



Certificate No:  
**TAA00003BZ**

# TYPE APPROVAL CERTIFICATE

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## This is to certify:

**That the Navigation Light Controllers**

with type designation(s)  
**TEF 4800 Commander Navigation Lights Control System**

Issued to  
**R. STAHL TRANBERG AS**  
**Stavanger, Norway**

is found to comply with  
**DNV rules for classification – Ships**  
**IMO Res.MSC.253(83) Performance standards for navigation lights, navigation light controllers and associated equipment**

## Application :

**Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.**

Issued at **Høvik** on **2023-12-03**

This Certificate is valid until **2028-12-02**.

DNV local unit: **West Norway CMC**

Approval Engineer: **Frederik Tore Elter**



for **DNV**

Digitally Signed By: Kristensen, Steinar  
Location: DNV Høvik, Norway  
Signing Date: 04.12.2023

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



## Product description

Navigation Light controller TEF 4800 Commander Navigation Lights Control System, consisting of the following models:

Description	Model	Part Number	Software Version	Note
Panel	Size 0 Panel	8020	4800-SW-002	Installed with light controller, panel without backlight
Panel	Size 1 Panel	8021	4800-SW-002	Installed with light controller
Panel	Size 2 Panel	8022	4800-SW-002	Installed with light controller
Controller	TEF4800 Controller	8024	4800-SW-001	Installation of up to two Controllers
Filter 24 VDC	FN2060 Series	Rated currents from 1 to 30 A	-	EMI AC/DC Filter FN2060 Series to be used for all installations
Power Supply 230 VDC			-	DNV IEC 60945 Type Approved Power Supply with 24 VDC output to be used for all supplies with voltages other than 24VDC

All installations in IEC 60945 protected locations.

## Application/Limitation

- Installation to be in accordance with manufacturers documentation.
- Installation to be with minimum one Panel, and one Controller Unit.
- Controller Panel Size 0 Panel must be installed with an additional dimmable light suitable for night illumination and operation.

## Type Approval documentation

DNV No	Document No	Rev	Title
24	122-33292-1	Rev-1	Report: Force IEC 60945 Test report - Tranberg AS - Marine test of TEF4800 Navigation Lights Control System
22	1408-KA-001	Rev-07	Report: Tranberg Approval Test plan 1408
16	1408-VA-004	01	TEF4800 - Description of panel hardware
13	TUM7535	Rev. 04	Installation and operating manual TEF4800 – Navigation lights controller

## Tests carried out

- Environmental testing: IEC 60945 (2022) incl. IEC 60945 Corr. 1:2008,
- Performance testing: IMO Res.253(83)
- Presentation: IEC 62288 (2021)
- Bridge Alert Management (BAM) IEC 62923-1 (2018) and IEC 62923-2 (2018)

## Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location. In addition, the equipment shall be marked with serial number, safe distance to magnetic compass, power consumption and supply voltage.



Job Id: **262.1-035941-1**  
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## **Periodical assessment**

DNV's surveyor is to be given permission to perform Periodical Assessments at any time during the validity of this certificate and at least every second year. The arrangement is to be in accordance with procedure described in Class Programme DNV-CP-0338, Section 4.

The scope of the periodical/renewal assessment is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.