

# **“Moldovatransgas”**

## **Regulatory documents.**

### **Outcomes, plans and problems of implementation of European functional gas standards**



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# LLC “MOLDOVATRANSGAS”



LLC “Moldovatransgas” is the main enterprise in the Republic of Moldova for supplying natural gas to consumers and its transportation by the main gas pipelines to the UGS “Bogorodchany” (Ukraine) and to the Balkans.

Organisational structure of LLC “Moldovagas” consists of 3 line sections (Drochia, Kishinev, Vulkaneshty), 1 operational unit (Sholdaneshty) and 663 employees.

Main activities of LLC “Moldovagas” are technical maintenance and operation of main gas pipelines and their facilities:

- 1) Main gas pipelines – 656.24 km;  
Designed capacity:  
AChB ..... 10.0 bcm/yr;  
ATI ..... 20 bcm/yr;  
RI and ShDKRI ..... 14.6 bcm/yr.
- 2) Gas pipeline branches – 818.22 km
- 3) Compressor stations:
  - CS – Drochia of total capacity 31.5 MW;
  - CS – Sholdaneshty of total capacity 24 MW;
  - CS – Vulkaneshty of total capacity 20 MW;
- 4) Gas metering station – GMS Kaushany of through capacity 80.0 M m<sup>3</sup>/day.
- 5) NGV gas stations:
  - Stationary - 7 – Drochia, Beltsy, Kishinev-1, Kishinev-2, Orgueev, Khyncheshty, Budzhak;
- 6) Gas distribution stations – 80.

# REGULATORY DOCUMENTS



In its activities LLC “MOLDOVATRANSGAS” is guided by laws of the Republic of Moldova, such as:

LAW №123 of 23/12/2009 **On natural gas;**

LAW №1525 of 19/02/1998 **On energy;**

LAW №592 of 26/09/1995 **On main pipeline transport;**

LAW №116 of 18/05/2012 **On industrial safety of dangerous industrial facilities;** and

Technical standards base developed on the basis of the Normative Technical Documentation of OJSC “Gazprom” and elements of EU legislations.

LLC “Moldovatransgas” performs construction and installation works on main gas pipelines and their facilities and also ensures technical supervision at all the construction sites of GTS of the Republic of Moldova.

To ensure reliability of all the gas transportation system in general, timely gas supplies to consumers in Moldova and compliance with the terms of transit contracts, the enterprise directs its activities at reconstruction and modernisation of the existing networks and equipment using mainly the equipment of European manufacturers, for example:  
«**TOTAL Gaz**» (Romania) and «**Tartarini**» (Italy).

# «TOTAL GAZ» (Romania)



**Pressure regulators  
«Tartarini» (Italy)**



# Gas distribution station Tartarini (Italy)



# INTRODUCTION OF EU STANDARDS

LLC “Moldovagas” developed, documented, introduced and maintains the quality management system, consistent with the objectives of the enterprise.

The system is developed on the basis of the requirements of international standards:

- ISO 9001:2008 «Quality management systems»
- ISO 14001:2005 «Environmental management systems. Requirements with guidance for use»
- OHSAS 18001:2008 «Occupational health and safety management systems»
- ISO 50001:2005 «Energy management systems. Requirements with guidance for use».

A comprehensive study with a view of maximum meeting the legitimate requirements of gas consumers is a priority factor in reaching the objectives set.

LLC «Moldotransgas» gives preference to compliance with the requirements of international and national regulatory documents in policy in the area of quality.



Based on this LLC «Moldovagas» executes its policy aiming at:

- studying, identifying and fulfilling legitimate requirements of consumers to the quality of pipeline systems for gas transportation;
- developing and strengthening of own production base, ensuring maximum possible level of industrialisation and mechanisation of works;
- introducing advanced technological processes, modern new technique and mechanisation tools;
- applying new materials and equipment, corresponding to up-to-date level and ensuring the set quality level of the final results of works;
- defining processes required for functioning of the quality management system, their sequence, interactions, control over usage, availability of resources and information, necessary to ensure its functioning;
- targeted at manning of LLC «Moldovatransgas» with qualified, competent and professionally trained employees, capable of performing tasks and responsibilities;
- ensuring the common approach to activities of organisation departments in complying with the requirements of international standards with a view of fulfilling the objectives in the area of quality facing LLC «Moldovatransgas».

## APPLICATION OF EU FUNCTIONAL GAS STANDARDS IN PRACTICE OF MOLDOVATRANGAS

Currently the enterprise uses the following EU standards in its activities:

**-SM SR ISO 15971:2014** «Natural gas. Measurement of properties. Calorific value, relative density and Wobbe index»

**-SM SR EN ISO 10715:2015** «Natural gas. Sampling guidelines»

And a number of interstate standards adopted by Eurasia Council on Standardisation.

I would like to note that some more standards are adopted and in effect in Moldova:

**GOST EN 437-2012** «Test gases, test pressures. Appliance categories»

**GOST ISO 10405-2012** «Petroleum and natural gas industries. Care and use of casing and tubing»

**GOST ISO 10423-2012** «Petroleum and natural industries. Drilling and production equipment. Wellhead and Christmas tree equipment»

**GOST ISO 15970-2012** «Natural gas. Measurement of properties. Volumetric properties: density, pressure, temperature and compression factor»

**GOST CEN/TS 15173-2010** «Gas supply systems. Pipe Integrity Management System (PIMS). Resume»

Given that LLC “Moldovatrangas” uses materials and equipment of European manufacturers, in connection with appearance on the gas market in Moldova another gas transportation operator from Romania, that is the EU (**GP Vestmoldtransgaz**), working mainly on EU standards, there is a necessity to review all effective standards to ensure energy security of the country and maintain a process of integrating Moldova’s gas market into the EU single market.

# IMPLEMENTATION OF EU GAS STANDARDS

In Moldova the **Technical Committee on Standardisation in Electricity and Gas Industries**, created in close cooperation with the National Standardisation Institute, will work on:

- Publication of internal standards and studying international standards for further implementation as national standards;
- Harmonisation of Moldova's standards with European and international ones;
- Studying draft international and EU standards for further application in compliance with national interest.



**THANK YOU**