Confirmation of Design Testing – PDV-100 Optima

This is to certify the successful completion of the following type tests for PDV-100 Optima, polymer-housed Heavy Duty (HD) distribution arresters. Tests were performed in accordance with IEEE Standard C62.11-2012 “IEEE Standard for Metal Oxide Surge Arresters for AC Power Circuits (> 1kV)”.

Design Test Description	Clause
Arrester insulation withstand	8.1
Discharge-voltage characteristics	8.2
Accelerated aging of varistors	8.5
Accelerated aging of polymer-housed distribution arresters with exposure to light and electrical stress	8.6
Accelerated aging of polymer-housed arresters with exposure to salt fog	8.7
Verification of thermally prorated section	7.2.2
Distribution arrester seal integrity	8.9
Partial discharge (PD)	8.11
High-current, short-duration withstand	8.12
Low-current, long-duration withstand	8.13
Duty-cycle	8.16
Temporary overvoltage (TOV)	8.17
Short-circuit	8.18
Distribution arrester disconnector tests	8.21
Maximum design cantilever load (MDCL) and moisture ingress for polymer-housed arresters	8.22

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