EMERSON. Your partner in Electrical Reliability

Maximize the reliability and efficiency of your electrical assets

Electrical power is the pulse of your plant. It’s vital to your operations — but also dangerous and costly. When your electrical assets fail, profits and people can suffer.

In North America, rely on Emerson’s Electrical Reliability Services team to deliver the most complete solutions for electrical system reliability and safety. From testing for problems that could disable your system, to complete turnaround execution, you’ll quickly understand how we are your single source solution for all your electrical reliability needs. With a network of more than 30 service locations in North America, we put experienced professionals where and when you need them. We help you build reliability programs from the beginning to get your process plant moving towards maximum capacity and minimal risk of unexpected delays.

Please use this complimentary guide to NETA recommended maintenance testing frequencies and intervals to maximize the results of your reliability-based testing program. Trust Emerson to deliver the experience and results you can rely on.

Our Services Include:
- Commissioning and Startup
- Arc Flash Solutions
- Engineering Services
- Predictive Diagnostics
- Preventive Maintenance
- Partial Discharge Testing and Monitoring Solutions
- Smart Turnarounds™ and Outages
- Retrofit / Renew / Replace
- Product Compliance & Conformity Testing
- Project Management
- Educational Services
- Emergency Response Services


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Electrical Reliability Services is committed to providing objective, unbiased test results and recommendations. With ERS, you are assured that all testing is performed objectively, according to NETA specifications, using calibrated instruments traceable to the National Institute of Standards and Technology (NIST).

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Frequency of Maintenance Testing Guide
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For over 35 years, Electrical Reliability Services, an Emerson Network Power business, has served as the industry leader providing safe, high quality electrical testing, maintenance, and engineering services to more than 15,000 customers nationwide. As an independent testing company, ERS is committed to providing unbiased test results and recommendations.

The InterNational Electrical Testing Association recognizes that the ideal maintenance program is reliability-based, unique to each plant and to each piece of equipment. The following schedule is a guide to NETA recommended testing and maintenance intervals and should be used in conjunction with a qualified maintenance program.

WHILS, you are assured that all testing is performed objectively, according to NETA specifications, using calibrated instruments traceable to the National Institute of Standards and Technology (NIST).

This Frequency of Maintenance Tests guide is a useful schedule of NETA approved testing frequencies that corresponds directly with the NETA Standard For Maintenance Testing Specifications. Specific condition, criticality, and reliability must be determined to correctly apply the matrix. Application of the matrix along with the culmination of historical testing data and trending should provide a quality electrical preventive maintenance program.

### Inspections and Tests

| Frequency of Maintenance Tests | 12 | 12 | 24 | 12 | 12 | 24 | 12 | 12 | 12 | 12 | 12 | 24 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

**Maintenance Period Matrix**

<table>
<thead>
<tr>
<th>Equipment Reliability Requirement</th>
<th>Low</th>
<th>Medium</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poor</td>
<td>0.50</td>
<td>1.0</td>
<td>1.5</td>
</tr>
<tr>
<td>Average</td>
<td>0.25</td>
<td>0.50</td>
<td>0.75</td>
</tr>
<tr>
<td>Good</td>
<td>0.12</td>
<td>0.25</td>
<td>0.375</td>
</tr>
</tbody>
</table>

**Notes**

- **Switchgear and Switchboard Assemblies**
- **Transformers**
- **Cable**
- **Medium and High Voltage Cables**
- **Insulators**
- **Low-Voltage Insulated Case-Molded Case CB**
- **Switches**
- **Circuit Breakers**
- **Reheaters**
- **Instrument Transformers**
- **Metering Devices**
- **Step-up Voltage Regulators**
- **Current Regulators**
- **Tap-changes**
- **Motor Control Centers**
- **Adjustable Speed Drive Systems**
- **Direct-Current Systems**
- **Surge Arresters**
- **Capacitors**
- **Capacitor Control Devices**
- **Outdoor Box Structure**
- **Automatic Circuit Reclosers and Line Sectionalizers**
- **Automatic Circuit Breakers, Oil**
- **Automatic Circuit Breakers, Vacuum**
- **EMS Testing**
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