

Project Information

17 bar steam supply of compressed pre-heater in the blocks of Dunamenti power plant part F

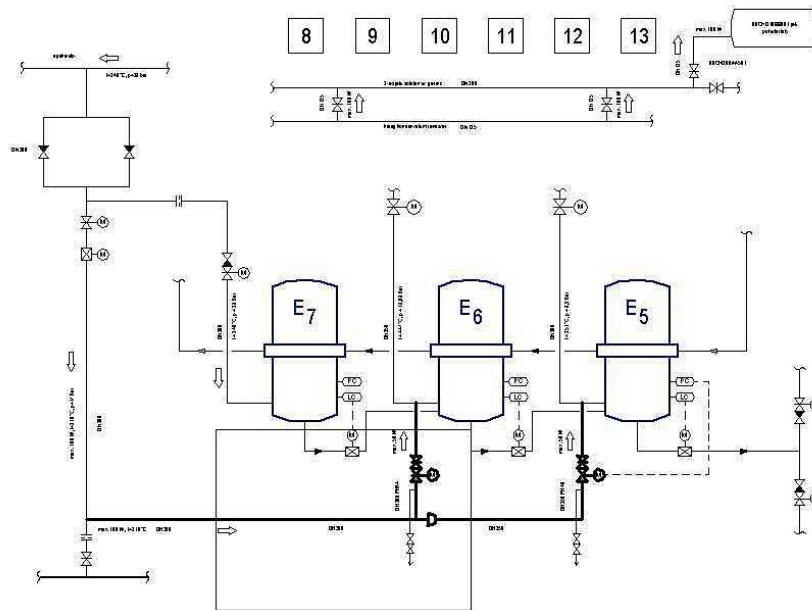


The task: 17 bar steam supply of compressed pre-heater in the blocks of Dunamenti power plant part F

The content : The full range of designing, constructing, commissioning of connecting the compressed pre-heaters in the blocks of Dunamenti power plant part F to the 17 bar steam system.



Customer: Dumentí Erómú Rt.
Icoming: HUF 50 M
Date of the project: 2001
Scope of supply: detailed designing, manufacturing, delivering, site installation
Main diagramm:



Description:

The DN300 pipeline joins together the 17 bar reduced steam-rail pipeline of Dunamenti power plant with the compressed pre-heater marked E6 or E5 of the connected block. The steam connection gives chance to use up the available steam-excess in the condensation cycle. The steam coming outside of the block reduces the thermal efficiency of the connected block, but increases the total efficiency of the power plant. The design parameters of the pipeline are the followings:

- Design pressure: $P_t=22$ bar
- Design temperature: $T_t=350^\circ\text{C}$

The strength calculation of the pipeline was carried out by 3-dimension finite element analysis (CAEPIPE), the mechanical designs were completed by parametric design system (Solid Edge).

Kraftszer Kft.

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