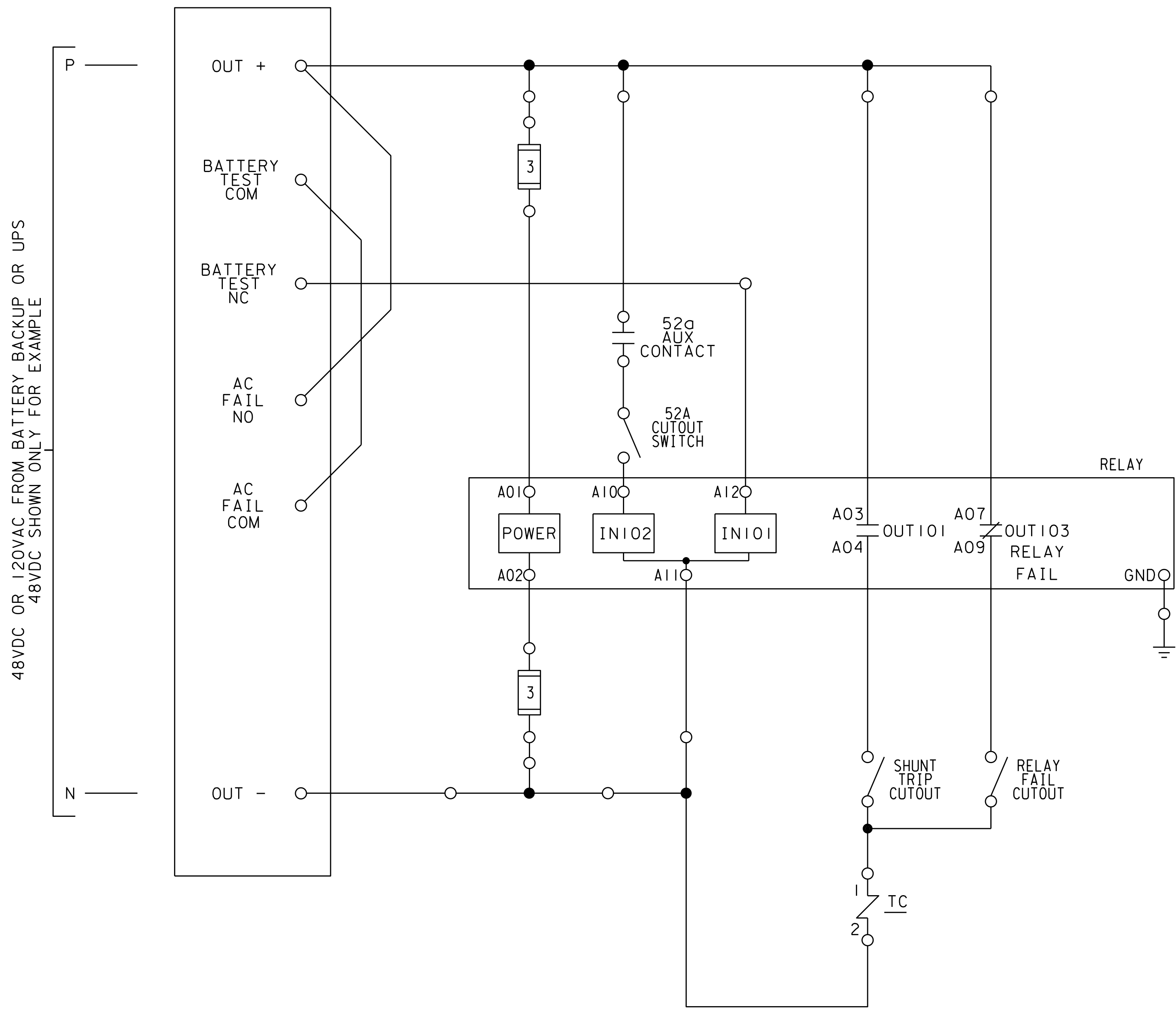


THIS SAMPLE RELAY SCHEMATIC FOR A CLASS III (1MW AND LARGER) PV SYSTEM, IS INTENDED TO SHOW THE LEVEL OF DETAIL REQUIRED TO PASS SRP TECHNICAL REVIEW.

SAMPLE RELAY SCHEMATIC



RELAY NOTES:

- RELAY ENFORCES IEEE 1547 2018 CATEGORY-III AT THE POINT OF INTERCONNECTION.
- IN THE CASE OF AN ANSI ELEMENT EVENT, THE RELAY WILL SHUNT TRIP THE DISCONNECT SWITCH AND PROVIDE A SOFTWARE B6 LOCKOUT.
- THE RELAY WILL TRIP THE SYSTEM GENERATION IN THE EVENT OF RELAY FAULTS AND/OR BATTERY FAULTS.
- LOCKOUT CAN ONLY BE CLEARED MANUALLY AFTER RESTORATION OF GRID TO ANSI THRESHOLDS.
- PROTECTION SYSTEM TO BE TESTED EVERY 5 YEARS BY AN APPROVED TESTING AGENCY.
- VERIFY UPS AND BATTERY VOLTAGE ARE SAME AS RELAY POWER AND CONTROL VOLTAGE. VERIFY ALARM CONTACT VOLTAGE FROM UPS IS APPROPRIATE FOR RELAY INPUT.
- LABEL SENSING POTENTIAL CUTOUTS AS WELL AS 52A STATUS AND TRIP CUTOUTS WITH PLACARDS MOUNTED ABOVE CUTOUTS.
- SENSING POTENTIAL TEST SWITCH SHALL BE SEPERATE FROM OTHER CUTOUTS.
- ALL WIRES ASSOCIATED WITH RELAY SYSTEM SHALL BE LABELLED AND LANDED ON TERMINAL BOARDS. WIRE NUTS SHALL NOT BE USED IN THIS SCHEME.

NOTES:

- 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 SYSTEMS OVER 1MW A UNIQUE PROTECTION SCHEMATIC WILL BE REQUIRED FOR EACH PROJECT SUBMITTED IN POWERCLERK.
- SYSTEMS INSTALLED IN AREAS WHERE THE AHJ DOES NOT PROVIDE A CITY CLEARANCE, DESIGN DRAWINGS MUST BE STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARIZONA, AND THE CUSTOMER MUST PROVIDE A SIGNED CERTIFICATE-IN-LIEU OF CLEARANCE FOLLOWING COMPLETION OF ALL WORK.

SAMPLE CONNECTION DIAGRAM

