



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: issue No.:

Certificate history:

Status:

Date of Issue: **2015-01-16** Page 1 of 3

Applicant: **Hyde Marine, Inc.**
2000 McClaren Woods Drive
Coraopolis, PA 15108
United States of America

Electrical Apparatus: **Hyde Guardian Ballast Water Treatment System**
Optional accessory:

Type of Protection: **Pressurization, Flameproof, Increased Safety, and Intrinsic Safety**

Marking: **Ex d e ia ib px IIB T4 Gb (0°C < Ta < 45°C)**

*Approved for issue on behalf of the IECEx
Certification Body:* Asle Kaastad

Position: Certification Manager

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DNV
Det Norske Veritas AS
Veritasveien 1
1322 Hovik
Norway





IECEx Certificate of Conformity

Certificate No.: IECEx DNV 13.0010X

Date of Issue: **2015-01-16**

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Manufacturer: **Hyde Marine, Inc.**
2000 McClaren Woods Drive
Coraopolis, PA 15108
United States of America

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-2 : 2007-02 Explosive Atmospheres - Part 2 Equipment protection by pressurized enclosure "p"
Edition: 5

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:
[NO/DNV/ExTR13.0011/00](#)

Quality Assessment Report:
[NO/DNV/QAR13.0007/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Model/type reference: Hyde Guardian HG ****, where **** is the flow rated in m^3 / hr

The Hyde Marine Ballast Water Treatment System (BWTS) consists of several components installed together to create a complete certified system. These components include the Power Supply Panel, Pump Control Panel, Control Panel, UV Vessel Module, Pump, and Filter Module.

The Power Supply Panel, Control Panel, and Pump Control Panel are all installed a non-hazardous location and provide power and control signals to the rest of the equipment in the system. The Pump Control Panel provides power to an IECEx certified pump in the hazardous location, while the Power Supply Panel provides power to the Control Panel and the UV lamps inside the UV Vessel. The Control Panel provides power and control signals to the remaining components in the hazardous location via IECEx certified barriers. The Pump, UV Vessel Module, and Filter Module are all in the hazardous location. All of these devices are IECEx certified and have been evaluated for use in the completed assembly.

See Annex of this certificate for additional information.

CONDITIONS OF CERTIFICATION: YES as shown below:

- 1) The electrical earth bonding of all equipment shall be ensured during installation of the system.
- 2) All equipment has been evaluated as acceptable when assembled into a completed system. However, care must still be taken to ensure that all Special Conditions of Safe Use and installation requirements of the individual devices are considered during installation of the system.

Annex: Annex to IECEx DNV 13.0010X issue 0.pdf