



# HAMPTON TEDDER SERVICES

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Does Your  
Transformer,  
Switchgear In-  
sulation, or  
Cable Look  
Like This?

**Can't say?**

Active partial insulation failure due to tracking.



**Then you're flirting with a significant risk of costly downtime and potentially fatal personnel injuries!!**

High and medium voltage power networks are made up of many components like circuit breakers, cables, transformers, and switchgear. Each component has a specific function and they all work together to form a reliable power network. Of course, characteristics and functions of specific components need to be tested before use, *but periodic testing is vital to assure continuing reliability.*

### ***On-Line Partial Discharge (PD) Testing Is Now Possible!!***

Fortunately, a low cost service is available today that can detect PD activity in MV and HV electrical systems and help avoid equipment failures. The beauty of this service is that it is *performed while your equipment remains in service, so no outage is required.* Infrared is a good tool to detect loose connections or current flow problems, but it can't detect insulation or voltage problems because partial discharges build no heat. IEEE statistics say that up to 95% of switchgear failures are from insulation breakdown, which is exactly what PD testing detects.

#### **PD Helps Address These Crucial Concerns:**

- ***Personnel Safety:*** Facility managers know that an electrical arc releases destructive energy and risks severe injury or death to nearby personnel.
- ***Interruption of operations:*** Secondary to personnel safety, but with still devastating effect! One study estimated a one-hour outage facility loss averages \$7,795 but it can reach \$100,000+ per hour at some facilities.
- ***Miscellaneous:*** Other important issues include reduced employee moral and productivity, as well as facility insurance coverage difficulties.

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