

CASE STUDY

Efficient production and delivery lead to orders of nuclear main feedwater pumps in China

With the biggest project underway in nuclear power history, China Nuclear Power Engineering Company (CNPEC) asked leading pump suppliers to bid on 18 HPTd and 18 HZB pumps for six units of its two nuclear power plant projects: Hongyanhe (HYH) 1 through 4 and Ningde (ND) 1 and 2.



HPTd boiler feed pumps

The Sulzer difference

Sulzer is a world leader in innovative pumping solutions. It continues to invest in pumps for nuclear island and conventional island applications for different reactors. Because of its technology transfer commitment, its boiler feed pumps have been delivered to CNPEC with world-class quality and technology at a cost-saving local price.

The challenge

Nuclear power customers want a balance of the right technology and high quality at a good price, backed by significant references and expertise. In addition, the client, CNPEC, was specifically looking for local production which was a key factor in evaluating suppliers and clearly spelled out in bids.

With the bid documents in hand, Sulzer made it a top priority to discuss the localization proposal and the supply scope with distribution. When Sulzer submitted the tendering documents, it included a thorough localization plan that met CNPEC's requirements.

The solution

During the whole project, from evaluation to implementation, the Sulzer team jointly communicated with CNPEC to share information and take needed actions on time.

Sulzer previously supplied boiler feed pumps to CNPEC's Lingao units 1 and 2 in 2002. To resolve vibration issues experienced by CNPEC, we used two 30% minimal flow valves, which improved the minimal flow point, thereby decreasing the vibration.

Production and delivery of the booster pumps have been operated locally from China from first unit to last.

Customer benefit

As the project made progress, the local production rate increased and the price decreased with products supplied from Sulzer China rather than abroad. This successfully met CNPEC's needs and also demonstrates how future customers will benefit from cost-saving local supply with world class technology.

Contact

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Applicable markets

Power generation

Applicable products

HPTd, HZB