



ExMC/1226/DV  
May 2017

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

**Title: Scope Extension Assessment Report for NANIO CCVE, an Accepted ExCB and  
ExTL within the IECEx System, Equipment Scheme 02**

**To: Members of the IECEx Management Committee, ExMC**

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**Introduction**

Following an application for a scope extension by NANIO CCVE, to include ISO 80079-36, ISO 80079-37 and IEC 60079-33 within their scope, a special site assessment visit was arranged and conducted.

This report details the assessment findings of this scope extension with the IECEx Assessment Team recommending the acceptance of the above scope extension.

It is now hereby submitted for voting by ExMC.

Please consider the report and return the completed voting form, separate Word Document, to the Secretariat

[chris.agius@iecex.com](mailto:chris.agius@iecex.com) by **2017 06 25**.

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

*Chris Agius*

**IECEx Secretary**

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**ExMC/1226/DV  
May 2017**

**IEC System for certification to standards relating to equipment  
for use in Explosive Atmospheres (IECEx System)**

**IECEx Assessment Report Form**

**IECEx Assessment Report Form for use by IECEx Assessment Teams to  
report Assessments conducted according to the IECEx Assessment  
Procedures of**

- a) Operational Document IECEx OD 003-2 for the Certified  
Equipment Scheme**
- b) Operational Document IECEx OD 016 for the Certified Service  
Facility Scheme**
- c) Operational Document IECEx OD 022 for the IECEx Conformity  
Mark Licensing System**

**IECEx ExCB/ExTL assessment report for NANIO CCVE**

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## 1 Assessment information

### 1.1 Type of Body covered by this assessment: <retain appropriate marks>

ExCB for IECEx Certified Equipment Scheme	✓
ExTL for IECEx Certified Equipment Scheme	✓
ExCB for IECEx Certified Service Facilities Scheme	
ExCB for IECEx Conformity Mark Licensing System	

NOTE 1 ExCB - IECEx Certification Body

NOTE 2 ExTL - IECEx Testing Laboratory

### 1.2 Type of assessment: <retain appropriate marks>

Pre-assessment for candidate body	
Initial assessment for candidate body	
Mid Term Surveillance	✓
Re-assessment	
Scope extension	✓

This site assessment is part of the processing of a scope extension request from NANIO CCVE for inclusion of the ISO 80079-36 and -37 non-electrical Standards as well as a scope extension to cover IEC 60079-33.

### 1.3 Details of body

#### 1.3.1 Country

Russian Federation

#### 1.3.2 Name of body

NANIO CCVE

#### 1.3.3 Name and title of nominated principal contact

Name	Title	E-mail address
Alexander S. Zalogin	General Director NANIO CCVE Head of ExCB CCVE	zalogin@ccve.ru

### 1.4 Assessment information

#### 1.4.1 Members of the assessment team

Name	Role (modify as necessary)
Ron Webb	Lead Assessor

#### 1.4.2 Place(s) of assessment

NANIO CCVE	OJSC Plant ECOMASH, VUGI, Lyubertsy, Moscow region 140004, Russian Federation
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#### 1.4.3 Assessment date

19-21 April 2017

## **1.5 Scopes**

### **1.5.1 Additional Standards for ExCB scope for equipment certification scheme**

Number	Title
ISO 80079-36 Edition 1 (2016)	Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements
ISO 80079-37 Edition 1 (2016)	Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"
IEC 60079-33 Edition 1	Explosive atmospheres – Part 33: Equipment protection by special protection "s"

### **1.5.2 Additional Standards for ExTL scope for equipment certification scheme**

Number	Title
ISO 80079-36 Edition 1 (2016)	Explosive atmospheres - Part 36: Non-electrical equipment for explosive atmospheres - Basic method and requirements
ISO 80079-37 Edition 1 (2016)	Explosive atmospheres - Part 37: Non-electrical equipment for explosive atmospheres - Non electrical type of protection constructional safety "c", control of ignition source "b", liquid immersion "k"
IEC 60079-33 Edition 1	Explosive atmospheres – Part 33: Equipment protection by special protection "s"

## **2 Common information**

### **2.1 Legal entity of body**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment, refer to Re-assessment Report ExMC/993/DV.

### **2.2 Financial support**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Re-assessment Report ExMC/993/DV.

### **2.3 History**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Re-assessment Report ExMC/993/DV.

### **2.4 Documentation**

#### **2.4.1 Quality manual**

The quality manual has been updated to incorporate the requirements of OD 280 for non-electrical equipment and OD233 for Ex 's'

#### **2.4.2 Procedures**

While covered in the assessment reported in ExMC/993/DV, it was confirmed that the procedures also cover the new Standards listed under the scope extension request. Reference PD 6-16 and PD 5-16.



### **2.4.3 Work instructions**

Included in the procedure above

### **2.4.4 Records (including test records where relevant)**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Re-assessment Report ExMC/993/DV.

### **2.4.5 Document change control**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Re-assessment Report ExMC/993/DV.

## **2.5 Confidentiality**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Re-assessment Report ExMC/993/DV.

## **2.6 Publications (Hard cover and Electronic)**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Re-assessment Report ExMC/993/DV.

## **2.7 Recognition and agreements**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Re-assessment Report ExMC/993/DV.

## **2.8 Internal audit and periodic management review**

While covered in the assessment reported in ExMC/993/DV, it was confirmed that the procedures also cover the new Standards listed under the scope extension request.

## **2.9 Contracting, subcontracting, use of other labs and use of other locations**

There is no subcontracting used for these standards

## **2.10 Training and competence**

There is a competency matrix for the IECEx Scheme. Interviews were undertaken with staff to ensure that they had the required level of understanding. These are included in a TCD document which is held by the Secretariat. Training records for each staff member are held as hard copy and are very comprehensive.

## **2.11 Ex s**

### **2.11.1 Involvement in Standards making process**

NANIO CCVE are members of the national committee TC403 and IEC TC31 and subcommittees. NANIO CCVE circulate documents internally and make comment back to the committee where relevant. As such they meet the requirements in OD 233 to be involved in the standards making process.

### **2.11.2 Independent Verifiers**

NANIO CCVE have identified several staff members as Independent Verifiers. These persons are listed in the Technical Capability Document and interviews were held with three of them. They all had good understanding of Ex protection concepts and how these did not always cover special types of equipment. Ways of using existing concepts or variations to existing concepts



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were seen as a way of being used for Ex s. The methods that have applied to existing Ex s projects were discussed. They all understood the need to carry out an Ignition Hazard Assessment prior to identifying the measures to be taken to provide Ex protection. All the listed Independent Verifiers were considered appropriate.

## **2.12 Complaints and appeals (including appeals to IECEx)**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Re-assessment Report ExMC/993/DV.

## **2.13 Special facts to be noted**

### **2.13.1 Supporting documentation**

Copies of additional supporting information for this assessment have been provided to the applicant and the IECEx Secretariat. These are included in a site assessment report and include:

- Completed technical capability document (TCD)

## **2.14 Recommendations**

Based on the assessment performed on 20-21 April 2017, NANIO CCVE is recommended for scope extension to include the Standards listed in 1.5 in the IECEx scheme as:

- An ExCB in the IECEx Certified Equipment Scheme
- An ExTL in the IECEx Certified Equipment Scheme

with the extension of scope as detailed in section 1.5.

<b>Ron Webb</b>
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<b>Lead Assessor</b>
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Date: 21 April 2017



### **3 ExCB for IECEx Certified Equipment Scheme**

#### **3.1 Assessment references**

- a) IECEx02 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Rules of Procedure
- b) OD003-2 Assessment, surveillance assessment and re-assessment of ExCBs and ExTLs operating in the IECEx 02, IECEx Certified Equipment Scheme
- c) OD005-2 IECEx Quality System Requirements for Manufacturers – Part 2: Audit Checklist. (This is available in a Word format for use by ExCBs)
- d) ISO/IEC 80079-34 Edition 1, Explosive atmospheres – Part 34: Application of quality systems for equipment manufacture
  - e) OD009 Issuing of CoCs, ExTRs and QARs
- f) IECEx Document OD 025 Guidelines on the Management of Assessment and Surveillance programs for the assessment of Manufacturer's Quality Systems in accordance with the IECEx Scheme
- g) OD0026 IECEx Certified Equipment Scheme – Guidelines for the qualification of Lead Auditor and Auditors, in accordance with the IECEx System
- h) ISO/IEC 17065, General requirements for bodies operating product certification systems
  - i) IECEx Document OD17 Drawing and documentation guidance
  - j) IECEx Technical Capability Document (TCD)
  - k) ExTAG decision sheets (DSs) IECEx Certified Equipment Scheme –
- l) OD 280 IECEx Certified Equipment Scheme – Guide to Certification of Non-electrical Equipment and Protective Systems
- m) OD 233 IECEx Certified Equipment Scheme - Assessment of Ex “s” Equipment

NOTE The latest editions of the above documents were applied

#### **3.2 Candidate ExCB persons interviewed**

<b>Name</b>	<b>Position</b>
Alexander S. Zalogin	General Director / Head of CB
Nikolay N. Prelovsky	Deputy Head of CB
Yulia V. Tikhonenko	Quality Manager
Victor V. Ershov	Deputy Head of ExTL
Boris V Chernov	Head of ExTL
Anna I Timofeeva	Expert
Viktor P Vinogradov	Expert

#### **3.3 Associated ExTL(s)**

The ExCB is integral with the ExTL

#### **3.4 Associated certification functions**

While covered in the assessment reported in ExMC/993/DV, it was confirmed that the procedures also cover the new Standards listed under the scope extension request.

### 3.5 National marks and certificates

Not relevant as this is a scope extension assessment. This was covered in the reassessment ExMC/993/DV.

### 3.6 Standards accepted in scope extension

See clause 1.5 of this report

### 3.7 National differences to IEC standards

National differences to IEC standards are those for the European differences listed in the latest version of the IECEX Scheme Bulletin.

### 3.8 Organisation

#### 3.8.1 Names, titles and experience of the senior executives

Name	Title	Experience
Alexander S. Zalogin	General Director NANIO CCVE, Head of ExCB CCVE, expert	32/33
Nikolay N. Prelovsky	Deputy Head of ExCB CCVE, Quality management representative, expert	19/36
Aleksey A. Kogan	Deputy Head of ExCB CCVE	4/4
Yulia V. Tikhonenko	Manager of QSM manufacturer assessment and surveillance audit group, expert	14/24
Valentina N. Serova	Manager of documentation management group	19/44
Victor V. Ershov	Head of Ex-equipment certification group, expert	11/42

#### 3.8.2 Name, title and experience of the quality management representative

Name	Title	Experience
Alexander S. Zalogin	General Director NANIO CCVE, Head of ExCB CCVE	32/33
Nikolay N. Prelovsky	Deputy Head of ExCB CCVE, Quality management representative	19/36
Yulia V. Tikhonenko	Quality manager, Manager of QSM manufacturer assessment and surveillance audit group	14/24

#### 3.8.3 Name and title of signatories for certification

Name	Title
Alexander S. Zalogin	Head of ExCB CCVE
Nikolay N. Prelovsky	Deputy Head of ExCB CCVE
Aleksey A. Kogan	Deputy Head of ExCB CCVE

#### 3.8.4 Other employees in ExCB activity

Name
Boris Rafalovich
Victor Ershov
Yuriy Kovorov
Sergey Serov

<b>Name</b>
Olga Malkovich
Boris Chernov
Victor Vinogradov
Andrey Kiselev
Victor Saveliev
Alexander Dunaev
Valentin Mozerov

### **3.9 Organizational structure**

Included in the Site Assessment Report

### **3.10 Administration**

#### **3.10.1 Administrative structure**

Included in the Site Assessment Report

#### **3.10.2 Indemnity insurance**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Re-assessment Report ExMC/993/DV.

### **3.11 Resources**

Adequate staffing resources were available

### **3.12 Committees (such as governing or advisory boards)**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Report ExMC/993/DV

### **3.13 Certification operations**

#### **3.13.1 National approval/certification methods**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Re-assessment Report ExMC/993/DV.

#### **3.13.2 Certification policy**

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Re-assessment Report ExMC/993/DV.

#### **3.13.3 Application for certification**

While covered in the assessment reported in ExMC/993/DV, it was confirmed that the procedures also cover the new Standards listed under the scope extension request.

#### **3.13.4 Certification decision**

While covered in the assessment reported in ExMC/993/DV, it was confirmed that the procedures also cover the new Standards listed under the scope extension request.



### 3.13.5 Suspension and cancellation of certificates

Not part of this assessment as this is a scope extension assessment. This was covered in the last reassessment refer to Re-assessment Report ExMC/993/DV.

### 3.14 Certificates issued

Number of certificates issued under for the preceding four years for each type of protection. For new applications these should be for national or regional schemes and for currently accepted bodies IECEx certificates should be shown (certificates for other schemes may also be shown): <Table to be initially completed by body being assessed>

NANIO CCVE are able to demonstrate experience with non-electrical standards and special requirements, noting the number of certificates and reports issued for regional requirements:

Standard numbers	Type of protection or other identifying information	
		Total
EN 13463-xx	Non-electrical equipment	>400
Special Ex s	Special requirements	>300
	Regional certificates according to GOST-R and GOST.	

### 3.15 National accreditation

NANIO CCVE have National Accreditation for the EN 13463 series of standards and the ISO 80079-36 and 37 standards. The ISO/IEC 17065 certificate is included as Annex A. (RA.RU.11AA87) issued 08 February 2017

### 3.16 Assessment of manufacturers and issue of QARs

NANIO CCVE already carry out QAR assessments to support IECEx Certification and national standards, including the standards for non-electrical equipment.

### 3.17 Comments (including issues found during assessment)

The staff interviewed had a good understanding of the non-electrical standards in the EN13463-xx series. These were used as a basis for development of ISO 80079-36 and ISO 80079-37. They also had a good understanding for Ex s (see 2.11)

A review of previous files relating to the national versions of the EN 13463 series revealed that NANIO CCVE staff are well versed and have a full understanding of the assessment approaches for non-electrical equipment for Ignition Hazard Assessments

Discussions with staff members listed as being independent verifiers for Ex s revealed that they had extensive knowledge of special protection, having used a national standard since its inception in 1977.

## **4 ExTL for IECEx Certified Equipment Scheme**

### **4.1 Assessment references**

- a) IECEx02 IECEx Certified Equipment Scheme covering equipment for use in explosive atmospheres – Rules of Procedure
- b) IECEx OD003-2 Assessment, surveillance assessment and re-assessment of ExCBs and ExTLs operating in the IECEx 02, IECEx Certified Equipment Scheme
- c) IECEx OD009 Issuing of CoCs, ExTRs and QARs
- d) ISO/IEC 17025:2005 Edition 2, General requirements for the competence of testing and calibration laboratories
- e) IECEx Document OD17 Drawing and documentation guidance
- f) IECEx Technical Capability Document (TCD)
- g) ExTAG decision sheets (DSs)
- h) OD 280 IECEx Certified Equipment Scheme – Guide to Certification of Non-electrical Equipment and Protective Systems
- i) OD 233 IECEx Certified Equipment Scheme - Assessment of Ex “s” Equipment

NOTE The latest editions of the above documents were applied.

### **4.2 Candidate ExTL persons interviewed**

<b>Name</b>	<b>Position</b>
Alexander Zalogin	General Director
Boris Chernov	Head of ExTL
Victor Saveliev	Expert
Alexander Dunaev	Expert

### **4.3 Associated ExCB(s)**

The ExCB is integral with the ExTL

### **4.4 Organisation**

#### **4.4.1 Names, titles and experience of the senior executives**

Boris V.Chernov	Head of TL NANIO CCVE and Technical director	19/44
Victor V.Ershov	Deputy head of TL NANIO CCVE (technical issues)	11/42
Viktor V Saveliev	Deputy head of TL NANIO CCVE (technical issues)	14/39

#### **4.4.2 Name, title and experience of the quality management representative**

<b>Name</b>	<b>Title</b>	<b>Experience</b>
Nikolay N.Prelovsky	Head of testing department, QMS representative	19/36
Yulia V.Tikhonenko	Quality manager	14/24

#### 4.4.3 Other employees in ExTL activity

Name
Boris Rafalovich
Yuriy Kovorov
Sergey Serov
Olga Malkovich
Victor Vinogradov
Andrey Kiselev
Alexander Dunaev
Valentin Mozerov
Igor Timofeev
Aleksey Kogan
Vladimir Popov

#### 4.5 Organizational structure

Included in the Site Assessment Report

#### 4.6 Resources

Adequate staff resources are available

#### 4.7 Test reports issued

Number of test reports (ExTRs) issued under for the preceding four years for each type of protection.

NANIO CCVE are able to demonstrate experience with non-electrical standards and special requirements, noting the number of certificates and reports issued under national requirements:

Standard numbers	Type of protection or other identifying information	Total
EN 13463-xx	Non-electrical equipment	>500
Special Ex s	Special protection	>300
	Regional reports according to GOST-R and GOST.	

#### 4.8 National accreditation

NANIO CCVE have National Accreditation for the EN 13463 series of standards and the ISO 80079-36 and 37 standards.

The ISO/IEC 17025 certificate is included as Annex B (RA.RU.11AK06) issued 10 February 2016

#### 4.9 Calibration

While covered in the assessment reported in ExMC/993/DV, it was confirmed that the procedures also cover the new Standards listed under the scope extension request.



#### **4.10 Comments (including issues found during assessment)**

The staff interviewed had a good understanding of the non-electrical standards in the EN13463-xx series. These were used as a basis for development of ISO 80079-36 and ISO 80079-37. They also had a good understanding for Ex s (see 2.11)

It is further acknowledged that NANIO CCVE are an active ExTL with an extensive scope of acceptance, refer to IECEx OD 001, therefore are in possession of the necessary test equipment and resources to undertake tests according to ISO 80079-36 and 80079-37.

#### **4.11 Tests witnessed**

The transferred charge test of ISO 80079-36, Annex D was witnessed and found to be carried out in an acceptable manner.

#### **4.12 Proficiency testing**

The results of the PTB Ex PT Scheme for surface resistance were viewed. The results were all within the standard deviation of the assigned values, Phases I and II.

#### **Annexes**

**A) ISO/IEC 17065 certificate is included as Annex A**

**B) ISO/IEC 17025 certificate is included as Annex B**



Annex A  
ISO/IEC 17065 Certificate

 **ФЕДЕРАЛЬНАЯ СЛУЖБА ПО АККРЕДИТАЦИИ** № 0009023

**АТТЕСТАТ АККРЕДИТАЦИИ**  
№ RA.RU.11AA87 выдан 08 февраля 2017 г.  
номер аттестата аккредитации и дата выдачи

Настоящий аттестат выдан Обществу с ограниченной ответственностью «Центр по сертификации взрывозащищенного и рудничного оборудования», ИНН:5027081870  
наименование и ИНН (СНИЛС) заявителя  
140004, РОССИЯ, Московская область, пос. ВУГИ, г. Люберцы, ОАО "Завод "ЭКОМАШ"  
место нахождения (место жительства) заявителя

и удостоверяет, что Орган по сертификации взрывозащищенного и рудничного оборудования Общества с ограниченной ответственностью «Центр по сертификации взрывозащищенного и рудничного оборудования»  
наименование  
140004, РОССИЯ, Московская область, пос. ВУГИ, г. Люберцы, ОАО "Завод "ЭКОМАШ"  
адрес места (мест) осуществления деятельности

соответствует требованиям ГОСТ Р ИСО/МЭК 17065-2012  
аккредитован(о) в качестве Органа по сертификации  
в соответствии с областью аккредитации, область аккредитации определена в приложении к настоящему аттестату и является неотъемлемой частью аттестата.  
Дата внесения сведений в реестр аккредитованных лиц 20 июля 2015 г.

  
Руководитель (заместитель Руководителя)  
Федеральной службы по аккредитации

А.Г. Литвак  
инициалы, фамилия

Банк издательских СМД «СПЕЦИОС», www.speccos.ru, лицензия № 05-02-09/003-0100-РР, уровень Б, тел. (495) 720-4742, Москва, 2014 г.



Annex B  
ISO/IEC 17025 Certificate

 **ФЕДЕРАЛЬНАЯ СЛУЖБА ПО АККРЕДИТАЦИИ** № 0004967

**АТТЕСТАТ АККРЕДИТАЦИИ**

№ RA.RU.21AK06 выдан 10 февраля 2016 г.  
номер аттестата аккредитации и дата выдачи

Настоящий аттестат выдан Обществу с ограниченной ответственностью «Центр по сертификации  
наименование и ИНН (СНИЛС) заявителя  
взрывозащищенного и рудничного оборудования», ИНН:5027081870  
140004, РОССИЯ, Московская область, г. Люберцы, поселок ВУГИ, ОАО "Завод "ЭКОМАШ"  
место нахождения (место жительства) заявителя

и удостоверяет, что Испытательная лаборатория взрывозащищенного и рудничного  
наименование  
оборудования Общества с ограниченной ответственностью «Центр по сертификации взрывозащищенного и рудничного оборудования»  
адрес места (мест) осуществления деятельности  
140004, РОССИЯ, Московская область, г. Люберцы, пос. ВУГИ, ОАО "Завод "ЭКОМАШ", корпус КВС, эт. 3

соответствует требованиям ГОСТ ИСО/МЭК 17025-2009  
аккредитован(о) в качестве Испытательной лаборатории (центра)  
в соответствии с областью аккредитации, область аккредитации определена в приложении к настоящему аттестату и является неотъемлемой частью аттестата.

Дата внесения сведений в реестр аккредитованных лиц 19 января 2016 г.

 Руководитель (заместитель Руководителя)  
Федеральной службы по аккредитации

 М.А. Якутова  
подпись  
инициалы, фамилия

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