

U.S. Coast Guard BWMS Type Approval Updates



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USCG BWMS Type Approval Manager, Marine Safety Center



Agenda



- ❑ Industry Snapshot
- ❑ State of the Program
- ❑ Updated Type Approval Guidance
 - ❑ 5 Year Renewal
 - ❑ Alternate Components
 - ❑ Multiple Independent Laboratories (ILs)
- ❑ Program Resources





USCG BWMS Program Overview

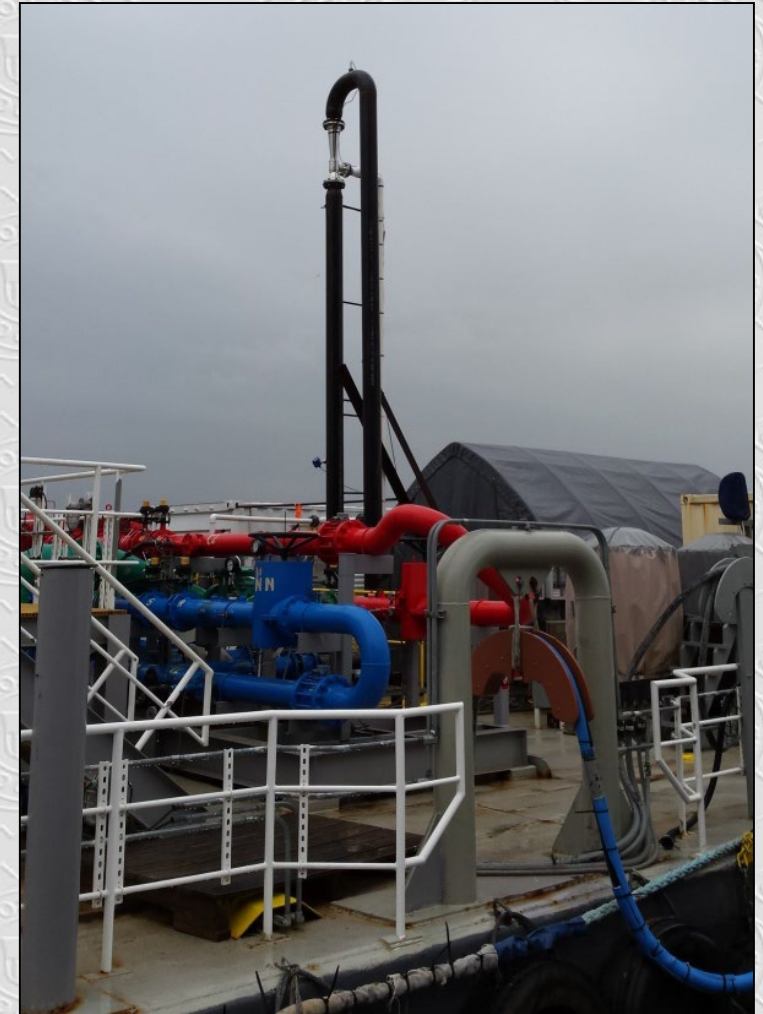
- ❑ Office of Operating & Environmental Standards
 - ❑ Regulation & policy program manager
 - ❑ 3rd Party Independent Laboratory manager
- ❑ Marine Safety Center
 - ❑ Type approval manager
- ❑ Office of Commercial Vessel Compliance
 - ❑ Compliance manager



BWMS Snapshot



- ❑ LOI Register
 - ❑ 60 Systems
 - ❑ 49 Manufacturers
 - ❑ 56 Completed Readiness Evaluations
- ❑ Submissions
 - ❑ 41 Submitted Applications
 - ❑ 38 Approved Systems





State of the Program

- ❑ 2018: 15 Certificates
(10 Amendments)
- ❑ 2019: 24 Certificates
(19 Amendments)
- ❑ 2020: 38 Certificates
(38 Amendments)

U. S. Department of Homeland Security
United States Coast Guard
Certificate of Approval

Coast Guard Approval Number: 162.060/38/0 Expires: 05 November 2025

BALLAST WATER MANAGEMENT SYSTEM
Pressure Vacuum/Ultraviolet

Knutsen Ballast Water AS
Smedasundet 40, Postbox 2017
N-5504 Haugesund, NORWAY

Name of BWMS: KBAL

Capacities: 400 and 3,000 m3/h

This is to certify that the above listed BWMS, with the listed treatment capacities, has been satisfactorily examined and tested by Independent Lab Lloyd's Register in accordance with the requirements contained in 46 CFR 162.060. The system shall be installed and operated in accordance with the KBAL Operation, Maintenance, and Safety Manual (OMSM) O-1002, Rev. C13.3, dated September 1, 2020.

Operational Limitations:
Salinity: 0 PSU to 50 PSU
Water Temperature: -2°C to 50°C
Hold Time: >72 hours
UV-dose: 600 mJ/cm2

The KBAL BWMS has not been verified to meet the requirements of 46 CFR Subchapter F and J, and may not be installed on a U.S. flag vessel. The BWMS may be installed in hazardous locations to which it is certified on a foreign flag vessel subject to approval of the foreign administration. The system's main control cabinet, operator station, UV control cabinet, and UV power cabinet must remain outside of hazardous locations.

The BWMS must be marked in accordance with 46 CFR 162.060-22.

A copy of this Type Approval Certificate shall be carried on board a vessel fitted with the BWMS at all times.

*** End ***

ve named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the eled or suspended by proper authority.

GIVEN UNDER MY HAND THIS 05th DAY OF
NOVEMBER 2020, AT WASHINGTON D.C.

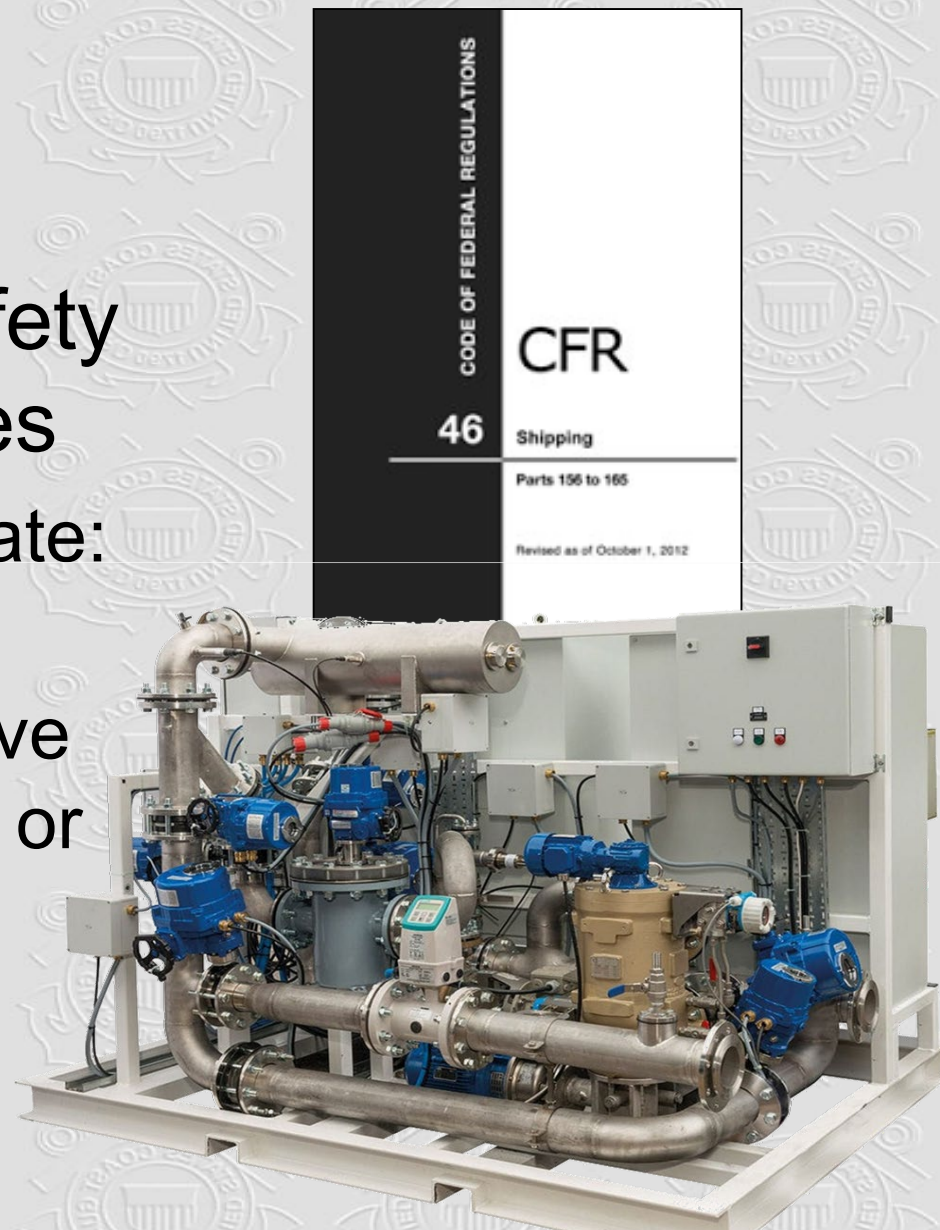

Chief, Engineering Division
BY DIRECTION OF THE COMMANDANT





5 Year Renewal

- ❑ Certificate Renewal
 - ❑ Each Certificate valid for 5 years
- ❑ Renew in writing to the Marine Safety Center before the certificate expires
 - ❑ At least 30 days prior to expiration date:
if no system changes
 - ❑ Renewal Statement “No changes have been made to the BWMS equipment or OMSM and the BWMS continues to meet the requirements of 46 CFR 162.060.”





Alternate Components

- ❑ CG-OES Policy Letter 03-20
 - ❑ Design comparison between original component and alternate component
 - ❑ Results evaluated by IL to determine scope of testing
 - ❑ IL should holistically re-examine the system performance and ability to meet 46 CFR 162.060
- ❑ Filters
 - ❑ Alternate Filter
 - ❑ Modified Filter


U.S. Department of
Homeland Security
United States
Coast Guard



Commandant
United States Coast Guard

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16714
CG-OES Policy Letter
No. 03-20
October 14, 2020


From: S. T. BRADY, CAPT
COMDT (CG-OES)

To: Distribution

Subj: GUIDANCE ON TESTING ALTERNATE COMPONENTS FOR A TYPE
APPROVED BALLAST WATER MANAGEMENT SYSTEM (BWMS)

Ref: (a) Title 46 Code of Federal Regulations (CFR) Subpart 162.060
(b) Title 33 CFR Part 151, Subparts C and D

1. PURPOSE. To provide guidance on the testing and validation of alternate components requested to be used with a type-approved BWMS in accordance with 46 CFR 162.060-16.
2. ACTION. The Coast Guard will follow this policy when implementing the BWMS type-approval program. Internet release is authorized.
3. DIRECTIVES AFFECTED. None.
4. DISCLAIMER. This guidance is not a substitute for applicable legal requirements, nor is it itself a rule. It is not intended to, nor does it impose legally-binding requirements on any party. It represents the Coast Guard's current view on this topic and may assist industry, mariners, the general public, and the Coast Guard—as well as other federal and state regulators—in applying existing statutory and regulatory requirements.
5. APPLICABILITY. This policy letter applies to the procedures for testing and approving alternate components for use with a type-approved BWMS.
6. BACKGROUND. The Coast Guard's type approval regulations provide requirements that a BWMS must meet to obtain type approval. Title 46 CFR 162.060-10(f) provides, in part, that a BWMS is eligible for type approval if it meets design and construction requirements; is evaluated, inspected, and tested under land-based and shipboard conditions; is able to consistently meet the ballast water discharge standards in reference (b); and if all applicable components of the BWMS meet component-testing requirements. Once approved, a certification number will be issued and an approval certificate will be sent to the BWMS manufacturer, pursuant to 46 CFR 162.060-10(g).



Multiple Independent Laboratories

- ❑ CG-OES Policy Letter 01-20
 - ❑ Multiple ILs may be used: with oversight from a single IL
 - ❑ ILs may accept test results from sub-labs of another IL
- ❑ Coordinating IL
 - ❑ Evaluate all test results
 - ❑ Only IL listed on the type approval certificate

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16714
CG-OES Policy Letter
No. 01-20
September 16, 2020

From: S. T. BRADY, CAPT
COMDT (CG-OES)

To: Distribution

Subj: USE OF MULTIPLE INDEPENDENT LABORATORIES (ILs) TO CONDUCT
TYPE APPROVAL TESTING OF BALLAST WATER MANAGEMENT SYSTEMS
(BWMS)

Ref: (a) "Standards for Living Organisms in Ships' Ballast Water Discharged in U.S. Waters,"
Federal Register, Vol. 77, No. 57, p. 17254, Friday, March 23, 2012, Final Rule
(b) Title 46 Code of Federal Regulations (CFR) Subpart 162.060
(c) Title 33 CFR Section 151.1511
(d) Title 33 CFR Section 151.2030

1. **PURPOSE.** To provide guidance when multiple ILs are used to conduct BWMS type approval testing in accordance with 46 CFR 162.060-10(b) and 46 CFR 162.060-16.
2. **ACTION.** The Coast Guard will follow this policy when implementing the BWMS type approval program. Internet release is authorized.
3. **DIRECTIVES AFFECTED.** None.
4. **DISCLAIMER.** This guidance is not a substitute for applicable legal requirements, nor is it itself a rule. It is not intended to, nor does it impose legally binding requirements on any party. It represents the Coast Guard's current view on this topic and may assist industry, mariners, the general public, and the Coast Guard—as well as other federal and state regulators—in applying existing statutory and regulatory requirements.
5. **APPLICABILITY.** This policy letter applies to the use of multiple ILs when conducting initial type approval testing of BWMS and amendments to those certificates.
6. **BACKGROUND.** The preamble of reference (a), at page 17273, states:

One commenter recommended that a manufacturer or vendor should be allowed to use multiple ILs as necessary and efficient during the different phases of approval testing.



Program Resources

☐ www.dco.uscg.mil/msc/ballast-water

VESSEL SECURITY DIVISION (MSC-5)
SERVICES
SALVAGE ENGINEERING RESPONSE TEAM (SERT)
BALLAST WATER MANAGEMENT
REFERENCES
MSC TECHNICAL NOTES
PLAN REVIEW GUIDELINES / DESIGN VERIFICATION GUIDES
TONNAGE GUIDES
USEFUL LINKS (E-CFRS, CGMIX, ETC)
MSC INFORMATION BULLETINS
CONTACT MSC



U.S. COAST GUARD MARINE SAFETY CENTER WASHINGTON, D.C.

Ballast Water Management System Switchboard	
Ballast Water Management Type Approval Information	
Approved BWMS and Status of Applications	MSC provides a listing of BWMSs under review, and their current type approval status.
Type Approval Certificates	In response to widespread interest from industry, the Coast Guard posts copies of BWMS type approval certificates here.
FAQs	Frequently asked questions regarding ballast water, including useful discussion on the specifics of the type approval process. Also, CG-OES issued a letter to all ILs to answer questions about assessing design limitations, which may be found here .
Letters of Intent (LOI)	The LOI Register lists the system name and manufacturer for each system actively pursuing U.S. Coast Guard type approval, with the date of all required notifications that have been submitted to MSC.
BWMS Type Approval Review Checklist	The BWMS Type Approval Review Checklist is provided to give submitters an opportunity to cross reference between certain approval requirements of 46 CFR 162.060 and their application documentation. A completed checklist, while not required, will help facilitate our review of your type approval application.



Contact Information

- ❑ Marine Safety Center
 - ❑ msc@uscg.mil
- ❑ Approved Labs and BWMS
 - ❑ Coast Guard Maritime Information Exchange (CGMIX):
<https://cgmix.uscg.mil>
- ❑ USCG BWMS Type Approval Team
 - ❑ LCDR Kirstin Haas: Kirstin.M.Haas@uscg.mil
 - ❑ LT Ben McKeathen: Benjamin.J.McKeathen@uscg.mil

Questions and Answers



Teamwork * Excellence * Innovation * People