Nonprofit Organization Grants:

Coast Guard Office of Auxiliary and Boating Safety Recreational Boating Safety

Federal Grant Title: National Non-Profit Organization Grant Program

Federal Agency: United States Coast Guard
Funding Opportunity Number: DHS-USCG-2020-001
Type of Funding: Cooperative Agreement

CFDA Numbers: 97.012

CFDA Descriptions: Boating Safety Financial Assistance

Grantee: American Boat & Yacht Council (ABYC)

Grant Number: 3320FAN112002

Grant Title: FY 2020 Voluntary Standards Development

Period of Performance: 1 year grant

Award Amount: \$311,500.00

Summary:

This grant will address Area of Interest number one found in the Notice of Funding Opportunity published on December 12, 2020. To supplement current Federal Regulations, ABYC has identified the following areas where the Standards process, and our experience in research and testing can make a difference:

- 1. Voluntary Standards Development a. With static regulations, a dynamic system of standards that responds to accident trends and innovation while being widely accepted by the manufacturing community must exist. Funding, in part, this ANSI Accredited standards process allows the USCG to affect change on a continuing basis without relying on regulatory change. Over 30 Standards are in the revision process during the timeframe of this grant, if awarded.
- 2. International Standards Involvement a. Keeping tabs on the global manufacturing and boating community provides a much-needed perspective. This activity has produced positive safety changes and extensive education for foreign manufacturers selling in the U.S. ABYC's involvement in the standards of the ISO and other national standards bodies has enabled us to improve our process by observing what is effective around the globe and what is not. Key issues such as craft stability, high-power lithium-ion batteries and electronic steering, shift and throttle will all be discussed during the timeframe of this grant.
- 3. Continue Support of the On-water Educational Standards a. The on-water educational standards are the responsibility of ABYC and our accredited ANSI process. This portion of the

proposal funds the ongoing review and updates for these standards. Two of these standards are scheduled to be published during the timeframe of this grant.

https://abycinc.org/



FINAL Report - October 2022

Grant # 1120.02 - Voluntary Standards Development

NOTICE: Due to the COVID-19 pandemic, ABYC moved to remote operations on March 17, 2020. Standard development work continued with the use of remote meeting and webinar software. Because the impact of the COVID-19 pandemic during the performance period of this grant, ABYC was granted a no cost performance period extension.

Executive Summary

ABYC successfully executed the grant titled Voluntary Standards Development. This grant supported the review and revision of existing voluntary standards, and the development of new standards when needed, to assure all potential and existing safety concerns are addressed and to keep current with technology and updated manufacturing processes. Methods focused on voluntary standards development and coordination. Twenty-nine (29) ABYC standards and technical information reports were revised and published and thirty-nine (39) ABYC standards and technical information reports initiated review, continued review, or began development. In supporting ABYC's role as the Technical Advisory Group (TAG) for ISO TC-188, ABYC coordinated US participation and attended numerous events and reviewed over 80 draft ISO standards and resolutions. Additionally, ABYC attended, presented, or liaised with over thirty-five (35) groups/events. Clearly, this grant supported the USCG/ABYC goal of promoting boating safety and keeping deaths and injuries as low as possible in the recreational boating arena.

Standards Development and Coordination

Reducing injuries and fatalities through development of voluntary boating safety standards is the core of ABYC's mission and vision. The annual Standards Week series of meetings is key to the standards development process. The 11th Annual Standards Week, held virtually over the months of January-March 2021, hosted twelve PTCs that met for a total of 27 meetings. Because of the extended performance period, this grant also supported the 12th Annual Standards Week, which was held virtually during the week of January 10-14, 2022. Seven Project Technical Committees (PTC) met for a total of nine meetings.

These committees met at Standards Week, January-March 2021 and discussed the following standards:

Aquatic Invasive Species

T-32, Design and Construction in Consideration of Aquatic Invasive Species

Electrical

E-10, Storage Batteries

E-11, AC & DC Electrical Systems on Boats

E-30, Electric Propulsion Systems

Electrical Component

A-31, Battery Chargers and Inverters

C-7, DC Battery Switches for Use on Boats

Engine & Powertrain

A-27, Alternating Current (AC) Generator Sets

P-1, Installation of Exhaust Systems for Propulsion and Auxiliary Engines

P-6, Propeller Shafting Systems

Fire Fighting & Detection Systems

UL 1110, Standard for Marine Combustible Gas Indicators

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Fuel & Ventilation Systems

C-1, Primer Bulbs

C-2, Carbon Canisters for Marine Applications

H-2, Ventilation of Boats Using Gasoline

H-25, Portable Gasoline Fuel Systems

H-33, Diesel Fuel Systems

Hull & Deck Structures

H-41, Reboarding Means, Ladders, Handholds, Rails and Lifelines

Hull Performance

H-5, Boat Load Capacity

H-26. Powering of Boats

H-28, Inflatable Boats

H-29, Canoes and Kayaks

S-7, Boat Capacity Labels

S-8, Boat Measurement and Weight

T-1, Aluminum Applications for Boats and Yachts

Hull Piping

C-1113, Standard for Electrically Operated Pumps for Nonflammable Liquids, Marine

C-1193, Standard for Marine Filters and Strainers for Nonflammable Liquids

H-27, Seacocks, Thru-hull Fittings, and Drain Plugs

Navigation Lights & Sound Signal Appliances

A-16, Installation of Electric Navigation Lights

C-5, Construction and Testing of Electric Navigation Lights

Product Interface

S-32, Warnings and Safety Signs for Boats

T-5, Safety Signs and Labels

Thermal Appliance

A-3, Cooking Appliances

A-7, Liquid and Solid Fueled Boat Heating Systems

Additional meetings and webinars were held to discuss final balloting and preparation for the publication of the revised standards.

The following PTCs met by webinar and discussed the following standards.

Aquatic Invasive Species - May 2021

T-32, Design and Construction in Consideration of Aquatic Invasive Species

Electrical – May 2021

E-10, Storage Batteries

E-11, AC & DC Electrical Systems on Boats

E-30, Electric Propulsion Systems

Electrical Component - June 2021

C-7, DC Battery Switches for Use on Boats

Engine and Powertrain - May 2021

A-27, Alternating Current (AC) Generator Sets

P-6, Propeller Shafting Systems

Fuel and Ventilation - April 2021

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C-1, Primer Bulbs

C-2, Carbon Canisters for Marine Applications

H-2, Ventilation of Boats Using Gasoline

H-25, Portable Gasoline Fuel Systems

H-33, Diesel Fuel Systems

Hull Performance - May 2021

H-5, Boat Load Capacity

H-26, Powering of Boats

H-28, Inflatable Boats

H-29, Canoes and Kayaks

S-8, Boat Measurement and Weight

T-1, Aluminum Applications for Boats and Yachts

Hull Piping – May 2021

H-27, Seacocks, Thru-hull Fittings, and Drain Plugs

Product Interface – April and May 2021

S-32, Warnings and Safety Signs for Boats

T-5, Safety Signs and Labels

Thermal Appliance – May 2021

A-3, Cooking Appliances

A-7, Liquid and Solid Fueled Boat Heating Systems

The following subcommittees also met and discussed the following topics.

Electrical AC & DC Breakers, E-13, Personnel Safety

Engine and Powertrain C-1129

Fuel and Ventilation

Fuel and Ventilation

H-33 Automatic Shutoff

Semiportable Tanks

UL 1121 Incorporation

EL, EP, FV

Portable Gasoline Generators

Navigation Lights and Sound Signal Appliances

A-16, C-5, Accessory Lights

ABYC completed the review process and published the following 22 standards and technical information reports as Supplement 61 on July 31, 2021.

A-3, Cooking Appliances

A-7, Liquid and Solid Fueled Boat Heating Systems

A-16, Installation of Electric Navigation Lights

A-27, Alternating Current (AC) Generator Sets

C-1, Primer Bulbs

C-2, Carbon Canisters for Marine Applications

C-5, Construction and Testing of Electric Navigation Lights

C-7, Battery Switches For Use on Boats

E-10, Storage Batteries

E-11, AC & DC Electrical Systems On Boats

E-30, *Electric Propulsion Systems* (Formerly TE-30)

H-2, Ventilation of Boats Using Gasoline

H-5, Boat Load Capacity

H-25, Portable and Semi-Portable Marine Gasoline Fuel Systems

H-26, Powering of Boats

H-27, Seacocks, Thru-Hull Fittings, and Drain Plugs

H-28, Inflatable Boats

H-33, Diesel Fuel Systems

P-6, Propeller Shafting Systems

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S-8, Boat Measurement and Weight

T-5, Safety Signs and Labels

T-32, Design and Construction in Consideration of Aquatic Invasive Species

These committees met at Standards Week, January 2022 and discussed the following standards:

Control Systems

P-21, Manual and Assisted Hydraulic Steering Systems

P-22, Steering Wheels

Electrical

E-13, Lithium Ion Batteries

S-31, Environmental Considerations for Electronic Systems and Components Installed On Boats

TE-12, Three-Phase AC Electrical Systems on Boats

Subcommittees

Electrical Component

A-32, AC Power Conversion Equipment and Systems

Fuel & Ventilation Systems

H-24, Gasoline (Petrol) Fuel Systems

TH-22, Educational Information About Carbon Monoxide

TH-23, Design, Construction, and Testing of Boats in Consideration of Carbon Monoxide

UL Standards

Hull Performance

H-1, Field of Vision From The Helm Position

H-8, Buoyancy in the Event of Flooding/Swamping

H-29, Canoes and Kayaks

H-35, Powering and Load Capacity of Pontoon Boats

H-37, Jet Boats - Light Weight

S-30, Outboard Engine and Related Equipment Weights

T-1, Guidelines for Use of Aluminum in Boat and Yacht Construction

TH-12, Outboard Engine Mounting Guide

On-Water Education

EDU-1, On-Water Recreational Boating Skills - Power

EDU-2, On-Water Recreational Boating Skills – Human-Propelled

EDU-3. On-Water Recreational Boating Skills – Sail

EDU-4, On-Water Recreational Boating Skills – Instruction

Product Interface

S-32, Warnings and Safety Signs for Boats

T-31, Marine Law Enforcement Craft Acquisition and Safety

Additional meetings and webinars were held to discuss final balloting and preparation for the publication of the revised standards.

The following PTCs met and discussed the following standards.

Electrical – April and May 2022

E-13, Lithium Ion Batteries

S-31, Environmental Considerations for Electronic Systems and Components Installed On Boats

TE-12, Three-Phase AC Electrical Systems on Boats

Electrical Components – May 2022

A-32, AC Power Conversion Equipment and Systems

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Fuel and Ventilation - May 2022

H-24, Gasoline (Petrol) Fuel Systems

TH-22, Educational Information About Carbon Monoxide

TH-23, Design, Construction, and Testing of Boats in Consideration of Carbon Monoxide

Hull and Deck Structures – March and April 2022

H-41, Reboarding Means, Ladders, Handholds, Rails, and Lifelines

Hull Performance – March and April 2022

H-8, Buoyancy in the Event of Flooding/Swamping

H-29, Canoes and Kayaks

H-35, Powering and Load Capacity of Pontoon Boats

H-37, Jet Boats - Light Weight

S-30, Outboard Engine and Related Equipment Weights

T-1, Guidelines for Use of Aluminum in Boat and Yacht Construction

TH-12, Outboard Engine Mounting Guide

Hull Piping - February and May 2022

H-30, Hydraulic Systems

On-Water Education – June 2022

EDU-3, On-Water Recreational Boating Skills - Sail

EDU-4, On-Water Recreational Boating Skills - Instruction

Navigation Lights and Sound Signal Appliances – June 2022

A-16, Installation of Electric Navigation Lights

C-5, Construction and Testing of Electric Navigation Lights

The following subcommittees also met and discussed the following topics.

Control Systems Hybrid Steering Systems, P-28 Testing

Electrical E-13, Personnel Safety, Isolated DC Systems, Electric Propulsion,

Circuit Breakers, S-31, Wire Sizing

Electrical Components Battery Switches Fuel and Ventilation UL Standard

Hull and Deck Structures H-41

Hull Performance H-8, H-29, H-35, T-1

Hull Piping C-1193

Product Interface Graphical Symbols
Thermal Appliance Gasoline Heaters

ABYC completed the review process and published the following 28 standards and technical information reports as Supplement 62 on July 31, 2022.

New Standards and Technical Information Reports

E-13 (Formerly TE-13), Lithium Ion Batteries

S-32, Warnings and Safety Signs for Boats

T-33, Manufacturer's Statement of Origin

Revised Standards and Technical Information Reports

A-32, AC Power Conversion Equipment and Systems

C-3, Alcohol, Kerosene and Solidified Fuel Cooking Appliances

EDU-2, On-Water Recreational Boating Skills - Human-propelled

EDU-3, On-Water Recreational Boating Skills - Sail

EDU-4, On-Water Recreational Boating Skills – Instruction

H-8, Buoyancy In The Event Of Swamping

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H-24, Gasoline (Petrol) Fuel Systems

H-29, Canoes and Kayaks (limited scope review)

H-30, Hydraulic Systems

H-35, Powering and Load Capacity of Pontoon Boats

H-37, Jet Boats - Light Weight

H-41, Reboarding Means, Ladders, Handholds, Rails and Lifelines

P-21, Manual and Assisted Hydraulic Steering Systems

P-23, Mechanical Steering and Propulsion Controls For Jet Boats

S-30, Outboard Engine and Related Equipment Weights

S-31, Environmental Considerations for Electronic Components Installed On Boats

T-1, Guidelines for Use of Aluminum in Boat and Yacht Construction

T-31, Marine Law Enforcement Craft Acquisition and Safety

TE-12, Three Phase AC Electrical Systems on Boats

TH-12, Outboard Engine Mounting Guide

TH-22, Educational Information About Carbon Monoxide

TH-23, Design, Construction, and Testing of Boats in Consideration of Carbon Monoxide

Revised Recommended Compliance Date

A-16, Installation of Electric Navigation Lights

C-5, Construction and Testing of Electric Navigation Lights

E-11, AC and DC Electrical Systems on Boats

Both the Technical Board and the Division Directors held meetings in the fall of 2020 (virtual), fall 2021 (virtual), and fall of 2022 (virtual). Highlights of the Technical Board meetings included discussion on definition of an organization, accident trends, standardizing temperatures in the standards, operator responsibility, sustainability, graphical symbols, and use of the word "petrol." Other topics addressed include tolerances, PTC procedures, testing protocols, harmonizing definitions.

Upgrades and enhancements continue on the Standards Library. The system has shown great functionality and has been very well received. ISO standards continue to be offered via a subscription model developed specifically for this purpose.

Area of Interest

1. On-water instructional standards

COVID-19 pandemic restricted the use of in-person meetings. As a result, public member travel funds may be used in an alternative manner to facilitate and support the review of the on water skills standards.

Completed the systematic review of EDU-1. EDU-2, EDU-3, and EDU-4. . EDU-1 published December 2022 and EDU-2, 3, and 4 published July 2022.

Outreach

The following liaison meetings and industry events were attended from September 2020 – Sept 2022:

ABYC Standards Week 2021, 2022

ANSI Legal Issues Forum

ANSI Procedural webinars

ANSTF meetings

BIRMC meetings

Central Atlantic Surveyors Conference - presentation

Future of Marine Propulsion Technology webinar

IBEX conference

Presented at IBEX virtual conference.

ICOMIA Technical Committee

IMCI inspectors meeting

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International Boating and Water Safety Summit – presentation

NASBLA ERAC committee meetings

NBSAC meetings NFPA 921 Task Force

NMMA American Boating Congress NMMA BYCC Task Force meeting

NMMA Engine Manufacturer Division Board meeting

NMMA Engineering Compliance Seminar – Virtual Presentations

NMMA Engineering Compliance Seminar Question and Answer Sessions

NMMA EMD Board Meetings NMMA EMD Technical Meetings NMMA Inspectors Meetings

NMMA State of the Industry Webinar

RNLI

RSG Meetings

SAE Battery and Electrification Summit SAE Marine Fuel Committee Meetings SAE Marine Technical Committee Meetings

SAE PWC Committee

SAMS Regional Meeting – presentation

UL 217 STP Committee Meetings USCG non-profit grants webinars

WSIA Summit

WSIA Towboat Committee

YBAA Conference – Presentation

YBAA University

These meetings are an essential part of the outreach efforts to ensure boating safety and the standards that are at the forefront of the industry and the boating public.

Voluntary Standards Coordination

ABYC continues to be the liaison for ISO, the International Organization of Standards, in the role of the US TAG (Technical Advisory Group). ABYC and the US TAG are principle resources for the development of international standards, coordinating and submitting the US interests and comments for each document. This participation better assures that international standards mirror US standards for boating safety. It was an active period for ISO standards actions, despite the effects of the COVID-19 pandemic. The following ISO standards were under review during this grant period:

FDIS 9093 Small craft — Seacocks and throughhull fittings

CIB Resolution 2020-19 Liaison with ISO/TC 333 Lithium CD TS 23625 Small craft — Lithium-ion batteries

CIB Resolution 2020-21 Revision of ISO 18854:2015, Small craft — Reciprocating internal combustion

engines exhaust emission measurement — Test-bed measurement of

gaseous and particulate exhaust emissions

CIB Resolution 2020-22 Call for experts ISO/TC 188/WG 33 LPG
FDIS 8469 Small craft — Non-fire-resistant fuel hoses
FDIS 7840 Small craft — Fire-resistant fuel hoses

CIB Resolution 2020-23 Request for Minor revision of ISO 10087:2019 Small craft — Craft identification

Coding system

CIB Resolution 2020-20 Request for Minor revision of ISO 10240:2019 Small craft — Owner's manual

CIB Res 2020-24 Appointment new Convenor ISO/TC 188/WG 2

FDIS 14946 Small craft — Maximum load capacity

FDIS 12217-1 Small craft — Stability and buoyancy assessment and categorization — Part

1: Non-sailing boats of hull length greater than or equal to 6 m

FDIS 12217-2 Small craft — Stability and buoyancy assessment and categorization — Part

2: Sailing boats of hull length greater than or equal to 6 m

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FDIS 12217-3 Small craft — Stability and buoyancy assessment and categorization — Part 3: Boats of hull length less than 6 m FDIS 8847 Small craft — Steering gear — Cable over pulley systems 2021-01 "2nd DIS 21487 and 9 month extension CIB Resolution Small craft — Permanently installed petrol and diesel fuel tanks" CIB Resolution 2/2021 Result Systematic rev ISO 11192:2005 Small craft — Graphical symbols CIB Resolution 3/2021 Result Systematic rev ISO 15084:2003 Small craft — Anchoring, mooring and towing — Strong points FDIS 11592-2 "Small craft — Determination of maximum propulsion power rating using manoeuvring speed — Part 2: Craft with a length of hull between 8 m and 24 m " FDIS 10592 Small craft — Remote hydraulic steering systems Small Craft — Guidelines for automatic watertight ventilation shutdown system 6017 NWIP 11591 Small craft — Field of vision from the steering position — Amendment 1: Title missing SR 11592-1 Small craft — Determination of maximum propulsion power rating using manoeuvring speed — Part 1: Craft with a length of hull less than 8 m SR 16315 Small craft — Electric propulsion system DIS 9650-1 Small craft — Inflatable liferafts — Part 1: Type I and II CIB Resolution 2021/4 Dissolvement of ISO/TC 188/AG 2 Creation of a new WG for ISO 11591:2020/Amd 1 CIB Resolution 2021/5 DIS 9650-1 Small craft — Inflatable liferafts — Part 1: Type I and II Small craft — Permanently installed petrol anddiesel fuel tanks 2nd DIS 21487.2 SR 13342:1995 (vers 5) Small craft — Static thrust measurement for outboard motors SR 13591:1997 (vers 4) Small craft — Portable fuel systems for outboard motors" SR 13592:1998 (vers 5) Small craft — Backfire flame control for petrol engines Small craft — Liquid-fuelled galley stoves and heating appliances SR 14895:2016 (Ed 2) SR 15584:2001 (vers 4) Small craft — Inboard petrol engines — Engine-mounted fuel and electrical components" SR 6185-1:2001 (vers 4) Inflatable boats — Part 1: Boats with a maximum motor power rating of 4,5 kW SR 6185-2:2001 (vers 4) Inflatable boats — Part 2: Boats with a maximum motor power rating of 4,5 kW to 15 kW inclusive SR 8665:2006 (vers 3) Small craft — Marine propulsion reciprocating internal combustion engines — Power measurements and declarations Request for Minor revision of ISO 8848:2020 Small craft — Remote CIB Resolution 2021/6 mechanical steering systems 2nd DIS 21487.2 Small craft — Permanently installed petrol and diesel fuel tanks CIB Resolution 2021/10 Amendment for ISO 25197:2020 Small craft — Electrical/electronic control systems for steering, shift and throttle CIB Resolution 2021/11 Amendment for ISO 13297:2020 Small craft — Electrical systems — Alternating and direct current installations FDIS 10088 (Ed 5) Small craft — Permanently installed fuel systems CIB Resolution 2021/7 Amendment for ISO 12216:2020 Small craft — Windows, portlights, hatches, deadlights and doors — Strength and watertightness requirements CIB Resolution 2021/8 Amendment for ISO 15083:2021 Small craft — Bilge-pumping systems Inflatable boats — Part 4: Boats with a hull length of between 8 m and 24 m SR 6185-4:201 with a motor power rating of 15 kW and greater Small craft — Craft identification — Coding system FDIS 10087 (Ed 5) CIB Resolution 2021/12 Amendment for ISO 11591:2020 Small craft — Field of vision from the steering position CD 11591:2020 Small craft — Field of vision from the steering position — Amendment 1: Title missing FDIS 10087 (Ed 5) Small craft — Craft identification — Coding system CIB Resolution 2021/13 N 2149 Revision of ISO 16315:2016, Small craft — Electric propulsion system DIS 13297 Small craft — Electrical systems — Alternating and direct current installations AMENDMENT 1

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DIS 12216 Small craft - Windows, portlights, hatches, deadlights and doors - Strength and

watertightness requirments - Amendment 1

DIS 15083 Small craft — Bilge-pumping systems — Amendment 1

DIS 25197:2020/ Small craft — Electrical/electronic control systems for steering, shift and throttle

DAmd 1 — Amendment 1

CIB Resolution Call for experts - Revision on ISO/IEC 16315

CIB Resolution 16315 Small craft — Electric propulsion system – US Experts for JWG 1
CIB Resolution 118121 Small craft — Watertight or quick-draining recesses and cockpits —

Amd 1 Amendment 1

SR 12215-9 Small craft ---- Hull construction and scantlings — Part 9: Sailing craft

appendages

Minor Revision 8848 Small craft — Remote mechanical steering systems
CD 10239 Small craft — Liquefied petroleum gas (LPG) systems
FDIS 9650-1 Small craft — Inflatable liferafts — Part 1: Type 1 and type 2
CD 6185-3 Inflatable boats — Part 3: Boats with a hull length less than 8 m

with a motor rating of 15 kW and greater

ISO CD 6185-3 Inflatable boats - Part 3

ISO WD 8665-2 Power measurements and declarations — Part 2: Electric marine propulsion

ISO FDIS 9650-1 Small craft - Inflatable liferafts - Part 1: Type I and II

ISO CD 10239 Small Craft-Liquefied petroleum gas (LPG)
ISO 11591:2020/ Field of vision from the steering position — Amd 1

D Amd 1

ISO DIS 12216 Windows, portlights, hatches, deadlights, doors - Amd 1

ISO FDIS 13590 Personal watercraft
ISO DIS 13297 Electrical systems - Amd 1

ISO CD 15085 Man overboard

ISO CD 6017 Automatic watertight ventilation shutdown system

ISO DIS 6185-3 Inflatable boats - Part 3

ISO DIS 8665-2 Power measurements and declarations — Part 2: Electric marine

propulsion

ISO FDIS 9094 Owner's manuals

ISO CD 10239 Small Craft-Liquefied petroleum gas (LPG)
ISO 11591:2020/D Field of vision from the steering position — Amd 1

Amd 1

ISO FDIS 13297/D Electrical systems - Amd 1

Amd 1

ISO CD 15085 Man overboard

ISO FDIS 21487 Permanently installed petrol and diesel fuel tanks

ABYC Staff also attended and coordinated the US position at the 2021 and 2022 ISO Plenary meetings held virtually due to the COVID-19 pandemic. Additional ISO meetings attended include:

CEN TC 464 in 2021 and 2022

ISO management meetings, - Monthly in 2021 and 2022

US Experts participated in other International Technical meetings including:

International Council of Marine Industry Associations – ICOMIA Technical Committee meetings 2020 and 2021

RSG Meetings in 2021 and 2022

RCD Review 2022 - Evaporative Emissions RCD Review 2022 - Design Categories

ANSI ISO Training Mar 2021

TC-188 Working Group meetings were held virtually in 2020, 2021, and 2022 including:

AG 1 WG 2 AHG 1 WG 3 JWG 1 WG 5 Page 10 October 26, 2022

WG 7	WG 31
WG 9	WG 32
WG 5	WG 33
WG 20	WG 34
WG 27	WG 35

US Technical Advisory Group (TAG) to TC-188 Small craft met monthly via webinar to confirm the US position on ISO documents.

Support of USCG Office of Boating Safety

ABYC provided support to the USCG Office of Boating Safety in the following activities:

Completed technology enhancements to support USCG meeting activities and improved virtual and hybrid meeting options.

Conducted planning for the next USCG Risk Mitigation event

Hosted USCG Risk Mitigation series

Hosted NBSAC Virtual Meetings

Hosted NBSAC Hybrid Meeting

Hosted several meetings with USCG staff.

Provided feedback on USCG "final" boat test procedures for Outboard over 2 hp boats

Provided proposal on boat length for USCG review

Provided support for testing of powering and capacity for powered SUP

Provided USCG overview of electric propulsion standards and Lithium battery technical information report.

Reviewed flotation and capacity testing protocols

Other

Annual ANSI membership fees were paid assuring that ABYC standards are developed efficiently and according to the accredited processes.