

**PRODUCTION OF SUPERHEATED STEAM ELECTRABEL 2011
AMERCOEUR**

SAINT-GHISLAIN – Electrabel Power station

Finished

CATEGORY

Special techniques / Industrial facilities

IDENTIFICATION

Installation of a superheated steam production unit for TAV
tightness of PAM01

OWNER

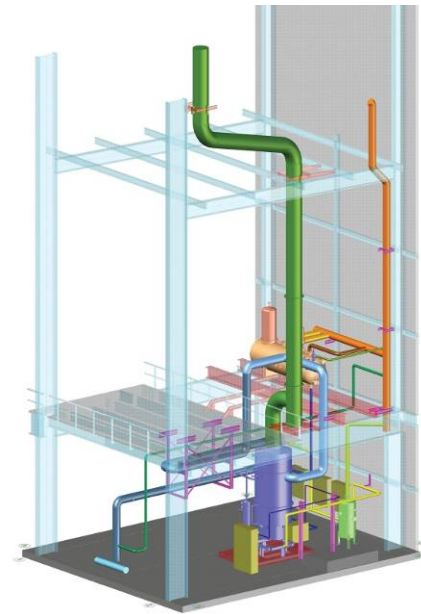
Electrabel

PROJECT MANAGER

Clayton of Belgium

MISSION

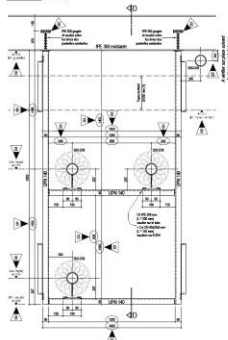
Studies, execution plans, isometrics of the piping system, and supports of the machines and pipes.



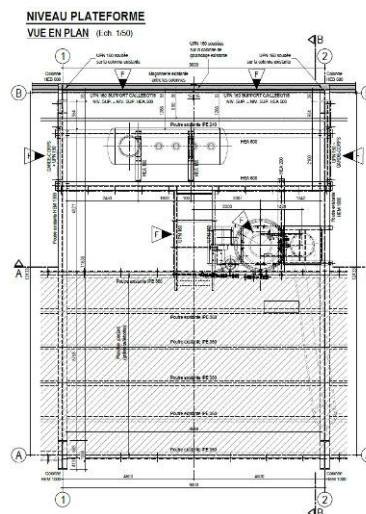
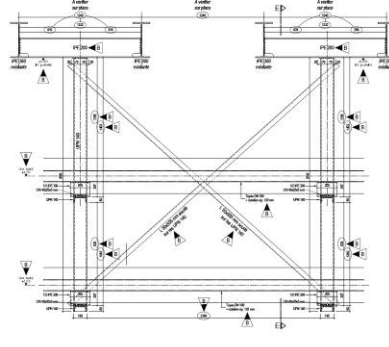
CHARACTERISTICS

- Installation carried out inside the building in use (power station)
- High temperature and pressure steam
- Metal supports of the pipes and machines placed on the existing structure
- Support of the chimney and roof trave
- New access platform to the measuring and command instruments of the facilities
- Footbridge between the existing platform and the new one
- Metal parapets
- Metal slatted floors

S02-D39 et S06-D39 - Steam DN 100
DETAIL DU SUPPORT SOUS LA PLATEFORME EXISTANTE
COUPE E-E (1/4 - 1/10)



COUPE D-D (1/4 - 1/10)



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DESCRIPTION OF THE MISSION

The new steam production unit is located inside the power station. The layout of the pipes and the position of the machines must consider the bulk of the existing facilities. The supports of the pipes and of the machines are fixed on the existing structures of the building.

The study of the layout of the pipes and of the size of the supports has taken following constraints into account:

- High pressures and temperatures of the steam
- Correct positioning of the different valves and measuring/command devices (due distances, easy access)
- Requirements related to the maintenance of the facilities (positioning of the machines and access to them)
- Respect of the PID supplied by the project manager
- Pipe insulation (several layers)
- Presence of previously existing and used pipes
- Avoid on-site welding for the assembly of the supports
- Possible installation of a second circuit (identical to the first one).

Support for the roof traves and external support are planned for the chimney, with dilatation allowance for the latter. The first support allows to hold up the chimney in case of disassembly or replacement of the silencer that is located on its foot.

The new metal platform fixed with clamps on the main girders of the existing metal structure of the building serves as support for the water bosh. It allows to reach the different valves and measuring instruments located in that zone as well as the access trap to the chimney. A new metal footbridge connects the new platform to the existing one. All the traffic and working areas are equipped with metal slatted floors and parapets.