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Transportowy Dozór Techniczny – TDT

Transportation Technical Supervision as the Notified Body in railway

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EU Member States are obliged to notify to the Commission and to other Member States units authorized to perform tasks in scope of conformity assessment as the third parties. Notified Body must be established under national law and have legal personality. Must be a third party, independent from the organization or the product, which it assess. Detailed requirements for conformity assessment bodies (notified) are defined in Regulation of the European Parliament and of the Council No 765/2008 of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products¹ and the decision of the European Parliament and of the Council No 768/2008/EC of 9 July 2008 on a common framework for the marketing of products². Tasks for the accreditation and authorization in Poland were governed by the law of 30 August 2002 on conformity assessment system³.

With the introduction of the new Directive 2008/57/EC of the European Parliament and of the Council of 17 June 2008 on the interoperability of the rail system within the Community⁴, Member States were required to provide the Commission and the other Member States information about the bodies responsible for carrying out the conformity assessment procedure or suitability for use and the verification procedure, with indication of the responsibility scope of each body and the identification numbers obtained in ad-

vance from the Commission in scope of the rail products. The Commission publishes in the Official Journal of the European Union list of bodies, their identification numbers and range of their responsibility, and ensures that it is updated⁵. Bodies meeting the assessment criteria laid down in the relevant European standards are considered to have met those criteria. In January this year, the Directive was introduced to national law by the act of 16 September 2011 amending the Act on rail transport⁶. The Polish law specifies three notified subjects: a notified certification body, the inspection body and notified laboratory. The notified certification body is the body responsible for the assessment of conformity or suitability for use of an interoperability constituent and in charge of the verification procedures of EC subsystems. The notified inspection body is the body responsible for verifying of fulfillment of the compatibility conditions or suitability for use of certified previously interoperability constituent or subsystem in order to determine their maintenance of compliance with the essential requirements for interoperability of the rail system. Notified laboratory is a body responsible for carrying out the tests or measurements necessary to implement procedures of conformity assessment or suitability for use of interoperability constituent and procedures of EC subsystems verification in order to determine compliance with the essential requirements for interoperability of the rail system.

¹ DUUE L218 z dnia 13.08.2008 r.

² DUUE L218 z dnia 13.08.2008 r.

³ Dz. U. z 2010r. Nr 138 poz. 935 z póź. zm.

⁴ DUUE L191 z dnia 18.07.2008 r.

⁵ http://ec.europa.eu/enterprise/newapproach/nando/index.cfm?fuseaction=notification.pdf&dir_id=30&ntf_id=239281

⁶ Dz. U. z 2011r. Nr 230 poz. 1372 z póź. zm.

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An example of a competent and substantially prepared notified body in Poland is Transportowy Dozór Techniczny (TDT), which acts as a Notified Body No. 1468, in the scope of the above mentioned Directive on the interoperability of the rail system.

Tasks are performed on the basis of the authorization granted by the President of the Office of the Rail Transportation as a certification body and as the only inspection body in Poland. TDT has also a notification in the scope of Directives: 97/23/EC on pressure equipment⁷; 2009/105/EC on simple pressure vessels⁸; 2010/35/WE on transportable pressure equipment⁹, 2006/42/EC on machinery¹⁰, 95/16/EC on cranes¹¹, 2000/9/EC on cableways¹² and 89/106/EEC on construction¹³.

Transportowy Dozór Techniczny (TDT) acts as a state legal person in accordance with the act of law of 21 December 2000 on technical supervision¹⁴. Technical supervision performed by the Transportation Technical Supervision are certain actions aimed at ensuring the safe operation of technical devices, which might create a threat to human life or health, property and the environment as a result of: decompression of liquids or gases being under pressure different from the atmospheric, release of potential or kinetic energy by the movement of people or goods, in a limited range, the spread of dangerous materials during their storage or transport.

In connection with the amendment to the implementing regulations to the act on railway transport, Transportation Technical Supervision has been included in the list as an authorized unit i.e. organizational unit authorized to carry out the tests necessary to obtain certificates of type approval to operate, in the regulation of Ministry of Transport, Construction and Maritime Economy of 7 August 2012 on certificates of type approval for operation¹⁵.

Transportowy Dozór Techniczny performs also certification of: management systems, products, processes, technology, factory production control and performs the technical inspection of materials, elements of railway infrastructure (for example rails, railway sleepers, elastic elements, etc.) and technical inspection of materials, parts and assemblies and components of rail transport. Transportowy Dozór Techniczny has been cooperating for many years with companies in the rail sector in the EU Member States and beyond.

In the scope of railway the suitability for use of interoperability constituents and subsystems are assessed in terms of safety, reliability and availability, health, environmental protection and technical compatibility. Certification performed by TDT in scope of railway includes **product certification**: interoperability constituents vessels and tanks mounted on vehicles, pressure vessels, cryogenic tanks, pipelines and pipeline components, metal fittings, flanges, couplings and joints, valves, diagnostics, operation and testing equipment, equipment for the construction and maintenance of railway, lifting equipment. **Certification of processes** is conducted for compliance with the requirements of standard PN-EN ISO 3834 Quality requirements for welding of metallic materials and standard PN-EN 15085-2 Railway. Welding of railway vehicles and their components – Part 2: Quality requirements and certification of welding plants.

TDT conducts **certification of factory production control** for system 2+ defined in Regulation of the Minister of Infrastructure of 11 August 2004 on ways of declaring the conformity of construction products and the method of marking them with a construction mark¹⁶, introducing a Commission Decision No. 97/176/EC of 17 February 1997 on the procedure for attesting the conformity of construction products pursuant to art. 20, paragraph 2 of Council Directive 89/106/EEC as regards structural timber products and ancillaries¹⁷ as required by the standard: PN-EN 13145 Railway. Tor. Wooden sleepers and crossing timber and implementing Commission Decision No. 98/214/EC of 9 March 1998 on the procedure for attesting the conformity of construction products pursuant to Article 20(2) of Council Directive 89/106/EEC as regards structural metallic products and ancillaries¹⁸ as required in standard **PN – EN 1090 – 1** execution of steel

and aluminum structures. Part 1: Requirements for conformity assessment of structural components. In terms of this standard TDT has also notifications for products: hot-rolled, cold-bended or sections/metal profiles with various shapes produced differently (T, L, H, U, Z, I, channels, angle, hollow, tubes), flat products (plates, sheets, strips), bars, castings, forgings made of various metals, coated or not coated to protect against corrosion, to be used in metal structures or in complex metal and concrete structures, in the certificate of conformity system "2+".

Transportowy Dozór Techniczny carries out also certification of technology for welding, pressure welding, plastic processing and heat treatment. In terms of people, TDT is performing **competence certification** of non destructive testing personnel in the rail sector in accordance with PN-EN 473 non destructive testing – Qualification and certification of NDT personnel – General principles and welders in accordance with PN-EN 287-1 Qualification test of welders – welding – Part 1: steels, as well as PN-EN ISO 9606-2 qualification test of welders – welding – Part 2: Aluminum and aluminum alloys; thermite welders according to EN 14730-2 and operators of welding equipment and welding resistance setters for fully mechanized and automatic metal bonding in accordance with PN-EN 1418.

Transportation Technical Supervision certifies management systems for compliance with the requirements of standards PN-EN ISO 9001 Quality Management Systems, PN-EN ISO 14001 Environmental Management Systems and PN-N 18001 occupational health and safety management systems and PN-EN 12798 quality system for transport – road transport, rail and inland waterways – the quality system requirements, supplementary to EN ISO 9001 in scope of safety in the transport of dangerous goods. In this respect Transportation Technical Supervision has certificates of accreditation issued by the Polish Centre for Accreditation:

- Certificate of accreditation for inspection body – Accreditation No. AK 005;
- Certificate of accreditation for research laboratory – Accreditation No. AB 1141;
- Certificate of accreditation of the certification of management systems unit – Accreditation No. AC 111;
- Certificate of accreditation of product certification unit – Accreditation No. AC 126;
- Certificate of accreditation certifying person unit – no accreditation AC 163

It should be noted that the certification performed for compliance with the requirements of standards also meets requirements of Technical Specifications for Interoperability (TSI), which relate in detail to the scope of European standards associated with them, making for manufacturers and service providers to fulfill the conditions specified earlier in the TSI. Transportation Technical Supervision carries out technical inspection in the scope of railway, including wooden and concrete sleepers, rail fastening components to the sleepers, steel products, parts and assemblies for rolling stock (axles, wheels, wheel sets, suspension springs, springs, buffing and draw gears, brake parts, items of rolling stock, etc.). TDT performs technical inspection for German railways Deutsche Bahn, for the Austrian railways and others in Poland and abroad: the elements of the vehicle body rail bogie frames, wheel sets complete set of wheels, axles, buffing and draw gears, components for brake systems. TDT offers for railways and rail transport (such as underground and tram) verification of the technical documentation of the ordered rolling stock, supervision of the construction of vehicles, technical inspection of whole vehicles, inspection of elements for the construction of vehicles, including brake fittings, body, frames, etc., carts, wheel sets, axles, wheels, bearings, bumpers and screw couplers, steel products for railway rolling stock and railway tracks.

Polish manufacturers and service providers will have the opportunity to enter foreign markets with its products if the new European law is fully implemented in all EU countries in the scope of interoperability. If the rules and principles specified in the notification principles are followed, they will be the foundation for full liberalization across the EU and also in the particular field which is railway. These over state regulations should allow to overcome barriers and thus to arise Polish manufacturers and service providers on European markets. The main barrier is the national technical requirements in EU countries. Until they are consistent with the European requirements they will cause lengthening the approval time of products and services in each country separately. A chance for occurrence for our manufacturers and service providers in the European markets is the quality of products and services and the competence of the units assessing them such as Transportowy Dozór Techniczny, which is recognized by the European and national authorities of notified body.

⁷ DUWE L 181 z dnia 9.07.1997 r.

⁸ DUWE L 264 z dnia 8.10.2009 r.

⁹ DUWE L 165 z dnia 30.06.2010 r.

¹⁰ DUWE L 157 z dnia 9.06.2006 r.

¹¹ DUWE L 213 z dnia 7.09.1995 r.

¹² DUWE L 106 z dnia 3.05.2000 r.

¹³ DUWE L 40 z dnia 11.02.1989 r.

¹⁴ Dz. U. z 2000r. Nr 122 poz. 1321 z póź. zm.

¹⁵ Dz. U. z 2012r. poz. 919

¹⁶ Dz. U. z 2004r. Nr 198 poz. 2041

¹⁷ DUWE L 73 z 14.03.1997 r.

¹⁸ DUWE L 80 z 18.03.1998 r.