

QC Electrical Short-Circuit Studies Checklists

Section 26.05.73.13

<p>Approved short-circuit study covering the entire electrical distribution system is present on site and dated after the latest field change order.</p> <p>Observations</p>	<input checked="" type="checkbox"/> <input type="checkbox"/> QC <input type="checkbox"/> OPN <input type="checkbox"/> NA <input type="checkbox"/> <input type="checkbox"/>
<p>Calculated available fault current at service entrance equipment does not exceed the interrupting rating of the installed main service disconnect or overcurrent device.</p> <p>Observations</p>	<input checked="" type="checkbox"/> <input type="checkbox"/> QC <input type="checkbox"/> OPN <input type="checkbox"/> NA <input type="checkbox"/> <input type="checkbox"/>
<p>For each switchboard, switchgear, and panelboard, device interrupting ratings and bus bracing equal or exceed the study-calculated fault current posted for that location.</p> <p>Observations</p>	<input checked="" type="checkbox"/> <input type="checkbox"/> QC <input type="checkbox"/> OPN <input type="checkbox"/> NA <input type="checkbox"/> <input type="checkbox"/>
<p>Current-limiting fuses or molded-case breakers used for fault-current mitigation match the manufacturer, type, and ampere rating specified in the short-circuit study.</p> <p>Observations</p>	<input type="checkbox"/> FTQ <input checked="" type="checkbox"/> <input type="checkbox"/> OPN <input type="checkbox"/> NA <input type="checkbox"/> <input type="checkbox"/>
<p>Series-rated combinations are UL-listed and match the exact upstream-downstream device pair and conductor length documented in the short-circuit study.</p> <p>Observations</p>	<input checked="" type="checkbox"/> <input type="checkbox"/> QC <input type="checkbox"/> OPN <input type="checkbox"/> NA <input type="checkbox"/> <input type="checkbox"/>
<p>Electronic trip circuit breakers have Long-Time, Short-Time, and Instantaneous settings left at the values assumed in the short-circuit study and are locked or sealed after setting.</p> <p>Observations</p>	<input type="checkbox"/> FTQ <input checked="" type="checkbox"/> <input type="checkbox"/> OPN <input type="checkbox"/> NA <input type="checkbox"/> <input type="checkbox"/>
<p>Field changes to feeder conductor size, length, or routing are incorporated into a revised short-circuit study before system energization.</p> <p>Observations</p>	<input checked="" type="checkbox"/> <input type="checkbox"/> QC <input type="checkbox"/> OPN <input type="checkbox"/> NA <input type="checkbox"/> <input type="checkbox"/>
<p>Utility available fault-current data sheet or letter used in the study is on file and its issue date matches or predates the study revision.</p> <p>Observations</p>	<input checked="" type="checkbox"/> <input type="checkbox"/> QC <input type="checkbox"/> OPN <input type="checkbox"/> NA <input type="checkbox"/> <input type="checkbox"/>
<p>Permanent labels on distribution equipment fronts display available fault current values and equipment interrupting ratings per the study, including the calculation date.</p> <p>Observations</p>	<input checked="" type="checkbox"/> <input type="checkbox"/> QC <input type="checkbox"/> OPN <input type="checkbox"/> NA <input type="checkbox"/> <input type="checkbox"/>
<p>Equipment found with inadequate interrupting rating has been replaced or supplemented with mitigation measures identified in the study, and corrective work is documented.</p> <p>Observations</p>	<input type="checkbox"/> FTQ <input type="checkbox"/> QC <input checked="" type="checkbox"/> <input type="checkbox"/> NA <input type="checkbox"/> <input type="checkbox"/>
<p>Short-circuit study results and stamped one-line diagram are included in the O&M manuals delivered to the owner prior to substantial completion.</p> <p>Observations</p>	<input checked="" type="checkbox"/> <input type="checkbox"/> QC <input type="checkbox"/> OPN <input type="checkbox"/> NA <input type="checkbox"/> <input type="checkbox"/>
<p>Protective device catalog numbers installed on site match the equipment list within the short-circuit study, with any discrepancies resolved and recorded.</p> <p>Observations</p>	<input checked="" type="checkbox"/> <input type="checkbox"/> QC <input type="checkbox"/> OPN <input type="checkbox"/> NA <input type="checkbox"/> <input type="checkbox"/>