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Technical Product Notes

Installing a manual bypass switch for an NV7600 installation.

DATE CREATED:	TN NUMBER:	PREPARED BY:
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CHALLENGE:
Prevent service interruptions to the loads in the backup panel loads when the ESS Hybrid inverter is under maintenance or experiences a fault.

SOLUTION:
Install a manual transfer switch that can be used to provide grid power to the back uploads panel during inverter maintenance.

Install a Manual Bypass Switch:

1. Positioning: Install the manual bypass switch between the inverter AC load output and the backup loads panel.
2. Grid Connection: Install a 60A 2-pole breaker from the main service panel to the AC grid input breaker of the manual bypass switch.
3. Inverter Connection: Connect the inverter AC output to the 60A AC input breaker on the manual bypass switch.
4. Output Connection: Connect the combined output of the manual bypass switch (main lug terminals) to the backup loads panel.
5. Breaker Interlock: Install the SQ-D QO mechanical breaker interlock bracket.
6. Compliance: Ensure the entire installation adheres to local codes.

Example Parts List for Manual Bypass Switch:

- Square D QO 100 Amp 8-Space 16-Circuit Fixed Main Lugs Outdoor Load Center (1) (Model # QO816L100RBCP) (1)
- QO 60Amp Two-Pole Circuit Breaker (Part # QO260CP) (2)
- Square D QO Mechanical Breaker Interlock Kit (Part # QO2DTI) (1)

ATTACHMENTS

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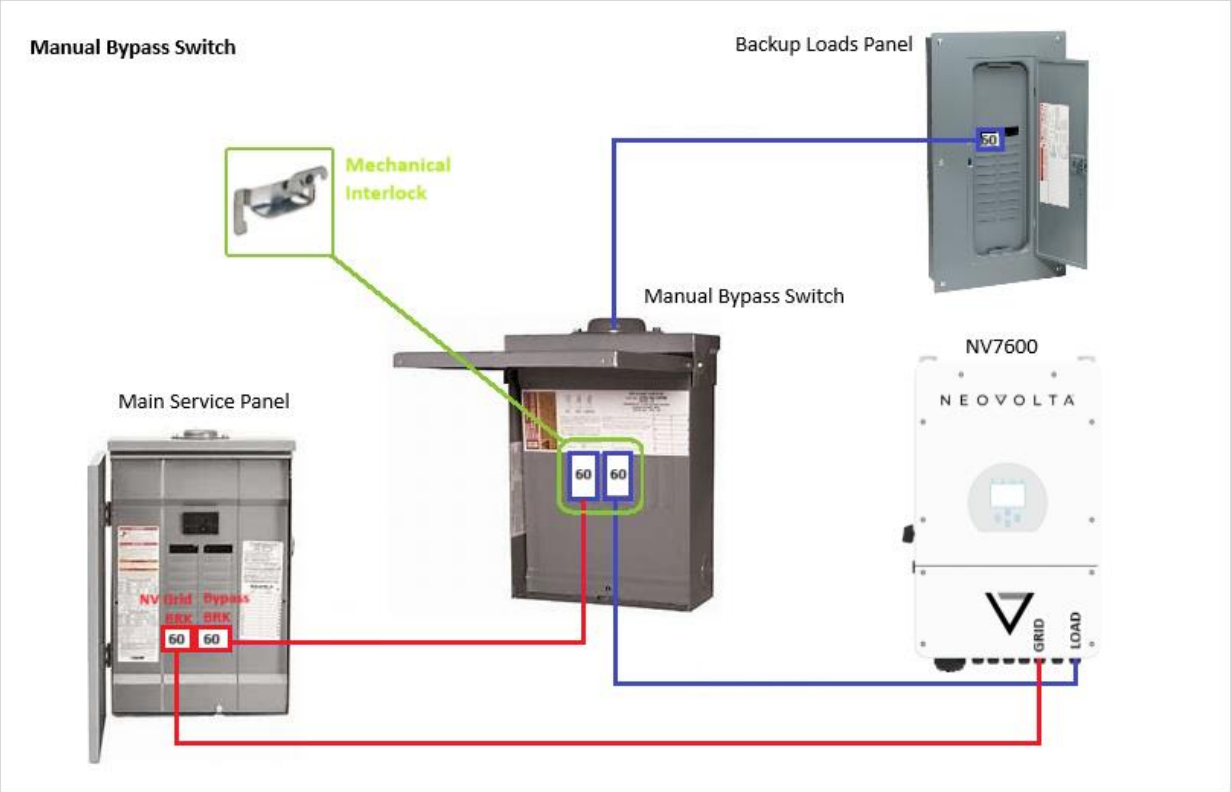
Single Line Diagram



Version	Revision Date	Brief Description of Change
V1.0	12/16/2025	Document numbering updated from TN-003 to TN-NV7600-002. Updated formatting.