INP Reference

Planning and operational support for combined cycle power plant

LOCATION: Cologne-Worringen, Germany

SYSTEM/TECHNOLOGY: DCS: SPPA T3000; TLT DT: PCS7; TLT GT: Mark VIe

SERVICES: Production monitoring, Commissioning, Project management, Quality assurance, Documentation, Basic-engineering and pre-engineering, Detail engineering, Training, Solution development / Feasibility studies

INDUSTRY BRANCH/TYPE OF PLANT: Large Plants, Green Energy, Chemical plants

CLIENT: INEOS Köln GmbH

ACTIVITY PERIOD: since 2019

Project description

INP was commissioned to plan and implement the EMSR components of a state-of-the-art gas and steam plant to ensure a sustainable and efficient energy supply for INEOS‘ production facilities in Cologne. Our in-depth technical expertise and innovative approach contributed significantly to the successful implementation of this project.
Thanks to our precise planning and comprehensive support, a plant was completed, which operates at an efficiency rateof over 90 percent and enables reliable thermal utilization of residual materials. This not only enhances the economic efficiency of the plant, but also makes a significant contribution to sustainability.

INP Services

As a reliable partner of INEOS in Cologne, we contributed our comprehensive expertise and actively shaped the project during all phases. Our range of services included:

- Development of basic and detailed precise engineering to create an optimal technical foundation.
- Detailed safety and risk analyses (HAZOP) to identify and minimize potential risks.
- Creation of control engineering specifications at the highest level to ensure seamless integration and control of the plant.
- Conducting technical system discussions with all relevant stakeholders to ensure efficient cooperation.
- Strict quality control through revision and review of EMSR typicals and hook-ups.
- Comprehensive final mechanical inspections of the EMSR for all lots to ensure operational safety.
- Successful implementation of control engineering specifications in the T3000 control system, including complex interface coordination.
- Participation in factory acceptance tests (FAT) and site acceptance tests (SAT) to ensure the highest quality standards.

POINTS OF CONTACT



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- Cold and hot functional tests (HLT and TLT) to confirm the stability and reliability of the plant under real operating conditions.
- Support for commissioning with our proven experience and technical excellence.

Conclusion

The successful implementation of this project once again underscores INP‘s outstanding expertise in the field of highly complex control technology and energy plant design. Thanks to our comprehensive expertise and practical approach, we were able to master the technical challenges and also maximize the added value for our customer.
We are proud to have supported INEOS in Cologne as a reliable partner and to have jointly created a sustainable, efficient, and innovative energy solution.