

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Ballast Water Management System**with type designation(s)
MMC Ballast Water Management SystemIssued to
MMC GREEN TECHNOLOGY AS
Fosnavåg, Norwayis found to comply with
Resolution MEPC.174(58)
DNV GL rules for classification – Ships
DNV GL class programme DNVGL-CP-0209 – Type approval – Ballast water management systems**Application :****This is to certify that the Ballast Water Management System listed above has been examined and tested in accordance with the requirements of the specifications contained in Guidelines contained in Resolution MEPC.174(58) and DNV GL Rules stated above. This Certificate is valid only for the Ballast Water Management System referred to above.****For compliance with the resolution MEPC.174(58), the Certificate is issued on behalf of the Norwegian Maritime Authority.****Product(s) approved by this certificate is/are accepted for installation on vessels classed by DNV GL, unless otherwise instructed by relevant Maritime Administrations.****Operating media:**Issued at **Høvik** on **2017-03-31**for **DNV GL**This Certificate is valid until **2022-03-30**.DNV GL local station: **Ulsteinvik**Approval Engineer: **Bernt Hofset**

Dag Sæle-Nilsen
Head of Section

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.





5760
April 28, 2017

MMC Green Technology AS
Attn: Børge Gjølseth
Sales and Marketing Director
Mjølstadneset
N-6992 Fosnavåg
Norway

ALTERNATE MANAGEMENT SYSTEM ACCEPTANCE

The Coast Guard has completed its review of the materials submitted to revise the Alternate Management System (AMS) acceptance of the MMC Ballast Water Management System ballast water treatment system (BWTS) manufactured by MMC Green Technology AS (MMC). This letter grants AMS acceptance in accordance with the requirements of 33 CFR 151.2026 for the following MMC Ballast Water Management System models and filters as type approved by Det Norske Veritas (DNV) on behalf of the Norwegian Maritime Directorate and as detailed in the type approval certificate TAP00000WD, issued March 31, 2017. *This revised letter recognizes the renewed type approval for the following models listed in the certificate:*

The following MMC models, having the corresponding treatment rated capacity (TRC) in cubic meters/hour (m^3/hr), are accepted for use as an AMS in U.S. waters:

- MMC BWMS Model 50 with a 5 – 50 m^3/hr TRC;
- MMC BWMS Model 100 with a 10 – 100 m^3/hr TRC;
- MMC BWMS Model 150 with a 10 – 150 m^3/hr TRC;
- MMC BWMS Model 300 with a 10 – 300 m^3/hr TRC;
- MMC BWMS Model 370 with a 20 – 370 m^3/hr TRC;
- MMC BWMS Model 450 with a 30 – 450 m^3/hr TRC;
- MMC BWMS Model 500 with a 20 – 500 m^3/hr TRC;
- MMC BWMS Model 600 with a 20 – 600 m^3/hr TRC;
- MMC BWMS Model 750 with a 40 – 750 m^3/hr TRC;
- MMC BWMS Model 1000 with a 40 – 1,000 m^3/hr TRC;
- MMC BWMS Model 1400 with a 40 – 1,400 m^3/hr TRC;

Type Approval of Ballast Water Management System

This is to certify that the Ballast Water Management System listed below has been tested and examined in accordance with the specification and requirements stated in the Guidelines in IMO resolution MEPC.174(58). This type approval is valid only for Ballast Water Management Systems referred to below. This type approval is issued by Danish Maritime Authority (DMA) and Danish Nature Agency by acknowledging the testing carried out under the supervision of another Administration.

Description: **Ballast Water Management System**
Filtration and Ultra-Violet ballast water management system

Producer: **MMC Green Technology AS**
Mjølstadneset
N-6092 Fosnavåg
Norway

Place of Production: **MMC Green Technology A/S**
Mjølstadneset
N-6092 Fosnavåg
Norway

Type: **MMC MWMS Model 150 & MMC BWMS Model 300**

Treatment Rated Capacity: **150 - 300 m³/h**

Issue Date: **03. January 2015**

Expiry Date: **03. January 2020**