

Case History - 27: Online PD measurement using Airborne Ultrasonic

Equipment under Measurement	: 22kV AIS Switchgear
Date of Measurement	: 04th September 2018
PD test Set	: Ultra TEV plus 2 (EA Technology)
Sensor Used	: Airborne Ultrasonic Sensor
Observation	: Surface Discharge (Burn Mark) was found on the VT of Incoming circuit.

ONLINE PD MEASUREMENT USING AIRBORNE ULTRASONIC SENSORS

Client :	A	Sensor Used:	Airborne Ultrasonic Sensor	Manufacturer:	ABB	Rated Voltage :	24kV
Substation Location:	Basement 2, HT Switch room,	PD test Set :	Ultra TEV Plus 2	Type:	AIS	Operating Voltage :	22kV

Phase Resolved Ultrasound on Front Panel of "Incoming Feeder No.2" (With VT) on 17th August 2018



Phase Resolved Ultrasound Front Panel of "Incoming Feeder No.2" (Without VT) on 04th September 2018



FINDING

Scheduled Shutdown on 22kV AIS was on 30th August 2018.

“Power Grid Incoming No.2” panel was investigated during the shutdown servicing.

Burn mark was found on the Voltage Transformer and VT was isolated.

OBSERVATION DURING SHUTDOWN INSPECTION

