

Meeting Report  
ISO TC 188 WG 10  
Paris, France  
June 27, 2011

Technical Committee 188 – Working Group 10, Electrical Equipment

ISO 13297, Electrical Systems, AC

1. Discussed the ABYC requirement of connecting the AC and DC ground system. Though this requirement has been carried over to the ISO requirements, it was acknowledged that EU boats do not follow it. This requirement will be generalized to allow a fault to be cleared from either system through any means.
2. Discussed the scope of the standard which was proposed to be increased to 60v or 75v or even 120v. This will be further discussed at the next WG meeting at METS.
3. Systems with multiple battery banks shall have a common negative connection, except for dedicated and isolated power sources.
4. Next Actions: Address all comments at the next WG meeting.

ISO 10133, Electrical Systems, Extra low voltage DC installations

1. Changed the upper voltage limits for a 12v system from 15v to 16v and for a 24v system from 30v to 32v.
2. Next Actions: Address all comments at the next WG meeting.

ISO NWI 16315, Electric Propulsion

1. Increased the high end of VAC and VDC from 1000 to 1500.
2. Added IEC references.
3. Added the requirement for machinery space equipment to be operational at 60° C.
4. Added requirements for helm displays (voltage, motor rpm, running mode).
5. Will require labeling on components over 50VDC and 300VAC and added the electrical shock hazard graphic symbol.
6. The boat's propulsion electrical system operating over 50VDC and 300VAC should remain isolated from the boat's grounding system.
7. Added the requirement for risk identification (FMEA wording) and a ground fault monitor.
8. Next Actions: Continue with the draft standard review.

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