

## Case history 2 using on-line continuous mode TEV method

LOCATION MODE  
EA Technology PDM03 Version 6

Start time 2005-07-29 16:28:00  
Finish time 2005-01-08 15:48:00

| [----- LEVEL -----][----- NUMBER OF PULSES -----] |       |           |       |          |        |        |           |       |      |          |       |
|---|-------|-----------|-------|----------|--------|--------|-----------|-------|------|----------|-------|
| Ch  | Max   | Nos of    | Av    | Short    | Nos of | %      | Max       | Assoc | %    | Severity |       |
|   | Level | Pulses    | Level | Term     | Pulses | Pulses | Pulses    | Level | Time | Long     | Max   |
|   |       | per cycle |       | Severity |        |        | per cycle |       |      | Term     | Short |
| 1   | 28    | 0.022     | 1     | 1        | 3161   | 3      | 0.022     | 28    | 22   | 0        | 1     |
| 2   | 0     | 0.000     | 0     | 0        | 7      | 0      | 0.000     | 0     | 1    | 0        | 0     |
| 3   | 22    | 0.001     | 0     | 0        | 380    | 0      | 0.004     | 0     | 8    | 0        | 0     |
| 4   | 19    | 0.002     | 0     | 0        | 176    | 0      | 0.002     | 19    | 4    | 0        | 0     |
| 5   | 19    | 0.000     | 0     | 0        | 81     | 0      | 0.001     | 0     | 3    | 0        | 0     |
| 6   | 16    | 0.112     | 5     | 1        | 55156  | 60     | 0.112     | 16    | 63   | 0        | 1     |
| 7   | 19    | 0.006     | 0     | 0        | 541    | 1      | 0.008     | 0     | 3    | 0        | 0     |
| 8   | 19    | 0.001     | 0     | 0        | 334    | 0      | 0.003     | 0     | 3    | 0        | 0     |
| 9   | 0     | 0.000     | 0     | 0        | 13     | 0      | 0.000     | 0     | 1    | 0        | 0     |
| 10  | 19    | 0.011     | 0     | 0        | 793    | 1      | 0.016     | 0     | 5    | 0        | 0     |
| 11  | 34    | 0.071     | 4     | 4        | 32688  | 35     | 0.094     | 25    | 45   | 0        | 4     |
| 12  | 0     | 0.000     | 0     | 0        | 15     | 0      | 0.000     | 0     | 2    | 0        | 0     |

Total number of pulses = 92515

Total number of sets of data = 857

12 channels connected, 14400 cycles per 5 minutes

Partial Discharge Equipment used : **PDM03 from EA Technology of UK** Mode of measurement : On-line, Continuous mode TEV method

- 1) Date of measurement : 29<sup>th</sup> July 2005
- 2) Total hours measurement : On-line, 71hrs continuous mode
- 3) Date of off-line inspection : 19<sup>th</sup> August 2005
- 4) Type of equipment : 12kV AIS-VCB
- 5) Analysis :

Pd detected at channel 6. Off-line inspection revealed bad discharges at the cable termination compartment at the switchgear.

