

## SIO Shipyard Representative Bi-Weekly Progress Report

<b>Project: AGOR 28</b>	<b>Contract No.: N00014-12-C-0305</b>	<b>Shipyard: Dakota Creek Industries</b>
<b>Prepared by:</b> Paul D. Bueren Scripps Institution of Oceanography (SIO) 297 Rosecrans St. San Diego, CA 98106	<b>Date:</b> 12 December 2015	<b>Program Officer:</b> Robert (Tim) Schnoor Office of Naval Research 875 Randolph St ONR 321 Arlington, VA 22203-1995
<b>Distribution Statement A:</b> Approved for public release; distribution unlimited.		<b>Report No. A002.089</b>

1. Meetings:

- Attended weekly conference call

2. The following Shipyard Question Submittals were reviewed and commented on:

No questions this reporting period

3. Logistics:

- Continuing to work on initial outfitting lists for Sally Ride.
- Working on NS5 Hierarchy
- Additional firefighting gear schedule for delivery Anacortes before the Christmas holiday.. Local vendor lined up for filling SCBA Bottles.

4. Operator Concerns:

- **Main Deck Noise Levels** – No changes this reporting period. Waiting for report from Noise Control Engineering.



# Report Documentation Page

Form Approved  
OMB No. 0704-0188

Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

1. REPORT DATE <b>DEC 2015</b>		2. REPORT TYPE		3. DATES COVERED <b>00-00-2015 to 00-00-2015</b>	
4. TITLE AND SUBTITLE <b>AGOR 28</b>				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>Scripps Institution of Oceanography (SIO), 297 Rosecrans St., San Diego, CA, 98106</b>				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT <b>Approved for public release; distribution unlimited</b>					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT <b>unclassified</b>	b. ABSTRACT <b>unclassified</b>	c. THIS PAGE <b>unclassified</b>			

- **December Dry Docking Canceled** – The floating dry dock is not certified so the docking has been canceled.
- **Anchor Windlass** – The program office is working on a chain measurement plan that can be performed without being in dock.
- **Steering Hydraulics** – Reports from Armstrong indicate that the system hydraulics over heat during DP operations. There are also reports that while in tropical conditions and while in auto pilot, the hydraulic oil temps are warmer than expected. The OEM recommends a normal maximum operating temperature of 125-degrees F. A cooler may be necessary to correct this issue.
- **Uncontaminated Sea Chest** – Reports from Armstrong indicate that the Uncontaminated/Incubator sea water systems lose suction when the sea chest opening comes out of the water. Sea chest may require relocation to a position aft and/or further below the waterline.
- **CTD Handling Device** – Cylinder to be reinstalled and commissioning to resume after the Thanksgiving Holiday. No movement on this as of this report.
- **Deck Machinery** – Weight testing of Stern Frame and Main Crane has not been done. Wire has not been spooled on any of the winches.
- **Test & Trials** – The pace has slowed again. By my count, the completion numbers are as follows:
  - Vendor Commissioning – 33 total procedures with 15 @100%. No change since last report. Commissioning of the RO's. Purifiers and Refrigeration Systems started.
  - DCI Test & Trials – 125 total procedures with 77 @ 100%. Plus 8
  - Dock Trials, Builders Sea Trial and Acceptance Trials – 12 @ 0%  
Looking forward to next report T&T report from DCI.
- **Acoustic Tiles & MLV** –No additional information on what materials are to be used for the Traction Winch Room or MMR bilge tops, if any. **Sanitary Construction Cert** – DCI was not able to obtain the FDA Certificate of Sanitation for Armstrong because the sewage discharge is ahead of the water maker suction.
- **Ride Anti-Fouling Paint** – The anti-fouling paint has failed due to an application error. The yard will correct this issue during a planned docking prior to Builder's Trials. With the dry docking cancelled the paint repairs will most likely be during Phase III if it occurs at DCI.

#### 5. Sally Ride Progress:

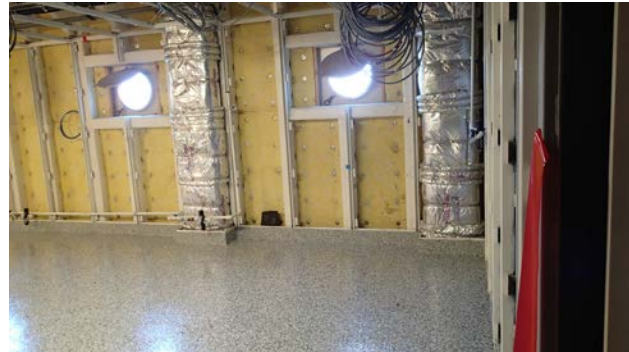
- Accommodation Spaces – DCI continues with the cleaning and prepping of staterooms for close-outs.
- Galley & Mess – The exhaust hood wash-down system cabinet has been installed, plumbed and connected to electrical service. Yard will next install the wash-down spray bar and drain hose.
- 

#### *Galley Hood Wash-down System Control Cabinet*



- Laboratories – Main Lab deck treatment completed. Ceiling panels and lighting are being installed in the Wet Lab.

*Main Lab Deck*



*Wet Lab Overhead Ceiling Panels*



- Fire Main Commissioning – The fire pumps and piping were tested with Coast Guard in attendance. No issues or discrepancies noted.

*Two simultaneous 2 1/2 inch streams*





- Battery Chargers – The yard has replaced all of the original 100 Amp chargers with new. Two 65 Amp units were installed in place of each of the single unit. This will add redundancy as a single 65 Amp charger can meet the demand of the connected circuit.



- DC Ground Issues – Cummins is on board working on isolating the engine DC circuits from the vessel.
- Engine Emergency Stop Circuit – Cummins & Siemens have corrected the emergency stop issues. The generator breakers now open immediately on receiving the emergency stop signal. Originally the trip was wired for a delayed shutdown, which caused the breaker to remain closed while the engine shutdown, resulting in a reverse power relay trip.
- Periodic Safety Test Procedure – Complete the Kongsberg K-Thrust portion of the PSTP with USCG in attendance. All tests were completed without faults.
- Watertight Testing – Completed the watertight testing of all exterior windows from the pilot house to the main deck. No issues or leaks.



6. Call-outs

422-001-3	Navigation, Signal & Search Lights Demonstration	11/30/15 Completed
514-003-3	Single Cooling A/C Units Operational Test	12/4/15 In progress
516-001-3	Scientific Refrigeration Plants Test	12/4/15 In Progress – adjustments and lagging need to be completed. System is operational
516-002-3	Ship Stores Refrigeration Plants Test	12/4/15 In Progress – System is operational
541-001-3	Fuel Oil Service & Purification System Operational Test	12/3/15 Vendor on board but parts missing. No progress.
514-001-3	Chiller Start-up & A/C Test	12/4/15 In progress.
443-001-3	Ships Whistle Demonstration	12/3/15 Completed with USCG in attendance.
432-001-4	Sound Powered Telephone System Test	12/3/15 Completed with USCG in attendance
514-002-3	Compartment Heaters Demonstration	11/30/15 All but one heater tested. Will complete once UPS isolation transformer is installed and interference removed.
532-003-3	Potable Water R/O Units Operational Test	Upon completion of Commissioning that starts 11/30/15 Vendor had issues with the hp pumps on both units. Trouble shooting is on going
541-003-3	Fuel Oil Fill & Transfer System Operational Test	11/30/15 Complete with the testing of the stripping system.
521-001-3	Firemain System Operational & Unobstructed Flow Test	12/3/15 Completed with USCG in attendance
436-001-4	Fire Detection System Operation Test	12/3/15 Completed with USCG in attendance.

8. DRL's

1st App Hull No	DRL No	Document Title	Occur No/Rev No