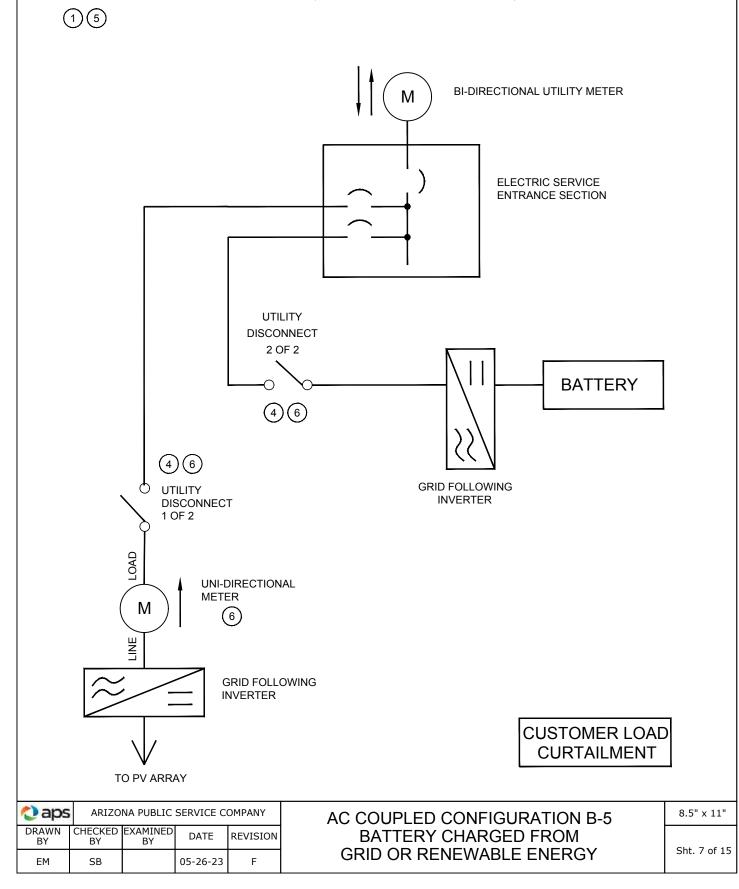
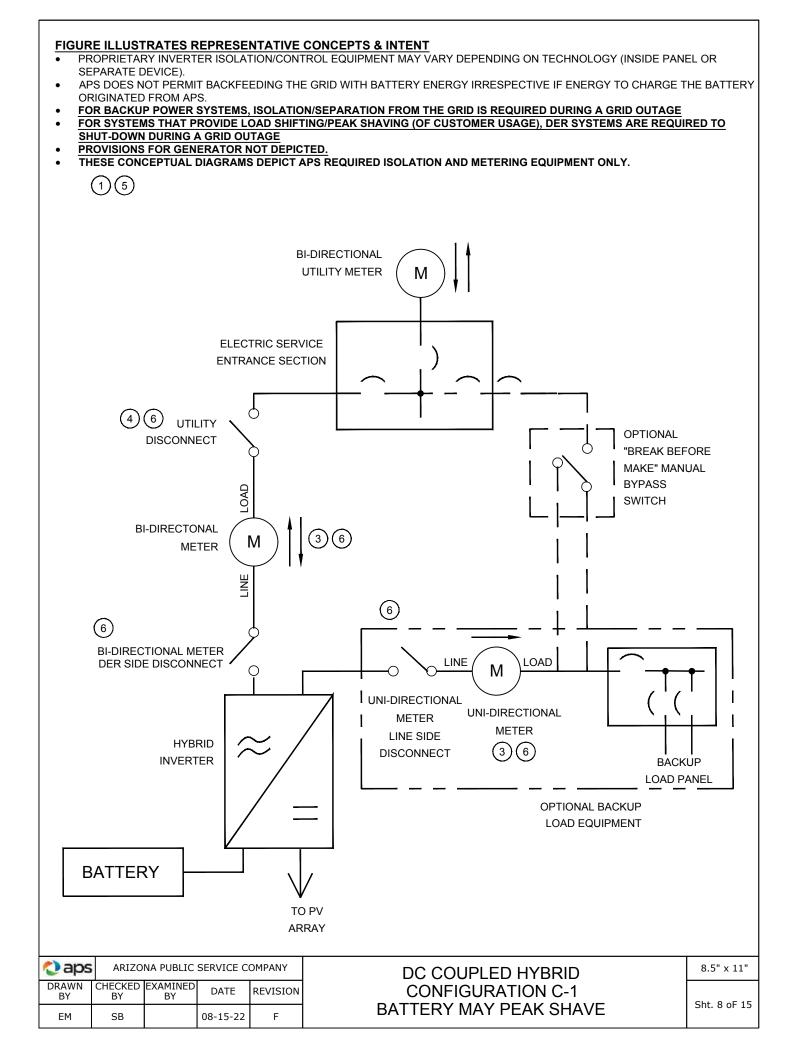
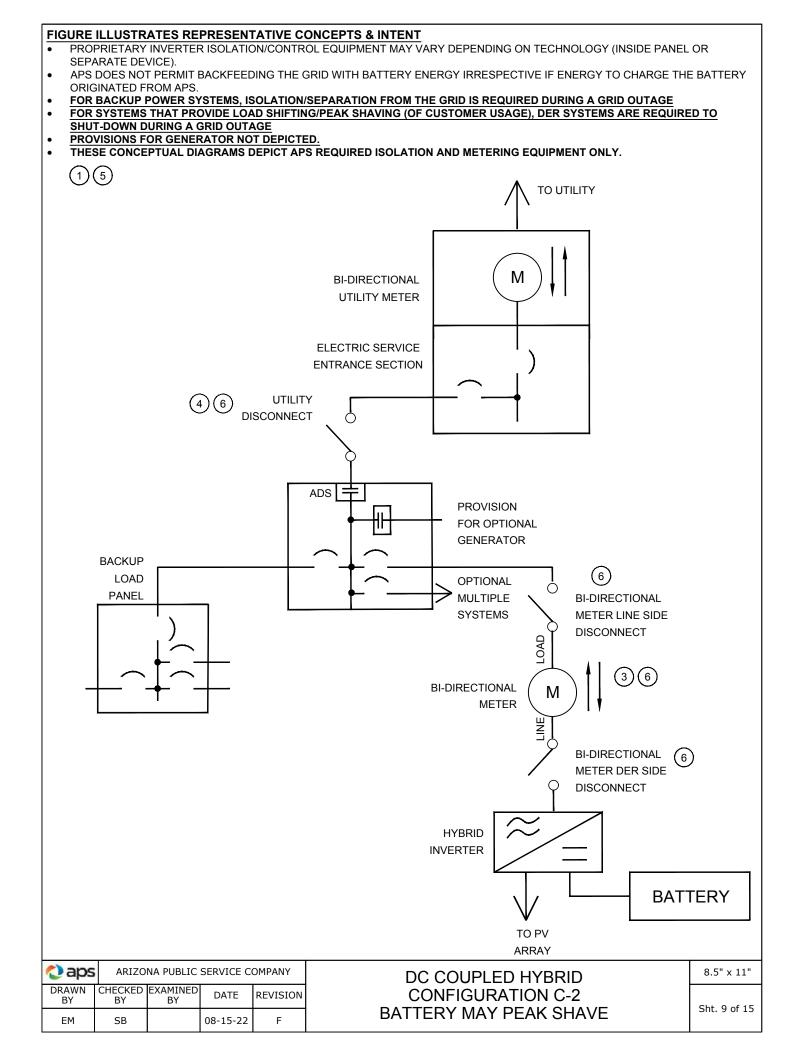


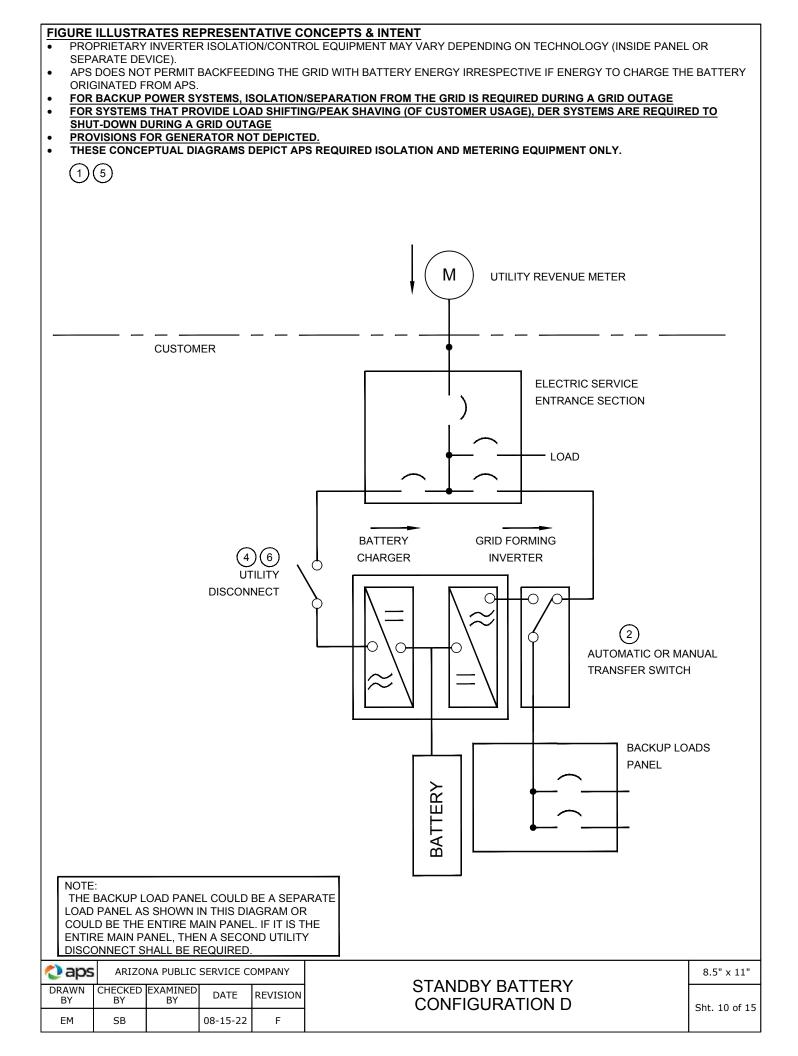


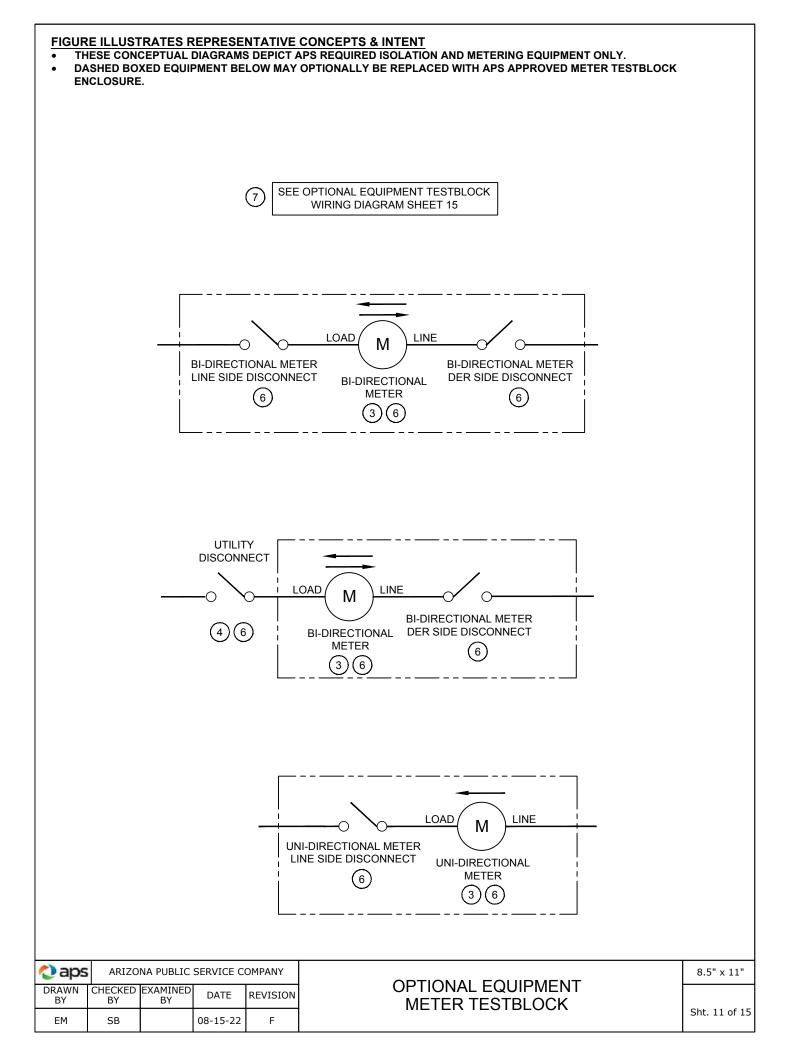
- PROPRIETARY INVERTER ISOLATION/CONTROL EQUIPMENT MAY VARY DEPENDING ON TECHNOLOGY (INSIDE PANEL OR SEPARATE DEVICE).
- APS DOES NOT PERMIT BACKFEEDING THE GRID WITH BATTERY ENERGY IRRESPECTIVE IF ENERGY TO CHARGE THE BATTERY
   ORIGINATED FROM APS.
- FOR BACKUP POWER SYSTEMS, ISOLATION/SEPARATION FROM THE GRID IS REQUIRED DURING A GRID OUTAGE
- FOR SYSTEMS THAT PROVIDE LOAD SHIFTING/PEAK SHAVING (OF CUSTOMER USAGE), DER SYSTEMS ARE REQUIRED TO
  SHUT-DOWN DURING A GRID OUTAGE
- PROVISIONS FOR GENERATOR NOT DEPICTED.
- THESE CONCEPTUAL DIAGRAMS DEPICT APS REQUIRED ISOLATION AND METERING EQUIPMENT ONLY.











K	EY NOTES	
	Il Customer equipment shall be installed and maintained by the Customer in accordance with the local AHJ, NEC and APS. If irisdictional authority is responsible, a Letter In-Lieu of Electrical Clearance shall be required following completion of all work.	no
th re	ER systems with storage utilized to serve a Customer back-up load panel will require an Automatic Disconnect Switch (ADS) is the Customer back-up system in the event of a utility outage. The Customer is responsible for selecting and installing any device equired to affect this transfer. The ADS may be integrated into a DER storage system, inverter/battery charger or may be a septexice.	es
3 DI	ER systems with storage installed in a stand-alone application shall include an associated meter socket and disconnects as sl	nown.
⊖ c	he Utility Disconnect shall be connected between the Electric Service Entrance Section (SES) and DER system as shown. The ustomer-fused disconnect required for residential or commercial DER systems with a short circuit rating greater than 10 kA sh connected between the SES and Utility Disconnect.	
	he SES, Utility Disconnect, production meter socket(s) and meter disconnects shall be grouped together within a maximum dis 0' with no obstructions and Readily Accessible per APS ESRM.	stance of
	EXCEPTION: If conditions prohibit grouping the Utility Disconnect(s), production meter socket(s) and meter disconnect(s) v 10' of the SES, the production meter socket(s) and associated Utility Disconnect and meter isolation disconnect(s be grouped together at an alternate location; however, APS approval is required. The alternate location must be a Readily Accessible location per APS ESRM. The SES shall have signage indicating an interconnected generator, express concise directions to the location of the Utility Disconnect, the production meter socket and meter isolation disconnect as applicable. The Utility Disconnect shall have signage with express concise directions to the location the SES.	) shall a and n
	The Utility Disconnect, production meter socket(s) and meter disconnect(s) shall be a minimum of 36" from any natural gas or water bib in accordance with the APS ESRM Section 301.25.	vent
	If the SES is upgraded, a new SES may require relocation to meet present APS ESRM requirements. Consult an APS Des representative.	gn
	abel equipment as shown. Accurate labeling is crucial for APS personnel for safety and efficiency and avoids meter set fails a iultiple truck rolls.	nd
	BATTERY CONFIGURATION	8.5" x 11
AVVIN BY	BY BY DATE REVISION NOTES	

ΕM

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05-26-23

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