TÜRK LOYDU

INDUSTRIAL CONFORMITY ASSESSMENT SERVICES

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Industrial Conformity Assessment Services

Our Common Goal
Our Common Future

The foundations of Türk Loydu were established in 1962 by the most important organizations of Turkey with a mission to implement the technical progress in the marine and industrial sectors in Turkey. Today, Türk Loydu which was founded by the TMMOB Chamber of Naval Architects and Marine Engineers with the participation of many esteemed stakeholders such as 'Union Insurance and Reinsurance Companies of Turkey', 'Union of Chambers and Commodity Exchanges of Turkey (TOBB), 'Chamber of Shipping', 'Istanbul Chamber of Industry, 'Union of Chambers of Engineers and Architects of Turkey', 'Turkish Ship - owners' Association', and 'Turkish Shipbuilders' Association' is an internationally recognized organization that renders service in the field of 'Classification and Conformity Assessment' globally. Türk Loydu plays a fundamental role in shaping the future in the sector by following the developments in the world in the marine and industrial sectors starting from the phase of setting the rules and standards and constantly informing its stakeholder sectors.

Inspection of Industrial and Energy Facilities

It is possible to provide operational security of the facilities by checking all phases of the production in terms of facilities and equipment by a third party accredited conformity assessment body in accordance with the standard and customer specification provided to start from the process of project control prior to the production phase and certifying the same and then by performing the necessary attitude controls regularly during operation.

Target Field of the Inspection

- Petro-chemistry Facilities
- Chemistry Facilities
- Power Plants
- Other Industrial Facilities

Advantages of the Inspection

- Meeting the legal requirements
- Providing life, property, and environment safety
- Decreasing the investment and operation costs
- Decreasing the insurance costs
- Providing safe operation of the facility
- Prolonging the operation lifetime

Authorizations of Türk Loydu

Türk Loydu performs the services of production control, attitude inspection services and the services of inspection of the equipment in service of the industrial facilities particularly including energy, chemistry, petro-chemistry facilities as an accredited A Type Inspection Body in conformity with ISO/IEC 17020 standard within the scope of activities within a broad spectrum.

Construction Inspection Services

It is possible to construct the structures on the basis of life, property and environmental safety and operate the same with optimum costs by producing in conformity with legal legislations, standards and customer requests in all phases of production and assembly starting from the phase of design of the components of the structure. It is possible to guarantee that those requirements are met through audit and certification of the processes by independent and competent conformity assessment bodies.

Target Field of the Certification

Controls of ground, reinforced concrete, electrical systems and welded production and controls of fire protection and ventilation/air-conditioning systems of steel, reinforced concrete and composite structures including bridges, viaducts, industrial facilities, airports, stadiums and sport complexes, residences, business/culture centers, skyscrapers, platforms used in petrol/natural gas production.

Belgelendirmenin Avantajları

- Certificating that the structure is safe
- Providing life, property, and environment safety
- Facilitating loan provision for investment financing
- Providing competition advantage in sales and advertisement
- Decreasing the repair/maintenance expenses
- Minimizing the renewal/repair costs
- Prolonging the operation lifetime

Requirements for the Certification Bodies

The bodies that provide structure control service are required to be authorized as an accredited "A Type Inspection Body" in conformity with ISO/IEC 17020 standard.

Authorizations of Türk Loydu

As an accredited A Type Inspection Body, Türk Loydu performs production, assembly, and periodical controls of structures within the scope of ISO/IEC 17020 standard in conformity with legal legislations, standards, "Regulation of Design, Calculation and Construction Principles of Steel Structures" and customer specifications and provides third party control services.

Construction Inspection Services in Nuclear Field

Increase of energy demand and emission quantities rendered it compulsory to transit to efficient and sustainable energy systems based on decarburization instead of fossil fuels. Within this scope, necessity for nuclear power has increased in addition to the renewable energy sources.

Nuclear safety is one of the most important subjects in the phases of installation, operation, and inactivation of nuclear facilities. Audit of the activities of all structures, systems and components used in nuclear power plants inside and outside the field is carried on by structure audit bodies authorized in this regard.

The scope of the by structure audit service is checking the conformity of the construction and assembly works of the material and equipment for nuclear safety in structures and members (soil works, fitting, mold, concrete casting, steel coating, welding, anchorage, piping, electrical equipment, pressurized equipment, nuclear equipment etc.) in conformity with the norms and standards, fundamental engineering principles, detection of the nonconformities related to technical requirements and verifying that they have been remedied properly with corrective actions.

Target Field of the Certification

- Nuclear power plants constructed,
- Manufacturers of materials, equipment and systems used in nuclear power plants

Advantages of the Certification

- Certificating that the structure is safe
- Providing life, property, and environment safety

Requirements for the Certification Bodies

The organizations providing structure control services are required to be authorized by the Nuclear Regulatory Authority (NDK) within the scope of the "Regulation of Structure Audit of Nuclear Power Plants". The sub-requirement for this is having ISO 9001 or an equivalent quality management system and having certificates of conformity with ISO/IEC 17020 and/or ISO/IEC 17020 standards.

Authorizations of Türk Loydu

Türk Loydu has the authorization of nuclear construction inspection organization given by the Nuclear Regulatory Authority (NDK) covering the production, construction and assembly activities of all structures, systems and components which are important or not important for nuclear safety.

Control Services of Offshore Platforms

It is possible to evidence conformity of the production and assembly of offshore platforms, to produce the same in conformity with the standards and customer requests through audit of the same by independent and competent assessment bodies. In addition to this, continuity of safe operation, reliability, and conformity of the structure with the standards and rules are certificated upon performance of its periodical audits throughout its operation.

Target Field of the Inspection

- Offshore platforms used in petrol and natural gas production

Advantages of the Inspection

- Providing life, property, and environment safety
- Evidencing reliability of the structure
- Certification that the quality requirements are provided in conformity with the standards and rules
- Minimum maintenance and repair expenses
- Minimum renewal and repair cost

Services Provided by Türk Loydu

Türk Loydu performs the services of performance of production, assembly and conformity controls of the platforms used in petrol and natural gas production in accordance with various rules and standards (API RP 2SIM) and certification of the platforms. The annual periodical controls of the offshore platforms are performed throughout their life cycles in conformity with the standards and the control transactions including thickness measurement, anode potential measurement, weld bead is accompanied in the overwater and underwater zones of the structure in conformity with the inspection criteria prepared within this scope and services of assessment and reporting of conformity of the results is provided.

Equipment Inspection in the Service and Periodical Control

The service of performance and reporting of periodical inspections and tests of lifting equipment, pressure vessels, boilers, storage tanks and electrical installations for which performance of periodical inspections and tests are mandatory according to the "Regulation of Health and Safety Conditions in the Use of Work Equipment" is provided in conformity with the audit requirements of the Ministry of Labor and Social Security of Republic of Turkey.

Target Field of the Inspection

- The facilities within the scope of the "Regulation on the Principles and Procedures with Respect to giving Operation Permission for Coastal Facilities"
- The facilities within the scope of the "Regulation on Shipyards, Places of Boat Production and Harbor Launches", all facilities in which lifting equipment pressure vessels, boilers, storage tanks, electrical and fire installations are available
- The facilities within the scope of the "Regulation on Prevention of Big Industrial Accidents and Mitigations of Relevant Effects"

Advantages of the Inspection

- Meeting the legal requirements
- Providing life, property, and environment safety
- Prolonging the operation lifetime of the equipment
- Decreasing the insurance costs

Authorizations of Türk Loydu

Türk Loydu is an A Type Inspection Body according to ISO/IEC 17020 standard within the scope of the "Regulation of Health and Safety Conditions in the Use of Work Equipment" and the "Regulation of Grounding in Electrical Facilities" and the "Regulation on Protection of Buildings against Fire" with respect to periodical control services.

Non-Destructive Inspection

Türk Loydu, as an A Type Inspection Body within the scope of ISO/IEC 17020 standard, performs services of inspection of the metallic and non-metallic materials using nondestructive - test methods, with its experience longer than 50 years. Within this scope, special practices for the product are performed with engineering support using conventional and/or developed techniques and nondestructive test services are provided by producing solutions peculiar to customer requests and specific situations.

Target Field of the Inspection

- Maritime Sector
- Railway Sector
- Energy Sector
- Petro-chemistry Sector
- Aviation Sector
- Structure/Construction Sector

Advantages of the Inspection

- It enables to detect the discontinuities without damaging the product/structure and prevent any potential future catastrophic incidents.
- The lifetime of the facility/product is prolonged.
- The costs of repair/maintenance of the facility/product are decreased.

Services Provided by Türk Loydu

Türk Loydu performs the services of nondestructive test of the product or structure inspected in accordance with the international practice standards including EN, API, ASME, AWS, using the following test methods.

- Ultrasonic Test
- Radiographic Test
- Penetrant Test
- Magnetic Particle Test
- Advanced Ultrasonic Practices (TOFD, PAUT etc.)
- Endoscopic Test

Tank Calibration

As an A Type Inspection Body within the scope of ISO/IEC 17020 standard performs the service of calibration of vessel and industrial storage tanks in conformity with ISO and API standards using 3D scanner which could perform measurement of 1.000.000 points per second and 3-dimensional modeling method.

Target Field of the Service

- Sea Transportation Sector-Vessel Tanks
- Petro-chemistry Sector-Storage Tanks

Advantage of the Calibration Measurement

- Performing correct quantity detection thanks to correct and reliable tank capacity tables and providing trust between the addressees

Services Provided by Türk Loydu

Türk Loydu performs the services of calibration, measurement, and calculation of tanks in conformity with ISO and API standards.

- API MPMS 2.2A Measurement and Calibration of Vertical Cylindrical Tanks Using the Manual Tank Strapping Method
- API MPMS 2.2B Calibration of Vertical Cylindrical Tanks Using the Optical Reference Line Method
- API MPMS 2.2C Calibration of Vertical Cylindrical Tanks Using the Optical Triangulation Method
- API 2551 Standard Method for Measurement and Calibration of Horizontal Tanks
- API 2552 Measurement and Calibration of Spherical Tanks
- API MPMS 2.8 A C2 Vessel Tanks Calibration Standard
- ISO 7507-1 Calibration of Vertical Cylindrical Tanks-Strapping Method
- ISO 7507-2 Calibration of Vertical Cylindrical Tanks-Optical Reference Line Method
- ISO 7507-3 Calibration of Vertical Cylindrical Tanks-Optical Triangulation Method
- ISO 7507-4 Calibration of Vertical Cylindrical Tanks-Internal Electro Optical Distance Ranging
- ISO 7507-5 Calibration of Vertical Cylindrical Tanks-External Electro Optical Distance Ranging
- ISO 12917-1 Petrol and Liquid Petrol Products-Calibration of Horizontal Cylindrical Tanks-Section 1: Manuel Methods
- ISO 12917-2 Petrol and Liquid Petrol Products - Calibration of Horizontal Cylindrical Tanks-Section 2: Internal Electro Optical Distance Ranging Method

No-Bo, De-Bo and As-Bo Services in Railway Systems

The European Commission published the directive numbered 2016/797/EU in order to provide mutual operability of railway sub-systems and notified bodies (No-Bo) have been authorized to perform conformity assessment. Similarly, the regulation numbered 402/2013 which details how to assess the sub-systems in terms of safety by independent bodies (As-Bo) has been published. The works of OTIF, the intergovernmental organization of which our country is a member to increase international railway transportation are within the same scope as well. A similar legal foundation is created in our country as well within the scope of liberalization process and the works of harmonization with the EU legislation and the aforementioned conformity approvals and independent safety assessments are becoming compulsory through the regulations enacted. Furthermore, under the current circumstances, the conformity assessments to be performed by OTIF in conformity with the specifications prepared as equivalent of 'TSI's (UTP) make up the basis for registration of the vehicles in our country.

Target Field of Services

- Railway infrastructure operators
- Railway train operators
- Railway sub-system and component producers/suppliers

Requirements for the Certification Bodies

In accordance with the specifications of mutual operability (TSI); the bodies which will perform conformity assessments are required to be authorized in accordance with 2016/797/EU directive and published in the "European Railway Agency Database" (ERADIS). And the bodies which will perform independent safety assessments using the Common Safety Method are required to be authorized in accordance with the EU Regulation numbered 402/2013 to perform safety and risk assessment and their names are required to be published in the same database. Recognition as Assessment Body by the security authority in the OTIF member country is required for performing conformity assessments in accordance with the COTIF Legislation.

Advantages of the Services

- Money and time saving
- Capability of competing in international market
- Centralized approval management
- Product and operation safety

Authorizations of Türk Loydu

Türk Loydu offers services together with the specialists within its organization in cooperation with the approved bodies authorized in accordance with the relevant EU regulations and independent security authorities.

Türk Loydu has been authorized by the Ministry of Transportation and Infrastructure of Republic of Turkey as "Assessment Body" to perform certification for Railway Vehicles in accordance with COTIF specifications and as "Designated Body, De-Bo" to perform conformity assessment and certification in accordance with national rules.

Türk Loydu is a body accredited by TÜRKAK according to ISO/IEC 17065 standard within the scope of certification of railway structural sub-systems, tractive and towed vehicles in accordance with COTIF APTU, UTP WAG, UTP LOC&PAS, UTP NOISE, UTP PRM.

Wind Turbine Certification

Türk Loydu provides certification services under the IEC 6 I400-22 standard, carrying out design, manufacturing and production controls and final tests of wind turbines and turbine components. In this context, Türk Loydu offers type certification, component certification and prototype certification services and project approvals for wind turbines in accordance with the design, production, test and performance specifications. IEC 6 I400- I standards are used for basic design structures, while the IEC 6 I400-2 standard is used for smaller turbines and the IEC 6 I 400-3 standard has been used for offshore turbines.

Type certification refers to the process whereby the whole design, production and functions of the turbine are assessed. Project certification involves a combined assessment of wind farms and the turbines installed on them. Component certification applies to main parts such as gear assemblies and generating sets. Prototype certification includes the design, test plan and performance evaluation of turbines manufactured for a specific project.

Belgelendirmenin Hedef Sahası

- Manufacturers of wind turbines
- Manufacturers of wind turbine components
- Companies investing in the energy industry

Advantages of Getting Certified

- Product safety
- Safe operation
- Legal compliance
- Reduced insurance costs
- Reduced costs of maintenance/repair

Authorizations of Türk Loydu

Türk Loydu is a certification body accredited with TÜRKAK's ISO/IEC 17065 standard that provides product certification services.

Certification of Storage Tanks

Türk Loydu provides service of performing the design, production and assembly controls and certification of the newly produced tanks in accordance with API 650 standard relying on its competence and specialists it has with respect to atmospheric over-ground storage tanks. The activities performed within the scope of production controls of the storage tanks according to API 650 are as follows;

- Control and approval of design (technical drawing and calculations)
- Control of the welder certificates
- Control of the welding method approvals (WPS&PQR)
- Control of the materials and documents used in production
- Controls during preliminary production in the factory (such as twisting)
- Assembly control in the field
- Visual inspection and measurement controls
- Nondestructive inspections (Assessment of radiographic films, accompanying the other NDT tests)
- Issuing document for the storage tank

Target Field of the Certification

- Fuel oil storage facilities
- Chemical substance storage facilities
- Storage tank manufacturers

Advantages of the Certification

- Providing product safety and safe operation
- Advantage in insurance costs

Requirements for the Certification Bodies

To be a body accredited in design and production controls in accordance with ISO/IEC 17020 standard.

Authorizations of Türk Loydu

Türk Loydu is a body accredited by TÜRKAK in the field of design and production controls of storage tanks (API 620, API 650) in accordance with ISO/IEC 17020 standard.

Certification of Lifting Equipment

Türk Loydu provides service of performing design and production control of all sorts of lifting equipment and certification of lifting equipment.

The design and production approvals of the mechanical, hydraulic, electrical parts are realized by specialists of Türk Loydu using special software. Türk Loydu having its own rule book in the field of lifting equipment detects the balance lifetime of any equipment in operation in addition to certification of any newly produced equipment.

Belgelendirmenin Hedef Sahası

- Lifting Equipment Producers
- Ports
- Shipyards
- Facilities where Load Handling is Performed

Requirements for the Certification Bodies

To be accredited within the scope of design and production control in accordance with ISO/IEC 17020 standard.

Authorizations of Türk Loydu

Türk Loydu is a body accredited by TÜRKAK within the scope of design and production controls of the lifting equipment in accordance with ISO/IEC 17020 standard.

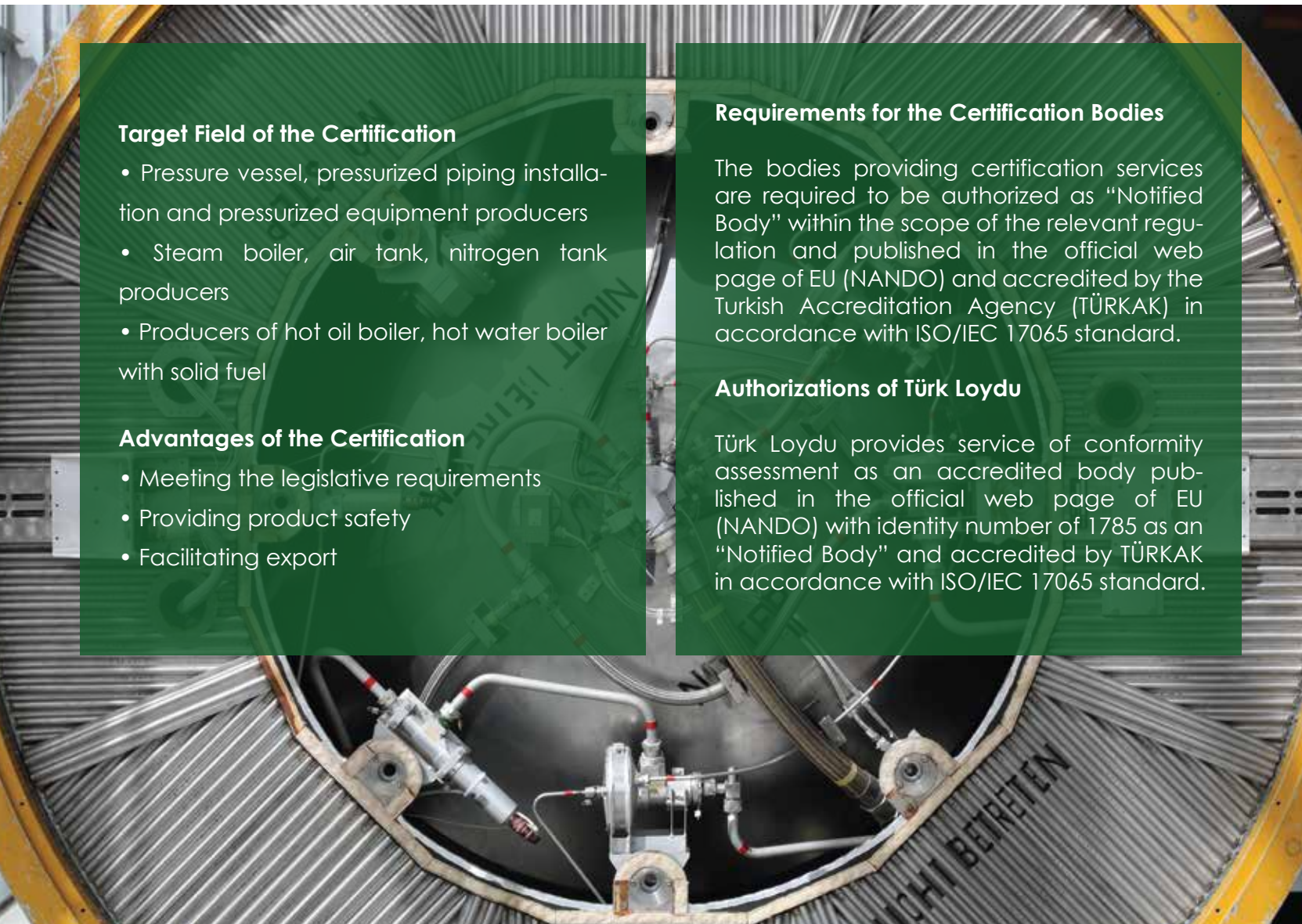
Advantages of the Certification

- Providing safety of the equipment
- Guaranteeing conformity of the design with standards and/or specifications
- Guaranteeing conformity of the equipment with the project
- Guaranteeing conformity of functions of the equipment
- Detection of the defects arising from operation blindness
- Providing documentation conformity
- Safe operation
- Advantage in insurance costs
- Low maintenance/repair activities
- Prolonging the lifetime of the equipment

Certification of Pressure Equipment

It is mandatory to assess conformity of the pressurized equipment in accordance with the legislation in force in Turkey and European Union (EU) and the requirements for providing product safety have been defined in "2014/68/AB Pressure Equipment Directive (PED)".

For free circulation of the equipment covered in the scope of the relevant regulation in Turkey, European Union (EU) and countries concluding free trade agreement with EU; they are required to be marked in conformity with the regulations.



Target Field of the Certification

- Pressure vessel, pressurized piping installation and pressurized equipment producers
- Steam boiler, air tank, nitrogen tank producers
- Producers of hot oil boiler, hot water boiler with solid fuel

Advantages of the Certification

- Meeting the legislative requirements
- Providing product safety
- Facilitating export

Requirements for the Certification Bodies

The bodies providing certification services are required to be authorized as "Notified Body" within the scope of the relevant regulation and published in the official web page of EU (NANDO) and accredited by the Turkish Accreditation Agency (TÜRKAK) in accordance with ISO/IEC 17065 standard.

Authorizations of Türk Loydu

Türk Loydu provides service of conformity assessment as an accredited body published in the official web page of EU (NANDO) with identity number of 1785 as an "Notified Body" and accredited by TÜRKAK in accordance with ISO/IEC 17065 standard.

Equipment Inspection in Hazardous Material Transportation

In order to transport the hazardous substances defined in ADR through highway, railway and seaway, it is imposed by the regulations and international codes to perform the initial certification process of the relevant equipment and periodical, interim or exceptional inspections by authorities.

According to the communiqué issued by the Ministry of Transportation and Infrastructure of Republic of Turkey, the works of certification on production and testing requirements of the equipment to be produced in Turkey and used within the boundaries of our country and covered in the scope of ADR Section 6.2, 6.7, 6.8 and in the scope of CSC Convention must be performed by the bodies authorized by the ministry.

Türk Loydu provides service on portable pressure vessels in the capacity of a body authorized by the Ministry of Transportation and Infrastructure of Republic of Turkey in addition to the services of certification and inspection that it sustains in the capacity of an "A Type Inspection Body" in accordance with ISO/IEC 17020 standard within the scope of ADR 6.2, 6.7, 6.8, 6.11 and CSC. Türk Loydu has been authorized to perform the works of approval, certification and inspection within the scope of international agreements with respect to transportation of hazardous substances.

Although Pi (π) branding is not compulsory within the scope of the "2010/35/EU Regulation" within the boundaries of our country; in the case that export is made to the countries where the relevant regulation is in force, the equipment is required to be certificated in accordance with requirements of TPED. Türk Loydu provides services of Pi sign conformity assessment in cooperation with the corporation registered in NANDO as "Notified Body" in the activities of conformity assessment, interim controls, exceptional controls, periodical controls and conformity reassessment of portable pressure equipment.

Target Field of the Inspection

- Facilities performing industrial, medical and food gas
- Corporations performing transportation of hazardous substances through highway, railway and seaway
- Facilities producing portable pressure vessels

Advantages of the Inspection

- Meeting the legal requirements
- Providing life, property and environment safety
- Guaranteeing that transportation is performed using reliable equipment

Requirements for the Inspection Bodies

The inspection bodies are required to be an "A Type Inspection Body" authorized by the Ministry of Transportation and Infrastructure of Republic of Turkey, accredited in accordance with ISO/IEC 17020 standard.

Authorizations of Türk Loydu

- Türk Loydu is an "A Type Inspection Body" in accordance with ISO/IEC 17020 standard within the relevant scopes.
- It has been authorized by the Ministry of Transportation and Infrastructure of Republic of Turkey to perform approval, certification, and inspection within the scope of international conventions and agreements with respect to transportation of hazardous substances.

Certification of Containers

CSC certification is the activity of certification for safety of container transporter frames within the scope of the "Convention for Safe Containers", the international convention. CSC certification should be performed by bodies authorized in this field.

Türk Loydu is a body recognized with IMO for certification of the cargo containers used in international land and sea transportation in accordance with CSC convention (Convention for Safe Containers) and it has been authorized by the Ministry of Transportation and Infrastructure of Republic of Turkey.

Target Field of the Certification

- UN- Multi-element gas containers
- Portable tanks
- Offshore cargo containers

Advantages of the Certification

- Providing product safety
- Safe operation
- Conformity with the legislation
- International circulation

Requirements for the Certification Bodies

To be authorized by the governments which are parties to IMO within the relevant convention.

Authorizations of Türk Loydu

Türk Loydu is the only certification body in our country, recognized with IMO and authorized by the Ministry of Transportation and Infrastructure of Republic of Turkey for certification of containers in accordance with CSC. Furthermore, Türk Loydu is the only body having accreditation in the field of certification of offshore type containers. The services of certification in this field are performed in accordance with EN 10855-1 standard.

Certification of Fire Extinguishing Systems

The conformity assessment of the fire protection systems is one of the activities getting gradually more important in the industrial and domestic structures. Türk Loydu performs the conformity assessment of the fire extinguishing systems according to the "Turkish Regulation on Protection of Buildings against Fire" and the relevant EN, NFPA standards. The process of certification begins with hydraulic account examination and approval and completed with assembly controls, tests and performance assessment. A "Certificate of Approval" is issued if the system is found to be convenient. The principal systems assessed in the field of fire protection are summarized as follows:

- Sprinkler Systems
- Fire Water Tank
- Fire Pumping Station
- Fire Hydrant System
- Fire Cabinet System
- Water Spray Systems
- Water Mist Systems
- Foam Extinguishing Systems
- Placement of Portable Fire Extinguishing Tubes
- Perception Alarm Systems
- Clean Gas Automatic Extinguishing Systems
- CO_2 Gas Automatic Extinguishing Systems
- Dry/Liquid Chemical Automatic Extinguishing Systems
- Emergency Illumination and Orientation Systems

Special software is used for hydraulic accounts. In addition to water, foam, clean gas, chemical, water mist, CO_2 gas fire extinguishing systems, the conformity assessment of passive fire protection systems is performed as well. Accredited services are offered for the facilities handling hazardous substances, facilities which are required to receive certificate of coastal facility operation and the facilities which are required to prepare a guide of hazardous substance.

The fact-finding activities of the existing systems and the periodical inspections of the systems in operation are performed in addition to the activities of conformity assessment of newly installed fire protection systems.

Target Field of the Certification

- Companies performing design and installation of fire protection system
- Insurance companies
- Industrial facilities
- Ports
- Shipyards
- Residences, hotels, shopping centers and other high buildings
- Sports facilities

Advantages of the Certification

- Providing life, property, and facility safety
- Safe operation
- Decrease in insurance costs
- Conformity with the legislation

Requirements for the Certification Bodies

To be accredited in design and assembly as "A Type Inspection Body" in accordance with ISO/IEC 17020 standard.

Authorizations of Türk Loydu

Türk Loydu is an "A Type Inspection Body" accredited by TÜRKAK in accordance with ISO/IEC 17020 standard within the scope of controls of the fire protection systems.

Certification of Factory Production Control

It is mandatory for the products within the scope of "305/2011/EU Construction Products Regulation" in force in Turkey and European Union (EU) countries to be released with "CE" mark. If the product is marked with CE marking, it is confirmed to have been produced in accordance with EU regulations and circulation of the product in all EU countries and countries making free trade with EU is permitted. The companies are required to establish a factory production control system in conformity with the relevant standard and certificated by the "Notified Bodies" in order to be able to make CE marking.

Target Field of the Certification

Structural metal products and auxiliary members	
Structural metallic sections/profiles: Sections/profiles hot rolled, cold formed or produced in any other manner (T, L, H, U, Z, I, ducts, brace, groove, pipe), flat products (sheet, plate, strip) made of various metal materials, protected, or unprotected being primed against corrosion (coated), cast, beaten and iron bars. (To be used in metal structures or metal and concrete mixture structures)	TS EN 10025-1 TS EN 10210-1 TS EN 10219-1 TS EN 15048-1 TS EN 15088
Construction materials made of structural metal: Finished metal products such as switches, beams, columns, stairs, laying beams, bearing posts and sheet piles. Parts designed for specific applications and cut in proper sizes, rails, traverses. These may be protected or unprotected against corrosion being primed, welded or non-welded. (For use in foundations and structure frames)	TS EN 1090-1+A1
Welding materials. (For uses in structural metal works)	TS EN 13479
Structural fasteners: Metallic rivets, bolts (nuts and flakes) and highly resistant bolts (highly resistant frictional clench bolts), stud bolts, screws, railway fasteners. (For use in structural metal works)	TS EN 14399-1

Advantages of the Certification

- Providing product safety
- Providing sustainable quality
- Providing customer satisfaction
- Capability of competing

Requirements for the Certification Bodies

The bodies providing certification services are required to be authorized as "Notified Body" within the scope of "305/2011/EU Construction Products Regulation" and published in the official web page of EU (NANDO) and accredited in accordance with ISO/IEC 17065 standard.

Authorizations of Türk Loydu

Türk Loydu has been published as Notified Body in the official web page of EU (NANDO) with identity number of 1785 within the scope of "305/2011/EU Construction Products Regulation" and accredited by the Turkish Accreditation Agency (TÜRKAK) in accordance with ISO/IEC 17065 standard within the scope of Construction Products Regulation (305/2011/EU).

Fabrication By Welding Competency Certification

Welding has an important effect on cost and product quality. ISO 3834 is the quality management system prepared for the corporations performing welded production and determining the convenient quality conditions. The standards including EN 15085, EN 1090 renders it mandatory to apply the requirements of ISO 3834 standard.

Possession of EN 15085-2 certification by the corporations performing the production, repair and revision of the railway vehicles and parts indicates that welded production meets the requirements of the international standard.

AD 2000 Merkblatt is a standard within the scope of design and production of pressurized equipment and this standard is intended for assessment of technical documents, control of competence of the personnel and approval of materials.

Türk Loydu performs services of certification in all abovementioned standards.

Target Field of the Certification

- ISO 3834, AD 2000 Merkblatt HP0/W0, corporations producing industrial products including pressure vessels, cranes, and machines within the scope of Certification of Business Place Competence.

- Corporations performing the production, repair and revision of the railway vehicles and parts within the scope of Certification of EN 15085-2.

Advantages of the Certification

- Evidencing conformity of the production with quality requirements

- Meeting the quality requirements

- Evidencing sufficiency of the personnel, equipment, facility

Requirements for the Certification Bodies

The bodies providing service of ISO 3834 and EN 15085-2 certification should be authorized as accredited body in accordance with ISO/IEC 17065 standard.

Authorizations of Türk Loydu

Türk Loydu performs certification in accordance with ISO 3834 and EN 15085-2 standards as a body accredited by TÜRKAK within the scope of ISO/IEC 17065 standard.

It offers services of certification of business place competence according to AD 2000 Merkblatt HP0/W0 and product standards.

Personnel Certification

Türk Loydu performs services of performing the examinations of the welders and welding operators who will work in welded production in accordance with the relevant standards, assessment of destructive and nondestructive test results of test particles and then certification of the candidates.

Target Field of the Certification

- All corporations employing welding personnel or welding operators

Advantages of the Certification

- Fulfillment of the legal requirements
- Evidencing competence of the personnel

Relevant standards:

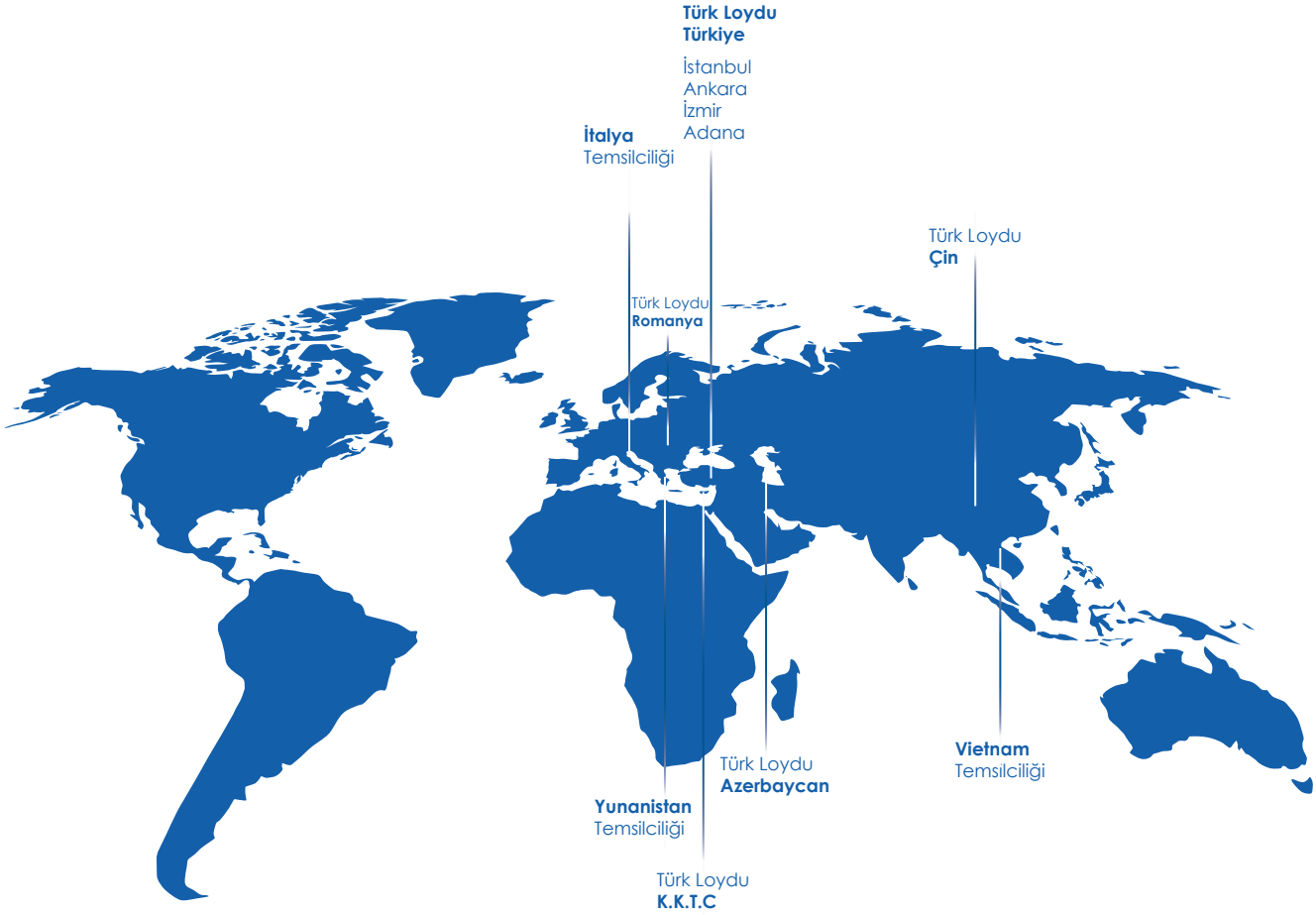
- Certification of the steel welders in accordance with TS EN ISO 9606-1 standard
- Certification of the welders performing aluminum welding in accordance with TS EN ISO 9606-2 standard
- Certification of the welding operators and resistance welding adjusters in accordance with TS EN ISO 14732 Standard for fully mechanized and automatic fusion welding of metallic materials
- Certification of the pipeline welders in accordance with API 1104 Standard
- Certification of the personnel performing plastic welding in accordance with TS EN 13067 Standard
- Certification of the steel structure welders in accordance with AWS D 1.1 Standard
- Certification of the steel bridge welders in accordance with AWS D 1.5 Standard
- Certification of the diver welders performing wet welding under high pressure under the water in accordance with TS EN ISO 15618-1
- Certification of the diver welders performing B, C, O class wet welding except for A class dry welding under the water in accordance with AWS D 3.6 Standard
- Certification of the welders of boiler and pressure vessels in accordance with ASME Section IX Standard

Requirements for the Certification Bodies

The bodies providing certification service are required to be bodies accredited in accordance with EN ISO/IEC 17024.

Authorizations of Türk Loydu

Türk Loydu performs the service of certification of the welders and welding operators working in welded production including underwater welders as a Personnel Certification Body accredited in accordance with ISO/IEC 17024 standard.



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Akreditasyon ve Yetkiler

İletişim Bilgileri