

Status on Test, Trials and Delivery

- R/V Neil Armstrong (AGOR 27)
 - Completed Builder's Sea Trials in May
 - Completed Vendor Grooming, power runs, maneuvering runs, and noise & vibration measurements. Also completed DP Grooming and Trials and further propulsion system grooming. Conducted dock tests of winches and handling systems.
 - Mock INSURV completed with some demonstrations redone or deferred to June/July
 - May 6-8 SONAR Self Noise testing cruise to waters outside Puget Sound,
 - Some bubbles when headed into seas (SS3-4) with pitching; cavitation from leading edge
 of bilge keels (easily fixable) and some cavitation from props that may be caused by
 raised bolt heads and keeper bar (needs further investigation).
 - August 3rd Acceptance Trials, Navy INSURV
 - September 23rd Delivery
 - September/October/November Fitting Out Availability and installation of Acoustic Systems & Mission Equipment.
 - Mission Equipment availability now being competed due to schedule conflicts at DCI.

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- R/V Sally Ride (AGOR 28) tentative according to DCI
 - Currently undergoing outfitting and some testing
 - Mostly pulling wires, installing piping and joiner work
 - Began completion of noise dampening and insulation
 See slide on MLV
 - Handling equipment and winches being installed.
 - Load Bank Testing of Generators took place in May
 - Commissioning of various systems on-going
 - Fall/Winter complete commissioning and Builder's trials
 - 11 January 2016 Acceptance Trials, Navy INSURV
 - Late February/Early March 2016 Delivery (anticipated date)
 - March/April/May Fitting Out Availability and installation of Acoustic Systems & Mission Equipment.

Construction Progress

R/V Sally Ride (AGOR 28)









Post Delivery – Science Verification

- Before the R/V Neil Armstrong can be designated as a vessel operating within the University-National Oceanographic Laboratory System (UNOLS) fleet and capable of full-scale science operations, she must undergo a series of post-delivery tests, evaluations, and inspections.
 - Currently scheduled for sixty-five days after the transit to the Gulf of Mexico and completion of Phase III science mission equipment installation and testing with some testing activities during the transit. The actual amount of time will depend on the final schedule of events.
- Some of the purposes of the science verification program is to characterize science system performance, identify areas that require modification or enhancement and provide the opportunity to create ship-specific operating and safety procedures.
- WHOI has created a draft plan and working to finalize it.
- As the plan is developed WHOI has requested input from their own Marine
 Operations Committee, the Ocean Class Advisory Committee and other interested
 members of the community.
- The Science Verification Period will culminate with an NSF style Inspection and designation as a UNOLS Vessel by the end of March, 2016.
- The Navy will conduct final acceptance trials with INSURV later in 2016.

Post Delivery – Schedule – AGOR 27

Tentative as of July 8, 2015

	Dep/Arr	Start Port/End Port	Purpose	Duration
•	23 Sep Anaco	rtes	Delivery	
•	24 Sep/23 Oct	t Anacortes/Anacortes	Fitting Out Avail.	30 Days
•	24 Oct/17 Nov	v Anacortes/Charleston	Transit	25 Days
•	18 Nov/21 Jar	n Charleston/Charleston	Mission Equipment	65 Days
			Installation & Testin	ng
•	22 Jan/27 Jar	n Charleston/Woods Hole	Transit	6 Days
•	30 Jan/22 Apı	r Woods Hole/Woods Hole	Shakedown/Outfitting, Verification	/Science

THE FOLLOWING ELEMENTS ARE SUBJECT TO NEGOTIATION & FINAL PLANNING

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- April/May
- July August
- September/October

NSF Inspection/UNOLS Designation

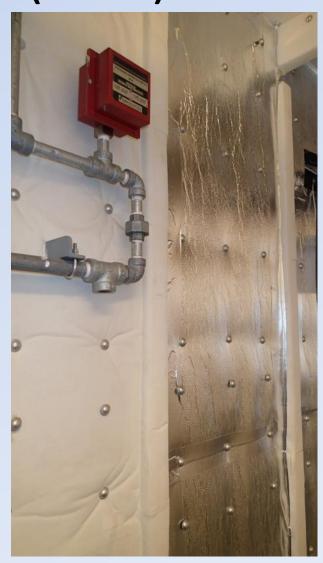
Available for Scheduling

Final Contract Trials/INSURV

Post Shakedown Availability

Mass Loaded Vinyl (MLV)

- Mass Loaded Vinyl is used as a sound dampening material to achieve Airborne Noise Requirements. Alternative to lead – dense and thin.
- Used on NOAA FRV's, Sikuliaq, and many other ships around the world.
- Coast Guard NVIC (notice) last year indicated that this material was not approved by SOLAS or Coast Guard. Coast Guard to work with vessel owners/shipyards if material is installed or being installed.
- Dakota Creek (DCI) received notice from Coast Guard to stop installing MLV on Sally Ride (about 30% complete).
 Armstrong was complete.
- DCI has recently received notification that an alternative MLV material was approved with certain installation methods. DCI has started installing this material in *Ride*. Impact on Schedule not known, some delay, but DCI still indicates October delivery date.
- Coast Guard Determination will affect many ships and is not expected prior to delivery of ARMSTRONG. Coast Guard plans to issue a COI without any reference to MLV issues.
- NAVSEA completed independent fire safety testing on the installed materials.



Un-approved

Approved

