

# QC Electrical Panelboards Checklists

## Section 26.24.16

<p>Panelboard short-circuit rating equals or exceeds available fault current at installation location, confirmed against latest coordination study.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Main breaker and bus bar ampere rating match panelboard nameplate and upstream conductor ampacity without derating violations.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Equipment grounding conductor is landed on dedicated grounding bar and bonded to panelboard enclosure with listed hardware creating a continuous grounding path.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Neutral bar remains isolated from enclosure and grounding bar in sub-feed panels; bonding screw or strap removed where required by system design.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>All feeder and branch conductors are terminated on lugs at manufacturer-specified torque values using calibrated torque tools; torque values recorded.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="border: 1px solid #ccc; padding: 2px 5px;">FTQ</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="background-color: red; color: white; padding: 2px 5px;">✗</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Phase conductors are landed on bus stabs in correct A-B-C rotation consistent with project phasing schedule and upstream gear.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Clear working space in front of panelboard meets NEC 110.26 dimensions (width of enclosure or 30 in, depth 36 in, height 6.5 ft) and is free of obstructions.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Panelboard enclosure is plumb, level, and securely mounted to structural backing with required number and type of fasteners per manufacturer seismic/anchorage details.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Unused openings and knockouts in panelboard cabinet are closed with listed filler plates to maintain enclosure integrity and fire rating.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="border: 1px solid #ccc; padding: 2px 5px;">FTQ</span> <span style="background-color: #90EE90; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Branch circuit breakers installed are listed for the panelboard series and match circuit ampacity and type (AFCI, GFCI, HACR, etc.) per circuit schedule.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Bus bars and interior assembly show no visible damage, corrosion, or contamination prior to energization; insulation barriers are intact.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Copper or aluminum conductors are landed with approved anti-oxidant compound where required for aluminum terminations.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="border: 1px solid #ccc; padding: 2px 5px;">FTQ</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="background-color: red; color: white; padding: 2px 5px;">✗</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Circuit directory card is complete, typed or neat block lettering, accurately describing each breaker load and updated after wiring completed.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Permanent engraved phenolic nameplate identifying panel designation and source is installed on enclosure exterior per labeling standard.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Arc-flash hazard label displaying incident energy or PPE category is affixed to door and matches latest arc-flash study results.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Panelboard cabinet ground fault path continuity verified by low-resistance measurement (&lt;1 ohm) from enclosure to building grounding electrode system.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="border: 1px solid #ccc; padding: 2px 5px;">FTQ</span> <span style="background-color: #90EE90; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Conductors entering panelboard are protected by listed bushings or grommets preventing insulation damage at knockout edges.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="border: 1px solid #ccc; padding: 2px 5px;">FTQ</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="background-color: red; color: white; padding: 2px 5px;">✗</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>
<p>Deadfront cover closes without interference, all mounting screws installed, and door latch operates smoothly restricting access to live parts.</p> <p>Observations</p>	<div style="display: flex; align-items: center; gap: 10px;"> <span style="background-color: green; color: white; padding: 2px 5px;">✓</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">QC</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">OPN</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">NA</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">📷</span> <span style="border: 1px solid #ccc; padding: 2px 5px;">☰</span> </div>