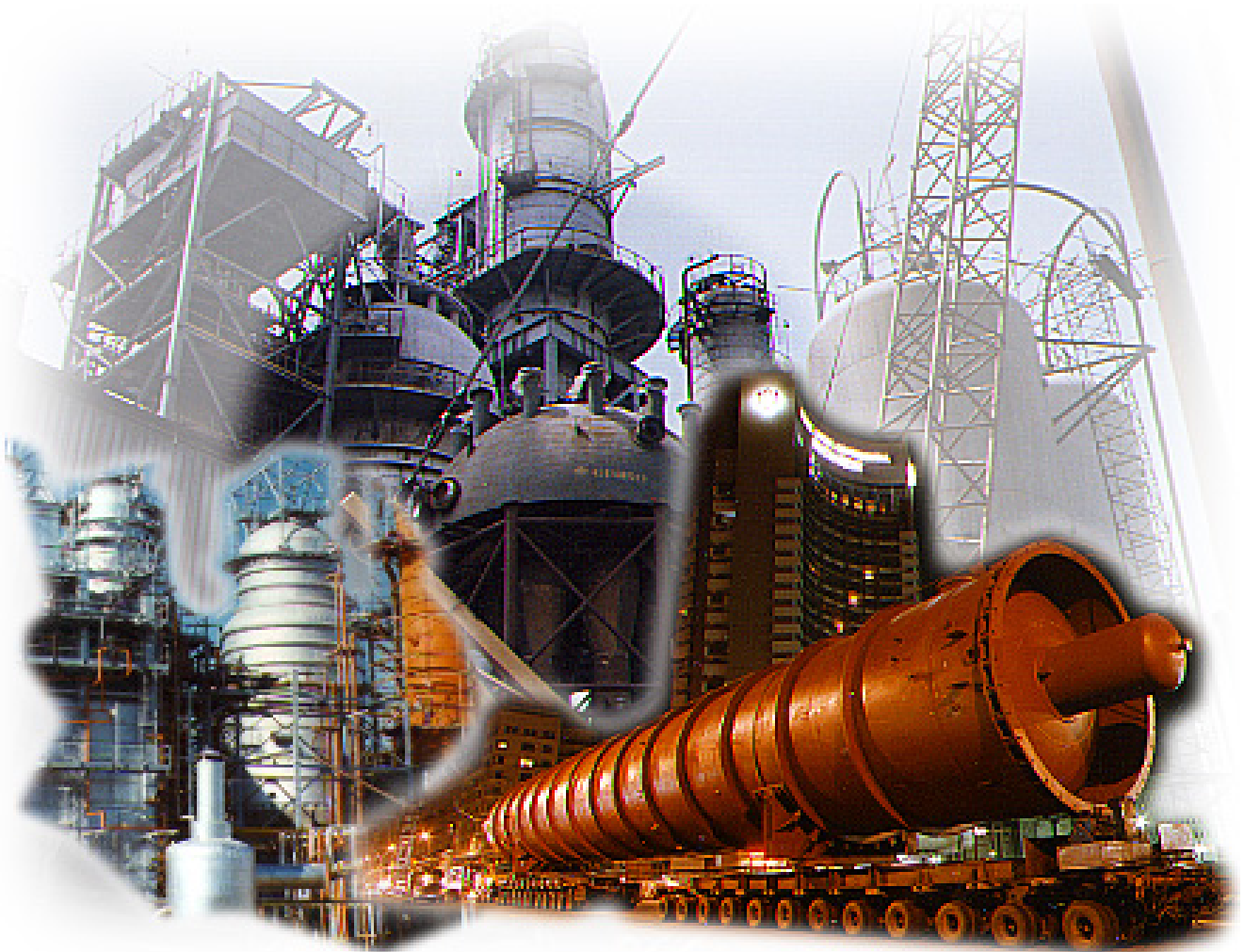




GRIRO S.A.

FOUNDED 1897

PROCESS EQUIPMENT MANUFACTURER



COMPANY PROFILE

ISO 9001:2008 CERTIFIED
ASME (S,U&U2) AUTHORIZED
PED 2014/68/EU

355-357 Grivitei Road ,
RO-010717 Bucharest S1,
ROMANIA

COMPANY PROFILE

DIRECT

Phone : +40-21-224.08.10
 : +40-21-224.09.81
Fax : +40-21-224.05.27
 : +40-21-224.13.69
E-mail : export@griro.ro
SWITCHBOARD : +40-21-224.08.10
FAX : mail@griro.ro

GRIRO, was established in 1897, at the present location in Bucharest, becoming the most important workshop of the Romanian National Railways for manufacturing and repairing of locomotives and railways cars.

Since 1961, the company has changed its line of business, being authorized to design and manufacture process equipment and during the years its facilities and capability have been proven and qualified for these activities by many clients and inspection organizations.

GENERAL

Today, **GRIRO** is a private shareholding company, with a paid capital of 33,420,338 RON and around 500 employees (as of November 2013), with an annual available capacity of 5,000 tons of process equipment.

Main products and services offered by **GRIRO**:

PRODUCTS

- Towers, Reactors, Separators, Drums;
- Solid and Overlayed High Wall Reactors and Pressure Vessels;
- Tank Containers (IMO 1, IMO 5);
- Heat Exchangers incl. Carbamate Condenser & Waste Heat Boilers
- Evaporators, Condensers and Preaheaters for Water Desalination Units;
- Air Coolers (GRIRO Fin Tubes);
- LP,IP & HP Preheaters, Condensers and Steam Drums for Power Plants;
- Granulators, Dryers, Autoclaves for Chemical Plants;
- Debarkers and Filters for Pulp Industry;
- Thick Wall Shell Rings and Dished Heads;
- Mechanical Design and on site NDE and Technical Assistance.

GRIRO manufactures Process Equipment in following material grades: carbon, low alloy, stainless steel, titanium, clad materials including monel, incoloy, inconel as well as nickel alloys.

CUSTOMERS

Main clients of **GRIRO** are major contractors for:

- Oil Refineries Plants and Petrochemical Industry;
- Gas Processing Plants (LNG and LPG);
- Fertilizers plants
- Sea Water Desalination Units;
- Power Stations;
- Pulp and Paper Industry.

The most representative projects and our major customers are shown in the attached list.

Company's facilities, consist of several office buildings workshop and warehouses with an overall area of 116,360 sq.m. from witch 71,011 sq.m. are covered space

FACILITIES

GRIRO is an integrated manufacturer with all the production facilities needed for process equipment manufacturing and inspection ie.g cutting, bending, welding, machining, heat treatment, non-destructive examinations, mechanical tests, hydraulic, pneumatic and leak tests, blasting, painting, packing as well as goods transportation acc. To INCOTERM conditions.

GRIRO's maximum fabrication capabilities for Process Equipment are limited to:

Diameter	8 meter
Length	60 meter
Wall Thickness (Hot/Cold Bending)	300/110 mm
Weight	300 tons

GRIRO's Engineering Division is staffed with experienced and qualified engineers performing with the following codes and standards:

List of International Codes and Standards used in Design

ENGINEERING

ASME (U-Designator)#	ASME Code Sect. VIII, Div.1 #
ASME (U2-Designator) #	ASME Code Sect. XIII, Div.2
ASME (S-Designator) #	# ASME Code Sect. I #
ASME B31.3	ASME Code for Pressure Piping
TEMA	Tubular Exchanger Manufacturers Association
API Standard 660	Shell and Tube Heat Exchanger for General Refinery Services

API Standard 661	Air-Cooler Heat Exchanger for General Refinery Services
PED 97/23/EC	Pressure Equipment Directive 97/23/EC
EN 13445	European Standard- Unfired Pressure Vessels
EN 12952	European Standard- Water- Tube Boilers and Auxiliary Installation
PD 5500	Unfired Fusion Welded Pressure Vessels- British Code
EN 13480	European Standard-Metallic Industrial Piping
AD- MERKBLATT	Pressure Vessels- Germany
TRD	Technical Rules for Steam Boilers
CODAP	Construction Code for Pressure Vessels- France Code
STOOMWEZEN	Rules for Pressure Vessels- Nederland Code
GOSGORTEHNADZOR	Construction Rules for Pressure Vessels- Russian Code
KAZAKHSTANERGO -R.O.K	Rules for Safe and Operation of Pressure Vessels- Kazakhstan Code
ISCIR 4	Design, Construction, Installation and Repair of Steel Pressure Vessels - Romania

For mechanical basic design specialized soft are:

1. COMPRESS-Acc.to ASME VIII Div.1&2 2017 Edition
2. FINGLOW – Local loads calculation acc. to WRC 107 & 297
3. ASPEN B-JAC-version 2004.2- Software for H/E acc.to ASME VIII Div.1 & TEMA 8th Edition
4. PROBAD- Software acc.to ADM vers 07.04.00, stand 11/2014
5. SAINT'AMBROGIO – Software acc. To EN 13445
6. PROBAD- Software acc.to EN 12952, vers 04.04.00, stand 11/2014
7. AUTODESK INVENTOR SERIES 11- for 3D Design

QUALITY ASSURANCE

GRIRO's Quality Assurance System meets various codes and regulations requirements being implemented and certified by official authorities, engineering companies and by all clients.

GRIRO's licenses & certificates are:

- **ISO 9001:2008** under certification of **Lloyd's Register Quality Assurance**
- **PED 97/23 EC Modul H and H1** by **Lloyd's Register**
- **ASME (S, U and U2 Designators)** by **American Society of Mechanical Engineers**
- **AD 2000 Merkblatt HP 0 and TRD 201** by **TÜV RHEINLAND Group**
- **EN ISO 3834-2** by **TÜV RHEINLAND**
- **LABORATORIES** are accredited acc. to **EN 17025:2005** by **RENAR**
- **GRIRO S.A.** is authorized by **CNCAN (National Commission for Nuclear Activity Control)** for **Nuclear Installation Components fabrication**
- **GRIRO S.A.** is authorized by **CNCAN (National Commission for Nuclear Activity Control)** for **Nuclear Engineering**
- **ISO 14001:2004** under certification of **Lloyd's Register Quality Assurance**
- **ISO 18001:2007** under certification of **Lloyd's Register Quality Assurance**
- **Manufacture License of Special Equipment (Boiler Level A)** certification by **General Administration of Quality Supervision, Inspection and Quarantine of P.R.China**
- **Manufacture License of Special Equipment (Pressure Vessel Level A1 and A2)** certification by **General Administration of Quality Supervision, Inspection and Quarantine of P.R.China**
- **(GPN) Belarus Gospromnadzor** by **Industry Works Safety Inspectorate of Ministry of Emergency**
- **EN 1090-1 - EC Certificate of Conformity** by **TÜV RHEINLAND**
- **EN 1090-2 - Welding Certificate** by **TÜV RHEINLAND**

GRIRO have all in-house required facilities for inspection, NDE, Mechanical and Chemical tests.

- SITE OVERVIEW -



Adress:
355 - 357 Grivitei Road,
010717, S1, Bucharest

NORTH

SUBWAY
STATION



CALEA GRIVITEI ROAD.

RAILWAY SYSTEM

OIL STORAGE

MAINTENANCE

SAND
BLASTING

HYDRAULIC
PRESS FOR
HEADS
1600 tf.

FORGING

HEAT TREATMENT

OFFICES

MAIN WAREHOUSE

X-RAY UNIT

MACHINING

PIPES WORKSHOP

INTERNALS

NOZZLES

TIRE CURING PRESSES

WORKSHOP

HEAT TREATMENT

REACTORS AND COLUMNS
WORKSHOP

WATER
TOWER

GARAGE

CUTTING

WELDING
LAB

X-RAY
UNIT

THICK WALL SHELL
PREPARATION
WORKSHOP

OFFICES

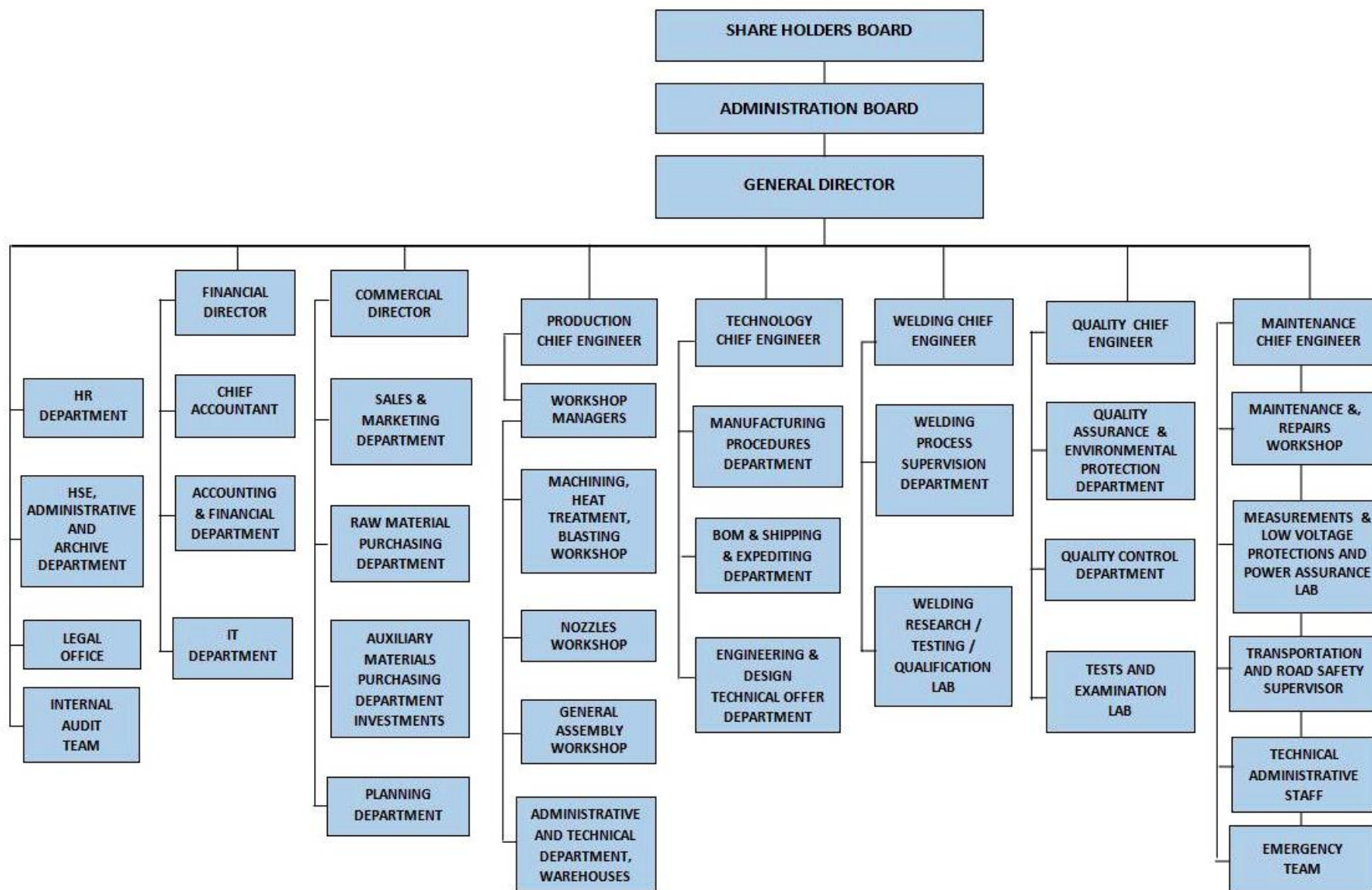
AIR COOLERS WORKSHOP

HEADS

HEAT EXCHANGERS

THIN WALL SHELL PREPARATION WORKSHOP

STAINLESS STEEL FABRICATION WORKSHOP



LIST OF MOST IMPORTANT MACHINES, INSTALLATIONS, EQUIPMENT AND TOOLS

Activity purpose	Equipment and Service	Pcs.	Capability
CUTTING	Automatic Gas Cutters	1 pc	(max. 200mm thk.)
	CNC Plasma Cutting Machine	1 pc.	Koike - Econograph 3100 (max. 300mm thk.)
	Plasma Arc Cutters	7 pcs.	(max. 40mm thk.)
FORMING AND BENDING	Plate Bending Rollers	7 pcs.	(max. 175/360x4000mm)
	Vertical bending profiles (3 rolls)	2 pcs.	
MACHINING AND DRILLING	NC Milling and Planing Machines	3 pcs.	(3000mm W x 12000mm L)
	NC Boring and Milling Machines	6 pcs.	(max. ø broach 250mm)
	CNC Vertical Lathes	3 pcs. 14 pcs.	(max. ø10000mm)
	Tubesheet NC Drilling Machines	2 pcs.	(max. ø 40mm; depth 1000mm) Modernized with Simmerik-PM-NC Siemens
	Automatic Expanders	3 pcs.	MAUS with electronic controller
	Torque Machine for Bolt Tightening	1 pc.	Hytorc (3500-35200Nm; 700bar)
	Vertical Drilling Machines	13 pcs.	
WELDING MACHINES	SAW	54 pcs.	Lincoln-1500A including Narrow Gap
	GTAW	12 pcs.	Hobart 350A, Lincoln Electric-350A
	SMAW	74 pcs.	Inverter 350A, Rectifier 650A
	GMAW+FCAW	17 pcs.	(6 synergic with pulse mode)
	Strip overlay	4 pcs.	
	Automatic Tube to Tubesheet	2 pcs.	(2 AMI 227; computer controlled)
	Tandem welding SAW	1 pc.	DC + AC / ESAB-SWEDEN-SAW Process
	Welding heads (with strip cladding head option)	3 pcs.	Electric & controlling system of the column and boom/ESAB Sweden type A6SFE1
	Multi – Purpose Grinding Head	1 pc.	KS-760/FARROS – Switzerland
	Tandem Welding Head DC + AC– SAW Process		ESAB-Sweden Highest productivity: deposition rate = 20 kg./hour (4 times than single welding head)
	TA-Roller Beds – SAW Process	3 pcs.	Equipment's = max 400 tons
		1 pc.	Equipment 40 tons – TA40:
	Electric & Controlling System of The Column and Boom	2 pcs.	Welding Heads ESAB Type A6SFE1 (With Strip Cladding Head Option)
		1 pc.	Roller Beds TA 40 tons, TA 200 tons
	Multi – Purpose Grinding Head	1 pc.	KS-760/FARROS – Switzerland Various applications: a) with grinding belts: -internal & external surfaces grinding -internal & external welds seam reinforcements grinding b) with grinding discs: - longitudinal & circumferential back-gauging
HEAT TREATMENT FURNACE	Size: 25 m x 10 m x 9,8 m	1 pc.	(1050°C, 24 Thermocouples, Rec.)
	Size :10 m x 10 m x 10 m	1 pc.	
	Local Pre-heating and PWHT Equipment (ELOTHERM + MILLER) Size: 8 m x 4 m x 2.5 m (one piece)	1+1 pcs.	optimum temp. rate: 500 - 700°C
INSPECTION AND TESTING EQUIPMENT	X-Ray Machines	3 pcs.	Max-240KV
	Gamma Ray Machines	4 pcs.	Co-150Ci/Ir-100Ci
	X-ray control1÷20 mm	2 pcs.	ANDREX SMART DIR. 225Kv, 4 mA ANDREX SMART PAN. 300Kv, 3mA
	Gamma radiation control Izotop Ir 192 40÷90 mm	2 pcs.	Sentinel Delta 880
	Gamma radiation control Izotop Co 60 38÷200 mm 60÷200 mm /	2 pcs.	TECH/OPS 676/664
	Radiographic Interpretation	2 pcs.	Negatoscop - Density range : 0,5÷5
		1 pc.	Densitometer LCD 51,PDA 85
	Transmitted optical density		
	Weightening device for 300 tons		
	Radiofilm developing	1 pc.	Automatic machine AGFA NDT ECO
		1 pc.	Radioflowmeter FH-40
	Radioactive intensity field		Power range : 45 Kev ÷ 1,45 Mev

INSPECTION AND TESTING EQUIPMENT	measurement		
	UT Flow Detector/Thick Gauge	3 pcs. 4 pcs.	USM 35 SX, Ultrasonic 2001
	Magnetic Particle Flow Detector	2 pcs.	NAMICON Alternating current electromagnetic yoke
	Liquid Penetrant Inspection Equipment		Manual
	Hydraulic Testing Machines (with Chart Recording)	5 pcs.	-Max. 1000 Bar
	Tensile Testing Machines	4 pcs.	-Max. 100 to
	Bend test	1 pc.	Compression machine
	Impact Testing Machines (Incl. Charpy-V0)	3 pcs.	-Max. 300 J
	Plating-out test and Mandrel enlargement Testing Machines	1 + 1 pcs.	40 tf AMSLER machine 100 tf Compression machine
	Pulling Testing Machine	1 pcs.	100 tf compression machine
	BRINELL hardness Testing Device	1 pc.	CV 3000 LBD equipped with computer, pressing force adjustable in range 62.5 - 3000Kgf
		1 pc.	- MIC 20 which measures hardness in two ways: Impact and UCI
	VICKERS hardness Testing Machine	1 pc.	VICKERS HV10 DAT 430 equipped with computer, pressing force adjustable in range 1, 5,10,30 Kgf (HV1, HV5, HV10, HV30)
	Furnace for sensitizing and hardening austenitic grain size	1 pc.	Ignition furnace type room1200 °C
	Feritoscope	1 pc.	
	Spectrometer	1 pc.	High precision (4ppm)
	Portable fluorescence X-ray device	1 pc.	Portable Spectrometer Model Alpha 2000
	Metal Analyzer T1 9277/Master Plus for PMI	1+1 pcs.	Portable, X-Ray emission for PMI (Positive material Identification)
	TOFD Equipment (Time of Flight Diffraction)	1 pc.	OLYMPUS
	Painting thk. measurement device	2 pcs.	SANKO-Japan
	Temperature measurement device	2 pcs.	
	Welding parameter measurement device	2 pcs.	
	Dew point measurement device	1 pc.	
	Blasting grade measurement device	1 pc.	
	Hellium tightness leak detector	1 pc.	Veeco type MS-20
OTHER EQUIPMENT FACILITIES	Blasting and Painting Shops	2 pcs.	
	Painting Room	1 pc.	
	Tube to Tubsheet Digital programmable controlled equipment	2 pcs.	MATEX PRO/2300 – MAUS ITALY”
	Vacuum Pumps	3 pcs.	
	Air less Painting Pump	1 pc.	GRACO”/ USA – with ELECTROSTATIC AIR SPRAY GUN “PRO Xs2”
	Plated Wise Spray System	1 pc.	Sulzer meteo type 14 EH
	Lifting Facilities	2 pcs.	160 t/ to
		5 pcs.	50 t/ to
	New technologies for clean and passivate GTAW welds on Stainless Steel	1 pc.	SURFOX 203 / WALTER – GERMANY



Lloyd's Register
LRQA

CERTIFICATE OF APPROVAL

This is to certify that the Quality Management System of:

GRIRO S.A.
Bucharest, 355-357 Calea Grivitei, 1 District
Romania

has been approved by Lloyd's Register Quality Assurance
to the following Quality Management System Standards:

ISO 9001:2008 EN ISO 9001:2008
SR EN ISO 9001:2008

The Quality Management System is applicable to:

Design and manufacture of process equipment for oil refining, gas processing, petrochemical, fertilizer, chemical, pulp and paper, rubber and food industries, power plants and fluid transportation. Fabrication of nuclear products CI.1 in accordance with national regulations. Civil and industrial construction works, projects and utility works for fluids, plumbing, electrical and heating works and engineering and technical consultancy associated activities.

Approval
Certificate No: BUC6008475

Original Approval: 10 November 2009

Current Certificate: 24 September 2015

Certificate Expiry: 14 September 2018


Issued by: Lloyd's Register (Romania) S.R.L.
For and on behalf of Lloyd's Register Quality Assurance Limited.



001

31 Ianului Avenue, 021716, 2 District, Bucharest
For and on behalf of 1 Trinity Park, Bickenhill Lane, Birmingham, B37 7ES, United Kingdom

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EC Certificate of Conformity

In accordance with the requirements of the Pressure Equipment Directive 97/23/EC and the Pressure Equipment Regulations 1999, UK Statutory Instrument 1999 No. 2001 and SI 2002 No. 1267

This is to certify that the Quality Management System of:

GRIRO SA
355-357, Calea Grivitei Street
010717 Bucharest, Romania

has been assessed against the requirements of Annex III, Module H of the Pressure Equipment Directive 97/23/EC, and Schedule 4, Module H of the Pressure Equipment Regulations 1999 and conforms to the requirements for the products shown below:

Design and manufacture of Boilers and Pressure Vessels made of Carbon Steel, Stainless Steel, High and Low Alloy Steels with working pressure up to 800 bar

Approval is subject to the continued maintenance of the quality system in accordance with the requirements of the above Directive and Regulations.

Authorisation is hereby given to use the LRV Notified Body Identification Number in accordance with the requirements of the specified Directive and Regulations in relation to the products as identified above.

Certificate No: 0038/PED/COV0811187/1
Original Approval: 09 December 2008
Current Certificate: 09 November 2015
Certificate Expiry: 08 November 2018
LRV Notified Body Number 0038



P Mintzaridis on behalf of Lloyd's Register Verification

Lloyd's Register Verification Limited (Reg. no. 4929225) is a limited company registered in England and Wales. Registered office: 71 Penton Street, London, EC3M 4BS, UK. A subsidiary of Lloyd's Register Group Limited.

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LR/EC/PED/H/Annex_2014/Rev.1

EC Certificate of Conformity

In accordance with the requirements of the Pressure Equipment Directive 97/23/EC and the Pressure Equipment Regulations 1999, UK Statutory Instrument 1999 No. 2001 and 2002 No. 1267

This is to certify that the Quality Management System of:

**GRIRO SA
355-357, Calea Grivitei Street
010717 Bucharest, Romania**

Has been assessed against the requirements of Annex III, Module H1 of the Pressure Equipment Directive 97/23/EC, and Schedule 4, Module H1 of the Pressure Equipment Regulations 1999 and conforms to the requirements for the products shown below:

Design and manufacture of Boilers and Pressure Vessels made of Carbon Steel, Stainless Steel, High and Low Alloy Steels with working pressure up to 800 bar

Approval is subject to the continued maintenance of the quality system in accordance with the requirements of the above Directive and Regulations, and continuing to comply with the EC Design Examination Certificate(s) as listed on the attached schedule.

Authorisation is hereby given to use the LRV Notified Body Identification Number in accordance with the requirements of the specified Directive and Regulations in relation to the products as identified above.

Certificate No:	0038/PED/COV0811187/2
Original Approval:	09 December 2008
Current Certificate:	09 November 2015
Certificate Expiry:	08 November 2018
LRV Notified Body Number	0038



P. Mintzaridis on behalf of Lloyd's Register Verification

Page 1 of 2

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK. A subsidiary of Lloyd's Register Group Limited.

LRV/EC/PED/H1-System/June_2014/Rev.1



Lloyd's Register (Romania) S.R.L.
Member of Lloyd's Register Group
Sos. Iancului, Nr. 31, Et. 3, Sector 2,
021716 Bucuresti
Romania

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Direct line	
Facsimile	+40 (0) 21 211 53 81
Email	bucharest@lr.org

www.lr.org

To WHOM IT MAY CONCERN

Our ref.	Griro/O-17023
Your ref	-
Contact	M. Rosca
Date	13.02.2017

SUBJECT:

EC Certificate of Conformity N° 0038/PED/COV0811187/1 and 0038/PED/COV0811187/2

We confirm that the EC Certificate of Conformity N° 0038/PED/COV0811187/1 and 0038/PED/COV0811187/2 dated 09th November 2015 and expiring on 08th November 2018 to GRIRO SA 355-357 Calea Grivitei Street Bucharest, are fully in compliance with the requirements of the Directive 2014/68/EU as per Art 48 of 2014/68/EU.

Mihaela Rosca
Operations Manager, Inspection Services
on behalf of Lloyd's Register Verification LTD

Working together for a safer world

Lloyd's Register, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as the 'Lloyd's Register Group'. The Lloyd's Register Group assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided,

Lloyd's Register (Romania) srl is a member of the Lloyd's Register Group

Company number is: 14560490



CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

**Griro S.A.
Calea Grivitei Nr. 355-357
Sector 1, Bucharest 010717
Romania**

SCOPE:

Manufacture and assembly of power boilers at the above location and field sites controlled by the above location

AUTHORIZED:

November 2, 2015

EXPIRES:

December 23, 2018

CERTIFICATE NUMBER:

34,297


Board Chair, Conformity Assessment


Director, Conformity Assessment





CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Griro S.A.
Calea Grivitei Nr. 355-357
Sector 1, Bucharest 010717
Romania

SCOPE:

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED:

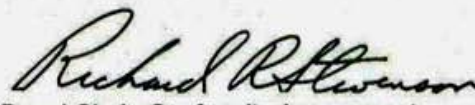
November 2, 2015

EXPIRES:

December 23, 2018

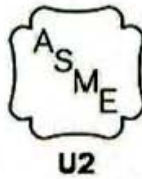
CERTIFICATE NUMBER:

34,298


 Board Chair, Conformity Assessment


 Director, Conformity Assessment





CERTIFICATE OF AUTHORIZATION

The named company is authorized by the American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the certification mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with this certification mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

**Griro S.A.
Calea Grivitei Nr. 355-357
Sector 1, Bucharest 010717
Romania**

SCOPE:

**Manufacture of pressure vessels at the above location and field sites controlled by
the above location**

AUTHORIZED:

November 2, 2015

EXPIRES:

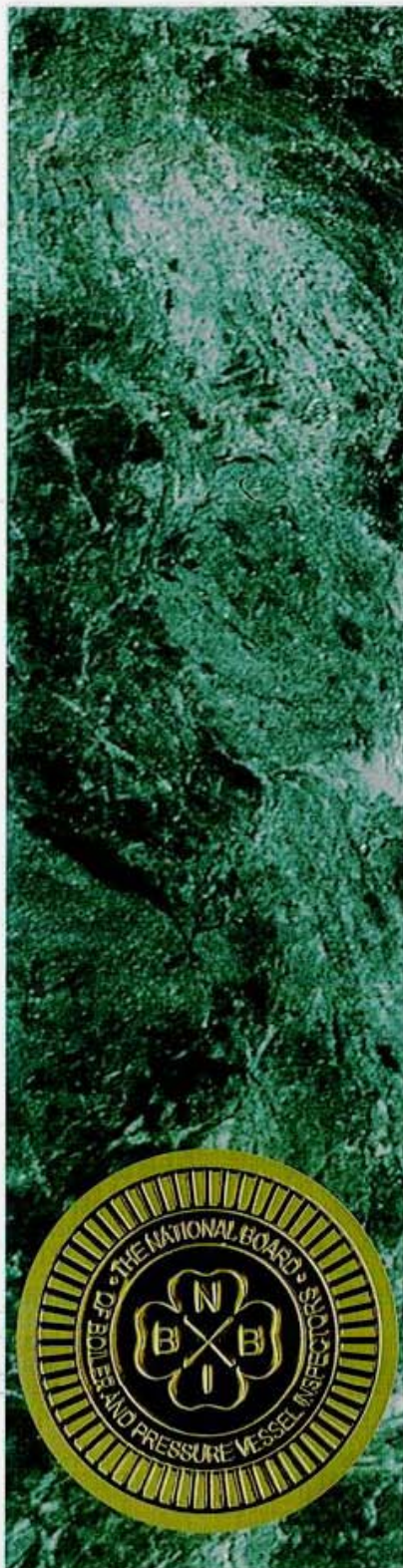
December 23, 2018

CERTIFICATE NUMBER: 34,299


Board Chair, Conformity Assessment


Director, Conformity Assessment





**THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS**

***Certificate of Authorization
to Register***



This is to certify that

**Griro S.A.
Calea Grivitei Nr. 355-357
Sector 1, Bucharest 010717
Romania**

*is authorized to apply the "NB" mark and register boilers,
pressure vessels or other pressure retaining items with the
National Board.*

*The scope of Authorization is limited to items manufactured
in accordance with:*

ASME Designator(s): U, U2, S

Issue Date: December 17, 2015

*This Certificate of Authorization to Register will remain in
effect as long as the manufacturing organization holds a
valid Certificate of Authorization issued by the American
Society of Mechanical Engineers.*

Executive Director

Certificate

Inspection of a manufacturer and welding shop

acc.AD 2000-Merkblatt HP 0 and DIN EN ISO 3834-2

Certificate no.:

01 202 RO/A-15 0091/Rev.01

Name and address of the
manufacturer:

SC GRIRO SA
Calea Grivitei 355-357
Bucharest, 010717

It is hereby certified that the manufacturer has furnished proof of the quality requirements. The above-mentioned company

- has facilities permitting manufacturing and inspection in conformity with the present technical standard,
- operates a quality system which guarantees that manufacturing and inspection of the products stated in our report are in conformity with the technical codes and regulations,
- employs qualified supervisory and inspection personnel.

Inspection:

**according to AD 2000-Merkblatt HP 0, TRD 201 and
DIN EN ISO 3834-2**

Test Report no.:

01 220 RO/A-15 0093

Area of Application:

The scope of the inspection and all other relevant data are given in the annex to the certificate.

Production Location:

SC GRIRO SA
Calea Grivitei 355-357
Bucharest, 010717

Valid until:

March 11, 2018

Cologne, May 25, 2015

i.A.S. Vg/S
i.A. Dipl.-Ing. S. Kreß



TÜV Rheinland-Certification Body for
Pressure Equipment
TÜV Rheinland Industrie Service GmbH
Am Grauen Stein, D-51105 Köln

M-010-Rev3

www.tuv.com

 **TÜVRheinland®**
Genau. Richtig.

ASOCIAȚIA DE ACREDITARE DIN ROMÂNIA - RENAR

București, Calea Vitan nr. 242, sector 3, cod 031301

CIF RO 4311980



RENAR este semnatar al EA-MLA pentru încercări.

CERTIFICAT DE ACREDITARE Nr. LI 813

Asociația de Acreditare din România – RENAR, fiind recunoscută ca Organism Național de Acreditare prin OG 23/2009, prin prezentul certificat atestă că organizația:

SC GRIRO SA

București, Calea Griviței nr. 335-357, sector 1

prin

LABORATORUL DE ÎNCERCĂRI DISTRUCTIVE, ANALIZE CHIMICE ȘI EXAMINĂRI NEDISTRUCTIVE

îndeplinește cerințele **SR EN ISO/CEI 17025:2005** și este competentă să efectueze activități de **ÎNCERCĂRI**, așa cum se detaliază în Anexa la prezentul certificat de acreditare.

Această acreditare este menținută cu condiția îndeplinirii în mod continuu a criteriilor de acreditare stabilite de Asociația de Acreditare din România - RENAR.

Prezentul certificat este însoțit de Anexa nr. 1 (4 pagini), parte integrantă a acestuia.

Pentru verificarea validității certificatului de acreditare, inclusiv a Anexei, se consultă website-ul RENAR, www.renar.ro.

Data acreditării inițiale: 26.02.2014

Data expirării acreditării: 25.02.2018

DIRECTOR GENERAL

PREȘEDINTE AL CONSILIULUI DE ACREDITARE

Cătălina Viorica NEAGUE

dr. ing. Dumitru DINU



Reproducerea parțială a prezentului certificat este interzisă.



CEOC
INTERNATIONAL



INSPECTIA DE STAT pentru CONTROLUL CAZANELOR,
RECIPIENTELOR SUB PRESIUNE și INSTALAȚIILOR de RIDICAT

I.S.C.I.R. ROMANIA

AUTORIZAȚIE nr. N-17-09

Atestă faptul că:

S.C. GRIRO S.A.

București, str. Calea Griviței Nr. 355-357, cod 010717, Sector 1
R.C.: J40/240/1991 C.U.Î. : RO 1576509

are stabilit și aplică un sistem de management al calității în conformitate atât cu standardele internaționale aplicabile cât și cu cerințele tehnice specifice din descrierea tehnică PT N N SCP 1-2008, pentru următoarele activități și tipuri de componente / echipamente care rețin presiunea din instalații nucleare, de clasă nucleară 1, 1C, 2, 2C, 3, 3C și clasă nenucleară (clasă 6);

- Fabricare și reparare recipiente cu parametri: $P_{max}=800$ bar, $T_{min}=-196^{\circ}C$, $T_{max}=+800^{\circ}C$, $Vol\ max=2000\ m^3$;
- Montare și reparare conducte și elemente de conducte cu parametri: $P_{max}=800$ bar, $T_{min}=-196^{\circ}C$, $T_{max}=+800^{\circ}C$, $D_{max}=2500\ mm$

În conformitate cu PV nr.2N-254 și Protocolul nr.2N / 069 încheiate la data de 08.12.2017

Auditul tehnic a fost efectuat în data de 14.01.2016 de către reprezentanții ISCIR. Probele furnizate de către S.C. GRIRO S.A. au demonstrat că aceasta are capacitatea tehnică pentru fabricarea, montarea și repararea componentelor / echipamentelor menționate, în conformitate cu cerințele standardelor internaționale, cu cerințele tehnice și cu celelalte cerințe legale aplicabile în domeniu, în vigoare în România.

ISCIR atestă că organizația menționată are capacitatea tehnică de a fabrica, monta și repara pentru România, componentele / echipamentele menționate, cu respectarea prevederilor Protocolului.

NOTĂ. Personalul tehnic de specialitate este nominalizat în Anexa la prezentul document.

AUTORIZAT: 14 decembrie 2017
DATA EMITERII: 12 decembrie 2017

EXPIRĂ: 13 decembrie 2019

INSPECTOR DE STAT ȘEF
Ing. Eugen Lucian Trifan



ISCIR ROMANIA - Adresa: Str. Ștefan cel Mare, nr. 47-49, Cod Postal: 050524, București

Cod F-IL 11/2, Ed 2, rev 0



GUVERNUL ROMÂNIEI
COMISIA NAȚIONALĂ PENTRU CONTROLUL
ACTIVITĂȚILOR NUCLEARE
Bd. Libertății nr. 14, Sector 5, 050706 – București
Telefon: 021 316 04 25
Fax: 021 317 38 87
OPERATOR DATE CU CARACTER PERSONAL NR. 35647

AUTORIZAȚIE
PENTRU SISTEMUL DE
MANAGEMENT AL CALITĂȚII ÎN DOMENIUL NUCLEAR
Nr. 17 – 024

În temeiul Art. 8 și Art. 24 din Legea Nr. 111/1996 privind desfășurarea în siguranță, reglementarea, autorizarea și controlul activităților nucleare, republicată, a normelor CNCAN privind sistemele de management al calității, ca urmare a analizării documentațiilor prezentate în Anexa nr. 01, Capitolul I,
Constatând că sunt îndeplinite prevederile legale,

COMISIA NAȚIONALĂ PENTRU CONTROLUL ACTIVITĂȚILOR NUCLEARE

AUTORIZEAZĂ
SISTEMUL DE MANAGEMENT AL CALITĂȚII
AL

GRIRO S.A.

din București, str. Calea Griviței, nr. 355-357, sector 1,
persoană juridică înregistrată la Oficiul Național al Registrului Comerțului,
Cod Unic de Înregistrare 1576509

pentru activități de
FABRICARE
în domeniul nuclear

În conformitate cu documentația prezentată, reglementările CNCAN pentru managementul calității în domeniul nuclear, clasa 1 de aplicare gradată acordată sistemului de management al calității, Codul ASME sect. III, subsecțiunea NCA, art. 3800 și 4000, limitele, condițiile și documentele din anexa nr. 01, care face parte integrantă din prezenta autorizație.

Răspunderea privind stabilirea și dezvoltarea sistemului de management al calității revine unității autorizate.

Intră în vigoare la data de: 21.09.2017
Expiră la data de: 20.09.2019


PRESEDINTE,
Rodin TRAIU

Pagina 1 din 3

Este interzisă reproducerea parțială a acestui document



GUVERNUL ROMÂNIEI
COMISIA NAȚIONALĂ PENTRU CONTROLUL
ACTIVITĂȚILOR NUCLEARE
Bd. Libertății nr. 14, Sector 5, 050706 – București
Telefon: 021 316 04 25
Fax: 021 317 38 87
OPERATOR DATE CU CARACTER PERSONAL NR. 35647

AUTORIZAȚIE
PENTRU SISTEMUL DE
MANAGEMENT AL CALITĂȚII ÎN DOMENIUL NUCLEAR
Nr. 16 – 035

În temeiul Art. 8 și Art. 24 din Legea Nr. 111/1996 privind desfășurarea în siguranță, reglementarea, autorizarea și controlul activităților nucleare, republicată, a normelor CNCAN privind sistemele de management al calității, ca urmare a analizării documentațiilor prezentate în Anexa nr. 01, Capitolul I,

Constatând că sunt îndeplinite prevederile legale,

COMISIA NAȚIONALĂ PENTRU CONTROLUL ACTIVITĂȚILOR NUCLEARE

AUTORIZEAZĂ
SISTEMUL DE MANAGEMENT AL CALITĂȚII
AL

S.C. GRIRO S.A.

din București, str. Calea Griviței, nr. 355-357, sector 1, cod poștal: 010717,
persoană juridică înregistrată la Oficiul Național al Registrului Comerțului,
Cod Unic de Înregistrare 1576509

pentru activități de
PROIECTARE
în domeniul nuclear

În conformitate cu documentația prezentată, reglementările CNCAN pentru managementul calității în domeniul nuclear, limitele, condițiile și documentele din anexa nr. 01, care face parte integrantă din prezenta autorizație.

Răspunderea privind stabilirea și dezvoltarea sistemului de management al calității revine unității autorizate.

Intră în vigoare la data de: **13.08.2016**
Expiră la data de: **12.08.2018**



Pagina 1 din 3

Este interzisă reproducerea parțială a acestui document

中华人民共和国
特种设备制造许可证
Manufacture License of Special Equipment
People's Republic of China
(压力容器) (Pressure Vessel)

No.: TS2200B86-2018

公司/ Company: GRIRO S.A.

地址/ Address: 355-357 CALEA GRIVITEI, BUCHAREST ROMANIA

经审查，获准从事下列压力容器的制造：

Has been audited and approved to manufacture the Pressure Vessels within the scope as:

级别 Level	类别 Classification	品种 Category	备注 Remark
A1	固定式压力容器 Stationary Pressure vessel	第三类压力容器 Pressure Vessel III	高压容器限单层 Single Layered High Pressure Vessel Only
A2	固定式压力容器 Stationary Pressure vessel	第三类压力容器 Pressure Vessel III	

审批机关：

Approval/Issue Organ:
General Administration of Quality Supervision
Inspection and Quarantine of the People's Republic of China

有效期至：2018 年 12 月 05 日

Date of Expiration: Dec.5.2018

发证机关：

Issue Organ:

发证日期：2015 年 08 月 20 日

Date of Issue: Aug.20.2015



国家质量监督检验检疫总局制

中华人民共和国
特种设备制造许可证
Manufacture License of Special Equipment
People's Republic of China
(锅炉) (Boiler)

No.: TS2100B86-2018

公司/ Company: GRIRO S.A.

地址/ Address: 355-357 CALEA GRIVITEI, BUCHAREST ROMANIA

经审查，获准从事下列锅炉的制造：

Has been audited and approved to manufacture the Boilers within the scope as:

A 级锅炉部件（限锅筒）/

Parts of Boilers A (Boiler Drums Only)

审批机关：

Approval/Issue Organ:
General Administration of Quality Supervision,
Inspection and Quarantine of the People's Republic of China

有效期至：2018 年 12 月 05 日

Date of Expiration: Dec.5, 2018

发证机关：

Issue Organ

发证日期：2015 年 08 月 20 日

Date of Issue: Aug 20, 2015



国家质量监督检验检疫总局制

CERTIFICATE OF APPROVAL

This is to certify that the Environmental Management System of:

GRIRO S.A.
355 – 357 Grivitei Road, District 1, Bucharest
Romania

has been approved by Lloyd's Register Quality Assurance
to the following Environmental Management System Standards:

ISO 14001:2004 ; EN ISO 14001:2004 ;
SR EN ISO 14001:2005

The Environmental Management System is applicable to:

Design, manufacture, overhaul, service and technical assistance for assembly and installation works for:

- **machineries and process equipment for the industries: chemical, petrochemical, energetic, waste water treatment, transportation of fluids, fabrication of pulp and paper, plastics and rubber, textile fabrics, clothing and skin dressing, food industries;**
- **other machinery and equipment: steam generators, ovens, furnaces, burners, vessels, metallic tanks and containers;**
- **cold formed metal profiles, metallic products and components for lifting and handling equipment, metallic structures and installations for civil and industrial construction (including for roads, highways, telecommunication and utilitarian projects).**

Manufacture of other metallic products (tools, screws, bolts and other threaded items). Technical testing and analysis, specialized design, engineering and technical consulting in the above activity fields. Fabrication of process equipments (Cl. 1 in accordance with the national regulations) for nuclear applications.

Trade brokerage for industrial machinery and equipment. Civil and industrial construction works, projects and utility works for fluids, plumbing, electrical and heating works and engineering and technical consultancy associated activities.

Approval
Certificate No: BUC6009942

Original Approval: 28 June 2010

Current Certificate: 31 May 2016

Certificate Expiry: 14 September 2018

Issued by: Lloyd's Register (Romania) S.R.L. for and on
behalf of Lloyd's Register Quality Assurance Limited.



001

31 Iancului Avenue, 021716, 2 District, Bucharest

For and on behalf of 1 Trinity Park, Bickenhill Lane, Birmingham, B37 7ES, United Kingdom

This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.

The use of the UKAS Accreditation Mark indicates Accreditation in respect of those activities covered by the Accreditation Certificate Number 001
Macro revision 14

Lloyd's Register Group Limited, its affiliates and subsidiaries, including Lloyd's Register Quality Assurance Limited (LRQA), and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

CERTIFICATE OF APPROVAL

This is to certify that the Occupational Health & Safety Management System of:

GRIRO S.A.
355 – 357 Grivitei Road, District 1, Bucharest
Romania

has been approved by Lloyd's Register Quality Assurance
to the following Management System Standards:

OHSAS 18001:2007; SR OHSAS 18001:2008

The Occupational Health & Safety Management System is applicable to:

Design, manufacture, overhaul, service and technical assistance for assembly and installation works for:

- **machineries and process equipment for the industries: chemical, petrochemical, energetic, waste water treatment, transportation of fluids, fabrication of pulp and paper, plastics and rubber, textile fabrics, clothing and skin dressing, food industries;**
 - **other machinery and equipment: steam generators, ovens, furnaces, burners, vessels, metallic tanks and containers;**
 - **cold formed metal profiles, metallic products and components for lifting and handling equipment, metallic structures and installations for civil and industrial construction (including for roads, highways, telecommunication and utilitarian projects).**
- Manufacture of other metallic products (tools, screws, bolts and other threaded items).
Technical testing and analysis, specialized design, engineering and technical consulting in the above activity fields. Fabrication of process equipments (Cl. 1 in accordance with the national regulations) for nuclear applications.**

Trade brokerage for industrial machinery and equipment. Civil and industrial construction works, projects and utility works for fluids, plumbing, electrical and heating works and engineering and technical consultancy associated activities.

Approval
Certificate No: BUC6009943

Original Approval: 28 June 2010

Current Certificate: 31 May 2016

Certificate Expiry: 27 June 2019


Issued by: Lloyd's Register (Romania) S.R.L. for and on
behalf of Lloyd's Register Quality Assurance Limited.



31 Iancului Avenue, 021716, 2 District, Bucharest

For and on behalf of 1 Trinity Park, Bickenhill Lane, Birmingham, B37 7ES, United Kingdom

This approval is carried out in accordance with the LRQA assessment and certification procedures and monitored by LRQA.

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Macro revision 14

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Welding Certificate

TÜVRh-EN1090-2.00007.2016.003

in accordance with EN 1090-1, table B.1, its hereby declared:
The manufacturer has produced evidence that he fulfills the requirements of the European
standard EN 1090-2 for execution of structural steel components

Manufacturer	Griro S.A.
	Calea Grivitei, no. 355-357 010717 Bucharest ROMANIA
Technical specification	EN 1090-2:2008+A1:2011
Execution class(es)	EXC3 according to EN 1090-2
Welding Process(es) (Reference no. acc. to DIN EN ISO 4063)	111 - Manual metal arc welding (Continuation see back side)
Material Group	1.1, 1.2 according to CEN ISO/TR 15608 and EN 1090-2, table 2 and 3
Responsible Welding Coordinator (Title, Surname, Name, Qualification, Date of birth)	Ruxandra Petcovivi, IWE born on: 12.10.1982
Substitute (Title, Surname, Name, Qualification, Date of birth)	Ion-Dorel Ene, Level C born on: 22.02.1984 Catalin Pavalache, IWE born on: 30.12.1984
Confirmation	All provisions concerning welding as described in the above mentioned technical specification(s) were applied.
Validity start	21.11.2014
Period of validity	20.11.2018
Remarks	-

Place and date of issue Cologne, 29.11.2016
Ceausu/NW



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MINISTERUL ECONOMIEI, COMERȚULUI
ȘI RELAȚIILOR CU MEDIUL DE AFACERI
INȘPECȚIA DE STAT PENTRU CONTROLUL CAZANELOR,
RECIPIENTELOR SUB PRESIUNE ȘI INSTALAȚIILOR DE RIDICAT



DISPR/CR6/TIPC/0001/1/21.12.2015



ACTUALIZARE A AUTORIZAȚIEI

DISPR/CR6/TIPC/0001/0/16.02.2011

În baza Legii nr. 64/2008 privind funcționarea în condiții de siguranță a instalațiilor sub presiune, instalațiilor de ridicat și aparatelor consumatoare de combustibil, republicată, cu modificările și completările ulterioare, a prevederilor prescripției tehnice CR6-2013, aprobată prin ordinul ministrului economiei nr. 1001/30.04.2013, și a procesului verbal nr. 3N-260 din 04.12.2015.

1. Persoană juridică:

S.C. GRIRO S.A.

București, Calea Griviței, nr. 355-357, sector 1
J40/240/1991/, CUI RO: 1576509.

2. Adresă laborator: București, Calea Griviței, nr. 355-357, sector 1 Tel/Fax: 021 2240810, 021 2240742

3. Domeniul de autorizare:

RT - Examinarea cu radiații penetrante, specialitatea (X)

4. Personal tehnic de specialitate: RTEND

d-l. Gabriel Stere

5. Mențiuni:

Orice modificare care conduce la neîndeplinirea cerințelor în baza cărora s-a acordat autorizația, trebuie anunțată la ISCIR de către persoana juridică autorizată, în termen de cel mult 15 zile calendaristice de la data la care aceasta s-a produs.

Persoana juridică, prin reprezentanții săi legali împreună cu personalul nominalizat în autorizație, răspunde de respectarea prevederilor legale în domeniu.

INSPECTOR DE STAT SEF

ing. Eugen Bucian, Trifan



Str. Sf. Elefterie nr. 47-49, sector 5
Cod 050524, BUCUREȘTI - ROMÂNIA
Telefon: (+4021) 411.97.60; 411.97.61
Fax: (+4021) 410.00.19
Web: www.iscir.ro

Cod fiscal: 9731330
Banca: Trezoreria Operativă Sector 5
Cont IBAN: RO65TREZ7055032XXX008683 (facturare a veniturilor pentru bugetul de stat)
Operator de date cu caracter personal nr. 17290
1/1



DISPR/CR6/TIPD/0002/1/21.12.2015



ACTUALIZARE A AUTORIZAȚIEI

DISPR/CR6/TIPD/0002/0/16.02.2011

În baza Legii nr. 64/2008 privind funcționarea în condiții de siguranță a instalațiilor sub presiune, instalațiilor de ridicat și aparatelor consumatoare de combustibil, republicată, cu modificările și completările ulterioare, a prevederilor prescripției tehnice CR6-2013, aprobată prin ordinul ministrului economiei nr. 1001/30.04.2013, și a procesului verbal nr. 3N-260 din 04.12.2015.

1. Persoană juridică:

S.C. GRIRO S.A.

București, Calea Grivitei, nr. 355-357, sector 1
J40/240/1991/, CUI RO: 1576509.

2. Adresă laborator: București, Calea Grivitei, nr. 355-357, sector 1 Tel/Fax: 021 2240810, 021 2240742

3. Domeniul de autorizare:

RT - Examinarea cu radiații penetrante, specialitatea (γ)

4. Personal tehnic de specialitate: RTEND

d-l. Gabriel Stere

5. Mențiuni:

Orice modificare care conduce la neîndeplinirea cerințelor în baza cărora s-a acordat autorizația, trebuie anunțată la ISCIR de către persoana juridică autorizată, în termen de cel mult 15 zile calendaristice de la data la care aceasta s-a produs.
Persoana juridică, prin reprezentanții săi legali împreună cu personalul nominalizat în autorizație, răspunde de respectarea prevederilor legale în domeniu.

INSPECTOR DE STAT SEF

ing. Eugen Lucian Trifan



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Cod 050524, BUCUREȘTI - ROMÂNIA
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Operator de date cu caracter personal nr. 17290
1/1



MINISTERUL ECONOMIEI, COMERȚULUI
ȘI RELAȚIILOR CU MEDIUL DE AFACERI
INSPECȚIA DE STAT PENTRU CONTROLUL CAZANELOR,
RECIPIENTELOR SUB PRESIUNE ȘI INSTALAȚIILOR DE RIDICAT



DISPR/CR6/TIPF/0002/2/21.12.2015



ACTUALIZARE A AUTORIZAȚIEI

DISPR/CR6/TIPF/0002/1/10.01.2013

În baza Legii nr. 64/2008 privind funcționarea în condiții de siguranță a instalațiilor sub presiune, instalațiilor de ridicat și aparatelor consumatoare de combustibil, republicată, cu modificările și completările ulterioare, a prevederilor prescripției tehnice CR6-2013, aprobată prin ordinul ministrului economiei nr. 1001/30.04.2013, și a procesului verbal nr. 3N-260 din 04.12.2015.

1. Persoană juridică:

S.C. GRIRO S.A.

București, Calea Griviței, nr. 355-357, sector 1
J40/240/1991/, CUI RO: 1576509.

2. Adresă laborator: București, Calea Griviței, nr. 355-357, sector 1
Tel/Fax: 021 2240810, 021 2240742

3. Domeniul de autorizare:

UT– Examinări cu ultrasunete, specialitatea (s,t)
(pentru domeniul 4mm-8mm)

Personal tehnic de specialitate: RTEND

d-l. Constantin Grănescu

4. Mențiuni:

Orice modificare care conduce la neîndeplinirea cerințelor în baza cărora s-a acordat autorizația, trebuie anunțată la ISCIR de către persoana juridică autorizată, în termen de cel mult 15 zile calendaristice de la data la care aceasta s-a produs.

Persoana juridică, prin reprezentanții săi legali împreună cu personalul nominalizat în autorizație, răspunde de respectarea prevederilor legale în domeniu.

INSPECTOR DE STAT ȘEF
ing. Eugen Lucian Trifan



Str. Sf. Elefterie nr. 47-49, sector 5
Cod 050524, BUCUREȘTI - ROMÂNIA
Telefon: (+4021) 411.97.60; 411.97.61
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Web: www.iscir.ro

Cod fiscal: 9731330
Banca : Trezoreria Operativă Sector 5
Cont IBAN: RO65TREZ7055032XXX008683 (facturare a veniturilor pentru bugetul de stat)
Operator de date cu caracter personal nr. 17290
1/1



DISPR/CR6/TIPE/0002/1/21.12.2015



ACTUALIZARE A AUTORIZAȚIEI

DISPR/CR6/TIPE/0002/0/16.02.2011

În baza Legii nr. 64/2008 privind funcționarea în condiții de siguranță a instalațiilor sub presiune, instalațiilor de ridicat și aparatelor consumatoare de combustibil, republicată, cu modificările și completările ulterioare, a prevederilor prescripției tehnice CR6-2013, aprobată prin ordinul ministrului economiei nr. 1001/30.04.2013, și a procesului verbal nr. 3N-260 din 04.12.2015.

1. Persoană juridică:

S.C. GRIRO S.A.

București, Calea Griviței, nr. 355-357, sector 1
J40/240/1991/, CUI RO: 1576509.

2. Adresă laborator: București, Calea Griviței, nr. 355-357, sector 1 Tel/Fax: 021 2240810, 021 2240742

3. Domeniul de autorizare:

UT(g)–Măsurarea grosimilor cu ultrasunete

4. Personal tehnic de specialitate: RTEND

d-l. Constantin Grănescu

5. Mențiuni:

Orice modificare care conduce la neîndeplinirea cerințelor în baza cărora s-a acordat autorizația, trebuie anunțată la ISCIR de către persoana juridică autorizată, în termen de cel mult 15 zile calendaristice de la data la care aceasta s-a produs.
Persoana juridică, prin reprezentanții săi legali împreună cu personalul nominalizat în autorizație, răspunde de respectarea prevederilor legale în domeniu.

INSPECTOR DE STAT ȘEF
ing. Eugen Lucian Trifan



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1 / 1



DISPR/CR6/TIPB/0002/1/21.12.2015



ACTUALIZARE A AUTORIZAȚIEI

DISPR/CR6/TIPB/0002/0/16.02.2011

În baza Legii nr. 64/2008 privind funcționarea în condiții de siguranță a instalațiilor sub presiune, instalațiilor de ridicat și aparatelor consumatoare de combustibil, republicată, cu modificările și completările ulterioare, a prevederilor prescripției tehnice CR6-2013, aprobată prin ordinul ministrului economiei nr. 1001/30.04.2013, și a procesului verbal nr. 3N-260 din 04.12.2015.

1. Persoană juridică:

S.C. GRIRO S.A.

București, Calea Griviței, nr. 355-357, sector 1
J40/240/1991/, CUI RO: 1576509.

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3. Domeniul de autorizare:

MT - Examinări cu pulberi magnetice

4. Personal tehnic de specialitate: RTEND

d-l. Constantin Grănescu

5. Mențiuni:

Orice modificare care conduce la neîndeplinirea cerințelor în baza cărora s-a acordat autorizația, trebuie anunțată la ISCIR de către persoana juridică autorizată, în termen de cel mult 15 zile calendaristice de la data la care aceasta s-a produs.

Persoana juridică, prin reprezentanții săi legali împreună cu personalul nominalizat în autorizație, răspunde de respectarea prevederilor legale în domeniu.

INSPECTOR DE STAT ȘEF
ing. Eugen Lucian Trifan



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Operator de date cu caracter personal nr. 17290
1/1



MINISTERUL ECONOMIEI, COMERȚULUI
ȘI RELAȚIILOR CU MEDIUL DE AFACERI
INSPECȚIA DE STAT PENTRU CONTROLUL CAZANELOR,
RECIPIENTELOR SUB PRESIUNE ȘI INSTALAȚIILOR DE RIDICAT



DISPR/CR6/TIPA/0003/1/21.12.2015



ACTUALIZARE A AUTORIZAȚIEI

DISPR/CR6/TIPA/0003/0/16.02.2011

În baza Legii nr. 64/2008 privind funcționarea în condiții de siguranță a instalațiilor sub presiune, instalațiilor de ridicat și aparatelor consumatoare de combustibil, republicată, cu modificările și completările ulterioare, a prevederilor prescripției tehnice CR6-2013, aprobată prin ordinul ministrului economiei nr. 1001/30.04.2013, și a procesului verbal nr. 3N-260 din 04.12.2015.

1. Persoană juridică:

S.C. GRIRO S.A.

București, Calea Griviței, nr. 355-357, sector 1
J40/240/1991/, CUI RO: 1576509.

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Orice modificare care conduce la neîndeplinirea cerințelor în baza cărora s-a acordat autorizația, trebuie anunțată la ISCIR de către persoana juridică autorizată, în termen de cel mult 15 zile calendaristice de la data la care aceasta s-a produs.
Persoana juridică, prin reprezentanții săi legali împreună cu personalul nominalizat în autorizație, răspunde de respectarea prevederilor legale în domeniu.

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1/1

LIST OF MOST REPRESENTATIVE EXPORT PROJECTS FOR WHICH
GRIRO S.A.
HAS DELIVERED PROCESS EQUIPMENT

CLIENT & PROJECT	ENGINEERING & CONSTRUCTION	EQUIPMENT	YEAR OF DELIVERY	INSPECTION
Raytheon Eng's & Constr. NEPCO Caridenden, Scotland	GRIRO	LP, HP Steam Drums	2000	Lloyd's Register S Stamped
Raytheon Eng's & Constr. Griffiths Project, USA	GRIRO	HP, IP, LP Steam Drums	2000	Lloyd's Register S Stamped
Raytheon Eng's & Constr. Payne Creek Pj., USA	GRIRO	HP, IP, LP Steam Drums	2000	Lloyd's Register S Stamped
Fluor Daniel, U.K. Tengizchevroil, Tengiz, Kazakhstan	GRIRO	Column, Degassing Tank, Vessels	2000	Lloyd's Register U Stamped
UOP EL MEX, AMOC Refinery, Egypt	GRIRO	Adsorbers Surge Drum	2000	UOP, Tecnicas Reunidas
Raytheon Eng's & Constr. BLACK&VEATCH, Casagrande Arizona Pj., USA	GRIRO	Flash Tanks	2000	Lloyd's Register U Stamped
Raytheon Eng's & Constr. Saudi Arabian Company, Abqaiq Pj., Saudi Arabia	GRIRO	HP Drums	2000	Lloyd's Register U Stamped
Raytheon Eng's & Constr. General Electric, Castellon Pj., Spain	GRIRO	HP, IP, LP Steam Drums	2000	Lloyd's Register U Stamped
ALSTOM Heat Exchange, France Centrales de Suez - Egypt	GRIRO	HP, LP Heaters, Vessels Deaerator/Storage Tank	2001	Lloyd's Register U Stamped
ALSTOM Heat Exchange, France Tamuin Project - Mexico	GRIRO	HP, LP Heaters	2001	Lloyd's Register U Stamped
ALSTOM Heat Exchange, France Zhangzhou Houshi – China	GRIRO	HP, LP Heaters Degasser, Drain Tank	2001	Lloyd's Register U Stamped
ALSTOM Heat Exchange, France Can Project – Turkey	GRIRO	HP, LP Heaters Degasser, Tank, Vessel	2001	Hartford U Stamped, PED
Austrian Energy/ NEM-Holland Al Taweelah Pj. UAE	NEM	HP Steam Drums Blow Down Tank	2001	Lloyd's Register S Stamped
NEM-Holland Arcos de la Frontera Pj., Spain	NEM	HP, IP, LP Steam Drums	2001	Hartford S Stamped, PED
NEM-Holland Brush Pj. USA	NEM	HP Steam Drums	2001	Lloyd's Register S Stamped
NEM-Holland Arapahoe Pj. USA	NEM	HP, LP Steam Drums	2001	Lloyd's Register S Stamped
NEM-Holland.; General Electric, Harquahala Pj. USA	NEM	HP, IP, LP Steam Drums	2001	Lloyd's Register S Stamped
Ishikawajima Harima Heavy Ind, Japan Wyandotte Pj. Mirant Wyandotte LLC - USA	IHI	HP, IP, LP Steam Drums	2001	Lloyd's Register S Stamped
GRP-Multi-Logistics SA Switzerland	GRIRO	IMO5 Tankcontainers	2001	Bureau Veritas DOT51, Exempted
NEM-Holland Cliffs Pj., USA	GRIRO	HP, LP Steam Drums	2002	Lloyd's Register S Stamped

NEM-Holland Kelso Ridge,USA	GRIRO	HP,IP,LP Steam Drums	2002	Lloyd's Register S Stamped
NEM-Holland Hines PB2 Pj.,USA	GRIRO	HP,IP,LP Steam Drums	2002	Lloyd's Register S Stamped
NEM GmbH Tarragona Pj. Spain	GRIRO	HP,IP,LP Steam Drums	2002	Hartford Lloyd's Register S Stamped, PE
Ishikawajima-Harima Heavy Ind.-Japan Bowline (Mirant A); USA	IHI	HP, IP, LP Steam Drums	2002	Lloyd's Register S Stamped
Ishikawajima-Harima Heavy Ind.-Japan Portage, Wisconsin (Mirant B); USA	IHI	HP, IP, LP Steam Drums	2002	Lloyd's Register S Stamped
Tecnicas Reunidas – Spain 1500 First Lab Pj. – Iran	GRIRO	Columns	2002	
Austrian Energy Brighton Beach Pj. – Canada	GRIRO	HP,IP,LP Steam Drums	2002	Lloyd's Register S Stamp
NEM GmbH Ribatejo Pj. – Portugal	GRIRO	HP,IP,LP Steam Drums	2002	ASME PED
NEM-Holland Spalding UK	GRIRO	HP,IP,LP Steam Drums	2002	Lloyd's Register S Stamped
Krupp-Uhde GmbH – Germany Ammonia/Urea Complex Tecen, Turkmenistan	GRIRO	Secondary Reformer	2002	Lloyd's Register U Stamped
Environmental Engineering Co.-Japan Deir Alla-Zai-Amman Water Expansion Pj. - Jordan	GRIRO	Surge Vessel	2002	TUV
Alstom Power Heat Exchange, France Centrale de Prony - New Caledonia	GRIRO	HP,LP Heaters	2002	Lloyd's Register S Stamped
Alstom Power Heat Exchange, France Taiwan Power Co., Lungmen Nuclear Power Plant	GRIRO	Ejector Condensers	2002	Lloyd's Register
Alstom Power Heat Exchange,France Nehuenco Pj., Chile	GRIRO	Condensers	2002	Lloyd's Register
ALSTOM Power Heat Exchange, France Dunkerque , France	GRIRO	Condensers	2003	Lloyd's Register
Foster Wheeler France Exxon Mobil Port Jerome PJ 21, France	GRIRO	Columns, Vessels	2003	Bureau Veritas ASME + PED “CE” Marking
MES – Poland TVK PE-4 CX Pj. Hungary	GRIRO	Heat Exchangers, Drums Towers Vessels with Agitators	2003	Lloyd's Register ASME
UOP NV Belgium Jaroslavl, Russia	GRIRO	Adsorbers Pressure Vessels	2003	Lloyd's Register
NEM BV Holland Granadilla Pj., Spain	GRIRO	LP Steam Drums HP Steam Drums	2003	Lloyd's Register S Stamped PED
NEM BV Holland Barranco Pj. Spain	GRIRO	LP Steam Drums HP Steam Drums	2003	PED
NEM BV Holland BDT	GRIRO	Blow Down Tanks	2003	PED
NEM BV Holland BDT	GRIRO	Blow Down Tanks	2003	PED
NEM BV Holland San Reus II Pj. Spain	GRIRO	LP Steam Drums HP Steam Drums	2003	PED
Sev Schenkel Germany Berlin Neukolln Pj.	GRIRO	HP Steam Drums	2003	TUV

Borsig Germany Nanhai Pj. China	Borsig	Steam Drums	2004	SQLO M Stamped
Borsig Germany Lisas Pj. Trinidad Tobago	Borsig	Steam Drums	2004	AD Merkblatt
Borsig Germany Chile Pj.	Borsig	Steam Drums	2004	Lloyd's Register S Stamped
Plant Global Inc. Kirishi Pj. Russia	GRIRO	Column	2004	Lloyd's Register
Esso Italiana SRL Foster Wheeler Italiana Augusta Pj. Italy	GRIRO	Reactors	2004	Lloyd's Register U Stamped CE Marking
Sarpom SpA Italy Foster Wheeler Italiana Trecate Pj. Italy	GRIRO	Reactors	2004	Lloyd's Register U Stamped CE Marking
UOP NV Belgium Green Gas Italy	GRIRO	Adsorbers	2004	Bureau Veritas PED
UOP NV Belgium MOL Hungary	GRIRO	Adsorbers Drum	2004	Bureau Veritas
NEM BV Holland Kemal Pasha Pj. Turkey	GRIRO	LP Steam Drums HP Steam Drums	2004	Lloyd's Register S Stamped
Fisia Babcock Environment Glostrup, Denmark	GRIRO	Steam Drums	2004	PED
Fisia Babcock Environment Aarhus, Denmark	GRIRO	Steam Drums	2004	PED
UOP NV Belgium Lipetsk Pj. Russia	GRIRO	Adsorbers Drum	2004	Bureau Veritas
UOP NV Belgium Novo Polotsk Pj. Belarus	GRIRO	Adsorbers Drum	2004	Bureau Veritas
Peerless Europe Ltd. UK Kangan Gas Station, Iran	GRIRO	Filter Scrubber Suction Gas	2004	Client
Technip-KTI-Italy Turkmenistan	GRIRO	Columns, Vessels Heat Exchangers	2004	Lloyd's Register
Borsig Germany UHDE Safco Pj., Saudi Arabia	GRIRO	Steam Drums	2004	Lloyd's Register
Alstom Power Heat Exchange France Iberdrola Iberinco Aceka Power Plant, Spain	GRIRO	Condensers	2004	Bureau Veritas PED
Alstom Power Heat Exchange France EDF – CNEPE France Dampierre Nuclear Power Plant	GRIRO	LP Heat Exchangers	2004	Bureau Veritas PED
Alstom Power Heat Exchange France Alstom Centrales Energetiques Kestrel Dubai Power Plant	GRIRO	Condensers Deaerator Storage Tank	2004	Bureau Veritas
Technip KTI Italy Oryx GTL Plant ,Reformer Package Ras Laffan, Qatar	GRIRO	Steam Drum Blow Down Drums	2004	Lloyd's Register S stamped
Technip KTI Italy Motor Oil Hellas, Corinth Refineries, Greece	GRIRO	Steam Drum	2004	PED CE Marking
Industrialexport SA Banias Refinery, Syria	GRIRO	Columns, Vessels Heat Exchangers	2004	Lloyd's Register
Prodger SRL Siemens GmbH,Germany Skalistaja Pj. Germany	Siemag	Festtrommel Lostrommel	2004	
Prodger SRL Siemens GmbH,Germany Alz Pj. Germany	Siemag	Festtrommel Lostrommel	2004	

Alstom Power Heat Exchange France Shoaiba Pj. Saudi Arabia		Condensers HP, IP, LP Steam Drums	2004	Bureau Veritas
Fisia Babcock Environment Jonkopping, Sweden	GRIRO	Steam Drums	2004	PED
Stone & Webster UK SNP Petrom Romania Arpechim Branch FCC Revamping Unit Pj.	Stone & Webster IPIP Ploiesti GRIRO	Reactor, Riser, Stripper RS2 Separator Orifice chamber Effluent & Gas Pipe	2004	ISCIR Cert
NEM BV Leiden Holland Ribatejo Pj. Portugal	GRIRO	HP, IP, LP Steam Drums Blow Down Tank	2004	PED
CMI Castelnou Pj., Belgium	GRIRO	IP, LP Steam Drums Blow Down Tank	2005	PED
Borsig Germany QAPCO Pj. Qatar	GRIRO	Steam Drums	2005	AD Merkblatter
Duro Dakovic Croatia Issenee Pj. France	GRIRO	Steam Drums	2005	
Mitsubishi International Germany Bridgestone Poland	MHI	Tire Curing Presses	2005	
Mitsubishi International Germany Bridgestone South Africa	MHI	Tire Curing Presses	2005	
Siirtec Nigi SpA Italy Kashagan Field Development Exp. Prog. Kazakstan	GRIRO	Reactors Columns Pressure Vessels	2005	U Stamped
Alstom Power Heat Exchange France “Centrale de Prony” New Caledonia	ALSTOM	Heat Exchangers Vessels	2005	ALSTOM
Alstom Power Heat Exchange France Thermal Power Station–(Shoaiba I) E.S.C, Saudi Arabia	ALSTOM	Norias Intercoolers	2005	Lloyd’s Register ASME,U Stamp
Alstom Power Heat Exchange France Thermal Power Station–(Shoaiba II) E.S.C, Saudi Arabia	ALSTOM	LP BFW Heater HP Heater Norias Intercoolers	2005	Lloyd’s Register ASME, U Stamp
Alstom Power Heat Exchange France Thermal Power Station–(Shoaiba II) E.S.C, Saudi Arabia	ALSTOM	Condensers	2005	Lloyd’s Register ASME U, Stamp
UOP NV Belgium Ras Laffan Ind. City Qatar	GRIRO	Pressure vessels	2005	Lloyd’s Register ASME
UOP NV Belgium OMW-Arpechim-Pitesti,Romania	GRIRO	Vessels	2005	SGS / Lloyd’s Register
INDUSTRIALEXPORT Baniyas Refinery Company, Syria	IENG	Vessels	2005	Lloyd’s Register
Alstom Power Heat Exchange France Peterhead Pj., Scotland	ALSTOM	Heat Exchangers	2005	ALSTOM
Borsig ,Germany Dawood Pj.,Pakistan	BORSIG	HP	2005	Lloyd’s Register ASME
NEM Leiden,Holland Termozulia Pj., Venezuela	GRIRO	HP	2005	Lloyd’s Register ASME
NEM Hendrik Ido Ambacht ,Holland Granadilla Pj.,Spain	GRIRO	LP	2005	ASME +PED SGS
HBM ,Germany Baniyas Refinery Co., Syria	IPIP	Tube bundle for Air Cooled Heat Exchanger	2005	Lloyd’s Register ASME
ROMGAZ RA Gas Exploitation Subsidiary Medias, Romania	GRIRO	Air Coolers	2005	Bureau Veritas

Confind SRL Kashagan Field Pj., Kazakhstan	IPIP	Adsorbers	2005	ASME + PED CE Marking
Borsig, Germany Airpri Pj. Italy	BORSIG	Steam Drum	2005	Lloyd's Register ASME + PED
Alstom Power Turbo-Systems France RINGHALS Pj. Sweden	ALSTOM	Tubesheets	2006	PED
Borsig, Germany Safku Pj. Saudi Arabia	GRIRO	HP	2005	Lloyd's Register ASME
NEM MHS, Holland Layyah, Sharjah UAE	GRIRO	HP, Deaerator Blow Down Tank	2006	Lloyd's Register ASME, U Stamp
Alstom Power Turbo-Systems, France Zhangzhou Houshi - China	ALSTOM	HP, LP, By pass	2006	SELO Lloyd's Register
NEM Leiden, Holland Plana del Vent, Spain	GRIRO	HP, IP, LP	2006	Hartford, SGS
Alstom Power Turbo-Systems, France Thermal Power Station Shoaiba II, Phase 2, ESC, Saudi Arabia	ALSTOM	LP BFW Heater HP Heater Norias Intercoolers	2006	Lloyd's Register ASME, U Stamp
Borsig, Germany Rabigh Pj., Saudi Arabia	BORSIG	HP	2006	-
Borsig, Germany TOC Pj., Thailand	BORSIG	HP	2006	Lloyd's Register
Borsig, Germany Titan 3 Pj., Malaezia	BORSIG	HP	2006	TUV
NEM, Hengelo Sohar Pj., Oman	GRIRO	EDL, HRSG	2006	Lloyd's Register
Alstom Power Turbo-Systems, France La Robla., Spain	ALSTOM	HP-Heaters	2006	Lloyd's Register
NEM, MHS Barranco II Pj., Spain	GRIRO	HP, LP, BDT	2006	Hartford, SGS
NEM, MHS C'as Tresorer Pj., Spain	GRIRO	HP, LP, BDT	2006	Hartford, SGS
UOP NV, Belgium Kuibyshev Refinery., Samara, Russia	GRIRO	Adsorbers	2006	SGS
Alstom Power Turbo-Systems, France Obrenovac Pj., Serbia & Montenegro	ALSTOM	HP	2006	ALSTOM
NEM, Hengelo Rabigh Pj. Saudi Arabia	GRIRO	HP	2006	Lloyd's Register
Alstom Power Turbo-Systems, France Kestrel Pj., Dubai	ALSTOM	Deaerator Norias	2006	ALSTOM
ALSTOM Power System USA Gissi Pj., Italy	ALSTOM	IP, LP Steam Drums BDT, Deaerator	2006	ASME + PED
ALSTOM Power System USA Castejon Pj., Spain	ALSTOM	HP, IP, LP Steam Drums BDT	2006	ASME + PED
ALSTOM Power System USA Modugno Pj., Italy	ALSTOM	HPIP, LP Steam Drums BDT	2006	ASME + PED
ALSTOM Power System USA Malaga Pj., Spania	ALSTOM	HP, IP, LP Steam Drums BDT	2007	ASME + PED
ALSTOM Power System USA Soto Pj., Spania	ALSTOM	HP, IP, LP Steam Drums BDT	2007	ASME + PED

ALSTOM Power System USA Cycfos Pj.,France	ALSTOM	HP,IP,LP Steam Drums BDT	2007	ASME + PED
ALSTOM Power System USA Langage Pj., UK	ALSTOM	IP,LP Steam Drums BDT	2007	ASME + PED
Technip KTI SPA, Italy Samir Pj., Morocco	GRIRO	HP Steam Drum	2007	Lloyd's Register S Stamp
Foster Wheeler, France Total Pj Gonfreville Refinery, France	GRIRO	Reactors 11R-3101 11R-3102 11R-3103	2007	PED
Fisia Babcock Environmetal,Germany Uddevalla Pj., Sweden	GRIRO	HP Drum	2007	PED
Alstom Power Turbo-Systems, France Maritza, Bulgaria	ALSTOM + GRIRO	HP, LP-Heaters Deaerators Storage Tanks	2007	PED
Fisia Babcock Environmetal,Germany Borlaenge Pj., Sweden	GRIRO	HP Drum	2007	PED
HPC (Heurtey Petrochem) France Gonfreville PJ., France	GRIRO	HP steam Drums	2007	PED
Alstom Power Turbo-Systems, France Oskarshamn 3Pj., Sweden	ALSTOM	HP Steam Drums Reheaters	2007	PED
CMI Belgia Antwerp Pj., Belgium	CMI	HP Drum	2007	ASME + PED
Alstom Power Turbo-Systems, France Fos Sur Mer Pj.,France	ALSTOM + GRIRO	HP, LP-Heaters Deaerators Storage Tanks	2007	PED
Balke Durr, Austria Simmering & Timelkam Pjs.,	GRIRO + BALKE DURR	IP. LP Steam Drums Flash Tanks	2007	TUV
Alstom Power Turbo-Systems, France Mohamedmedia Pj., Morocco	ALSTOM	LP Heaters	2007	CODAP
CMI USA Argentina	CMI	HP Drum	2007	ASME
CMI Belgia Port Sur Sambre Pj., France	CMI	HP Drum	2007	PED
INSA OIL, Bulgaria	LUDAN Eng	Reactor	2007	PED+ASME
LINDE Germany PETROM OMV Pj., Romania	GRIRO	Tanks Vessels Adsorbers	2007	PED
ALSTOM Power System USA Emsland, Germany	GRIRO	BDT Drums HP Drums + LP Drums	2007	PED
ALSTOM Power System USA Grain + Staythorpe, UK	ALSTOM U.S.A.	HP + IP +LP +BDT Drums	2008	PED+ASME
Alstom Power Turbo-Systems, France Oskarshamn, Sweden	GRIRO	HP Heaters Condensate Level tanks Tube bundles Heat Exchangers	2008	PED
NEM Holland Vasilikos, Cyprus	GRIRO	HP Drums LP Drums BDT Drums	2008	PED
ESSAR Construction Ltd., India Siemens VAI, France	GRIRO	Water Accumulator + Air Accumulator	2008	ASME
UHDE Germany OMV Petrobrazi	UHDE / Edeleanu	Columns Vessels	2008	PED
ROMGAZ MEDIAS	GRIRO	Air Cooler	2008	ASME + PED
ALSTOM Power System USA Agios + Aliveri, Greece	ALSTOM U.S.A ./GRIRO	HP + IP +LP +BDT Drums	2008	PED
ALSTOM Power System USA Aghada, Ireland	ALSTOM U.S.A ./GRIRO	HP + IP +LP +BDT Drums	2008	ASME + PED
BORSIG Germany Ilam, Iran	BORSIG	Steam Drums	2008	ASME

BORSIG Germany HMU Canada	BORSIG	Steam Drum	2008	ASME
BORSIG Germany Estar Portugal	BORSIG	Steam Drum	2008	ASME + PED
ALSTOM Power System USA Fos Electrabel, France	ALSTOM U.S.A ./GRIRO	HP + IP +LP +BDT Drums + Flash Tanks	2008	ASME + PED
ALSTOM Power System USA Flevo, Holland	ALSTOM U.S.A ./GRIRO	HP + IP +LP +BDT Drums + Flash Tanks	2008	ASME + PED
Alstom Power Turbo-Systems, France Belchatow, Poland	ALSTOM	Heat Exchangers	2008	AD-MERKBLATER + PED
Alstom Power Turbo-Systems, France Maritza, Bulgaria	ALSTOM + GRIRO	Flash boxes, by-pass, level stands pipe	2008	EN + PED
ALSTOM India Fujairah, UAE	ALSTOM + GRIRO	HP + BDT drums	2008	ASME
ALSTOM Switzerland Skopje, Macedonia	ALSTOM	HP + LP steam drums	2008	ASME
BORSIG Germany Port Said, Egypt	BORSIG	Vessels + HP	2008	ASME
Lukoil Teleajan, Romania	IPIP	Reactor	2008	ASME + PED
HBM Syria	GRIRO	Tube bundles for air cooled heat exchangers	2008	ASME
Oschatz Germany – India	OSCHATZ	Steam Drum	2008	ASME + IBR
Lukoil Teleajan, Romania	IPIP	Coke Chamber	2009	PED + ISCIR
Romgaz Medias, Romania	GRIRO	Cooler	2009	PED + ISCIR
Metso Power Oy Finland Guaiba, Brasil	METSO	HP Steam Drum	2009	ASME
BORSIG Germany Taneco, Russia	BORSIG	HP Steam Drum	2009	ASME + PED
CEFA-Air Liquide France Sasol, South Africa	CEFA	Adsorbers	2009	ASME + PED
Bronswerk Holland Total, Vlissingen Refinery Holland	BRONSWERK	Heat Exchanger	2009	PED
BORSIG Germany Dammietta, Egypt	BORSIG	Steam Drums	2009	ASME
Rominserv Petromidia, Romania	IPIP	Towers	2009	PED + ISCIR
Rominserv Petromidia, Romania	IPIP	Tower cladding	2009	PED + ISCIR
Intercom SA Rm. Valcea	ICPET	Expander	2009	PED + ISCIR
Den Braven Bucharest, Romania	GRIRO	Vessels	2009	PED + ISCIR
Doosan Korea; General Electric, Montoir, France	DOOSAN	HP Steam Drum	2009	PED
ALSTOM Power System USA Soto De Ribeira, Spain	ALSTOM U.S.A ./GRIRO	HP + IP +LP +BDT Steam Drums	2009	ASME + PED
ALSTOM Power System USA Volos, Greece	ALSTOM U.S.A. /GRIRO	Drums	2009	ASME + PED
Siemens Germany	SIEMENS	Turbine Bed Plate Assembly	2009	PED
Linde Eng. Germany Mitall Galati, Romania	LINDE	Towers	2009	PED
ALSTOM Power System USA Pembroke, UK	ALSTOM + GRIRO	HP + IP +LP +BDT Steam Drums	2009	PED
ALSTOM Power System USA Claus C., Holland	ALSTOM + GRIRO	HP + IP +LP +BDT Drums + Flash Tanks	2009	ASME + PED

ALSTOM Power Energy Recovery Germany GmbH – Confab Industrial S.A. – RLAM II – Brasil	ALSTOM + GRIRO	HP Steam Drum	2010	ASME + PED
Rominserv Petromidia, Romania	IPIP	Condensate Stripper	2010	ASME + PED
Butan Gaz Romania	GRIRO	Propane Tank 1000 m ³	2010	Bureau Veritas + IIS (Italian Institute for Welding)
Metso Power Finland Saica - El Burgo De Ebro, Spain	METSO	Steam drum	2010	PED
Bronswerk Heat Transfer BV Holland Abadan Pj., Iran	BRONSWERK	Heat Exchanger	2010	ASME
Butan Gas Romania	GRIRO	Pressure Vessel 50 m ³	2010	PED
BORSIG Germany Terrehautte, USA	BORSIG	Gas Inlet Channel Gas Outlet Channel	2010	ASME
Metso Power Oy Finland Bratsk, Rusia	GRIRO	Steam drum	2010	PED
ALSTOM Power Energy Recovery Germany GmbH Caojing HYCO-2, China	ALSTOM + GRIRO	HP Steam Drum	2010	ASME + China regulation
Borsig GmbH-Togo	BORSIG	Steam Drums	2010	ASME
SIAD Macchine Impianti SPA-Calarasi, Romania	GRIRO	Storage Tank	2010	EN13445+PED
Borsig GmbH-Ziabang, Bangladesh	BORSIG	Gas Inlet Channel Gas Outlet Channel Gas Transfer Line	2010	ASME
Borsig GmbH-Sasec	BORSIG	Gas Inlet Channel Gas Outlet Channel Steam Drums Shells	2010÷2011	ASME
Borsig GmbH-Turkmeni, Turkmenistan	BORSIG	Gas Inlet Channel Gas Outlet Channel Shell cpl	2011	AD-MERKBLATER 2000 + PED
Borsig GmbH-Deepak, India	BORSIG	Gas Inlet Channel Gas Outlet Channel	2011	ASME
ALSTOM Power Energy Recovery Germany GmbH – RNEST –Brasil	ALSTOM + GRIRO	HP Steam Drums Inlet Channel Outlet Channel	2011	ASME
Borsig GmbH – Al Baytar Saudi Arabia	BORSIG	Gas Inlet Channel Gas Outlet Channel	2011	AD-MERKBLATER 2000
Rominserv Petromidia, Romania	IPIP	Scot Reactors (Shell Claus Off-gas Treating)	2011	EN
Borsig GmbH – Haifa Israel	BORSIG	HP Steam Drums	2011	ASME
Borsig GmbH – Fertil II UAE	BORSIG	HP Steam Drums Gas Inlet Gas Outlet Shells	2011	ASME
Metso Power Finland - TulCymic – Tulis Russel, UK	GRIRO	Steam drum	2011	PED
Borsig GmbH – Polbri Enbri, Italy	BORSIG	Shells	2011	PED
ALSTOM Power Energy Recovery Germany GmbH – Batangas, Philipinnes	ALSTOM + GRIRO	Steam drums	2011	ASME
ALSTOM Power Energy Recovery Germany GmbH – Westlake, USA	ALSTOM + GRIRO	Steam drums	2011	ASME
Borsig GmbH – Kemper, USA	BORSIG	Shell Superheater Channels	2011	ASME
Metso Power Oy Finland – El Dorado, Brasil	GRIRO	Steam drum	2011	ASME

NEM MHS – Granadilla II Tenerife, Spain	GRIRO	Steam drum	2011	ASME + PED
ALSTOM Indonesia – Keppel IIA Singapore	ALSTOM + GRIRO	HP Steam Drum	2011	ASME
Bronswerk Heat Transfer BV Holland Shiraz Pj., Iran	BRONSWERK	Heat Exchanger Dome	2011	ASME + TEMA
Duro Felguera S.A. Arcelor Mittal Galati	DURO FELGUERA	Upper Cone Lower Cone Diffuser	2011	ASME + EN 13445
Oschatz Germany - UHDE Huchems Pj - South Korea	OSCHATZ + GRIRO	Steam Drum	2011	ASME
Foster Wheeler Italiana Petrobrazi – Romania	GRIRO	Vessels	2011	ASME
Alstom Indonezia Tuas Pj. - Singapore	ALSTOM + GRIRO	HP Steam Drums	2011	ASME
ALSTOM Power Energy Recovery Germany GmbH – Replan –Brasil	ALSTOM + GRIRO	HP Steam Drum	2011	ASME
Rominserv Petromidia, Romania	GRIRO	Superheater Waste Heat Boilers (Furnace)	2011	ASME + PED
ICSI Rm-Valcea	ICSI	Container Neutron Attenuator	2011	ASME + CNCAN
ICSI Rm-Valcea	ICSI	Isotopic Exchange Column	2011	ASME + CNCAN
ALSTOM Power Energy Recovery Germany GmbH Al Yer – Saudi Arabia	ALSTOM + GRIRO	HP Steam Drums Inlet Channel Outlet Channel Shells	2011 + 2012	ASME
Siemens Austria Knapsack II - Germany	SIEMENS + GRIRO	HP + IP +LP Drums Flash Tank Blow Down tank	2011 + 2012	PED
Alstom Indonezia Keppel IIB Pj. - Singapore	ALSTOM + GRIRO	HP Steam Drum	2012	ASME
Metso Power Oy Finland – Maranbo, Brasil	GRIRO	HP Steam drum	2012	ASME
Technip Benelux Sibur Pj. – Russia	GRIRO	Column Vessels (Drums) Heat Exchangers Reactor	2012	ASME + GOST
Foster Wheeler Italiana Petrobrazi – Romania	GRIRO	Towers (Miscellaneous materials)	2012	ASME + PED
Le Gaz Integral Petrobrazi – Romania	GRIRO	Claus Reactor Incinerator Vessels (Drums)	2012	ASME + PED
ALSTOM Power Energy Recovery Germany GmbH RPBC - Brasil	ALSTOM + GRIRO	HP Steam drum	2012	ASME
Borsig GmbH – Pakarab Pj., Pakistan	BORSIG	Gas Inlet Channel Gas Outlet Channel	2012	ASME
Alstom Indonezia Banyan Pj. - Singapore	ALSTOM + GRIRO	HP Steam Drum	2012	ASME
Bronswerk Heat Transfer BV Holland – Baiji, Iraq	BRONSWERK	Vessel	2012	ASME
Borsig GmbH – Pata, India	BORSIG	HP Steam Drums	2012	ASME + IBR (Indian Boiler Regulations)
Rominserv Rafinaria VEGA – Romania	GRIRO	Vacuum Column	2012	PED
Bronswerk Heat Transfer BV Holland – Shiraz Pj., Iran	BRONSWERK	Ammonia Heater	2012	ASME + TEMA
Alstom Power Systems S.A. France – Narva- Estonia	ALSTOM	Steam Drum	2012	ASME + PED

ALSTOM Power Energy Recovery Germany GmbH Novy Urengoy- Russia	ALSTOM	Steam Drum	2012	AD MERKBLATT + GOST
ROMIB S.A. Bucharest CRYO-HY – ICSI Rm-Valcea Romania	CITON Romania	Cold Box CB 300	2012	ISCIR + CNCAN
ALSTOM Power Energy Recovery Germany GmbH Posco SNG - South Korea	ALSTOM	Gas Inlet Channel Gas Outlet Channel Supports	2012	ASME
Borsig GmbH – Taf Pj. Russia	BORSIG	Gas Inlet Channel Gas Outlet Channel Shell	2012	ASME
ABB AS Estonia	ABB	Stator and Rotor Frames	2012	PED
Azomures - Tg. Mures Romania	AZOMURES	Colector	2012	PED
ALSTOM India Fortum 1 Pj. - Russia	ALSTOM + GRIRO	HP + LP drums	2012	ASME
Metso Power AB – Västervik Pj. - Sweden	GRIRO	Steam Drum	2012	PED
Le Gaz Integral Petrobrazi – Romania	GRIRO	Roof + Accessories	2012	ASME + PED
Borsig GmbH – Quanzhou Pj. - China	BORSIG	Gas Inlet Channel Gas Outlet Channel	2012	ASME
Bronswerk Heat Transfer BV Holland – Sapref Pj., South Africa	BRONSWERK	Waste Heat Boiler (Heat Exchanger)	2012	ASME + TEMA
Areva – Venturi Scrubber Vessels Pj – Cernavoda (Nuclear Power Field)	GRIRO	Vessels	2012	ASME + ISCIR + CNCAN
Borsig GmbH – Cardon 3 Pj. - Venezuela	BORSIG	Accumulators	2012	ASME
Petrotel Lukoil Teleajan, Romania	IPIP	Overhaul turn-key FCC Reaction Group	2012 + 2013	PED + ISCIR
Borsig GmbH – TechMex Pj. - Mexico	BORSIG	Steam Drums	2012 + 2013	ASME
ALSTOM India Fortum 1 Pj. - Russia	ALSTOM + GRIRO	BDT drums	2012 + 2013	ASME
Borsig GmbH – Tupras Pj. - Turcia	BORSIG	Gas Inlet Channel Gas Outlet Channel Steam Drum	2012 + 2013	ASME
Bronswerk Heat Transfer BV Holland – Bapetco Pj., Egypt	BRONSWERK	Reboilers Shell and Tube Heat Exchangers	2012 + 2013	ASME
Borsig GmbH –Chongqing Pj. - China	BORSIG	Steam Drum	2013	ASME
Borsig GmbH – Qapco 2 Pj. - Qatar	BORSIG	Steam Drums	2013	ASME
ALSTOM India Fortum 1 Pj. - Russia	ALSTOM + GRIRO	HP + LP drums	2013	ASME
Metso Power Oy Finland – Malare Pj, Sweden	GRIRO	Steam Drum	2013	ASME
Technip Benelux Naftan Pj. – Belorussia	GRIRO	Steam Drum	2013	ASME
Technip Benelux Burgas Pj. – Bulgaria	GRIRO	Steam Drums	2013	ASME + PED
Bronswerk Heat Transfer BV Holland – Dresser Rand, Olean Pj., USA	BRONSWERK	Vessels	2013	ASME
Borsig GmbH – Basant Pj., India	BORSIG	Burner Head,Upper Vessels section, Vessels section with Skirt	2013	AD MERKBLATT PED
Metso Power AB Sweden – Munksund Pj, Sweden	GRIRO	Steam Drum	2013	PED
ICSI Rm-Valcea Romania	ICSI	Heat Exchanger (class 3 for nuclear)	2013	ASME + CNCAN

Borsig GmbH – FAO Pj., Belgium	BORSIG	Steam Drums	2013	ASME + PED
Borsig GmbH – Rabigh 2 Pj., Saudi Arabia	BORSIG	HP Steam Drums	2013	ASME
ALSTOM Power Energy Recovery Germany GmbH Ethydco - Egypt	ALSTOM	Steam Drums	2013	ASME
ALSTOM Power Inc. USA Tzaftit Pj.- Israel	ALSTOM	HP, LP, IP Blow-off Vessels	2013	ASME
ALSTOM Middle East FZE Samra 3 Pj.- Jordan	GRIRO	BDT Steam Drums	2013	ASME
Borsig GmbH – AFC 2 Pj., Egypt	BORSIG	Vessels section with Skirt	2013	AD MERKBLATT + PED
Borsig GmbH – Ningxia Pj., China	BORSIG	Gas Inlet Channel, Gas Outlet Channel, Shell complete, Gas Transfer Line	2013	ASME
ALSTOM Power System USA Carrington., UK	ALSTOM + GRIRO	HP, LP, IP Blow-off Vessels	2013	ASME + PED
Borsig GmbH – Qinzhou Pj. China	BORSIG	Gas Inlet Channel, Gas Outlet Channel,	2013	ASME
Borsig GmbH – Sweeny Pj. USA	BORSIG	HP Steam Drum	2013	ASME
Alstom Boiler France S.A. Narva- Estonia	GRIRO	Blow Down Tanks	2013	ASME
ALSTOM Power Energy Recovery GmbH - Westlake 7th Heater Pj. - USA	ALSTOM	Steam Drum	2013	ASME
PROSERMAT France – Yety Purovsk – Russia	GRIRO	Columns Heat Exchangers	2013	ASME + GOST
SIEMENS Austria Lausward Pj. Germany	SIEMENS + GRIRO	IP&LP Drums, Flash Tank	2013 - 2014	PED
ALSTOM Power Energy Systems Indonesia – North Bangkok II Pj. Thailand	ALSTOM + GRIRO	HP Steam Drums	2014	ASME
ALSTOM Power Energy Recovery Germany GmbH Plaquemine Drum Replacement - USA	ALSTOM + GRIRO	IP Steam Drum	2014	ASME
Total France – Refinery de Provence, France	GRIRO	Columns	2014	ASME + PED
OMV Petrom - Petrobrazil	GRIRO	Top Column Section	2014	ASME + PED
ALSTOM Power Energy Recovery Germany GmbH NCC Expansion Pj – South Korea	ALSTOM + GRIRO	HP Steam Drum	2014	ASME
Borsig GmbH – Cedar Bayou Pj.; USA	BORSIG	HP Steam Drum	2014	ASME
Foster Wheeler Italiana OMV Petrom - Petrobrazil Pj. Romania	GRIRO	Heat Exchanger	2014	ASME + PED
Borsig GmbH – Luca Pj.; Indonesia	BORSIG	Steam Drum	2014	ASME
ANDRITZ Pulp&Paper Finland - OKI Indonesia	ANDRITZ	HP Steam Drum	2014	ASME
ALSTOM Power Energy Recovery Germany GmbH Westlake - USA	ALSTOM + GRIRO	HP Steam Drum	2014	ASME
Petrotel Lukoil Teleajan, Romania	IPIP	Scrubber	2014	ASME + PED

Heurtey Petrochem – Atipinski Pj. Russia	HEURTEY PETROCHEM	Steam Drum	2014	ASME+GOST
Kraftanlagen OMV Pj. Petrobrazi, Romania	KRAFTANLAGEN	Column Nozzles	2014	ASME + PED
Metso Suedia (Valmet Oy) Stambolijski Pj. - Bulgaria	GRIRO	Steam Drum Dolezal Condenser	2014	PED
Aramco Overseas Company B.V. - Ju'aymah Gas Plant, Kingdom of Saudi Arabia	GRIRO	Tube Bundles	2014	ASME
ALSTOM Power Inc. USA, Koln Niehl Pj., Germany	ALSTOM	HP, LP, IP BDT Steam Drums	2014	PED
Alstom Power Thermal Products-Gas Turbines Switzerland, Koln Niehl Pj., Germany	ALSTOM	Foundation anchors and plates	2014	ASME
SILVER (ICSI Ramnicu Valcea)	ICSI Ramnicu Valcea	Vessels and Heat Exchangers	2014	ISCIR
ALSTOM Power System USA Al Birr Pj. Switzerland	GRIRO	BDT Steam Drum	2014	PED
Borsig GmbH – Medicine Hat Pj. Canada	BORSIG	Gas Inlet Channel, Gas Outlet Channel,	2014	ASME
ALSTOM Power Energy Recovery Germany GmbH - Ingleside USA	ALSTOM + GRIRO	HP Steam Drums	2014 - 2015	ASME
Prosernat - Rog Pj Antwerp Refinery – Belgium	GRIRO	Vessels	2014 - 2015	ASME + PED
Alstom Boiler France S.A. – Altamira Pj., Mexico	ALSTOM	HP Steam Drums	2015	ASME
Borsig GmbH – NIKA Pj. Rusia/Nikamsk	BORSIG	Steam Drum	2015	ASME
Borsig GmbH – LinRaf Pj. - Rafnes/Norway	BORSIG	Steam Drum	2015	PED
PGI Serbia - Kirishi Pj. Russia	GRIRO	Vessel	2015	ASME + RTN Regulation
Technip Benelux Angarsk Pj. – Russia	GRIRO	Steam Drums	2015	AD 2000 Merkblatt + RTN Regulation
Borsig GmbH – Huizhou Pj. China	BORSIG	Gas Inlet Channel, Gas Outlet Channel,	2015	ASME
ALSTOM Power System USA Ashalim Pj. Israel	ALSTOM	Steam Drums	2015	ASME
Bronswerk Heat Transfer BV Holland – Fujairah Pj. UAE	BRONSWERK	Vessels	2015	ASME + PED
ALSTOM Power Inc. USA – Grain Pj., UK	ALSTOM	Steam Drum internals	2015	PED
ALSTOM Power Inc. USA – Central Dulces Nombres Pj., Mexico	ALSTOM	Foundation Plates & Anchors	2015	ASME
Borsig GmbH – Tobolsk Pj., Russia	BORSIG	Steam Drums	2015	ASME
CMI – Atacama Pj., Chile	CMI	Vessels	2015	ASME
Heurtey Petrochem – Atipinsky Pj. Russia	GRIRO	Steam Drums	2015	ASME
Valmet Oy - Sappi Ngodwana South Africa	GRIRO	Steam Drum	2015	ASME
Borsig GmbH - KNPC Pj. - Kuwait	BORSIG	Steam Drums	2015	ASME
Borsig GmbH – Fertil I UAE	BORSIG	Gas Inlet Gas Outlet Transition Piece	2015	ASME
Alstom Middle East FZE-Kirikkale Pj, Turkey	ALSTOM	HP,IP,LP Steam Drums	2015	ASME + PED
Borsig GmbH - Samad II Pj – Saudi Arabia	BORSIG	Gas Inlet Gas Outlet Shell	2015	ASME

Valmet Power AB Sweden – Alingsas Pj. Sweden	GRIRO	Steam Drum	2015	EURONORM + PED
Alstom Middle East FZE- Kirikkale Pj., Turkey	ALSTOM	BDT	2015	ASME + PED
Borsig - Trombay Pj. – India	BORSIG	Upper , Middle Sections	2015	AD Merkblatt
Borsig Kermanshah II Pj- Iran	BORSIG	Gas Inlet Channel Gas Outlet Channel Shell, Steam Drum	2015	ASME
Alstom India Kirikkale Pj. - Turkey	ALSTOM	Foundation Plates	2015	ASME
OMV Austria - Schwechat Pj - Austria	GRIRO	Column	2015	PED + OMV Refining Standard + ISCIR
Borsig - Agrium Pj. - Canada	BORSIG	Shell assembly	2015	ASME
Arvos Germania – Deepak Pj. - India	ARVOS	Steam Drum	2015	ASME + IBR (Indian Code Regulation)
Borsig – Chambal II Pj. - India	BORSIG	Shell assembly	2015	ASME
Borsig – Petronor II Pj. - Spain	BORSIG	Gas Inlet Channel Gas Outlet Channel	2015	ASME
Alstom Middle East FZE – Al Anbar Pj.- Iraq	ALSTOM	HP,IP,LP Steam Drums	2015 - 2016	ASME
Alstom Middle East FZE – Al Anbar Pj.- Iraq	ALSTOM	BDT	2015 - 2016	ASME
Arvos Germania –Taloja Pj. – India	ARVOS	Steam Drum	2016	ASME & IBR (Indian Boiler regulation)
Arvos Germany – Porsgrunn Project, Norway	ARVOS	Steam Drum	2016	EN12952 & PED
Arvos Germania – Shintec Pj. - USA	ARVOS	Steam Drums	2016	ASME
Siemens Austria – Plock Pj. - Poland	SIEMENS	HP,IP,LP Steam Drums, Flash Tank	2016	PED 2014/68/EC + EN12952
Borsig – Madero Pj. - Mexico	BORSIG	Steam Drum	2016	ASME
PROSERNAT France – Yety Purovsk – Russia	GRIRO	Spare Parts	2016	ASME + GOST
Bronswerk Heat Transfer BV Holland Atyrau Pj. - Kazakhstan	BRONSWERK	Waste Heat Boiler	2016	ASME
CMI Industrial Boilers - EON Maasvlakte Powerplant, Rotterdam, Netherlands	CMI	Water Drums	2016	PED
INDEWE Romania Terrafame Oy - Finland	GRIRO	Electrical heaters tube bundle Reactors	2016	PED EN 13445
Borsig –Qafco I Project - Qatar	BORSIG	Gas Inlet Channel Gas Outlet Channel	2016	ASME
Borsig – TMD Project (La Brea – Trinidad and Tobago)	BORSIG	Gas Inlet Channels Gas Outlet Channels	2016	AD – 2000 Merkblatter

Borsig – Lavoxo II Project (Usine de Lavera) – France	BORSIG	Upper Vessel Section Lower Vessel Section	2016	ASME + PED
Borsig – TMD Project (La Brea – Trinidad and Tobago)	BORSIG	HP Steam Drum	2016	AD – 2000 Merkblatter
Borsig – Kayan Project– Saudi Arabia	BORSIG	HP Steam Drum	2016	ASME
Arvos Germania – Afipsky Pj., Russia	ARVOS	Steam Drums	2016	ASME
Alstom Middle East FZE – Haveli Pj. Pakistan	ALSTOM	HP,IP,LP Steam Drums	2016	ASME
Borsig – TMD Project (La Brea – Trinidad and Tobago)	BORSIG	Gas Inlet Channel Gas Outlet Channel	2016	AD – 2000 Merkblatter
ICSI Rm-Valcea - Romania	ICSI	Vessel	2016	ASME
Lukoil Teleajan, Romania	IPIP+ GRIRO	Waste Heat Boiler	2016	ASME
Arvos Germany –Axiall Lotte Project, USA	ARVOS	HP Steam Drum	2016 – 2017	ASME
Alstom Middle East FZE – Waad Al Shamal Pj- Saudi Arabia	ALSTOM	HP,IP,LP Steam Drums	2016 – 2017	ASME
Lukoil Teleajan, Romania	IPIP+ GRIRO	Orifice Chamber	2017	ASME
Borsig - Labuan II Pj. - Malaysia	BORSIG	Gas Inlet Channel Gas Outlet Channel	2017	AD – 2000 Merkblatter
Borsig - Nanjing II Pj. – China	BORSIG	Shell	2017	ASME
Borsig MIS Fertilizer (Wuhuan) Pj. Islamic Republic of Iran	BORSIG	HP Steam Drum	2017	ASME
Bronswerk Heat Transfer BV Holland - Ennpy Cairo Pj – Egypt	BRONSWERK	Heat Exchanger	2017	ASME
ICSI Rm-Valcea - Romania	ICSI	Vessels	2017	ASME
Borsig - UNF Pj. – Uzbekistan	BORSIG	HP Steam Drum	2017	ASME
Borsig – Dalian Pj. – China	BORSIG	Shell	2017	AD – 2000 Merkblatter
Valmet Oy – Celtejo Pj. – Portugal	GRIRO	HP Steam Drum	2017	EURONORM + PED
Borsig – UNF Pj. – Uzbekistan	BORSIG	Gas Inlet Channel Gas Outlet Channel Shell Cpl.	2017	ASME
Borsig – MIS Pj. – Iran	BORSIG	Gas Inlet Channel Gas Outlet Channel	2017	ASME
GE Power India Limited– Alba Pj. – Bahrain	ALSTOM	HP, IP, LP Steam Drums	2017	ASME + PED
GE Alstom USA – Bridgeport Pj. – USA	GRIRO	BDT, Flash Tank	2017	ASME Code Section VIII 2015 Edition
AMEC FWI – OMV Petrobrazi Pj. Romania	GRIRO	Columns	2017	ASME + PED

AMEC FWI – OMV Petrobrazi Pj. Romania	GRIRO	Vessel	2017	ASME + PED
Arvos Germany - Hengam Pj. – Iran	ARVOS	Steam Drum	2017	ASME
GE Switzerland – Ghorashal Pj. – Bangladesh	GE	Foundation Plates & Anchors	2017	ASME
Borsig – GNFC Pj. – India	BORSIG	Shell Completed	2017	ASME
Borsig – Taixing Pj. – China	BORSIG	Gas Inlet Cones Gas Outlet Cone Gas Outlet Channel	2017	ASME + China Regulations
GE Power Systems – Birdsboro Pj.- USA	GE	HP, IP, LP Steam Drums	2017	ASME
GE Power Systems – Birdsboro Pj.- USA	GE	BDT	2017	ASME
GE Switzerland – Tanjung Kidurong Pj. – Malaysia	GE	Foundation Plates & Anchors	2017	ASME
GE Alstom USA – Sergipe Pj. – Brazil	GRIRO	BDT	2017	ASME
Valmet Oy - Mondi Steti – Czech Republic	GRIRO	Steam Drum	2017	PED EN 12952
South-West Supply Oy Ltd. Finland (SWS) – Terrafame Pj., – Finland	GRIRO	Tube Bundles	2017	PED EN13445
Borsig – Metharzi Pj. – Saudi Arabia	BORSIG	Gas Inlet Channel Gas Outlet Channel	2017	ASME
GE Power India Limited – Iernut Romgaz Pj. – Romania	GE	HP, LP Steam Drums	2017-2018	ASME + PED
NIS j.s.c. Novi Sad / CB&I s.r.o Cehia – Pancevo , Serbia	GRIRO	Vessels	2018	ASME + PED + Serbian Regulation
GE Power Systems USA – Cricket Valley Energy Pj., – USA	GE	Blowdown Tanks	2018	ASME
Arvos Germany – Ethylene Expansion Heater Pj., – Philippines	ARVOS	HP Steam Drum	2018	ASME
AMEC FWI – OMV Petrobrazi Pj. Romania	GRIRO	Heat Exchangers, Columns, Pressure Vessels	2018	ASME + PED
Borsig – Yara Pj. – Holland	BORSIG	Gas Inlet Channel, Gas Outlet Channel, Steam Drum	2018	Stoomwezen + PED
Borsig – Arian Pj. – Iran	BORSIG	Gas Inlet Channel, Gas Outlet Channel, Header	2018	ASME
Technip Benelux – Azerikimya Pj. – Azerbaijan	GRIRO	Decoke Cyclones	2018	ASME + PED
NEM Energy bv – Marzhan Pj – Germany	NEM Energy bv	HP, LP Steam Drums Blowdown Tank	2018	PED EN 13445
Arvos Germany – Port Arthur Pj. – USA	ARVOS	HP Steam Drums	2018	ASME
SWS Oy – Terrafame Pj, Finland	SWS Oy	Tube bundles	2018	EN13445 & PED 2014/68/EU

SWS Oy - Terrafame Pj, Finland	SWS Oy	Channels	2018	EN13445 & PED 2014/68/EU
Valmet Oy – Celbi Pj, Portugal	GRIRO	HP Steam Drum	2018	EN12952 & PED 2014/68/EU
NIS j.s.c. Novi Sad / CB&I s.r.o Cehia – Pancevo , Serbia	GRIRO	Columns	2018	ASME + PED + Serbian Regulation
Borsig – IBN SINA II, Kingdom of Saudi Arabia	Borsig	Channels	2018	ASME
CMI Energy, Belgium – Zeran, Poland	CMI	HP, IP, LP Steam Drums Blowdown Tank Dirty Drain Tank	2018	EN13445 & PED 2014/68/EU
Technip Benelux Willemshaven Pj, Germany	GRIRO	Columns Vessels	2018	EN13445 & PED 2014/68/EU
Borsig-Gadepan Pj. Islamic Republic of Iran	Borsig	Inlet, Outlet+Channels	2018	ASME
Borsig-Bora Pj. China	Borsig	Inlet, Outlet+Channels Shell CPL Headers	2018	ASME
Petrotel-Lukoil, Romania	GRIRO	Cladded Column	2018	ASME + PED
AMEC Foster Wheeler Energia SLU- Cubillos del Sill Pj. Spain	AMEC FW Energia/GRIRO	HP Steam Drum	2018	ASME+PED
Air Industrie Thermique-Adiseo, Les Roches Pj. France	GRIRO	Pressure Vessel	2018	EN + PED
Arvos Germany – Rayong Pj. Thailand	Arvos Germany / GRIRO	HP Steam Drums	2019	ASME
ICSI Râmnicu Valcea - Râmnicu Valcea Pj Romania	GRIRO	Column & Condenser	2019	ASME+PED
KT Kinetics Technology – Kstovo Pj. Russian Federation	GRIRO	Columns	2019	ASME+GOST