STANDARD FOR CERTIFICATION
No. 2.19

CERTIFICATION OF PORTABLE FIRE EXTINGUISHERS FOR THE NORWEGIAN MARKET

APRIL 2008

DET NORSKE VERITAS
FOREWORD

DET NORSKE VERITAS (DNV) is an autonomous and independent foundation with the objectives of safeguarding life, property and the environment, at sea and onshore. DNV undertakes classification, certification, and other verification and consultancy services relating to quality of ships, offshore units and installations, and onshore industries worldwide, and carries out research in relation to these functions.

Standards for Certification

Standards for Certification (previously Certification Notes) are publications that contain principles, acceptance criteria and practical information related to the Society's consideration of objects, personnel, organisations, services and operations. Standards for Certification also apply as the basis for the issue of certificates and/or declarations that may not necessarily be related to classification.

A list of Standards for Certification is found in the latest edition of Pt.0 Ch.1 of the "Rules for Classification of Ships" and the "Rules for Classification of High Speed, Light Craft and Naval Surface Craft".

The list of Standards for Certification is also included in the current “Classification Services – Publications” issued by the Society, which is available on request. All publications may be ordered from the Society’s Web site http://exchange.dnv.com.

Comments may be sent by e-mail to rules@dnv.com

Comprehensive information about DNV and the Society's services is found at the Web site http://www.dnv.com

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Computer Typesetting (FM+SGML) by Det Norske Veritas
The main changes are:
This booklet is an updated version of Standard for Certification No. 2.19 from April 2004.

— Under item 3.4, External inspection, inspections to be carried out have been reduced from twice to once a year and the number of fire extinguishers to be tested for duration of operation has been increased from one to three.
— Under item 6, Mark of Conformity, an alternative to use the DNV logo has been permitted.
— In addition there have been minor corrections connected to references and some additional necessary information.
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1. Certification of Portable Fire Extinguishers

1.1 General
This Standard for Certification defines Det Norske Veritas requirements related to certification of portable fire extinguishers for the Norwegian market.

The certification system is independent of private interests and based on type testing and assessment of factory quality control, manufacturer's continuous internal quality control and DNV's external inspection.

1.2 Definitions
Licensee: A licensee is the owner of the licence, who may be a dealer/importer or a manufacturer. The licensee shall be a Norwegian registered company.
Manufacturer: A manufacturer is the company which fills, pressurize, make the final control and mark the portable fire extinguishers.

Certification licence: Document issued to verify that design and fabrication of the product conform to the requirements given in this Standard for Certification.

1.3 Application
Application for a certification licence or extension of existing certification licence shall be made on an application Form Nr. 20.98a (Appendix A), which is available from DNV as Certification Body. An application from a dealer/importer shall be signed by the applicant as well as the manufacturer* of the product, and the dealer/importer is obliged to keep the manufacturer informed about the obligations and requirements that rest upon the manufacturer when manufacturing certified products.

The application shall be accompanied by a type test report confirming that the requirements in the standard are fulfilled. The report shall be prepared by a DNV recognized test laboratory. See item 5.1.

The application shall be accompanied by documents as given in item 2. The documents shall be numbered and have the date of the last revision. When assessment of documentation shows that the product conforms to set requirements, an inspection in this Standard for Certification.

1.4 Certification licence
When the type testing and type inspection shows that the product conforms to the requirements laid down in this Standard for Certification, the manufacturer or dealer/importer applying for the certification licence, will be notified when the certification licence has been carried out on the production site (for a complete type inspection see item 3.2).

Certification licence covers only portable fire extinguishers manufactured by one manufacturer at one location only.

The right to use the conformity mark applies to the products covered by the certification licence. The licensee is obliged to observe the requirements given in this Standard for Certification.

A certification licence covers only portable fire extinguishers manufactured by one manufacturer at one location only.

The licensee is responsible for ensuring that products covered by the certificate licence and marked with the conformity mark in all respect fulfil the requirements in the standard(s) to which the licence refers and furthermore that the products are fit for the purpose.

Consequently, in the event of withdrawal of the licence due to incorrect marking of products which do not fulfil the requirements of the standard, the licensee is obliged to pay all expenses in connection with replacement of the defective products by products conforming to the standard, if required.

The certification licence is valid for one calendar year, subject to three months notice by both the licensee and DNV. Where no notice has been given, the licence is automatically extended for one year at a time. A new certification licence is issued each five year or when the certification licence is extended. A certification licence is not transferable.

1.5 Certification body
Det Norske Veritas AS
Maritime, Technology and Production Centre
MTPNO374, Fire Safety Veritasveien 1
1322 HOVIK
Norway.

1.6 Scale of fees
Application- and annual fee shall be paid on request from DNV. The Certification licence will be issued after payment.

For each certification licence the licensee shall pay a current annual fee. The fees are based on the valid DNV's Scale of Fees and DNV reserves the right to change the fees.

Paid fees will normally not be refunded. For unpaid invoices see item 1.8.

1.7 Inspection fees
Costs in connection with type testing, internal inspection, external inspection and other types of test and inspection specified in items 2 and 3, shall be paid by the applicant or the licensee, as appropriate.

1.8 Suspension or withdrawal of a certification licence
DNV may withdraw the certification licence with immediate effect if the licensee has used the conformity mark on, or in connection with products not complying with the requirements, or on products which are not covered by the licence. In addition the licence may be withdrawn if the licensee in any other way has contravened the provisions of the certification licence or if the requirements made in connection with the agreement with DNV are not adhered to.

When the divergence from the standard is of minor importance, DNV may temporarily suspend the licence, until the conditions for reinstitution of the licence have been fulfilled within the specified time limit.

DNV has the right to withdraw a licence if the annual fee and the inspection costs are not duly paid.

Where a licensee goes bankrupt, goes into liquidation or goes out of business, DNV may also withdraw the licence. A licensee who has been informed that the licence is suspended or withdrawn is obliged to cease using the conformity mark or referring to the conformity mark in advertising or other promotional material for the product in question. If required by DNV, the licensee shall remove the mark of conformity from all products in stock or from products in stock at the dealer's premises.

Misuse of the mark of conformity may imply liability according to Norwegian legislation. In case of dispute the licensee is obliged to have such disputes settled by the court of Asker and Bærum, DNV being party in the proceedings.

DNV has the right to publish a decision to the effect that the certification licence has been suspended and withdrawn.

1.9 Publications
DNV is keeping a register of licensees and products for which
certification licences have been granted. This register is publicly accessible on DNV Internet.

1.10 Revision of rules and standards
DNV has the right to change the Standard for Certification laid down for certification of portable fire extinguisher. In order to prolong a licence granted according to previous rules, the licensee shall agree to comply with the revised rules.

If a standard forming the basis for a certification licence is revised, the licence is prolonged only if the licensee undertakes to fulfil the requirements of the revised standard. The licensee, shall, however, be given reasonable time to adjust to the requirements of the revised standard, unless other arrangements are necessary. The licensee will be informed about any changes in the Standard for Certification No. 2.19.

If a standard forming the basis of a certification licence is substituted by a new standard, the licensee has to apply for a new certification licence. DNV will give the directions of how to apply.

1.11 Obligation to report deviating products
When a licensee has delivered a portable fire extinguisher product to a customer that does not conform with the certified product, the licensee is responsible to report this immediately to DNV and the customer as soon as the deviation has been discovered. DNV will decide, in consultation with the inspection body and the manufacturer, if the product must be recalled by the manufacturer.

1.12 Appeal
Any disagreement that may arise as a consequence of the requirements given in this Standard for Certification shall be settled by the responsible DNV unit.

1.13 Use of the mark of conformity, DNV
The licensee has the right to provide the portable fire extinguishers covered by the licence with the mark of conformity specified in the item 6 in this Standard for Certification.

The products shall be marked in such a manner that no confusion arises between certified and non-certified products.

The mark of conformity shall be given on each product covered by the certification licence. In addition, the product shall be marked in accordance with item 4 as well as standard for the product in question. Unless otherwise specified, the mark of conformity shall be applied together with other marking of the product.

The licensee is responsible that the marking is carried out in accordance to this standard and only on certified products.

2. Application - Content
The application as given under item 1.3 should include the following:

1) Test report according to item 3.1 with drawing lists and drawings together with information regarding manufacturer and designation of devices included in the extinguishers.

2) The record of type testing or the latest report of inspection performed should not exceed a time limit of two years. The type testing should be carried out by a recognized test laboratory. See item 5.1.

3) Information regarding type of fire, class and type of extinguishing medium for each portable fire extinguisher, identification sheet concerning physical and chemical characteristics for the extinguishing medium in question.

4) Description of the manufacturer’s internal inspection system and instructions for quality system assessment regarding the product in question according to item 3.3.

5) Documentation that the extinguisher body is certified according to the Pressure Equipment Directive 97/23/EG (PED) minimum module B+C1.

6) Extract from company register (Brønnoysund register).

7) Proposal for marking and information on the extinguisher according to items 4 and 6.

8) Instruction manual in Norwegian, which has to be approved by DNV and should contain the manner for operation of the portable fire extinguisher, fire class, position and maintenance.

9) Confirmation that the application fee has been paid.

3. Inspection
The issue of a certification licence by DNV is based on type testing, item 3.1 and type inspection, item 3.2. In addition the following controls are required:

— running control, item 3.3
— external inspection, item 3.4
— other types of inspection, item 3.5
— inspection at change of construction, material or manufacturing conditions, performed upon request of DNV, item 3.6.

3.1 Type testing
Type testing is to be performed in accordance with NS-EN 3. Report of testing should verify that all the requirements set forth for the types of portable fire extinguishers in question are fulfilled at the same testing occasion. The number of complete portable fire extinguishers and devices required for testing are stipulated in NS-EN 3. If possible products taken from the normal production shall be subjected to type testing.

Test reports that are more than two years old are normally not accepted.

The reports shall preferable be written in English. Reports in Norwegian will be accepted.

In addition to the requirements given in NS-EN 3 the following information have to be documented by the testing laboratory:

— The test laboratory should confirm that the extinguisher body is proper documented (see item 2 (5)).
— Where the standard stipulates testing at -20°C, the testing shall be performed at -30°C.
— Pressure indicator device (pressure gauge) to be fitted on all pressurized portable fire extinguishers except for CO₂ portable fire extinguishers.
— Documentation showing the information about surface treatment and surface thickness.
— Example of label with adhesive and contrasting colour.

The portable fire extinguishers subject for testing, are to be inspected by the test laboratory prior to the testing in order to verify total weight, colour, safety device, hose and pressure gauge if applicable.

3.2 Type inspection
Type inspection is included as a part of the type testing procedure at the manufacturer’s concerning supervision and assessment of the regular internal control system of quality assurance of the product in question.

Type inspection is performed by the person in charge at the certification body or by an inspector approved by the certification body according to agreement with the applicant.

The type inspection is to be carried out based on the relevant parts of ISO 9000 series and NS-EN 3.
3.3 Running control
A manufacturer, as the holder of the licence himself or through a dealer/importer, shall carry out inspection or initiate DNV to perform the inspection to ensure that the products provided with the mark of conformity comply with the requirements specified in this Standard for Certification.

The inspection consist of internal inspection, verification, production control, testing and marking as described below:

3.3.1 Internal inspection
The internal inspection, including documentation from those inspections, must be in accordance with the requirements agreed at the time for type inspection.

Unless otherwise stated records of all inspection, regardless of the results, shall be filed and available when the external control is carried out.

Where the inspection shows that the requirements given in this Standard for Certification are violated, the licensee is obliged to stop marking the products in question immediately and to withhold products of the same batch until the cause and extent of failure have been found. The mark of conformity shall either be removed from the part of the batch, which does not comply with the requirements or the products, shall be destroyed.

The licensee shall update all complaints and corrective actions.

3.3.2 Verification
The received components and materials for the portable fire extinguisher are to be checked against the supplied documentation and specifications. The documentations are to be filed and available for external inspection. The received components and materials are to be spot checked and may at least contain the following:

- components and semi-finished products are to be checked against drawings for functionality
- thickness of the surface material on the extinguisher body
- verification of the internal coating of the extinguisher body (portable fire extinguisher for liquid)
- spot check of the density of propellant gas cartridges
- testing of the pressure relief devices
- pressure test of hoses and couplings
- markings.

3.3.3 Production control
Production control should be in accordance with relevant parts of NS-EN 3.

3.3.4 Testing
For each 1000 produced portable fire extinguisher of each type one should be tested with regard to duration of operation. This can be carried out based on EFFUNC equipment or other recognized methods.

On those fire extinguishers the release of the safety device should be checked based on the requirement given in relevant parts of NS-EN 3.

For fire extinguishers produced in a small amount we may accept 100% control based on drawings of the components as an alternative to the duration of operation.

Each test is to be logged and filed.

3.3.5 Marking
Marking is to be checked based on the information given in items 4 and 6.

3.4 External inspection
DNV is entitled to inspect the stock of the manufacturer (or dealer if relevant), the manufacturing process, the testing equipment, any records, and to take samples of DNV marked products. A person from DNV or an inspection body appointed by DNV will carry out the inspection.

The inspection is to be carried out once a year and may be combined with other relevant inspection carried out by DNV.

Inspection in connection with renewal of the licencee (after 5 years) will be carried out by the local responsible DNV surveyor and/or by branch expert appointed by MTPN0374.

Where the manufacturer's quality control is found inadequate or the selected samples are found defective, DNV may require further inspection.

The external inspection is carried out to survey the manufacturer's quality management system. Consequently compliance or non-compliance of the products with the standard to which the licence applies is not the responsibility of DNV. Compliance is solely the responsibility of the licensee.

In addition the following has to be arranged:
- Control of 1 kg powder *.
- Control of 5 l liquid with additives *.
- 3 manometers of each type to be checked.
- 6 safety devices to be checked against the opening pressure.
- One liquid fire extinguisher to be checked with regard to internal corrosion.
- At least three fire extinguishers of each type to be tested for duration of operation. This can be arranged by EFFUNC equipment or other recognized methods. During the validity period of the licence (5 years) all types of extinguishers, for which the licence is issued for, are subject to testing during the external inspection.

* Control of fire extinguishing medium can be based on the manufacturer's regular control carried out by a recognized test laboratory.

The licensee has the ultimate responsibility that the characteristics of the product are in accordance with the approved type and/or by branch expert appointed by MTPN0374.

3.5 Other types of inspection
DNV is entitled to carry out other types of inspection at any time and anywhere, e.g. by purchasing samples on the open market. If the result of the inspection is favourable, DNV will pay the expenses, if not, the licensee shall pay the inspection costs.

3.6 Change of construction, materials etc.
Every design modifications or changing of material of the certified product must be reported to DNV before the change is introduced for production. DNV will decide the range of actions necessary in order that the changes will not influence on the product qualities in a negative direction. When DNV has issued a letter of compliance, conformity marking of the changed product can take place.

4. Marking
The extinguisher body and the propellant gas cartridge are to be marked according to relevant parts of NS EN-3. General marking of portable fire extinguishers are to be carried out according to relevant parts of NS EN-3.

DNV mark of conformity is to be marked on the front side label field 5.

The marking shall be made distinct and in a long lasting material without damaging the product and it shall be applied to the product in the way prescribed in the standard.

The label can only be fitted on the fire extinguisher by the manufacturer.
5. Inspection Bodies

5.1 Testing laboratories
When a testing laboratory performs inspection and testing they have to pay attention to requirements given in the valid Standard for Certification No. 2.19. The laboratory must fulfil criteria according to the alternatives as follows:

1) A European Laboratory accredited by an EA (European Accreditation) member, or

2) A non-European laboratory accredited by an organization who has signed an MLA (multilateral agreement) with EA (examples are: HOKLAS/Hong Kong and NATA/Australia), or

3) A laboratory having the quality system audited by DNV. A quality audit by DNV will mean that a competent person will go through the Quality System of the laboratory in accordance with ISO/IEC 17025:2000. After closing the non-conformities, if any, a “Statement of Recognition” is issued. From then on, DNV will approve testing carried out by the laboratory as a part of a technical file/test report.

6. Mark of Conformity
The licensee has the right to provide the products covered by the licence with the mark of conformity specified below, and to use the mark for promotion of the product according the agreement with DNV. The products shall be marketed in such a manner that no confusion arises between certified and non-certified products.

The mark of conformity shall be given on each products covered by the certification licence. In addition, the product shall be marked in accordance with item 4. The mark shall be made distinct and in a long lasting material without damaging the product.

The mark of conformity must be reproduced according to the logo that will be sent at the time of certification. The certification licence number shall be placed under the mark.

The mark of conformity may be reproduced either in the one-colour in black and white or in the original colours which are blue (PMS 286), green (PMS 370).

(100-001)

Example:

DNV

(100-001)
### Application Form 20.98a

**APPLICATION FORM FOR CERTIFICATION LICENCE OF PORTABLE FIRE EXTINGUISHER FOR NORWEGIAN MARKET**

<table>
<thead>
<tr>
<th>Applicant’s (licensee) name and address</th>
<th>Please send the application form to</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vat No.</td>
<td>DET NORSKE VERITAS</td>
</tr>
<tr>
<td></td>
<td>MTPN0374, Fire safety</td>
</tr>
<tr>
<td></td>
<td>Veritasveien 1</td>
</tr>
<tr>
<td></td>
<td>1322 Hevik, NORWAY</td>
</tr>
</tbody>
</table>

The licensee applies as
- [ ] manufacturer
- [ ] dealer/importer

If the Applicant is not the manufacturer, the manufacturer has also to undersign the application, see below.

### Information regarding the applicant

<table>
<thead>
<tr>
<th>Contact person</th>
<th>Telephone</th>
<th>Telefax</th>
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<table>
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<tr>
<th>Manufacturer</th>
<th>Site of plant</th>
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### Information about the product

<table>
<thead>
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<th>Product group</th>
<th>Valid standard</th>
<th>Special rules</th>
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<th>Designation</th>
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<th>Obligation</th>
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We have acquainted ourselves with the certification rules Standard for Certification No. 2.19 concerning above mentioned product. If our application for a certification licence is approved we agree to comply with these rules as well as with other regulations referring to certification and marking set forth by the certification body. Thus we are bound

- to comply with above mentioned general and special rules
- to use the mark of conformity on those products only that fulfill all the requirements set forth by valid standard
- not to make use of the mark of conformity on other products than those ones stated in our certification licence
- to give reliable information about the consensus of certification by advertisements or any public relations material in connection with the marketing of certified products
- to pay the expenses in connection with our application for certification licence as well as the costs due to inspection and testing of certified products as stipulated by the valid Standard and the special rules
- to remove the mark of conformity from all products that do not fulfill the requirements
- to indemnify the Certification Body for any claims for damages or any other expenses for which the certification body might become liable due to damages caused by a product manufactured and/or sold by the licensee including deficiencies or defects in the product itself

The licensee is under obligation to let himself be prosecuted by the same court of law, which deals with such an action, brought against the Certification Body.

<table>
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<tr>
<th>To be filled in if the Applicant is not the manufacturer</th>
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### Undertaking by the manufacturer

We have acquainted ourselves with the requirements of the valid Standards to which this application is referring. As the manufacturer of the goods, for which the applicant requests a licence to use the mark of conformity (DNV), we undertake that our products will be manufactured in conformity with these standards. We also undertake not to change the construction of the certified product before we have an acceptant from the Certification Body.

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<table>
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<tr>
<th>Manufacturer’s signature</th>
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</table>

<table>
<thead>
<tr>
<th>Place and date</th>
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</thead>
</table>

**Application fee will be invoiced**

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DET NORSKE VERITAS, VERITASVEIEN 1, NO-1322 HØVIK, NORWAY, TEL INT: +47 67 57 99 00, TELEFAX: +47 67 57 99 11

Form No.: 20.98a Issue: June 2004