

Erection with VSL Strand Jacking Technique



▲ The boiler frame during lifting of the suspension grillage

In April 2001, VSL was awarded a contract by the GTT (Gama-Tekfen-Tokar) Joint Venture for carrying out lifting work for the erection of 4 identical blocks of the new Afsin – Elbistan B 4 x 360 MW power plant. The construction site is located in the district of Kahramanmaraş in southeastern Turkey. With this contract, VSL adds another reference to its long list of work in the erection of thermal power plants, which started off in the early 1980's in Germany.

The heaviest parts to be lifted at Elbistan are the four suspension grillages. Each one weighs 520 t and has to be lifted to a height of 120 m. Furthermore, the lifting operations comprise the flue gas ducts and an impressive number of boiler components that are being installed using the VSL Heavy Lifting technique as well. A series of 70 strand lifting units with capacities ranging from 100 kN to 3300 kN with their corresponding hydraulic pumps have been brought to the site. The erection work involving VSL for this project is scheduled to last 2½ years.

The first major operation, lifting of the suspension grillage of block No.1, was performed at the end of September 2001. It was followed by the lifting of the buckstays in the same block. From December 2001 on, work has been in progress in parallel on blocks No. 1 and No. 2. With further development of the site, parallel lifting works for all 4 blocks are programmed. This is a demanding task that requires ongoing

Owner

TEAS Turkish Electricity Generation and Transmission Authority

Main Contractor

Mitsubishi Heavy Industries, Babcock Borsig Power, Gama-Tekfen-Tokar J.V., Enka Construction Co.

Plant Erection Contractor

GTT (Gama-Tekfen-Tokar) J.V. Ankara

Lifting Specialist

VSL (Switzerland) Ltd. CH-4553 Subingen

planning and which gives VSL the opportunity to demonstrate its flexibility.

At the end of VSL's contract, in mid 2003, the total weight of the components installed in all 4 blocks using the strand lifting technique will have reached 10'000 t.

▼ Detail of lifting equipment arrangement



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