



Chemie Service

TÜV Chemie Service GmbH (TCS)

Our range of services

Design review / strength calculation

- Strength and stability verification of plant and installation components and systems, in particular for pressure vessels and piping
- Verification of the stability of tanks, tank structures, columns, silos
- Verification of load assumptions
- Special verifications, e.g. by means of finite element method

Production monitoring / manufacturing procedure

- Evaluation of process equipment and piping manufacturers
- Preparation of specifications
- Special material and product appraisals
- Approval of welding personnel
- Approval of procedure qualifications
- Monitoring/quality assurance during manufacturing
- Final and pressure tests
- Expediting
- QA system certification
- European materials approval



Chemie Service

QM in domestic and foreign large-scale projects

- Advice on the application of international codes and standards (e.g. ASME, China GB) and national regulations
- Preparation of project specifications
- Verification of the strength and stability of complex plant and installation systems
- Advice on the selection of qualified manufacturers
- Production monitoring/quality assurance
- Expediting
- Project integration of TCS engineers

Plant and installation monitoring and control

- Safety assessment and safety testing of plants and installations
- Pre-commissioning testing of plants and installations to verify the observance of statutory regulations and the correct implementation of safety measures and measures defined in supplementary provisions to licensing permits
- Regular operation monitoring by means of periodic testing and inspection of plants and installations
- Tests and inspections within the scope of plant or installation decommissioning or shutdown
- Project integration of TCS engineers



Chemie Service

Testing and inspection of material handling equipment and machinery

Design examinations, final inspection, acceptance and periodic tests of:

- pallet and goods lifts
- raising platforms
- hoists
- cranes
- storage and retrieval units
- centrifuges

Electrical safety

- Testing of instrumentation and control (I & C) and process I & C safety equipment
- Testing of explosion protection
- Testing of the electrical installation of the supply system for safety services as per TPrüfVO (Ordinance on Technical Testing and Inspection)

Technical documentation

- Documentation, updating and maintenance of test files
- Data entry in TIDOC, the SAP-based application
- Reminder lists, revision lists and inventory lists



Chemie Service

Testing of specialist workshops as per Water Resources Act

Expert reports

- For licensing procedures
- For qualification tests as per VAWs
- In damage cases

Advisory services addressing statutory requirement implementation

Safety advisory services for organizations in Germany and abroad

Information/training

- On issues of occupational health and safety, in particular amendments to regulations
- For people authorized as per BetrSichV on the risks emerging from pressure hazards
- For crane operators