

NATIONAL SCIENCE FOUNDATION SHIP INSPECTION PROGRAM



2020 RVTEC MEETING
Ted Colburn



Naval Architecture
Marine Engineering
Marine Surveying
Salvage Engineering

Purpose

The major purposes of the NSF Ship Inspection Program are:

- 1.To assure that the capabilities of the research vessel and technical support meet accepted scientific community standards and expectations;
- 2.To assure the seaworthiness and safety of research vessels supported by NSF meet or exceed the standards set forth by the *UNOLS Research Vessel Safety Standards (RVSS)*, and applicable requirements of the International Maritime Organization, American Bureau of Shipping (ABS), the Code of Federal Regulations (CFR), and the U.S. Coast Guard;
- 3.To ensure NSF-owned ships as capital assets, are being adequately maintained;
- 4.To ensure NSF-funded science is scheduled on properly outfitted and maintained vessels.

Completed since last RVTEC

- RV SPROUL
- RV PELICAN
- RV SIKULIAQ
- RV PACIFIC STORM
 - Operated by UNOLS member OSU but not a ARF vessel
- Similarly we previously inspected RV HOGARTH and RV WEATHERBIRD II operated by UNOLS member FIO

Completed since last RVTEC

- RV KILO MOANA CTD Winch and LARS Sea Trials by telepresence

Upcoming Inspections

- Inspections have been on hold since March to extend through at least 2020
- NSF intends to restart inspections sometime in 2021 and the operators are beginning to look at possible dates

Inspection process in brief

- NSF sends a pre-inspection information request to the vessel's operator.
- We come aboard, usually 3 from JMS
 - Blake – operations, safety, & habitability
 - Bill or Jack – hull, mechanical, & Electrical
 - Ted - science support
- And one or more NSF representatives

Inspection process in brief

- One day or two in port and one at sea
- Operate all systems where reasonable
 - Exercise systems various modes and safety's
 - We don't require operation if ship's personnel are not comfortable
 - Review material condition and procedures
- Provide an exit brief
- Provide a brief letter summary
- Deliver a report

Observations & Areas for Improvement:

- **Appendix A - UNOLS Rope and Cable Safe Working Standards**
- Appendix A assist sheet is available
- **Appendix B - Overboard Handling Systems**
- OHS Appendix B assist sheets are available with thanks to Aaron Davis, West Coast Winch Pool, for developing these
- None of the vessels we have inspected are in full compliance with A&B

Questions?



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