

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-2014-001
Type of Funding: Cooperative Agreement
CFDA Numbers: 97.012
CFDA Descriptions: Boating Safety Financial Assistance

Grantee: American Boat and Yachting Council Inc (ABYC)
Grant Number: 3314FAN140203
Grant Title: Select Manufacturer Voluntary Standards Development Support

Award Amount: \$150,000.00

Synopsis:

The ABYC writes and maintains relevant boating safety engineering and construction standards that support the recreational marine industry. The USCG provides support to ABYC for the purpose of developing voluntary standards to prevent the need for costly regulations while increasing the level of safety on the water. With the USCG dollars, ABYC has been able to effect significant changes on the boating industry through engineering standards, resulting in substantial lives saved and decreased accidents.

Voluntary Standards Development Grant #1402.03 Final Report – October, 2015

Standards Development and Coordination:

Development of voluntary standards to improve boating safety and reduce injuries and fatalities continues to be the main focus of the work of ABYC. A large part of developing standards comes together at the annual Standards Week series of meetings. The 6th Annual Standards Week was held in Seattle, WA the week of January 12, 2015. Five Project Technical Committees (PTC) met - Hull Performance, Control Systems, Electrical, Electrical Component, and Gas Detectors.

- Hull Performance – The PTC addressed numerous comments on H-4, H-28, S-7, S-8. A subcommittee presented a status update on the overhaul of S-12 to make it relevant in today's industry, focusing on transom requirements and creating an appropriate envelope around the engine. A subcommittee was formed to develop a proposal on upper deck labeling requirement for all boats.
- Electrical – The committee resolved 141 comments on E-11 and approved an editorial re-organization of E-11 to improve clarity between AC and DC requirements. A subcommittee is moving forward with developing a Technical Information Report on 3 phase power. Additionally, a subcommittee is looking at evaluating ampere interrupting capacity (AIC) ratings for fuses at lower voltages.
- Electrical Component – The committee proceeded with the systematic review of A-31. The adoption of UL 1107 continued with the draft being re-organized to improve flow and readability.
- Gas Detectors – A-14 *Gasoline and Propane Gas Detection Systems* and A-24 *Carbon Monoxide Detection Systems on Boats* were evaluated. A subcommittee was formed to look at the ramification of expanding the requirement of CO detectors on all boats with enclosed accommodation space. With the current draft of ISO 9094 *Small craft - Fire protection* adding a requirement for smoke detection, the committee discussed the availability of marine rated smoke detectors and formed a subcommittee to look at the possibility of an ABYC standard on smoke detectors.
- Control Systems – Based on testing, the committee is proceeding with an expansion of scope of P-21 *Manual Hydraulic Steering Systems* to cover triple and quadruple outboard application. Also the committee is evaluating the wireless control technologies in consideration of developing a standard to address these systems.

In addition to the Standards Week meetings, additional meetings and webinars were held to discuss final balloting and preparation for the publication of the revised standards.

Several subcommittees also met:

- Insurance Data loss subcommittee (HP)
- Upper deck capacity subcommittee (HP)
- H-28 Inflatables subcommittee (HP)
- S-8 Subcommittee (HP)
- Binnacle Controls subcommittee (CS)
- Seat Testing Subcommittee (HD)
- Three phase power subcommittee (EL)
- Lithium Ion battery subcommittee (EL)
- Co Detectors subcommittee (GD)
- Smoke detectors subcommittee (GD)

- Sailboat rigging inspection subcommittee

Supplement 55 of the Standards and Technical Information Reports for Small Craft was published July, 2015. The following standards were revised:

- A-14 Gasoline and Propane Detection Systems
- A-24 Carbon Monoxide Detection Systems on Boats
- A-31 Battery Chargers and Inverters
- E-11 AC & DC Electrical Systems on Boats
- H-4 Cockpit Drainage Systems
- H-31 Seat Structures
- H-33 Diesel Fuel Systems
- S-7 Boat Capacity Labels

A number of other standards were opened for their periodic review during this time frame. The Call for Comments review was initiated for:

- A-27 Alternating Current (AC) Generator Sets
- A-33 Emergency Engine Cut-Off Devices
- H-28 Inflatable Boats
- P-14 Mechanical Propulsion Control Systems
- S-8 Boat Measurement and Weight
- S-12 Outboard Engine, Transom, and Engine Well Dimensions
- TH-29 Sewage Systems

There are several UL Standards currently being considered for adoption, assimilation, or rejection:

- UL 1129
- UL 1113
- UL 1193

Both the Technical Board and the Division Directors held meetings at IBEX. Highlights of the Technical Board meeting include direction for the creation of an industry conformity standard to house Warnings and Labels, initiation of a project to update T-19, Fabrication Equipment, Procedures, and Materials Quality Control, and agreement for PTC review of the USCG recommended changes to the 33 CFR. Highlights of the Division Directors meeting include prioritizing the standards review and PTC meeting schedule and discussion of the potential candidates for the PTC Chair and Vice Chair positions.

A large undertaking during this period was the start of an upgrade to the Standards Development platform. This is an ongoing project to update the standards development platform (EZ-PTC) to improve user functionality and ease of use. In addition, an updated standards access platform was launched which greatly improved the navigation and functionality of the online standards access.

Outreach:

The following liaison meetings and industry events were attended:

SAMS Northeast Regional Meeting (also presented)

IBWSS (also presented)

Industry Meetings at MIA

IAMI

Consumer outreach at a Fawcett's and the Tartans owners group

CAT South (Program Advisory Committee)

NBSAC (also presented)

NMMA ABC

NASBLA ERAC

BIRMC

ISO

NAMS

YBAA (also presented)

IBEX – Presented Standards Update and a number of seminars along with an exhibitor workshop on Warnings and Labels

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.

Support of USCG Outreach at IBEX:

ABYC organized and hosted the annual "Compliance and Coffee" event at IBEX in September, 2015. This event provides boat builders the opportunity to talk directly with ABYC Technical personnel and others to gain a better understanding of the ABYC standards and adherence to the USCG regulations. In addition, logistical support was provided for the delivery and return of the USCG booth materials along with coordinating the furnishings of the USCG booth at the show.

ISO:

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 assures that international standards mirror US standards for boating safety. It was an active year for ISO standards actions. The following ISO standards were under review during this grant period:

NP 21487 Permanently installed petrol & diesel fuel tanks

N 1436 CD 11592-2 Maximum propulsion rating

DIS 11591 Small craft – Field of vision from the helm position

Systematic Reviews:

10240:2004 Small craft – Owner's manual

11192:2005 Small craft – Graphical symbols

12216:2002 Small craft – Windows, portlights, hatches, headlights, and doors

13590:2003 Small craft – Personal watercraft

13929:2001 Small craft – Steering gear

14945:2004 Small craft – Builder's plate

15084:2003 Small craft – Anchoring, mooring, and towing

15652:2003 Small craft – Remote steering systems for inboard mini jet boats

8099:2000 Small craft – Toilet waste retention systems

8847:2004 Small craft – Steering gear

8848:1990 Small craft – Remote steering systems

9775:1990 Small craft – Remote steering systems for single outboard motors of 15kW to 40 Kw power

16147:2002 Inboard diesel engines – Engine mounted fuel and electrical components

DIS 14895	Small craft – Liquid-fueled galley stoves and heating appliances
DIS 10087	Small craft – Craft identification- coding system
DIS 9094.3	Small craft – Fire protection
DIS 8666	Small craft – Principal data
DIS 21487	Permanently installed petrol and diesel fuel tanks
N1459 – 8099	Toilet waste retention systems
N1465	Definitions for design categories
CD 11812	Small craft – Watertight or quick draining recesses and cockpits
DIS 15085	Small craft – Man-overboard prevention and recovery
FDIS 19009	Small craft – Electric navigation lights – performance
DIS 16315-4	Small craft – Electric propulsion system
FDIS 12217-1	Small craft – Stability and buoyancy assessment and categorization- Part 1
FDIS 12217-2	Small craft – Stability and buoyancy assessment and categorization- Part 2
FDIS 12217-3	Small craft – Stability and buoyancy assessment and categorization- Part 3
FDIS 14895	Small craft – Liquid-fueled galley stoves and heating appliances
DIS 11592-2	Small craft – Determination of maximum propulsion power rating – Part 2
FDAm2 21487	Installed petrol and diesel fuel tanks – Amendment 2
FDIS 9094	Small craft – Fire protection
DAm2 15085	Small craft – Manoverboard prevention and recovery – Amendment 2
DIS 8099	Small craft – Toilet waste retention systems

ABYC Staff also attended the 2015 ISO Plenary meetings held in Gothenburg, Sweden. The following TC188 meetings were attended: WG 10, WG 3, WG 20, WG 24, JWG 1, SC 2, and the Conveners and project leaders meetings. In addition, ABYC staff participated in the ISO TC188 WG4 webinar concerning Visibility from the Helm.

Other:

Once again, ABYC hosted the annual USCG Non-Profit Grants webinar which required participation from all grant recipients.

ABYC also successfully completed an ANSI audit and received reaccreditation for our standards development process.