LOGIS-TECH ASSOCIATES

LEAKSHOOTER
Ultimate leak detection

Search for capacitive type electrical defaults (Corona effect, electrical path, arcing, partial discharge…) on middle and high voltage installations HTA & HTB (U > 1000 V)

HTB installation

Application Note No 3: July 2013

What are the problems with capacitive electrical defaults on medium and high voltage lines ?

Capacitive electrical defaults (who generate ultrasonic waves) on middle and high voltage installation create problems on connections, cables, insulators, disruptors…and are problem sources of:

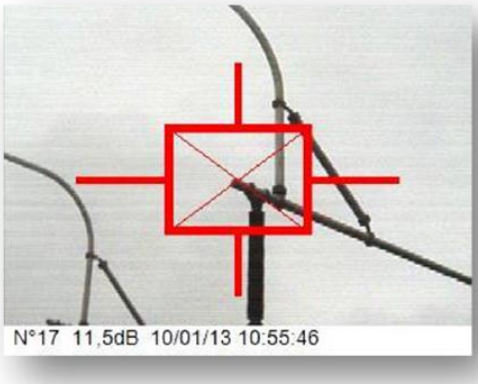
- Safety of people and property (fire, explosion, mechanical piece breakdown , corrosion, …)
- Noise, audible parasite noise
- Electromagnetic interference by conduction or by air transmission (radio interference)
- Chemical pollutions (CORONA creates Ozone, NH4, NO3…)

Capacitive electrical default search solution :

With the LEAK**SHOOTER** LKS1000, equipped with combined vision/ultrasonic detection technology with standard cone use, it is possible to easily detect these electrical defaults by scanning the cables, the connections, the insulators,… from 5-10 m distance or more (regarding security rules in these installations).

Then, when the default zone is identified with the cone, it is possible to take a photo to make a future technical report for reparation.

This whole procedure can be realized with or without the headphone, thanks to the automatic and dynamic target on screen during this detection (see below).



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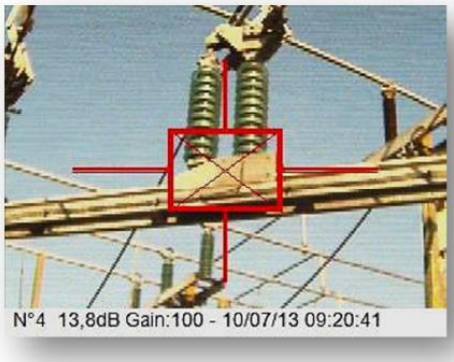

Example with a 63.000 V installation :

Bad mechanical and ground connection under 63.000 V, electrical arcing is easily detected with the LEAK**SHOOTER** LKS1000 at 3 m distance thanks to it automatic/dynamic target and with the headphones which with we can hear arcing characteristic sound.

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For more information on the leakshooter. Please do not hesitate to contact: Hugo Gallagher

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