
 DNV	IECEX QUALITY ASSESSMENT REPORT	 IEC IECEX
IECEX QAR Reference No.: NO/PRE/QAR12.0001 Audit Report No.: NEM-QAR-466983		



ExCB Project No.:	Nemko NEX 466983
Manufacturer Include Address with post code	Norske Backer AS Jostein Svendheimsvei 8-10 N- 2212 Kongsvinger NORWAY
Production Site(s) audited Include Address with post code	(Same as above)
Product Description	Immersion heaters and duct heaters; Heating elements
Employee count	Total onsite: 50 Total involved in Ex products: Approx. 10
Scope of Audit	Initial Assessment <input type="checkbox"/> Re-Assessment <input checked="" type="checkbox"/> Surveillance Assessment <input type="checkbox"/> Special Assessment <input type="checkbox"/>
Scheme	IECEX <input checked="" type="checkbox"/> Other (specify) <input type="checkbox"/>
Electrical equipment with type(s) of protection of	d <input checked="" type="checkbox"/> e <input checked="" type="checkbox"/> h <input type="checkbox"/> i <input type="checkbox"/> m <input type="checkbox"/> n <input type="checkbox"/> p <input type="checkbox"/> t <input type="checkbox"/> op <input type="checkbox"/> Other (specify) <input type="checkbox"/>
Audit Team Leader	Asgeir Holt
Audit Date	2022-09-20..21

Contents:

1. Summary Report
2. Audit information
3. Documentation Review and Assessment of Implementation
4. Certificate List
5. Audit Non-Conformities and Observations

NOTE: whilst some parts of this form / template are optional there is an expectation that all ExCBs will

- use the form as published
- only add content, and
- not ignore the non-optional aspects

 DNV	 Nemko
DNV Product Assurance AS Veritasveien 3 NO-1363 Høvik, Norway www.dnv.com ENTERPRISE NUMBER NO997067401	Nemko Group AS Philip Pedersens vei 11 NO-1366 Lysaker, Norway www.nemko.com ENTERPRISE NUMBER NO974404532

1. Summary Report

Assessment Summary and Conclusions:

*(State the most important **results** and **conclusions** of the quality assessment)*

The audit was conducted according to the agreed audit programme. The audit team was met with a positive and professional atmosphere. In general, the QA system seems to be well implemented and is functioning satisfactorily, but some improvements should be possible. No nonconformities were found during the audit. As a result of the audit some observations / suggestions for improvement were registered. Observations found will be checked out during next surveillance audit.

All critical phases of the production and assembly, including receiving goods control and final testing / verifications are carried out in the manufacturer's facilities in Kongsvinger, except casting of aluminum housing (Ex d heating elements) that are carried out by Norse Metal AS, Elverum on a batch basis. All machining to be carried out by Norske Backer. (Note: only one batch supplied so far.)

The Ex de part consists of an Ex e enclosure (material delivered by and bending carried out by the supplier Rustfrie Berg AS) incorporating Ex component certified Ex d thermostats (Jumo / Thuba / Stego / Ephy-Mess).

Ex production by customer order.

The audit was carried out as a combined re-assessment audit for IECEx QAR and ATEX QAN. Ref. ATEX Notification Nemko 04ATEX4052Q, issued by Nemko AS, acc. to EN ISO/IEC 80079-34:2020 incl. A.2, A.3 and A.5.

Next Quality Audit due : 2024-02 (surveillance)

Non-Conformities

(Indicate the Serial No.(s) of non-conformities recorded. Individual non-conformities are recorded on the non-conformity reports)

NCR No.(s):	N/A
See Nemko Ex audit report	466983

Audit Team Leader Recommendations

- Notification / Certification to be issued/maintained**
once satisfactory technical assessment of the product is completed, and a test report is issued.
- Notification / Certification to be issued/maintained**
following receipt of satisfactory documentary evidence supporting effective corrective action, and a test report is issued. Corrective action to be verified at next surveillance visit.
- Notification / Certification to be issued/maintained**
following a satisfactory follow-up visit and verification that corrective actions have been effectively documented and implemented, and test report issued.
- Notification / Certification to be refused/suspended**
a further complete assessment to be conducted
- Notification / Certification to be refused/suspended**
close the application/withdraw the notification and inform the Scheme Administrator



Audit Team Leader Signature

ExCB Technical Reviewer

2. Audit Information

2.1 Scope of Audit:

- Type A** initial assessment/reassessment of manufacturer **with** a certified QMS*
- Type B** initial assessment/reassessment of manufacturer **without** a certified QMS.....
- Type C** surveillance of manufacturer **with** a certified QMS*.....
- Type D** surveillance of manufacturer **without** a certified QMS.....

* where manufacturer has a certified quality system, include certification/registration body, date of registration, certificate No. and scope or append a copy of the certificate (including scope)

2.2 Audit Criteria

List any other reference documents, against which Audit was conducted

: OD 025 Ed. 3.1
ISO/IEC 80079-34:2018
ISO 9001:2015

2.3 Date(s) and Duration of Audit

Include total number of auditor days on site

: 2022-09-20..21,
Totally 2 auditor days on site

2.4 Details of ISO 9001 Certification:

ISO 9001 certificate No	Certified by	Expiry date	Scope
900667	Nemko AS	2025-10-18	'Development, production and sales of electrical heating systems complete with controllers, including versions for hazardous locations, adapted to the market segments Industry, Marine, Oil and Gas.'

If ISO 9001 certified, are non-conformities from latest ISO 9001 audit reviewed?

- Yes
- No
- N/A (no NCs)

Comments to ISO 9001 non-conformities.

N/A

2.5 Composition of Audit Team:

Name	Position	Role in Audit (Sole Auditor, Team Leader, Auditor, Technical Specialist, etc)
Asgeir Holt	ATEX & IECEx Lead Auditor	Sole Auditor

2.6 Interviewed Representatives of Manufacturer (Auditee):

Name	Position
Bengt Olsson	Quality Manager
Ole Kristian Såheim	Technical Designer / Ex responsible
Sigurd Bergkvist	Design Engineer Manager

2.7 External Providers: *(Use this table to list External Providers reviewed during audit of supplier evaluation)*

Name of Provider	Critical item or service provided
Rustfrie Bergh	Ex e enclosure material (steel)
Jumo / Thuba / Stego / Ephy-Mess	Ex component certified Ex d thermostats
Norse Metal AS	Ex d casted aluminium enclosure / lid

Suppliers of enclosures / enclosure components & parts are considered safety critical, as well as suppliers of Ex component certified parts.

2.8 Manufacturers Documentation: *(List manufactures documentation related to this Quality Audit Report)*

See Nemko Ex audit report [466983](#)

2.9 IECEx QAR history:

Revision	Description	Issue date
	See IECEx.com for previous history	-
07	Re-assessment	2022-11-24

3. Documentation Review and Assessment of Implementation

See Nemko Ex audit report [466983](#)

Requirement	Documents reference and/or comments	Verdict
ISO 9001:2015.	Document references and/or comments are given in the Nemko Ex audit report, if relevant	P
ISO/IEC 80079-34 addition to ISO 9001:2015	Document references and/or comments are given in the Nemko Ex audit report, if relevant	P

4. List of certificates relating to IECEx QAR *No mandated format required*

See Nemko Ex audit report [466983](#)

5. Audit non-conformities and Observations

See Nemko Ex audit report [466983](#)