

Construction Site Primary Distribution Box Acceptance



Overview

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Key Takeaways

Acceptance of a primary distribution box on a construction site involves verifying design compliance, performing site acceptance tests, and ensuring proper installation and load matching.Design and Documentation Review

Before installation, the primary distribution box must comply with utility and industry standards. This includes reviewing contract drawings, one-line and three-line diagrams, control schematics, and grounding systems. All equipment specifications, including switchgear, breakers, and transformers, should be submitted for approval by the utility or project authority to ensure compliance with safety and operational requirements . Manufacturer details, test equipment calibration, and relay settings should also be documented .

Installation and Site Preparation



The distribution box should be installed in a suitable enclosure, such as a wall-mounted or support-mounted technopolymer cabinet, with fire-resistant backrests for safety and reusability . The site must be prepared for proper grounding, environmental protection (IP65 or higher), and accessibility for maintenance . Load matching is critical: the box must handle the highest voltage and current requirements of all connected equipment, including temporary construction tools and machinery .

Site Acceptance Testing (SAT)

Acceptance involves a Site Acceptance Test (SAT), which ensures the distribution box and associated primary equipment function correctly. Key SAT stages include :

- Multicore termination checks and AC/DC system commissioning
- Component-level testing for primary and secondary equipment
- CT/VT circuit checks, switchgear operation, and control scheme verification
- Protection scheme tests, stability tests, and trip tests
- On-load tests and post-commissioning verification All tests must be documented on standardized test forms, including expected values, test results, and verification by the appointed utility staff . Any defects must be logged and addressed before final acceptance.

Inspection and Compliance

The distribution box should be inspected for:

- Correct circuit identification and labeling
- Proper breaker and fuse ratings
- Compliance with safety standards (e.g., EN IEC 61439, IP65/IP67, IK08/IK10)
- Adequate ventilation and protection against environmental hazards

Final Acceptance

Once all tests pass and documentation is verified, the primary distribution box can be commissioned. The utility or project authority will provide final approval, ensuring the box is ready for safe operation and capable of supplying power to construction site loads . By following these steps, the primary distribution box will meet both technical and regulatory requirements, ensuring safe and reliable power distribution on the construction site.

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Safety requirements of distribution box

The distribution box has the characteristics of small size, simple installation, special technical performance,

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D5000 General Electrical Requirements

This Section outlines the requirements for Site Electrical Distribution at the Los Alamos National Laboratory that were applicable at

New Equipment Services: Site acceptance testing & power

Proper verification services include performing power system studies (short-circuit, coordination and arc flash), as well as, field

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The Acceptance Checklist (see below) is noted with dates for each item, and signed off by the TR and forwarded to the CO. 9.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

