



Disconnector withstand tests:

- **Long-duration current impulse test**

The arrester and GLD are subjected to a series of

18 long-duration current impulses (2000 μ s square wave).

- **Operating duty test**

The arrester and GLD is subjected to a series of

20 lightning current impulses (10 kA, 8/20 μ s) and

2 high current impulses (100 kA, 4/10 μ s).

1. Disconnector operation test

GLD operating time is determined at 20 A, 200 A and 800 A, as well as at 5 A

2. Long duration current impulse withstand test

18 x 2000 μ s square wave current impulses

GLD resistance measurements and 5 A operation test

3. Operating duty withstand test

20 x 8/20 μ s, 10 kA and 2 x 4/10 μ s, 100 kA current impulses

GLD resistance measurements and 5 A operation test

4. High lightning duty current impulse withstand test

2 x 30/80, 30 kA current impulses



GLD resistance measurements and
5 A operation test

GLD resistance measurements and
5 A operation test

5. Repetitive surge withstand ability test

1000 voltage impulses, sufficient to
ensure spark-over of the GLD's
internal gap

6. Moisture ingress test

GLD is immersed in boiling water
for 50 hours

GLD operation curve

