



# INDUSTRIAL SERVICES

ASSURE COMPLIANCE WITH WORLDWIDE STANDARDS AND MARKET REGULATIONS





## INDUSTRIAL CONSTRUCTION

### YOUR COMPETENT BUSINESS PARTNER FOR

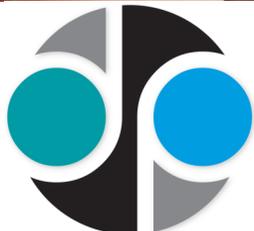
For many manufacturers Product Certification is something new. Therefore we provide more than just the minimum that is required for Product Certification.

DNIEPER provides know-how and expertise that go beyond the regular certification service. We help you to understand the concept of diverse certification and the purpose of the various steps that are required. DNIEPER supports you to take ownership of the product certification process, so that your company will gain new expertise.

Headquartered in Geneva, Switzerland, the DNIEPER Group is the global leader and innovator in inspection, verification, testing and certification services. Founded in 2001, DNIEPER is recognized as the global benchmark in quality and integrity.

Industrial Services as one of the largest business lines within the DNIEPER is a global provider of technical inspection, verification, testing and conformity assessment services for all industrial markets.

The core values of complete independence, transparency and integrity guide us in our mission to deliver first-class services on a constant high quality level to customers around the world. Partnering with DNIEPER guarantees access to unparalleled know-how and facilities. We eliminate uncertainty, enhance mutual confidence, and offer you the freedom to concentrate on the things that really matter: the growth of your core operations and the profitability of your enterprise.



[WWW.DNIEPER.ME](http://WWW.DNIEPER.ME)



## THIRD PARTY AND INDUSTRIAL INSPECTION SERVICES

- **DNIEPER MIDDLE EAST** offers a complete range of services that include certification, quality assurance, vendor inspection, **Third party inspection**, surveillance and expediting. These services include design review and certification of equipment, material certification, quality assurance services including vendor audits and engineering inspection of mechanical and electrical equipment at vendor works.
- **Pressure vessels and boilers**
- **Equipments handled**
- **Refinery Inspection**
- **Pipeline inspection**
- **Storage and Tankages Inspection**
- **Offshore Inspection**
- **Pressure equipments inspection**
- **Shutdown Inspection**
- **Construction Inspection**
- **Factory Audit**
- **OEM Development**
- **Initial Production Check**
- **In-Production Check**
- **Random Inspection**
- **Loading Supervision**
- **Nondestructive Testing**
- **Welding inspection**
- **Integrity assessment**
- **Structural inspection**
- **Design review and approval**



## PRESSURE VESSELS AND BOILERS



### A leading provider of pressure equipment certification across the globe

With our expertise, experience, resources and worldwide network of certified inspectors, we are uniquely placed to provide you with independent pressure equipment certification. We also develop market access and acceptance strategies throughout your product planning and development phase. That is why we are the ideal partner during every phase of your pressure equipment – from planning to construction and operation.

#### Our pressure equipment certification services include:

- Approval of joining personnel and procedures
- Design examination
- Determination of intrinsic boiler water quality
- Field inspection and coordination
- Interim inspections during the construction phase
- Material approval
- Periodic visual controls
- Periodic inspections and audits
- Product inspection, test and certification
- Quality system approval
- Risk assessment and analysis
- Safety device and connection controls approval
- Stoking tests on steam equipment
- Type examination and approval
- Verification of calculations and drawings before construction
- Verification of welding files and material certificates
- Welding procedure and welding qualifications for all international standards
- Witnessing of hydrostatic testing





## STORAGE TANK INSPECTIONS & AUDIT

In order to assure your Storage Tanks compliance with Local Regulations as well as with the relevant Standards and Codes, DNEPER provides Technical Audits according to EN 14015, API 650 or 653, EEMUA 159 or Clients' Specifications. These Inspections include

- Tank foundation and settlements evaluation
- Tank bottom evaluation
- Tank shell evaluation
- Tank roof evaluation
- Tank access evaluation
- Tank security instruments check
- Tank environmental study
- Survey of repairs

DNEPER has the experience, the accreditations and the equipment to carry out expert controls and inspections for owners of storage sites for hazardous substances and installations in all industrial sectors. With the competence of a Notified Body, DNEPER performs independent assessment, testing and verification for storage tanks. Besides periodic visual inspections, DNEPER is also a specialist in Non-Destructive Testing (NDT). By offering a complete range of Conventional NDT Techniques and Special Examinations, DNEPER is in the position to provide not just a list of standard techniques but solutions using a combination of multiple techniques.

### FULL SERVICE

- Periodic visual external and internal inspections
- Fugitive emission and leak detection through infrared camera
- Mechanical integrity study
- NDT techniques
- Traditional NDT techniques
- Floor-scan/Magnetic Flux Leakage
- Corrosion Mapping
- Tracing of system leaks and determination of material strengths
- Hydrostatic pressure tests

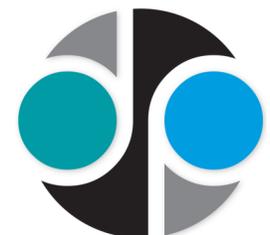
- Ultrasonic density tests
  - Determination of water and sludge inside containers
  - Determination of subsoil corrosiveness
  - Safety systems control
  - External thickness measurements and calculation reviews
  - Adjustment and stamping of identification plates
  - Welding procedures and welding qualifications for customary international standards, including ASME, ISO 15614 and DIN EN 287
  - Project Management and Supervision of Construction
  - Environmental impact studies and risk analysis
- DNEPER also monitors safety procedures for cleaning or welding activities of contractors during maintenance on-site. This applies for facilities such as
- Underground and aboveground flammable and hazardous product storage sites
  - Storage tanks for compressed or liquefied gases

### STANDARDS AND CODES

DNEPER inspects tanks for conformity with all international construction codes and standards, such as EN, API, BS, DIN & ASME.

### RECOGNITION AND ACCREDITATIONS

- Accreditation according to EN ISO/ IEC 17020
- NDT operators certified according to SNTC-1A and EN473 standards
- Recognized Third Party



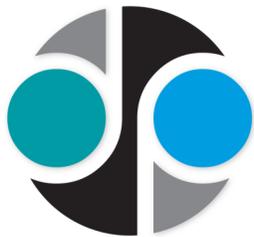
Industrial



Whether you are buying or selling used machinery, industrial facilities or vehicles, our used machinery services help you to ensure the quality, safety and durability of your used equipment. We can also ensure that

ing and certification company, our unrivaled experience, expertise and resources provide you with independent product certification and inspection for used machinery. With a unique global network and multiple accreditations, we can provide you with the necessary certifications for whichever countries you are operating in. Contact us today to find out how our used machinery certification services can provide you with relevant certification – anywhere in the world.

## INDUSTRIAL MANUFACTURING INSPECTIONS



your equipment complies with the directives and standards of the country you are operating in, and those of any countries that you intend to export to. As the world's leading inspection, verification, test-



Industrial Services



## NON-DESTRUCTIVE TESTING's ON PRESSURE EQUIPMENTS

The storage of dangerous goods in tanks must be executed in a safe way. In order to reduce the economical as well as the environmental risks, a thorough knowledge of the tank condition, and in particular the tank bottom and shells, is of outmost importance.

With the knowledge and inspection experience of DNEPER, Non-Destructive Testing (NDT) services provide your installation with added quality, cost reduction, business security and improved safety, for both existing and new installations. NDT gives a clear insight into the risk of leakage or their safety critical defects, which increases the integrity and safety within the installation, and hence avoids undue operating expenses. Non-Destructive Testing of storage tanks includes several methods of examining materials, components and connections in order to identify and quantify material defects and degradations.

### TANK BOTTOM INSPECTION

For the inspection of tank bottoms, DNEPER offers you a quick and above all reliable inspection by combining two techniques:

Magnetic Flux Leakage (MFL) and Ultrasonic Testing (UT). By using these two techniques, corrosion is detected effectively (MFL) and reliably quantified (UT). MFL is a detection technique, which detects volumetrically changes. A strong magnet induces a magnetic field in the material.

On a corrosion spot, a leakage field will arise. The larger the corrosion the larger the field will be. After the fast MFL inspection is done, the suspicious" areas of the tank bottom surface will be quantified by the slow but more accurate UT.

### TANK SHELL INSPECTION

To assess the accurate wall thickness of tank shells we use a rugged remote access ultrasonic crawler. The equipment is designed to allow cost effective

ultrasound thickness measurements on above ground ferromagnetic structures without the need for costly scaffolding or rope access.

The crawler system can be automatically or manually operated and transverses the tank shell either at equal distant points or 100 % around the tank circumference. The multi-axis robotic inspection arm is capable of taking ultrasonic measurements and transmitting the wall thickness and A D-Scan inspection data in real time to the operator's remote panel. Different colors will visualize degradation levels and concentrations of corrosion during the scan and later in the report.

### SPECIAL LEAK TESTING

Leaks in installations or vessels can cause environmental pollution and waste of expensive fuel and energy. Therefore, Leak Testing is performed to locate leaks and measure the leakage of pressurize (or decompressed) test products. DNEPER performs the following Leak Test methods



## STORAGE AND TANKAGES INSPECTION

Reliable quantity measurement is the critical basis of good contractual relationships in worldwide trading of chemicals, petroleum products and liquefied gases. This can only be assured by accurate and regular calibration. When you need to be sure of your tank calibration results, DNEPER has the leading solution. DNEPER innovative laser-calibration measurement technology helps companies to reduce time and costs of tank management, as well as offering precise storage tank calibration to ISO7504. Our motorized laser technology and specialist software deliver results that are accurate, fast and safe to cost-efficient management for storage tanks, gas vessels and stockpile measurements. Not just volumes, but accurate roundness surveys, tank tilt and settlement and other construction measurements are straightforward. What is the precise capacity of your tank? The difference can mean thousands of dollars to your business. DNEPER' approach will replace the traditional 2-day turnaround with increased accuracy. Features include

- Tank floor volume measurement that can save 300 % compared to alternatives
  - Automated measurement to minimize human errors
  - Faster results – just four hours
  - Reduce down-time on your plant operations
- The combination of accurate, fast and

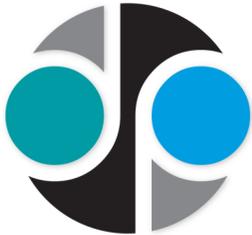
comprehensive calibration results helps companies to drive cost-efficiencies. Our calibration engineers use the measurements to deliver comprehensive results, so you can

- Gain a more accurate picture of the current dimensions and state of your bulk storage containers
  - See a visual guide to the condition of your plant using our 3D mapping of the results
  - Enable long-term management of maintenance using trend analysis of historical results
- DNEPER offers you a full-service approach, and provides regular measurement to reduce the total plant cost of ownership, and to
- Deliver volumes with calibrated and measured confidence over time
  - Calibrate to constantly be within agreed limits
  - Use our 3D modeling of tank floor and shell to plan future floor leveling and floating roofs installation
  - Have 24/7 access to your data
- When you use one of our highly trained and professional calibration engineers, you are tapping into the DNEPER global network of the world's leading inspection, verification, testing and certification company. You will find our calibration experts have the years of experience needed to manage a wide range of measurement situations.



**WHEN YOU NEED TO BE SURE:**

**DNIEPER is the leading inspection, verification, testing and certification company**





# ***DNIEPER***

## ***MIDDLE EAST***

Helping Industries succeed

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**SERVICE**



**IS OUR SUCCESS**