INOGATE Country Coordinators and Working Groups Meeting
Brussels, 18-19 May 2011

Project: Validation, Certification, and Subsequent Commercialization of the Eastern Europe Regional Centre for Gas Metrology in Boyarka, Ukraine

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Fact box

**Project Title**
Validation, Certification, and Subsequent Commercialization of the Eastern Europe Regional Centre for Gas Metrology in Boyarka, Ukraine

**Completion date**
31/03/2011

**Beneficiary countries**
- Ukraine
- Moldava
- Belarus

**Objectives**
- Comprehensive International Validation and Certification of laboratories of the Boyarka Metrological Centre (BMC)
- Laboratories: Department of Gas Flow Primary Standards (rig #5), Department of Calibration of Gas Meters (rig #3), Department of calibration devices for measuring gas physical parameters (pressure, temperature, humidity, density, composition)
Fact box

- To identify missing hardware and software
- Preparation and supervision of separate equipment supply contract, i.e. delivery, installation and commissioning
- Training of laboratory staff into various calibration techniques, gas flow metrology, and Quality Management System
- To assist and train the BMC in preparation and putting in operation of a quality management system according to the international standard ISO 17025
- Calibration of BMC laboratory standards for flow, pressure, temperature, humidity, and electricity at calibration facilities of VSL, NMi (both The Netherlands), and Pigsar (Germany).
- To prepare for accreditation of the BMC laboratories
- Marketing study: Study of requirements of the countries in the region
- Elaboration of a business plan for the Centre’s commercialization
- Organization and presentation of Centre’s activities, eg website, newsletter, press release and final conference
Keynotes

Achievements to date

- Review of the current situation (October-November 2008) and identification of missing equipment
- Establishment and supervision of a separate equipment supply contract
- Equipment was supplied in April 2011
- Training of BMC laboratory staff into the metrology and the calibration of various equipment (gas pressure, temperature, flow, composition, humidity, density) has been performed.
- Study Tour to The Netherlands; visit of BMC staff to calibration facilities of VSL and NMi.
- Trainings, workshops and Study Tour were very useful and informative
- Development of a Quality Management System (QMS) under supervision of the project via training and workshops and pre-assessment of QMS at the end of the project
- Calibration of BMC standards for flow, pressure, temperature, humidity, and electricity at the facilities of VSL, NMi (NL) and Pigsar (Germany). Results were good and acceptable for Beneficiary
Keynotes

- Extended calibration/traceability programs for the several BMC laboratories have been written and agreed with Beneficiary and DSSU
- Large step was made into the preparation of laboratories for certification, however at the end of the project BMC was not fully prepared for accreditation. Main reasons: equipment was not delivered, a few laboratories were technically not operational, and quality system is not completed
- Study of the requirements of the countries in the region
- Business plan for BMC’s commercial activities
- Organization and presentation of Centre’s activities, eg website, brochure, newsletter, press release and final conference (30 March 2011, Kiev)
- Road-map for (near) future activities
Keynotes

Next steps
Project was finished on 31 March 2011
Project Impact

How the project meets Road Map objectives

Proper and regular calibration of gas metering equipment in an accredited laboratory will help

- To minimize the deterioration of the gas networks, and developing appropriate network maintenance practices
- Rehabilitation of existing gas networks in the Eastern European region
- Proper installation and maintenance of new gas and oil metering facilities in accordance with international standards

How the project has benefited its counterparts

- Knowledge transfer of latest developments into various aspects of metrology in the area of natural gas metering and related internationally accepted standards
- Traceability of BMC laboratory standards to primary and secondary standards located in the National Metrology Institutes of Western Europe.