

Testing Facilities and maximum ratings of equipment to be tested

Starting from the results of the Basic Design performed at 2011-2013 the detailed design of the testing facility has been developed to perform short-circuit and capacitive switching tests up to the following maximum ratings of the equipment to be tested:

- 245 kV, 63 kA, 50/60 Hz, (3-ph),
- 800 kV, 63 kA, 50/60 Hz, (1-ph), (full pole),
- 1200 kV, 63 kA, 50/60 Hz, (1-ph), (half pole).

Tasks performed:

- Single-line diagram and layout of the two upgraded oscillating circuits,
- Availability of the existing components of the oscillating circuits able to withstand the requested current and voltage stresses,
- Technical specification:
 - Additional components of the oscillating circuits (Reactors, Capacitors, Potential Resistor, Linear Disconnectors in the Reactors banks),
 - New Reignition Circuits,
 - Surge arrester for the protection of the short-circuit components against over-voltages.

