

Case history 1 using on-line continuous mode TEV method

LOCATION MODE

EA Technology PDM03 Version 6

Access file 1.1oc

Start time 16/09/2004 09:56:00

Finish time 17/09/2004 13:41:00

[----- LEVEL -----][----- NUMBER OF PULSES -----]											
Ch	Max Level	Nos of Pulses per cycle	Av Level	Short Term Severity	Nos of Pulses	% Pulses	Max Pulses per cycle	Assoc Level	% Time	Severity Long Term	Max Short
1	31	0.005	6	0	5643	1	0.006	25	47	0	0
2	49	0.012	19	3	15181	3	0.045	46	59	0	9
3	25	0.671	23	12	118521	23	0.671	25	100	0	12
4	40	0.043	30	4	194640	37	0.070	28	100	1	4
5	28	0.029	26	1	102733	20	0.030	25	100	0	1
6	0	0.000	0	0	8	0	0.000	0	2	0	0
7	0	0.000	0	0	48	0	0.000	0	10	0	0
8	13	0.000	0	0	40	0	0.000	13	8	0	0
9	16	0.001	0	0	65	0	0.001	0	7	0	0
10	19	0.732	11	7	254529	48	0.732	19	81	0	7
11	16	0.003	0	0	350	0	0.005	0	25	0	0
12	19	0.003	0	0	777	0	0.004	0	61	0	0

Total number of pulses = 526726

Total number of sets of data = 334

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 : 16th September 2004
- 2) Total hours measurement : On-line, 28hrs continuous mode
- 3) Date of off-line inspection : 18th September 2004
- 4) Type of equipment : 22kV AIS-VCB
- 5) Analysis :

Pd detected at channel 3, 4, 5 from the % pulse column. Off-line inspection revealed bad discharge at the insulating sprouts at the switchgear.