Kostromskaya Gres

Gas-fired Power Station Rehabilitation

Kostromskaya Gres, Kostroma region/Russia

The KOSTROMSKAYA GRES power station is located near the city of Kostroma, 350 kilometres northeast of Moscow.
Apart from eight 300 MW units, this power station also disposes of a unit with an output of 1,200 MW. This power station unit is not only the largest one in Russia, it is also the largest gas-fired power station unit worldwide. KSB pumps are employed in all power station units there.

Customer:
KOSTROMSKAYA GRES

Consultant:
RAO UES

Application:
3,600 MW (8 x 300 and 1 x 1,200 MW)

Experience and competence prove convincing

As early as in 2002, KSB had delivered to Russia for the 1,200 MW unit three pump cartridges plus one spare cartridge of the boiler feed pump type CHTD as substitutes for the outdated Russian ones. The requirements KSB had to satisfy: The pump cartridges had to be exactly tailored to the existing Russian pump casings, and they had to be designed for very high pressures.
A decisive factor that tipped the balance in favour of KSB during the order award phase were the excellent references of the KSB pumps in the PERMSKAYA GRES power station.
The use of the KSB products makes for far better efficiencies as well as longer inspection intervals and remaining service lives of the pumps. So, in 2005, KSB was awarded a follow-up order for further ten pump cartridges to be installed in the boiler feed pumps of the 300 MW units.

Komstromkaya Gres, Russia – Scope of supply and project details

Scope of supply:

2002:
Rehabilitation of three pump cartridges of the type CHTD 8/7, one spare cartridge.

2005:
Rehabilitation of 10 pump cartridges of the type CHTD 7/6

Technical data:

CHTD 8/7 cartridge:

- Flow rate: 1,500 m^3/h
- Head: 3,675 m
- Speed: 4,675 min^{-1}
- Temperature: 165 °C
- Discharge pressure: 346 bar

CHTD 7/6 cartridge:

- Flow rate: 1,024 t/h
- Head: 3,596 m
- Speed: 5,074 min^{-1}
- Temperature: 177 °C
- Discharge pressure: 322 bar

Should you need more information, please do not hesitate to contact us:

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