTERY BACKUP SPECIFICATIONS	10/23/17	RT	HS	HS
4	PV SYSTEM CHANGED FROM NEM TO EP	7/26/17	RT	HS	HS
3	PV SYSTEM CHANGE TO NET METER STYLE	1/12/16	CW	TC	HS



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

ENGINEERING STANDARD
GENERATION METERING WITH BATTERY BACKUP

10/23/17	BG	HS	<i>HZ</i>	<i>HZ</i>	SHEET 3 OF 4	942 0240
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 5	

LABELS SHOWN AT MINIMUM SIZE

①

**CAUTION
DUAL POWER SUPPLY**

②

**PHOTOVOLTAIC
BREAKER**

③

**PHOTOVOLTAIC
AC DISCONNECT**

④

**PHOTOVOLTAIC
INVERTER**

NOTES:

1. LABELS SHALL BE MADE OF RED PLASTIC MATERIAL WITH ENGRAVED WHITE LETTERS.
2. "PHOTOVOLTAIC BREAKER" LETTER TO BE 1/8" MINIMUM IN HEIGHT, ALL LETTERING SHALL BE 1/4" MINIMUM IN HEIGHT.

Drawing name: M:\DATA\CADStandards\Spec\09420240_4.dwg Plotted: Oct 23, 2017 - 11:14am

No.	REVISIONS	DATE	BY	CK'D	APP'D
5	ADDED BATTERY BACKUP SPECIFICATIONS	10/23/17	RT	HS	HS
4	PV SYSTEM CHANGED FROM NEM TO EP	7/26/17	RT	HS	HS
3	PV SYSTEM CHANGE TO NET METER STYLE	1/12/16	CW	TC	HS



CITY OF LODI
ELECTRIC UTILITY DEPARTMENT

ENGINEERING STANDARD
GENERATION METERING
(LABELING REQUIREMENTS)

03/31/06	EF/RT	EF	<i>AMS</i>	<i>[Signature]</i> 04-03-06	SHEET 4 OF 4	942 0240
DATE	DRAWN	DESIGNED	CHECKED	APPROVAL	REVISION 5	