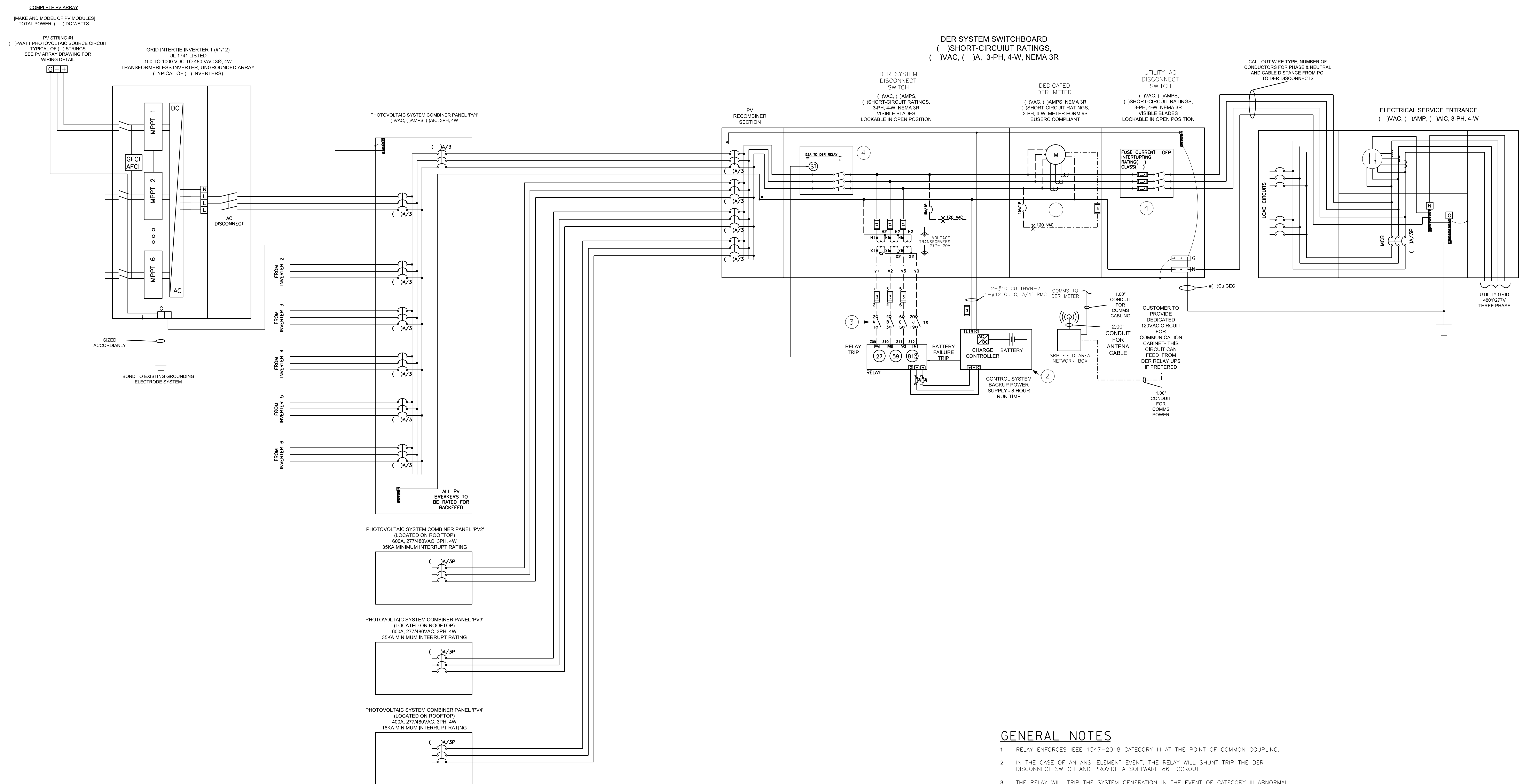


THREE LINE DRAWING TO SHOW SRP REQUIREMENTS FOR A CLASS III PV SYSTEM OVER 1MW



KEYED NOTES:

1. THE DEDICATED DER METER SOCKET SHALL BE FOUR-WIRE WYE-STYLE 13 JAW CT RATED SOCKET. A NEUTRAL AND GROUND BOND ARE REQUIRED. THE METER SOCKET SHALL BE EUSERC COMPLIANT.
2. RELAY UPS, THE DER SWITCHBOARD CPT, GFR CPT AND RELAY UPS POWER SUPPLIES SHALL NOT PARALLEL IF THEY ARE FROM SEPERATE TRANSFORMERS.
3. DER RELAY SENSING POTENTIALS SHALL BE LANDED ON FT-1 STYLE TEST SWITCH AND SHALL NOT SHARE SWITCH WITH 52A AND SHUNT TRIP CUTOUT. 52A AND SHUNT TRIP WIRES SHALL BE LANDED ON SEPERATE CUTOUT PER RELAY SCHEMATIC. TEST SWITCH AND CUTOUT SWITCH SHALL HAVE UNIQUE PLACARDS IDENTIFYING FUNCTIONALITY OF SWITCH. EACH SWITCH BLADE SHALL BE IDENTIFIED WITH FUNCTIONALITY OF BLADE AND LABELLED CORRECTLY.
4. THE DER SYSTEM DISCONNECT SWITCH OR THE UTILITY AC DISCONNECT SWITCH MAY BE USED FOR SHUNT TRIPPING REQUIREMENTS. DER EQUIPMENT TO INCLUDE RELAY, COMM CABINET AND DER METER SHALL REMAIN IN POWER BY UTILITY WHEN SHUNT TRIP DISCONNECT IS OPEN.

THIS SAMPLE DRAWING IS FOR ILLUSTRATION PURPOSES ONLY AND IS NOT TO BE USED FOR DESIGN OR CONSTRUCTION. THIS DRAWING AND ITS SUITABILITY FOR END USE IS NOT IMPLIED. THE INTENT IS ONLY TO ILLUSTRATE TYPICAL MINIMUM INFORMATION REQUIRED AT THE TIME OF APPLICATION TO SRP. ADDITIONAL INFORMATION MAY BE REQUIRED.

GENERAL NOTES

- 1 RELAY ENFORCES IEEE 1547-2018 CATEGORY III AT THE POINT OF COMMON COUPLING.
- 2 IN THE CASE OF AN ANSI ELEMENT EVENT, THE RELAY WILL SHUNT TRIP THE DER
DISCONNECT SWITCH AND PROVIDE A SOFTWARE 86 LOCKOUT.
- 3 THE RELAY WILL TRIP THE SYSTEM GENERATOR IN THE EVENT OF CATEGORY III ABNORMAL
CONDITIONS FROM IEEE-1547-2018 AND/OR BATTERY TROUBLE.
- 4 LOCKOUT CAN ONLY BE CLEARED MANUALLY AFTER RESTORATION OF GRID TO ANSI THRESHOLDS.
- 5 PROTECTION SYSTEM TO BE TESTED EVERY 5 YEARS BY AN APPROVED TESTING AGENCY.
- 6 VERIFY UPS AND BATTERY VOLTAGE ARE SAME AS RELAY POWER AND CONTROL VOLTAGE
AND VERIFY ALARM CONTACT VOLTAGE FROM UPS IS APPROPRIATE FOR RELAY INPUT.
- 7 LABEL SENSING POTENTIAL CUTOUTS AS WELL AS 52A STATUS AND TRIP CUTOUTS
WITH PLACARDS MOUNTED ABOVE CUTOUTS.
- 8 SENSING POTENTIAL TEST SWITCH SHALL BE SEPERATE FROM INPUT AND OUTPUT CUTOUTS.
- 9 ALL WIRES ASSOCIATED WITH RELAY SYSTEM SHALL BE LABELLED AND LANDED ON TERMINAL
BLOCKS TO FACILITATE WIRING SYSTEM CORRECTLY. WIRE NUTS SHALL NOT BE USED IN
THIS SCHEME.

NOTES:

1. WITHIN EACH INDIVIDUAL INTERCONNECTION APPLICATION, A SITE PLAN, ONE LINE, THREE LINE, AND LABEL SHEET SPECIFIC FOR EACH PROJECT WILL NEED TO BE UPLOADED INTO POWERCLERK FOR ENGINEERING REVIEW. IN ADDITION FOR SITES OVER 1MW A UNIQUE PROTECTION SCHEMATIC WILL BE REQUIRED FOR EACH PROJECT SUBMITTED IN POWERCLERK.
2. ALL DESIGN DRAWINGS FOR A DER SITE GREATER THAN 300KW MUST BE STAMPED BY AN ELECTRICAL PE REGISTERED IN THE STATE OF ARIZONA.
3. EQUIPMENT SHALL HAVE SHORT CIRCUIT CURRENT RATINGS EQUAL TO OR GREATER THAN THE AVAILABLE FAULT CURRENT SUPPLIED BY SRP. SEE SRP ESS AVAILABLE ONLINE FOR SCC SPECIFIC TO CUSTOMERS SES.
4. UNUSED DISCONNECT SWITCHES WILL BE EVALUATED AT IOKA SCCR. IF DESIGN UTILIZES SERIES RATINGS, FOR DISCONNECTS BASED ON UPSTREAM OVERCURRENT PROTECTION APPROPRIATE DERIVATIVE SHALL BE INCLUDED IN DESIGN FOR EACH LOCATION. MARKINGS FOR SERIES RATING WILL BE REQUIRED AT BOTH DISCONNECTS PER THE NEC.

	001	10/2024	MCA	MCA	PCM	PCM
REV NO.	PROJECT NO.	DATE	D5GN ENGR	DFT8R	DESIGN CHECK	ISSUE APPRD
			中国代理商 - 上海泽尔森			
XXX KW DC/ XXXKW AC PV THREE LINE DIAGRAM ADDRESS LINE 1 ADDRESS LINE 2						
SCALE: NONE			CLASS III 1MW			
SUBJ CODE	DISJC CODE	DMG SIZE				
0L	E8	30x42				