INP Reference

Degussa CH – Chemical Plant

LOCATION: Rheinfelden, Germany

SERVICES: Commissioning, Basic-engineering and pre-engineering, Detail engineering, Installation supervision

INDUSTRY BRANCH/TYPE OF PLANT: Chemical plants, Transmission & Distribution

CLIENT: Degussa AG Rheinfelden

Project description

Degussa AG is a specialty chemicals company, with over 300 locations worldwide, and operates a 110kV switchyard in Rheinfelden that was built in the 60s, consisting of a double bus bar and switchgear for connecting two 110kV supplies and two transformers. Because upkeep was becoming more and more difficult, the question arose as to whether to replace or eliminate the switchyard.

Degussa consulted with INP Switzerland on the implementation, and it was decided to retain a simplified system that would also meet the latest technical standards.

The best solution was developed in a multi-stage process:

- after on-site visits and discussions, generation of variants
- Generation of a cost estimate (material and installation) for the variants, for budgeting and decision-making
- After determining the current state, the request for proposal documents, including technical specifications, were generated
- Generation of detail drawings for removal of the system, as well as the overall build plan, sections, structural design, etc.
- Generation of schedules for the renovation process
- Installation and execution supervision

INP services

- Consulting
- Cost estimate for budget request
- Basic and detail engineering
- Generation of request for proposal documents
- Project supervision during implementation

Data

POINTS OF CONTACT



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INP Reference

- 2 AC oil transformers, 25 MVA, 110/10kV
- Short circuit power 5000 MVA for 110kV switching system
- Double bus bar system
- 2 110kV feed cables
- Overall size of the system L: 55m x B: 35m