

REQUIREMENTS FOR EQUIPMENT SUPERVISED BY TECHNICAL INSPECTION

I. INSPECTION DEPARTMENT REQUIREMENTS FOR EQUIPMENT SUPERVISED BY THE OFFICE OF TECHNICAL INSPECTION/TRANSPORT TECHNICAL INSPECTION

1. Production of new devices:

- a) The design, manufacture, approvals, manuals, testing, marking and certification of the performance, testing and documentation should be compliant with:
 - As for pressure equipment–Pressure Directive PED2014 /68/EU.
 - As for non- pressurised equipment, the Polish Act on Technical Supervision (Journal of Laws No. 122, item1321) applies accordingly.
 - As for handling devices and machines, where applicable, the Machinery Directive MD 2006/42/EC and other Directives (e.g.ATEX, EMC, Lifts, etc.).TECHNICAL STANDARDS OF ANWIL S.A
- b) Supplied equipment must be CE marked in accordance with the Pressure Equipment Directive (PED) or the Machinery Directive (MD). The equipment and non-pressure and low-pressure equipment must be agreed with the Office of Technical Inspection. Equipment subject to the Transport Technical Inspection should be agreed with the Transport Technical Inspection.
- c) Pressure equipment, non- pressure equipment and pipelines should have strength calculations with calculations of the forces loading the spigots and the tightening torques of the flanged connections.
- d) Design and construction of pressure equipment so that all supervision tests (pressure test, internal inspection, NDT measurements)can be conducted in accordance with current regulations.
- e) As-built drawings of pipelines and tanks should have fixed measuring points according to the technical standards of ANWIL S.A. (for material thickness measurements).

2. Device registration:

- a) The Contractor will register devices subject to the Office of Technical Inspection/Transport Technical Inspection (obtain decisions permitting their operation) and deliver the documentation of such registered devices to the Inspection Department at ANWIL S.A (1 hardcopy and 1electroniccopy).
- b) As for equipment registered by ANWIL S.A. as a result of arrangements between ANWIL S.A. and the Contractor(omit subsection a), the Contractor will provide the Inspection Departmentwith1 copy of the complete registration documentation in hard copy and 1 electronic version for equipment subject to the Office of Technical Inspection, Transport Technical Inspection in accordance with the applicable regulations, enabling registration with the relevant government authorities (Office of Technical Inspection, Transport Technical Inspection). The registration documentation (for equipment under the supervision of the Office of Technical Inspection, Transport Technical Inspection)should be reviewed and approved (by the Office of Technical Inspection, Transport Technical Inspection)for completeness.
- c) Development of a scope and schedule for NDT testing, which will form the basis for replacement testing of the equipment (NDT testing replacing internal inspection and pressure test). The scope and schedule will be agreed by the Office of Technical Inspection

(for equipment under the supervision of the Office of Technical Inspection), the Inspection Department of ANWIL S.A. (as for other equipment).

- d) For each device, perform basic ultrasonic wall thickness measurements according to the measurement grid agreed with the Office of Technical Inspection. All measurements should be documented by reports in hard copy and excel file(to be provided by ANWIL S.A.). Measurements should be entered into the SZEOR/VISIONS programme in agreement with the Inspection Department of ANWIL S.A.
- e) At the initial stage of contract execution , the Contractor will draw up lists of all equipment (Line List and Equipment List), including technical data and subordination to the Office of Technical Inspection / Transport Technical Inspection /Plant Technical Supervision/ Maintenance Services (according to the Excel file provided by the Inspection Department of ANWILS.A.).
- f) As for shell-and-tube heat exchangers, supply process pipes in labelled packaging for calibration of eddy current NDT testing in the following quantities:
 - 2x1.5m for stainless steel,
 - 3x1.5 m for carbon steel.
- g) Detailed information on equipment subject to the supervision of the Office of Technical Inspection / Transport Technical Inspection is contained in the Regulation of the Polish Council of Ministers of 7December 2012ontypesoftechnical equipment subject to technical supervision(Journal of Laws 2012, item 1468).
- h) The scope and requirements for technical documentation, registration and operating instructions for equipment subject to technical supervision should be compliant with:
 - ☐ For pressure equipment - by the Regulation of the Minister of Development and Technology of 17 December 2021 on technical conditions of technical supervision for certain pressure equipment subject to technical supervision (Journal of Laws 2022, item 68).
 - ☐ As for non-pressure equipment–Regulation of the Polish Minister of Economy of 16 April 2002 on technical inspection requirements for non-pressurised and low-pressure tanks intended for the storage of toxic or corrosive substances (Journal of Laws2002, No. 63, item 572).
 - ☐ As for non-pressure devices–Regulation of the Polish Minister of Economy of 18 September 2001 on technical conditions for technical supervision to be met by non-pressurised and low-pressure tanks intended for the storage of flammable liquids(Journal of Laws2001 No. 113 item 1211).
 - ☐ As for materials handling equipment –by the Regulation of the Polish Minister of Enterprise and Technology of 30 October 2018 on technical conditions for the operation, repair and modernisation of materials handling equipment – for materials handling equipment (Journal of Laws 2018 item 2176).
 - ☐ As for filling and emptying devices – Regulation of the Polish Minister of Transport of 20 September 2006 on the technical conditions of technical supervision to be met by equipment for filling and emptying transport tanks (Journal of Laws of 2006, no. 181, item 1335).
 - ☐ As for railway tow trucks –Regulation of the Polish Minister of Transport of 20 September 2006 on technical conditions of technical supervision in the field of design, manufacture, operation, repair and modernisation of specialised continuous and materials handling equipment (Journal of Laws 2006, no. 178, item 1320).

II INSPECTION DEPARTMENT REQUIREMENTS FOR EQUIPMENT SUPERVISED BY THE PLANT TECHNICAL INSPECTION

1. Production of new devices:

- a) The design, manufacture, approvals, manuals, testing, marking and certification of the performance, testing and documentation should be compliant with:
 - As for pressure equipment – Pressure Directive PED 2014/68/EU.
 - As for non- pressurised equipment, the Polish Act on Technical Supervision (Journal of Laws No. 122, item 1321) applies accordingly.
 - As for handling devices and machines, where applicable, the Machinery Directive MD 2006/42/EC and other Directives (e.g. ATEX, EMC, Lifts, etc.).

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- b) The delivered equipment must be CE marked in accordance with the Pressure Equipment Directive (PED) or the Machinery Directive (MD).
- c) Pressure equipment, non- pressure equipment and pipelines should have strength calculations with calculations of the forces loading the spigots and the tightening torques of the flanged connections.
- d) Design and manufacture of pressure equipment so that all supervision tests (pressure test, internal inspection, NDT measurements) can be performed in accordance with applicable regulations.
- e) As-built drawings of pipelines and tanks should have fixed measurement points marked in accordance with the technical standards of ANWIL S.A. (for material thickness measurements).

2. Device registration:

- a) The Contractor will register devices subject to the Office of Technical Inspection/Transport Technical Inspection (obtain decisions permitting their operation) and deliver the documentation of such registered devices to the Inspection Department at ANWIL S.A. (1 hardcopy and 1 electronic copy).
- b) As for equipment registered by ANWIL S.A. as a result of arrangements between ANWIL S.A. and the Contractor (omit subsection a) the Contractor will provide the Inspection Department with 1 copy of the complete registration documentation in hard copy and 1 electronic version for equipment subject to the Office of Technical Inspection, Transport Technical Inspection in accordance with the applicable regulations, enabling registration with the relevant government authorities (Office of Technical Inspection, Transport Technical Inspection).A.
- c) Development of a scope and schedule for NDT testing, which will form the basis for replacement testing of the equipment (NDT testing replacing internal inspection).The scope and schedule will be agreed by the Inspection Department of ANWIL S.A.
- d) For each device, perform basic ultrasonic wall thickness measurements according to the measurement grid agreed with the Office of Technical Inspection. All measurements should be documented by reports in hard copy and excel file (to be provided by ANWIL S.A.). Measurements should be entered into the SZEOR/VISIONS programme in agreement with the Inspection Department of ANWIL S.A.
- e) At the initial stage of contract execution, the Contractor will draw up lists of all equipment (Line List and Equipment List), including technical data and subordination to the Office of Technical Inspection / Transport Technical Inspection/ Plant Technical Supervision/ Maintenance Services (according to the Excel file provided by the Inspection Department of ANWIL S.A.).
- f) As for shell-and-tube heat exchangers, process tubes for NDT eddy current test calibration are to be supplied in labelled packages in quantities:
 - 2x1.5m for stainless steel,
 - 3x1.5 m for carbon steel.

g) Detailed information on of Plant Technical Inspection's subordinate facilities contained in the following documents:

- ☐ Order No.78 /2020 of 15 December 2020 on: introduction of the & "Regulations of the Inspection Department at ANWIL S.A. together with annexes AZ1 /2021 and AZ2/2022 to this Order.
- ☐ Applicable TECHNICAL STANDARDS OF ANWIL S.A.