



**IECEX  
QUALITY ASSESSMENT REPORT  
Form F-001, Edition 3.1**



IECEX QAR Reference No.: **NO/NEM/QAR13.0015/05**  
Audit Report No.: **NEM-QAR-400923**

**CONFIDENTIAL**

ExCB Project No.:	400923
Manufacturer Include Address with post code	Kongsberg Maritime AS Sensors and Robotics Strandpromenaden 50 N-3183 Horten NORWAY P.O. Box 111 N-3191 Horten
Production Site(s) audited Include Address with post code	Kongsberg Maritime AS Sensors and Robotics Strandpromenaden 50 N-3183 Horten NORWAY P.O. Box 111 N-3191 Horten
Product Description	Transducers; Transponders
Employee count	Total onsite: <b>About 400</b> Total involved in Ex products: <b>About 15</b>
Scope of Audit	Initial Assessment <input type="checkbox"/> Re-Assessment <input type="checkbox"/> Surveillance Assessment <input checked="" type="checkbox"/>
Electrical equipment with type(s) of protection of	d <input checked="" type="checkbox"/> e <input type="checkbox"/> h <input type="checkbox"/> i <input type="checkbox"/> m <input checked="" type="checkbox"/> n <input type="checkbox"/> p <input type="checkbox"/> Other (specify) <input type="checkbox"/>
Audit Team Leader	Reidar Syversen
Audit Date	2020-06-18

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**DNV GL Presafe AS**

Veritasveien 3  
NO-1363 Høvik, Norway  
[WWW.PRESAFE.COM](http://WWW.PRESAFE.COM)  
ENTERPRISE NUMBER NO997067401



**Nemko AS**

Philip Pedersens vei 11  
NO-1366 Lysaker, Norway  
[WWW.NEMKO.COM](http://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 assessment has been performed by the means of telephone, e-mail, skype/teams and/or other possible methods to review the required procedures, documents, records, photos, manufacturing and production processes and other areas assessed.

The assessment is based on the agenda issued to and agreed with the manufacturer prior to the audit, as well as agreement on the special arrangements necessary for the time being.

The assessment is performed during a difficult period caused by the Novel Coronavirus COVID-19 outbreak, where onsite assessments have not been possible to perform due to restrictions given by the authorities, as well as company policies given by Nemko and/or the client.

Nemko reserves the right to carry out a limited onsite assessment later, if this is found necessary for any reason.

The QA system is common with Kongsberg Maritime AS in Trondheim.

There are totally about 400 employees in Kongsberg Maritime AS, Sensors and Robotics in Horten. About 15 persons are involved in the Ex production and related activities. The Ex production is being carried out by Kongsberg Maritime AS, Sensors and Robotics in Horten.

(Cl. 7.5.3 / 8.6) Reviewed certificate(s): Nemko IECEx NEM 13.0044X.

Applicable routine test: N/A. Several checks and tests as; visually; acoustic; pressure; insulation resistance; are conducted and documented according to instruction and checklist.

Suppliers of enclosure/enclosure parts are considered safety critical (steel housing), as well as supplier of moulding materials.

According to information received there are one suppliers of enclosure parts;

Fredrik Svensson AS, Nordre Kullerød 15, 3241 Sandefjord, Norway. Evaluation done 2020-05-27 by KM. 2019-05-21 on-site audit done by KM. Audit reports seen. On-site audits will be done again after the corona situation.

Batteries are delivered by Saft Poitiers, France. Audit done, on-site, 2019-10-15 by KM. Audit report seen.

It must be expected that Nemko could do audits of critical enclosure part suppliers, if found needed, during the next re-assessment audit. Such audit will cover the relevant requirements in **NEK ISO/IEC 80079-34:2018 with specially focus on part part 7.5.3 (implementation of production documents), 5.3 (Coordinator against customer, Ex), 7.1.5, 7.2, 8.4, 8.5.1, 8.5.2, 8.7, 9.2 and A.2 and A.3.** Nemko did an onsite audit at Fredrik Svensson AS, 2018-05-02 ref. order no. 353414. 3 observations were noted during the audit. The observations have no formal evidence to be closed. See NCR 1 in the Ex audit report. KM must conduct critical supply reviews/audits within the period stated in part 8.4.1 f).

Ex production is done by customers order as well for stock.

**Next Quality Audit due** : 2022-03 (re-assessment)

**Non-Conformities**

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

**NCR No.(s):** 1  
See Nemko Ex audit report 400923

**Audit Team Leader Recommendations**

- Certification to be issued/maintained\***  
once satisfactory technical assessment of the product is completed, and a test report is issued.
- 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.
- 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.
- Certification to be refused/suspended\***  
a further complete assessment to be conducted
- Certification to be refused/suspended\***  
close the application/withdraw the notification and inform the Scheme Administrator



Reidar Syversen

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**Audit Team Leader Signature**  
Date 2020-08-26

Ståle Sandstad

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**ExCB Technical Reviewer**  
Date 2020-09-02

## 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 in addition to IECEx OD 005

: 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

: 2020-06-18,  
Totally 1 auditor day on site

### 2.4 Details of ISO 9001 Certification:

ISO 9001 certificate No	Certified by	Expiry date	Scope
900662	Nemko	2023-06-01	Contracting Engineering, Sales, Product Development, Manufacturing, Sourcing, Delivery and Servicing of KM systems and products and services related to Dynamic Positioning and Navigation, Marine Automation, Underwater Vehicles, Hydroacoustics, Electro, Instrument & Telecom engineering and system integration Process Automation and Marine Simulation Systems. Products from Commercial Marine; Propulsion & Engines, Deck Machinery are part of integrated solutions delivered to customers.

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.

Only observations in the last ISO audit report. Audit done 2020-04-01 at this location.

### 2.5 Composition of Audit Team:

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

**2.6 Interviewed Representatives of Manufacturer (Auditee):**

Name	Position
Karol Jan Jankowski	QA Manager
Harald Aas-Aune	Manager Mechanical Design, UA / Ex Responsible
Roger Lundegaard	Supply Chain QA-Manager
Thomas Egeland	Purchaser / Ex Deputy
Erik Bjerke	Product Manager ACS

**2.7 Critical Suppliers:** *(List critical suppliers reviewed during audit of supplier evaluation)*

Name of Supplier	Critical item or service provided
Fredrik Svensson AS	Supplier Ex d enclosure parts
Saft Poitiers	Batteries

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

See Nemko Ex audit report [400923](#)

**2.9 Manufacturers IECEx Certificates of Conformity:**

See Nemko Ex audit report [400923](#), as well as [www.iecex.com](http://www.iecex.com)

**3. Documentation Review and Assessment of Implementation**

See Nemko Ex audit report [400923](#)

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

**4. Observations**

See Nemko Ex audit report [400923](#)