



HAMPTON TEDDER TECHNICAL SERVICES



“Partial Discharge Analysis Since 1999”

Avoid / Predict high voltage electrical failures using Partial Discharge Testing!

“No outage necessary to perform testing!”

A prime benefit of this technology is that testing is *performed while equipment remains in service, so no outage is required.*

Examples of lurking hazards that our PD testing expertise discloses are:

- ✦ **Insulation defects deep within switchgear** (avoid catastrophic failure)
- ✦ **Termination, splice & cable failures** (causes 90% of cable failure and most can be eliminated during regular maintenance intervals by PD testing)
- ✦ **Motor & Generator insulation wear** (avoids unexpected complete stator failure and buys precious time to schedule repairs, thus increasing uptime)
- ✦ **Busduct failure** (effectively test busduct without disassembly or cover removal)
- ✦ **Dry-type transformer condition deterioration** (picks up discharge or corona from dust accumulation or looming insulation problems).

IEEE statistics say that up to 95% of switchgear failure is from insulation breakdown. PD testing detects the magnitude of insulation breakdown that has occurred, which allows a failure risk assessment to be made. The PD signatures occur only in electrical systems that are 600V and higher and are indicators of insulation weakening. IR Scan 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 up no heat.

Hampton Tedder experts have been performing PD testing & analysis over 8 years & have 100 + clients with PD survey projects ranging from \$3K to over \$250K. We have 24 hour technical support from staff and easy data transfer through our website.



Control your assets by;

- **Avoiding unexpected failures & their high costs\$\$**
- **Prioritize maintenance activities**
- **Planning repairs**



Active Partial Discharge & tracking found; before failure occurred!



Bad cable found before it failed!

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