

# Acceptance Testing

[www.IndustrialTests.com](http://www.IndustrialTests.com)



## Who Does the Testing?

In most cases, this question comes down to a choice between two parties: the equipment manufacturer's field service organization, or an independent testing company.

The major disadvantage of using the manufacturer for acceptance testing is the obvious conflict of interest. Warranty issues may not get addressed when the manufacturer is testing their own equipment.

Conversely, the major advantage of using an independent testing company is just that: their independence from the equipment manufacturer. Because 3rd party independent companies, like Industrial Tests do not represent any single manufacturer of electrical equipment, they have no potential conflict of interest in identifying problems. Also Industrial Tests, can perform electrical upgrade and repair work in addition to testing. With our longstanding commercial relationships with contractors and OEMs we have the ability to resolve problems during the start-up phase of a project.

## Industrial Tests Is The Answer

Industrial Tests is the first choice among contractors in California for Acceptance Testing. We bring the best test equipment, tools, engineers and technicians to the job site. As a privately owned, certified Small Business, we are truly a 3rd party independent testing company with no affiliation to any other organization.

## What is Acceptance Testing?

Field acceptance testing is formally recognized in industry standards covering major electrical equipment, such as those produced by the American National Standards Institute (ANSI), the Institute of Electrical and Electronic Engineers (IEEE), InterNational Electrical Testing Association (NETA), and the National Electrical Manufacturers Association (NEMA). In general, acceptance testing under these standards consists of electrical tests to verify the integrity of insulation, and condition of contacts, etc.

In addition to these tests, an acceptance testing program should include verification of mechanical integrity and functional performance. Mechanical integrity includes verifying that the equipment is properly installed, connections are tightened properly, and mechanisms are properly adjusted, etc. Functional performance verification applies to any operation, interlock, or control system that requires a step-by-step procedure for testing, such as bus transfer schemes or ground fault protection.

The goal of acceptance testing is similar to that of preventive maintenance: to identify and prevent potential unscheduled failure of the equipment while in service. The decision process for the scope and extent is also similar: The cost of testing should be justified by the avoided cost of an unscheduled failure or its impact on personnel safety and the mission of the facility. In most facilities, the cost of testing every single motor or branch circuit breaker would not be justified, although in a critical data center or semiconductor production facility it may be.

**CALL 1(888) 809-8550**

