



ExMC/639/DV
September 2010

**INTERNATIONAL ELECTROTECHNICAL COMMISSION SYSTEM FOR
CERTIFICATION TO STANDARDS RELATING TO EQUIPMENT FOR
USE IN EXPLOSIVE ATMOSPHERES (IECEx SYSTEM)**

**TITLE: IECEx Assessment Report for the acceptance of Główny Instytut
Górnictwa (GIG) as an IECEx Certification Body (ExCB) within the
IECEx System**

Circulation to: Members of the IECEx Management Committee, ExMC

INTRODUCTION

This document contains the IECEx Assessment Report for the acceptance of *Główny Instytut Górnictwa (GIG)* as an IECEx Certification Body (ExCB) within the IECEx System.

This report is hereby submitted for voting.

Please consider this assessment report and return the completed voting form, (a separate document - in Word Format), to the IECEx Secretariat by **101029**.

Your speedy response to the voting process will be very much appreciated.

Chris Agius

IECEx Secretariat

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ExMC/639/DV
September 2010

IECEX ASSESSMENT REPORT FOR GŁÓWNY INSTYTUT GÓRNICTWA (GIG) (IECEX Certification Body, ExCB)

Type of Assessment: (please mark)

Initial Assessment for Candidate ExCB **X**

Re-Assessment of ExCB

Scope Extension of ExCB

1. OBJECT AND FIELD OF APPLICATION

1.1. Country:

POLAND

1.2. Name of Candidate ExCB

Główny Instytut Górnictwa (GIG)
Kopalnia Doświadczalna "BARBARA"

1.3. Members of the Assessment Team

Jim Munro, Lead Assessor
Alain Czyz, (FR) Expert Assessor
Vijay Varma, (GB, ITS) Expert Assessor

1.4. Place and Date of Assessment

Główny Instytut Górnictwa
Kolonia Doświadczalna "BARBARA"
ul. Podleska 72, 43-190 Mikołów, POLAND

28 September to 1 October 2009

1.5. Assessment References

- i) IECEx 02 Third Edition 2006-11 – Equipment Certification Program covering equipment for use in explosive atmospheres, – Rules of Procedure
- ii) IECEx OD 003 IECEx Assessment procedures
- iii) IECEx OD 005 Quality System requirements for manufacturers
- iv) IECEx OD 009 Issuing of CoCs, ExTRs and QARs
- v) IECEx Document OD 025 (ExMC/161/CD) Management of assessment and surveillance programs for manufacturers (includes QAR forms)
- vi) ISO/IEC Guide 65:1996
- vii) IECEx Document OD 17 Drawing and documentation guidance
- viii) ExCB application documents dated 11 May 2009.

1.6. Scope of Application (to be selected)

During the opening meeting, the IECEx Assessment Team and GIG reviewed the scope of application and agreed to the following scope.

Number	Title
60079-0 Edition 4 & Edition 5	Explosive atmospheres - Part 0: Equipment - General requirements
60079-1 Edition 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
60079-2 Edition 5	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure «p»
60079-5 Edition 3	Explosive atmospheres - Part 5: Equipment protection by powder filling «q»
60079-6 Edition 3	Explosive atmospheres - Part 6: Equipment protection by oil immersion «o»
60079-7 Edition 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
60079-11 Edition 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
60079-15 Edition 3	Electrical apparatus for explosive gas atmospheres - Part 15: Construction, test and marking of type of protection "n" electrical apparatus
60079-18 Edition 2 & Edition 3	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation "m" electrical apparatus
60079-25 Edition 1	Electrical apparatus for explosive gas atmospheres - Part 25: Intrinsically safe systems
60079-26 Edition 2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
60079-27 Edition 2	Explosive atmospheres – Part 27: Fieldbus intrinsically safe concept (FISCO)
60079-28 Edition 1	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation With restriction of scope for the testing in explosive mixtures (Clause 6)
60079-29-1 Edition 1	Explosive atmospheres - Part 29-1: Gas detectors – Performance requirements of detectors for flammable gases
60079-30-1 Edition 1	Explosive atmospheres – Part 30-1: Electrical resistance trace heating – General and testing requirements
60079-31 Edition 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"

Number	Title
61241-0 Edition 1	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
61241-4 Edition 1	Electrical apparatus for use in the presence of combustible dust Part 4: Protection by enclosures "tD"
61241-11 Edition 1	Electrical apparatus for use in the presence of combustible dust – Part 11: Protection by intrinsic safety 'iD'
61241-18 Edition 1	Electrical apparatus for use in the presence of combustible dust Part 18: Protection by encapsulation "mD"
62013-1 Edition 2	Caplights for use in mines susceptible to firedamp Part 1: General requirements - Construction and testing in relation to the risk of explosion
62086-1 Edition 1	Electrical apparatus for explosive gas atmospheres – Electrical resistance trace heating Part 1 General and testing requirements

1.7. Candidate ExCB Persons Interviewed

Name	Position
Michał Górny	mgr inż., Specialist of IECEx Certification, (Head of ExCB)
Dariusz Stefaniak	Dr inż. Head of Certification Body
Jerzy Supernak	Head of management system certification team
Krzysztof Kubica	Mgr inż. (Quality Manager for certification body only)

1.8. Legal Entity of the Candidate ExCB

The Central Mining Institute, of which the Product Certification Team "BARBARA" is a part, has been established as a legal entity by means of a statute signed and issued by the Minister of Economy. The latest statute which was dated 28 May 2008 was viewed.

1.9. Associated Testing Laboratories

The associated ExTL is also part of the GIG and operates at the same location. The ExCB and ExTL have separate reporting lines to the GIG Director who is located in Katowice.

1.10. Associated Certification Functions

The Central Mining Institute does certification of management systems, other areas of product certification and personnel certification.

1.11. National Marks and Certificates

There is national Polish safety mark that is used that is called the "B" mark. Certificates are also issued for ATEX.

1.12. **Financial Support**

The operation for testing and certification is funded through the fees charged for these services.

1.13. **History**

The Central Mining Institute is a scientific-research institute acting on the basis of the act on research-development units. The Central Mining Institute was established on 16 June 1945 on the basis of a Resolution of the Council of Ministers of 11 April 1945 (at that time named Scientific-Research Institute of the Coal Mining Industry) on the basis of the established on 8 March 1945 by the Central Board of the Coal Mining Industry – Central Laboratory of Coal Mining Industry, a part of which constituted the Experimental Mine “Barbara”. The present name was conferred on the Institute on 24 March 1950, and the statute on 17 November 1951. The present statute of the Central Mining Institute by the Scientific Council of the Central Mining Institute and approved by the Minister of Industry and Trade, who was the founding organ for the Institute. The statute provides for in § 4 point 5 conducting of scientific research and research-development works with respect to the assessment and attestation of machines, equipment and materials used in the industry, and first of all in mining.

The Experimental Mine “Barbara” was established in 1925 on the strength of an act passed by the Parliament as the first in Poland experimental station involved in the problems of occupational safety in mining. In 1926 the station was transferred from Pniowiec to Mikołów in order to conduct research work relating to the control of methane and coal dust explosion hazard and mine rescue.

1.14. **Standards Accepted**

See clause 1.6 of this report

1.15. **National Differences to IEC Standards**

National differences to IEC standards are those for the European Group Differences as listed in the latest version of the IECEx Scheme Bulletin.

2. ORGANISATION

2.1. **Names, Titles and Experience of the Senior Executives**

Name	Title	Experience
Józef Dubiński	Prof. dr hab. inż., Director GIG	None in Ex
Dariusz Stefaniak	Dr inż.	None in Ex
Krzysztof Cybulski	Dr hab.	None in Ex
Michał Górny	mgr inż., Specialist of IECEx Certification, (Head of ExCB)	17 (17 in Ex)

2.2. **Name, Title and Experience of the Quality Management Representative**

Name	Title	Experience
Krzysztof Kubica	Mgr inż. (Quality Manager for certification body only)	5 (5 in quality)

2.3. Name and Title of Nominated Principal Contact

Name	Title	Comments
Michał Górny	Mgr inż.	mgr inż., Specialist of IECEx Certification, (Head of ExCB)

2.4. Name and Title of Signatories for Certification

Name	Title	Comments
Michał Górny	Mgr inż.	mgr inż., Specialist of IECEx Certification, (Head of ExCB)
Paweł Demel (in the absence of the above)	Mgr inż.	

2.5. Other Employees in ExCB activity

Name	Title	Responsibility and Experience in Ex
Paweł Demel	mgr inż.	34 (30 in Ex)
Łukasz Surowy	mgr inż.	8 (8 in Ex)
Jerzy Supernak	mgr inż.	26 (11 in quality)

2.6. Organizational Structure

Annex 1 shows the reporting structure for the ExCB and ExTL operations and Annex 2 Organization Chart of Certification Unit.

2.7. Administration (including Indemnity Insurance)

GIG carries indemnity insurance for the amount of PLN 5,000,000. The insurance policy was viewed and was valid at the time of assessment.

3. RESOURCES

There are five staff members who are designated to operate in the IECEx ExCB. Two members are only involved in carrying out assessments of manufacturers. One can also do these assessments in addition to other ExCB roles.

The relevant staff are detailed in the competency matrix.

Two members of the ExCB above may also work in the ExTL. When they carry out an ExTL role for a project they cannot operate in an ExCB role for that project (with except of assessment of manufacturers).

4. COMMITTEES / Governing Board / Appeals / Advisory Board

The Quality Manual in 5.3 makes provision for a Certification Board, appointed by the General Director of the CMI. This meets once a year. The last meeting was on 15 July 2009. The minutes of that meeting were reviewed.

There is also provision in 5.4 for technical committees comprising experts. There are currently three committees formed, one of which is for product certification.

5. CERTIFICATION OPERATIONS

5.1. *National Approval/Certification Methods*

As a notified body GIG only issues ATEX certificates in the Ex field.

5.2. *Certification Policy*

There is a declaration of quality policy in part 1 of the quality manual for the certification unit (of which the ExCB is a part) which is appropriate to the IECEx System. This policy includes specific reference to certification.

5.3. *Application for Certification*

Procedure PC/CM-IECEX-01 includes an IECEx application form in Polish and English.

5.4. *Certification Decision*

The certification decision is taken by IECEx Certification Specialist (who is the head of the IECEx ExCB) after he has made an examination of the ExTR and QAR and other documents. Procedures were revised to clarify when this task might be done by a deputy. Procedure PC/CM-IECEX-01 in point 6.4.4 states that the certificate draft is prepared by employees (according to the competence scope). This certificate draft is available at the time the certification decision is taken.

5.5. *Suspension and Cancellation of Certificates*

Suspension and cancellation of certificates is addressed in procedure PC/CM-IECEX-01 clause 6.4.7 and found to meet IECEx requirements.

6. STATISTICS

6.1. *Certificates Issued*

Number of ATEX certificates issued in the preceding four years for each type of protection:

Standards	Title	Number of issued certificates				Total
		2006	2007	2008	2009	
60079-0 (50014)	Explosive atmospheres - Part 0: Equipment - General requirements	338	358	250	135	Part 0 included in numbers below 344
60079-1 (50018)	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures 'd'	106	93	76	69	
60079-2	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosures 'p'	-	2	5	-	

Standards	Title	Number of issued certificates				
60079-5	Explosive atmospheres - Part 5: Equipment protection by powder filling 'q'	-	-	-	-	-
60079-6	Explosive atmospheres - Part 6: Equipment protection by oil immersion 'o'	-	-	-	-	-
60079-7 (50019)	Explosive atmospheres - Part 7: Equipment protection by increased safety 'e'	21	16	19	12	68
60079-11 (50020)	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety 'i'	204	267	166	52	689
60079-15	Electrical apparatus for explosive gas atmospheres - Part 15: Construction, test and marking of type of protection 'n' electrical apparatus	-	1	-	2	3
60079-18 (50028)	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus	7	1	6	2	16
60079-25	Electrical apparatus for explosive gas atmospheres - Part 25: Intrinsically safe systems	-	-	-	-	-
60079-26	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga	-	-	-	2	2
60079-27	Electrical apparatus for explosive gas atmospheres - Part 27: Fieldbus intrinsically safe concept (FISCO) and Fieldbus non-incendive concept (FNICO)	-	-	-	-	-
60079-28	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation	-	-	-	-	-
60079-29-1	Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases	-	-	-	-	-
60079-30-1	Explosive atmospheres - Part 30-1: Electrical resistance trace heating - General and testing requirements	-	-	-	-	-
61241-0	Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements	-	-	-	9	9
61241-1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures 'tD'	-	-	-	8	8

Standards	Title	Number of issued certificates				
61241-1-1	Electrical apparatus for use in the presence of combustible dust - Part 1: Electrical apparatus protected by enclosures and surface temperature limitation - Specification for apparatus	-	-	-	-	-
61241-4	Electrical apparatus for use in the presence of combustible dust - Part 4: Type of protection 'pD'	-	-	-	-	-
61241-11	Electrical apparatus for use in the presence of combustible dust - Part 11: Protection by intrinsic safety 'iD'	-	-	-	1	1
61241-18	Electrical apparatus for use in the presence of combustible dust - Part 18: Protection by encapsulation 'mD'	-	-	-	-	-
61779-1	Electrical apparatus for the detection and measurement of flammable gases - Part 1: General requirements and test methods	5	1	-	1	7
61779-2	Electrical apparatus for the detection and measurement of flammable gases - Part 2: Performance requirements for group I apparatus indicating a volume fraction up to 5% methane in air	5	1	-	1	7
61779-3	Electrical apparatus for the detection and measurement of flammable gases - Part 3: Performance requirements for group I apparatus indicating a volume fraction up to 100% methane in air	5	1	-	1	7
61779-4	Electrical apparatus for the detection and measurement of flammable gases - Part 4: Performance requirements for group II apparatus indicating a volume fraction up to 100% lower explosive limit	1	-	-	-	1
61779-5	Electrical apparatus for the detection and measurement of flammable gases - Part 5: Performance requirements for group II apparatus indicating a volume fraction up to 100% gas	1	-	-	-	1
62013-1	Caplights for use in mines susceptible to firedamp - Part 1: General requirements - Construction and testing in relation to the risk of explosion	2	-	-	-	2
62086-1	Electrical apparatus for explosive gas atmospheres – Electrical resistance trace heating – Part 1: General and testing requirements	-	-	-	-	-

Note: For correlation between certificates and test reports issued GIG have provided the following explanation. For one certificate they may produce many test reports. For example, there may be a report for visual checking, one for impact, one for IP testing etc. In this case there are may be many more test reports than certificates for a type of protection. In contrast, when they re-certify equipment to later editions of standards, then they may use earlier test reports

and hence in this case the number of certificates may exceed the number of test reports. They do produce an assessment report for each certificate but these have not been included in the report numbers.

7. DOCUMENTATION

7.1. Quality Manual

There is a general GIG quality manual for the whole operation of GIG related to operation under ISO 9001.

In addition, there are more specific quality manuals for the various areas, with one dedicated to the operation of the certification unit. This was the manual relevant to the operation of the ExCB. There is a separate quality manual related to the operation of the testing within the ExTL.

7.2. Procedures

There is a number of supporting procedures with two developed specifically for conducting IECEx certification activities. These were reviewed and found to meet IECEx requirements including the IECEx Operational Documents

7.3. Work Instructions

There are no work instructions for the ExCB, as all information is contained in the GIG Procedures.

7.4. Records

At present for each project there is a common file for records for certification and testing. However, there is a plan to separate the original testing records from the certification records. When this is done, a copy of the test report used for certification will be stored with the certification file. There will also be an electronic copy of the report on the intranet. The new approach is planned for commencement in January 2010.

To date no records have been destroyed. However, the Quality Manual at present specifies 10-years from the date of certificate validity expiration.

Files are stored and preserved appropriately to ensure integrity of the records.

7.5. Document Change Control

All quality documents are available and controlled on hard copy version. The procedure for control is shown chapter 8 of the quality manual. Most standards used are available in hard copy form, although some are available in electronic form. All are subject to documentation control.

Procedures were reviewed after the assessment to implement a clearer system to ensure that at the start of a project for IECEx the latest relevant forms of the standards are used, including any corrigendum and interpretation sheets, together with any relevant IECEx operational documents (ODs) and ExTAG decision sheets.

8. CONFIDENTIALITY

Chapter 15 of the quality manual requires all relevant parties to sign written agreements to maintain confidentiality, including certification personnel, Certification Board and the technical committees. Examples of signed forms were viewed for each of the above situations.

9. PUBLICATIONS

Publications are addressed in Chapter 16 of the Quality Manual. Most public information is made available via the GIG website at <http://www.gig.katowice.pl>. But all formal information about IECEx activity (forms, information, advice) will be on the Website of the Certification Body (GIG) which is <http://www.gigcert.com/>

10. NATIONAL ACCREDITATION

Accreditation is held in a number of areas including:

- Personnel certification to ISO/IEC 17024 – Certificate Nr AC145 from Polskie Centrum Akredytacji (PCA), valid to 10/1/2012
- Management systems to ISO/IEC 17021 – Certificate Nr AC083 from Polskie Centrum Akredytacji (PCA), valid to 4/10/2009
- Certification from Polski Centrum Badan I Certyfikacji S.A. Nr JBS – 54/5/2009 valid to 2012-06-15 for PN-EN ISO 9001:2009, PN-N-18001:2004 and PN-EN ISO 14001:2005.
- Product certification to PN-EN 45011:2000 – Certificate Nr AC038 from Polskie Centrum Akredytacji (PCA), valid to 30/12/2010. All standards required in the scope are covered with the exception of IEC 60079-31. A copy of the certificate is shown in Annex 3.

The report from the last product certification audit was reviewed. No non-conformities were found.

The product accreditation scope reviewed mainly covered earlier editions than the ones covered by this application.

11. RECOGNITION AND AGREEMENTS

GiG is a notified body under ATEX. It does not have any bi-lateral agreements with other bodies in the Ex field.

12. INTERNAL AUDIT AND PERIODIC MANAGEMENT REVIEW

Chapter 14 of the Quality Manual specifies the procedures for internal audits. There is also a procedure PO-04 for internal audits. The audits are carried out at least once a year. The internal audit carried out on 13 July 2009 was reviewed. Although, this was an internal audit, an external auditor was used to take advantage of his experience. There was a comprehensive report produced, but with no non-conformities found.

Chapter 7 of the Quality Manual specifies the procedures for management review. There is also a procedure PO-05 for management review. The last

meeting was on 7 January 2009. The minutes from the meeting were reviewed and found to be satisfactory.

13. SUBCONTRACTING, USE OF OTHER LABS AND USE OF OTHER LOCATIONS

The ExTL laboratory associated with the ExCB has the capability to undertake all tests in the standards in within their scope except those shown below. For these tests subcontracting is required with the procedure specified in Chapter 10 of the Quality Manual. GIG only plans to subcontract to laboratories that hold current National Accreditation by the Polish Centre of Accreditation which is an ILAC member. There have been no tests to date that have had to be subcontracted. The following tests have been identified as requiring subcontracting:

- Resistance to light.
- Shock test of batteries over 50 kg to IEC 60079-7.
- EMC testing for gas detectors
- Power supply interruption test for gas detectors
- Software verification for gas detectors

Where testing has to be done off site there is a procedure 12 from the testing laboratory that specifies how this should be done. This specifies that test is to be done by ExTL laboratory staff using their test equipment. This is done for significant measurements.

14. TRAINING

The Quality Manual 9.2 specifies training and refers to procedure PO-03. There is an annual training plan for external and internal training produced for staff. In addition unplanned training is also carried out. The training plans were viewed, and also examples of records of training and personal training records.

There is a matrix of competences attached to procedure PC/CM-IECEx-01. This covers testing, verification of test records, auditing of manufacturers, certification and independent review. These are grouped by ExCB, ExTL and 'QAR'. There is a detailed record of competencies or each staff member against the standards applied.

Evidence was provided of training carried out with relevant staff on IECEx procedures and publications.

15. ASSESSMENT OF MANUFACTURERS AND ISSUE OF QARS

There is a procedure PC/SZ-08 covering assessment of manufacturers for the IECEx Scheme. Two ATEX audit reports were reviewed and found to be satisfactory. There is an effective system in place to ensure that a competent team will carry out the audit and that the QAR will then subject to an independent competent person.

16. COMPLAINTS AND APPEALS (Including appeals to IECEx)

Chapter 13 of the quality manual covers complaints and appeals and there is more detail in procedure PO-07.

At the time of the assessment visit the procedures did not cover appeals to the IECEx Scheme. The procedures were subsequently changed to rectify this. The assessment team also noted that the procedure on appeals did not at the time of the assessment cover appeals to the IECEx System or how this is conveyed to customers. The procedure has subsequently been revised to address this to the satisfaction of the assessment team.

17. SPECIAL FACTS TO BE NOTED

17.1. Supporting Documentation

Copies of additional supporting information for this assessment have been provided to the applicant and the IECEx Secretariat. These include:

- Site Assessment Report incorporating details of issues raised and how these have been resolved
- Checklist for ISO/IEC Guide 65
- Competency matrix for staff

18. COMMENTS (Including issues found during assessment)

A number of issues were found during the assessment as detailed in Annex A of the site assessment report. These were principally related to ensuring the procedures clearly defined how work will be done in accordance with IECEx rules. These issues were all addressed to the satisfaction of the assessment team.

19. RECOMMENDATION

Based on the assessment performed on 28 September to 1 October 2009 Główny Instytut Górnictwa (GIG) Kopalnia Doświadczalna "BARBARA" is recommended for acceptance in the IECEx scheme as an IECEx Certification Body (ExCB) according to the scope of the standards listed in this document.

Jim Munro
Lead Assessor

Alain Czyz
Expert Assessor

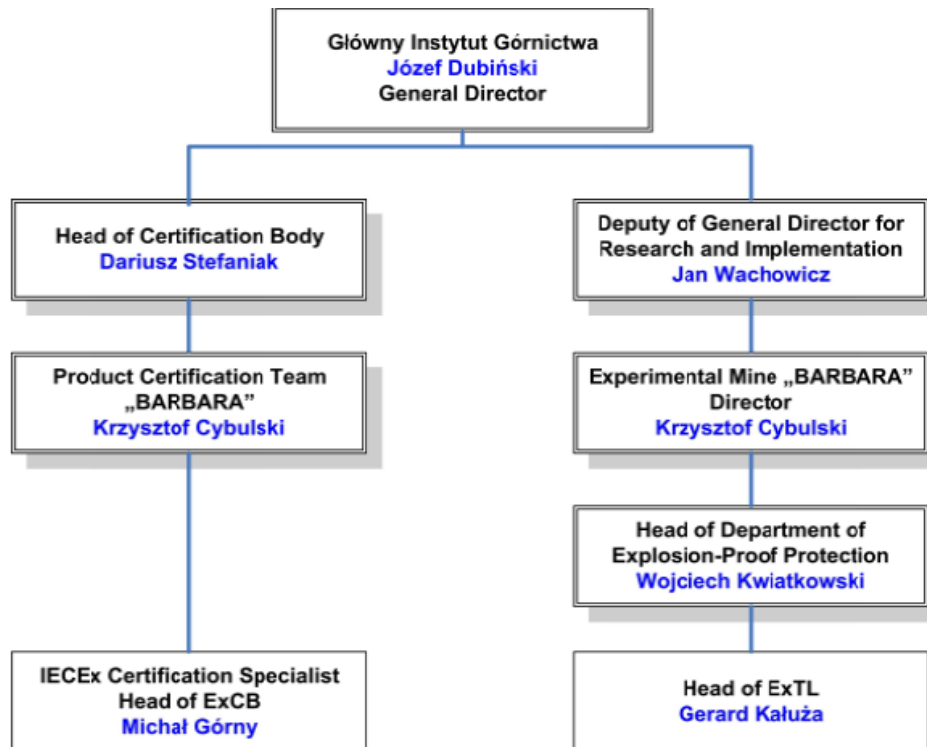
Vijay Varma
Expert Assessor

Date: 14 March 2010

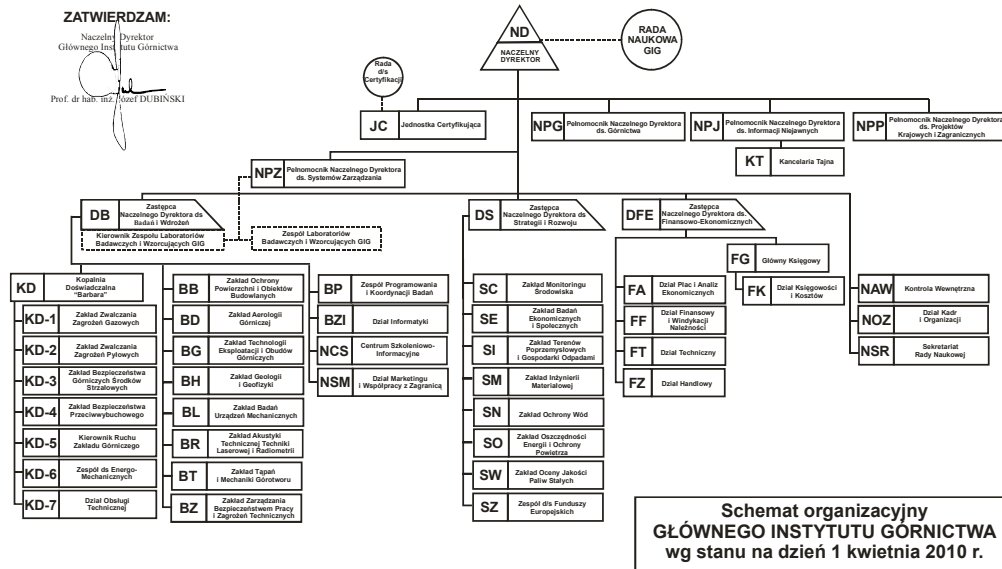
List of Annexes:

1. Overall Organization Chart
2. Organization Chart of Certification Unit
3. Accreditation Certificate for Product Certification

Annex 1 Overall Organization Chart (Showing reporting lines)



Annex 2 Organization Chart of Certification Unit



Annex 3
Accreditation Certificate for Product Certification

POLSKIE CENTRUM AKREDYTACJI
POLISH CENTRE FOR ACCREDITATION



Sygnatariusz EA MLA
EA MLA Signatory

CERTYFIKAT AKREDYTACJI
JEDNOSTKI CERTYFIKUJĄCEJ WYROBY
ACCREDITATION CERTIFICATE FOR PRODUCT CERTIFICATION BODY
Nr AC 038

Potwierdza się, że: / This is to confirm that:

GŁÓWNY INSTYTUT GÓRNICTWA
JEDNOSTKA CERTYFIKUJĄCA
Plac Gwarków 1, 40-166 Katowice

spełnia wymagania normy PN-EN 45011:2000
meets requirements of the PN-EN 45011:2000 standard

Akredytowana działalność jest określona w Zakresie Akredytacji Nr AC 038
Accredited activity is defined in the Scope of Accreditation No AC 038

Akredytacja pozostaje w mocy pod warunkiem przestrzegania
wymagań jednostki akredytującej określonych w kontrakcie Nr AC 038
This accreditation remains in force provided the Body observes
the requirements of Accreditation Body defined in the Contract No AC 038

Certyfikat akredytacji ważny do dnia 30.12.2010 r.
The certificate of accreditation is valid until 30.12.2010

Akredytacji udzielono dnia 31.12.1996 r.
Accreditation was granted on 31.12.1996



DYREKTOR
POLSKIEGO CENTRUM AKREDYTACJI


KAROL HAUPTMANN

Warszawa, 8 grudnia 2006 roku