



Services Provided By Collins Electrical

De-Energized Testing

- De-energize all listed pieces of equipment to perform the following services.
- Perform Contact Resistance to determine the amount of resistance in Microhms within a given connection such as breaker contacts or bolted buss connections.
- Exercise all listed breakers before & after performing Contact Resistance and review the findings.
- If readings on bolted buss connections are beyond thresholds CECI will tighten, torque connections and re-test.
- Perform Insulation Breakdown Testing (Megger) on all pertinent pieces of equipment to measure in Megohms the breakdown between conductive and non-conductive materials, such as wire or insulators.
- Clean and vacuum all listed pieces of equipment to remove excessive dust and debris.

Where applicable

- Primary Injection Testing.
- Secondary Injection Testing.
- Insulation Resistance Testing, Winding Resistance Testing, Turns Test Ratio, Oil Sample analysis.
- Contact Resistance.
- Ground Fault Testing
- Relay Testing.
- Medium and High Voltage Testing.

Reporting

- Hard Copy Report
 1. Documentation of Nameplate Data consisting of all visible information as it pertains to that particular piece of equipment including; breaker type, number of breakers used, fuse type, wire size, amperage, voltage ratings etc.
 2. Documentation of equipment location, manufacturer, model #, and facility nomenclature.
 3. Documentation of problems found inclusive of Problem Description, Problem Resolution, Consequences, and additional Safety Notes.
 4. Documentation of problem by means of infrared photos, digital photos and variables such as True RMS Current, Total Harmonic Distortion (Current), and Voltage Drop across the contacts.

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- Electronic Reporting
 1. Interactive registered software that enables one to access all gathered information at the click of a mouse.
 2. The ability to print out multiple Hard Copy reports as needed.
 3. Comments Page that allows user to write comments on any piece of equipment tested.
 4. The ability to Track and Trend all pieces of equipment tested.

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