

Exacter LIGHTNING/SURGE ARRESTERS



PROBLEM

- 20% of all power outages (more than 372,000 annually in the U.S.) occur because lightning arresters have failed prior to the lightning strike
- In the southeast, 40% of all outages are the result of failed arresters
- There are no visible signs for a failed or failing lightning/surge arrester
- There is no heat signature unless the arrester is being evaluated during a heavy line load
- With standard methods, there is no practical, economical way to test arresters without an individual visit to each location
- A lightning strike/power outage is typically the main method for identifying failed arresters

WHAT IF?

“What if there was a way to quickly and economically identify which arresters on the grid have failed, and prioritize replacement based on the criticality of those locations?”

EXACTER SOLUTION

Protect Overhead Distribution Assets By Locating & Replacing Failed Arresters

Lightning arresters are the first line of defense against surge-related problems, however, most deteriorated components show no visual or heat signature indicating damage. Arresters are unique among overhead line components because they are critical, and deterioration is often invisible. Exacter technology can quickly and accurately identify the arresters on your system exhibiting signs of weakness or other characteristics that suggest reduced protection.

The Exacter Lightning Arrester Verification Program

An Exacter Lightning Arrester Health Assessment includes a multi-pass patrol of your entire system, or for selected circuits to locate and verify the arresters exhibiting RF Failure Signatures™. This fault-identification survey completes the assessment of your utility's surge arresters over hundreds, even thousands of miles in a matter of weeks.

Strategic Analytics Help You Prioritize Replacement

Using Vision Analytics, Exacter presents a strategic plan for targeting component locations that will have the biggest impact on overall reliability. Failed arresters on key circuits near reclosers, substations, underground/overhead transitions, and impacting important commercial/industrial customers are identified, including an actionable list of equipment for replacement in map, spreadsheet, and GIS compatible formats.

Begin with a First Step Assessment

Lightning arresters are the first line of defense for your critical assets. By shoring up the lightning arrester defense shield, you minimize collateral equipment damage from lightning strikes. An Exacter Health Assessment survey is a simple, cost-effective solution.