



University-National Oceanographic Laboratory System ~UNOLS~

Winch Requirements and Appendix B





UNIVERSITY NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM

RESEARCH VESSEL SAFETY STANDARDS

10th Edition



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Photo Credit: Capt. Doug Russell/ Univ. of Washington



Appendix B to the RVSS

UNOLS Overboard Handling Systems Design Standards and Criteria for the Design and Operation of Overboard Handling Systems.

Objective

Appendix B provides a unified code of practice for the design and operation of overboard handling systems used onboard vessels in the UNOLS Fleet. It is not intended to supersede existing regulations. It is intended only to better define acceptable design limits, procedures, documentation, and capabilities for overboard handling systems used specifically for modern oceanographic research.



Regulation behind Appendix B

US Code of Federal Regulations 46 CFR 189.35-9

(1) Wet Weight Handling Gear: Wet gear shall be considered to consist of gear used to lower equipment, apparatus or objects beneath the surface of the water or for trailing objects, where the wire rope or cable is payed out beneath the surface and becomes part of the line pull at the head sheave or winch drum. *Wet gear shall be designed, as a minimum, to withstand and operate in excess of the breaking strength of the strongest section or wire to be used in any condition of loading. The safety factor for all metal structural parts shall be a minimum of 1.5; i.e., the yield strength of the material shall be at least 1.5 times the calculated stresses resulting from application of a load equal to the nominal breaking strength of the strongest section or wire rope to be used.*



Compliance Criteria

Existing Systems- Overboard Handling Systems and Components- Testing in lieu of engineering analysis is allowed.

New Systems- Require complete engineering analysis and documentation verifying structural integrity and limits.

Waiver Process- RVOOC Safety Committee has a process whereby operators can request a waiver of compliance in cases where it is not possible or is cost prohibitive to meet all requirements.



Compliance Date for Appendix B-

Date of Application for an Existing OHS / Component
Overboard Handling System (OHS) and components already in existence, or those completed before the applicable date above, are to be brought into compliance with these standards by **07/15/2016**.