

**Voluntary Standards Development Grant #1202.26  
Final Report**

**2013 Supplement:**

Supplement 53 of the Standards and Technical Information Reports for Small Craft was published. Fourteen standards were revised:

- A-1 Marine Liquefied Petroleum Gas (LPG) Systems
- A-3 Galley Stoves
- A-6 Refrigeration & Air Conditioning Equipment
- A-30 Cooking Appliances with Integral LPG Cylinders
- E-2 Cathodic Protection
- H-2 Ventilation of Boats Using Gasoline
- H-25 Portable Gasoline Fuel Systems
- H-32 Ventilation of Boats Using Diesel Fuel
- P-17 Mechanical Steering Systems
- P-18 Cable Over Pulley Steering Systems for Outboard Engines
- P-22 Steering Wheels
- P-24 Electric/Electronic Propulsion Control Systems
- P-27 Electric/Electronic Steering Control Systems
- T-17 Compass Installation

In addition, there are 3 new standards were developed and published in July, 2013 release.

- C-1 Primer Bulbs
- C-2 Carbon Canisters
- S-31 Environmental Considerations for Systems and Components Installed Onboard Boats

**Standards Development and Review:**

A review of ABYC H-41 *Reboarding Means, Ladders, Handholds, Rails, and Lifelines* was completed and the revised standard will be included in the 2014 publication. The revision included lengthening the reboarding ladder to 22 inches below the water surface. This revision targets propeller injury mitigation based on previous ABYC/USCG study.

Evaluation of stability and capacity requirements for small craft continued, in addition to the development of revised seat testing criteria. ABYC also provided support for USCG end swapping testing.

**Project Technical Committees:**

The following PTC meetings or webinars were held:

- Fuel and Ventilation Systems
- Hull and Deck Structures
- Thermal Appliance
- Boat Services

Several subcommittees also met: A-7, Liquid and Solid Fueled Boat Heating Systems subcommittee; H-40, Anchoring, mooring, and strong points subcommittee; H-31 Seat Structures subcommittee.

Tri-fuel testing (gasoline, isobutanol, ethanol) with industry partners occurred during this quarter. Research and investigation into stability and capacity for fly bridges and vessels 26' and greater was conducted.

The annual Technical Board meeting was also held (September, 2013).

**Outreach:**

A number of liaison meetings and industry events were attended:

American Boating Congress (ABC)

BoatU.S.

SAE

NFPA

NAMS

UL

NBSAC

These meetings are part of the outreach efforts to keep boating safety and the standards in the forefront of the industry and the boating public.

ABYC presented an update on the standards at the SAMS conference held in September, 2013.

Presentations were also made at the NMMA Engineering Compliance Seminar in December, 2013. In addition, ABYC participated on the NMMA Certification Committee.

**Support of USCG Outreach at IBEX:**

ABYC organized the "Compliance and Coffee" event at IBEX. This event is geared to boat builders for the understanding and adherence to the USCG regulations and ABYC standards. Logistical support was also provided for the delivery and return of the USCG booth materials.

**Voluntary Standards Coordination:**

Review of UL standards for assimilation and publication by ABYC continued. The standards list for the USCG factory inspectors was also updated. ABYC also participated in NASBLA ERAC conference calls and in the SAE standards review. ABYC was also involved in the US-Canada RCC Transport meetings and coordinated with CARB concerning future regulations relating to gasoline fuel systems.

**ISO:**

ABYC is the US liaison for ISO, the International Organization of Standards, and as such is a principal resource for the development of international standards. The following ISO documents had review due dates during this year.

DIS 9094 Small craft – Fire Protection

N1277 Small craft - Test bed measurement of gaseous and particulate exhaust emissions from reciprocating internal combustion engines

DIS 6185-3 Inflatable boats – Part 3: Boats with a maximum motor power rating of 15kW and greater

N1283 Performance and Testing of LED Navigation Lights

FDIS 7840 Small craft – Fire-resistant fuel hoses

FDIS 8469 Small craft – Non-fire resistant fuel hoses

FDIS 10088 Small craft – Permanently installed fuel systems

N1286 Draft NWP 15085 Small craft – Man-overboard prevention and recovery

TR 4558 Small craft – Rigging screws for stainless steel wire rope

N1335 CD 15085 Small craft – man-overboard prevention and recovery

ABYC, as the US Technical Advisory Group liaison, coordinated the review with US interests and submitted the US vote and comments for each document. This participation assures that international standards mirror US standards for boating safety.

In addition, ABYC attended numerous ISO working group meetings during METS representing ABYC and USCG interests. ABYC also worked with ICOMIA on the revision of ISO/ABYC conformity documents and attended the ICOMIA Technical Committee meeting.

**Other:**

ABYC hosted the USCG Non-Profit Grants webinar.