AN 19-10-H650

Application-note

San Severo 400kV Substation
Erection and Commisioning for Ansaldo Energia

View of the ENPLUS Power Plant

Incoming line details

Power Plant during commissioning

The ENPLUS 400MW Power Plant in San Severo (FG) is a combined cycle in single shaft arrangement, with a single 480 MVA 20kV generator connected in ANTENNA to the TERNA grid via a 400kV step up transformer and a single bay 400kV AIS Substation. Due to the limited space available the layout has been fixed with the step up transformer behind the power plant building on the opposite side of the HV Substation and the connection via 400kV cable.

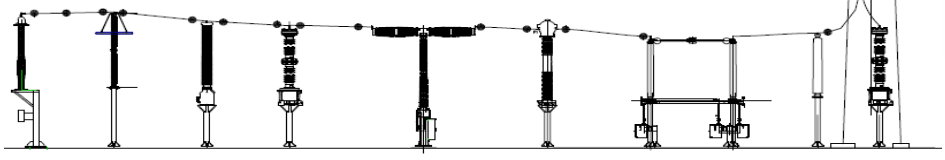
The antenna connection to the grid is realized with a single overhead line starting from the Pi Greco gantry portal (according to the TERNA STD) reaching the San Severo TERNA switching substation 6km from the power plant.

SAET received from Ansaldo Energia (EPC contractor of the plant) the order for turnkey Substation complete with design supply erection and commisioning.

The protection system implemented by SAET with a selectivity design is based on General Electric protections: D60 for distance function and T60 for transfromer differential one. The complete substation hes been energized with positive results: the completion of the power plant is in commisioning phase.

View of the Substation

HV equipment



HV Substation side view

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