

SIO Shipyard Representative Bi-Weekly Progress Report

Project: AGOR 28	Contract No.: N00014-12-C-0305	Shipyard: Dakota Creek Industries
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1. Meetings:

- i. Participated in weekly conference call.
- ii. Participated in Sally Ride Noise FAT's at B&G Machine.
- iii. Participated in Pilot House Arrangement Discussions.
- iv. Participated in Auto Pilot Modes of Operation Discussions.

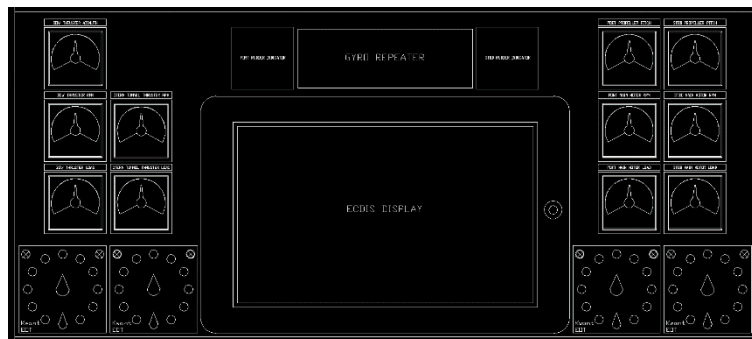
2. The following Shipyard Question Submittals were reviewed and commented on:
No questions issued for this reporting period.

3. Logistics:

- i. Continuing to review Vendor Recommended Spares (VRS).
- ii. Continuing to review Technical Manuals and Supplemental Information.
- iii. The first buy-list for spare parts is near completion and funding.

4. Other Work Items:

- Pilot House Console Face Arrangements –
 - ✓ The operators provided a detailed review of the pilot house face arrangements.
 - ✓ Operator comments were then used to make cut and paste drawings of the center helm station and the wing consoles. Comments on the fiddle board were also provided.
 - ✓ ALION used photos of these drawings to produce detailed CAD versions for review and comment.



- ✓ The operators were able to come to a consensus on the arrangements, which will now be presented to DCI and Mackay for comment.

Report Documentation Page

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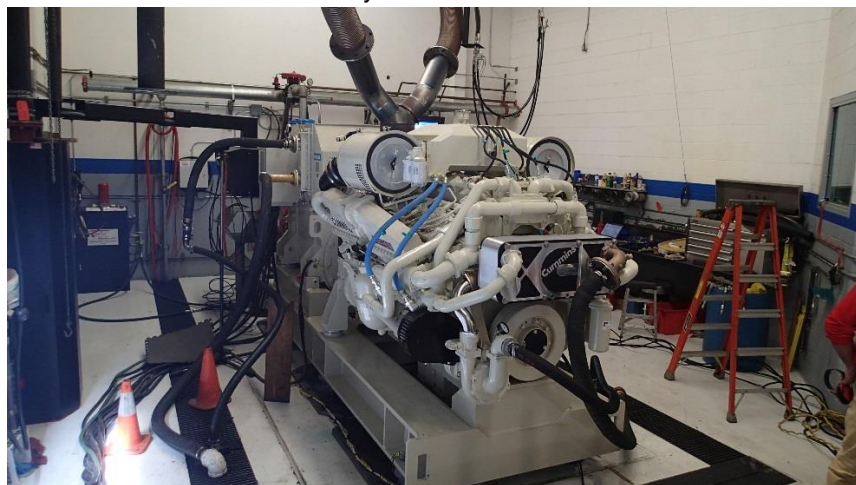
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- Autopilot – The operators are looking for more clarity on exactly how the Kongsberg Autopilot will function. In particular, how will the six power modes be used, if at all, and will the operators be able to control the pitch and rpm independently using the “combinator” propeller controls.
- Sally Ride Genset Noise FAT's
 - ✓ Attended 3 of the 4 scheduled Generator Noise/Vibration FAT's at B&G Machine in Seattle.
 - ✓ For Sally Ride, NCE went with a 24-channel set up and was able to collect all of the data in one 90-minute period (12-channel set up for Armstrong). Each corner of the engine had two tri-axial sensors placed above and below the vibration mounts. Sound levels were also recorded at various loads, including 100 and 110%.
 - ✓ The Genset mounting arrangement had a significant change from how Neil Armstrong Genset's forward mounts were attached to the test bed from those of Sally Ride. For Neil Armstrong, the forward mounting feet extend beyond the isolated slab. For the Sally Ride, all the mounting feet are within the isolated slab boundary. The boundary is the light gray outline. Other photo's, while not as clear, indicate that this was not an issue with the aft mounts (generator end) for either vessel.

Neil Armstrong Forward Mounts:



Sally Ride Forward Mounts:



- ✓ At this time it is not known what affect this will have on the noise and vibration readings. There were some anomalies on the sole set of readings taken for Neil Armstrong, so differences are to be expected.

- Transceiver Room Arrangement - Operators are to provide details of the type, size and location of the equipment racks for the transceiver room. Details of mounting arrangement are also requested. A mounting bracket for the EK60 is also being developed by ALION for installation prior to Phase III.
- Sally Ride Lube Oil Storage Tanks – ABS inspected the P&S lube oil storage tank structure. A pressure test was also witnessed by ABS. No reportable discrepancies were noted.

5. The following DRL's were reviewed and commented on:

1st App Hull No	DRL No	Document Title	Occur No/Rev No
AGOR27	A025	STD Report - NOISE CONTROL PLAN (NCP MAY 2013)(R/ASR)	2/0
AGOR27	A027-15	DWG Report - INTERIOR COMMUNICATION SYSTEM BLOCK WIRING DIAGRAM (INTERIOR COMMUNICATIONS PLAN)(R/ASR)	4/0
AGOR27	A033-03	STD Report - QUARTERLY WEIGHT REPORT (QUARTERLY WEIGHT REPORT)	3/0
AGOR27	A035-21	STD Report - SSV FACTORY ACCEPTANCE TEST (FAT) REPORTS (DTR-124 SSV Factory Acceptance Test - Switchboards)(R/ASR)	27/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72007-05 HVAC System - ABB ACS550 Series Frequency Converters)(R/ASR)	510/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72007-06 HVAC System - ACS800 Series Frequency Converters)(R/ASR)	512/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72007-10 HVAC Equipment Fire Dampers)(R/ASR)	516/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72007-15 HVAC Actuators for Fire and Shut-Off Dampers)(R/ASR)	540/0
AGOR27	A055	TM Report - COMMERCIAL TECHNICAL MANUALS AND SUPPLEMENTAL DATA (#175 DI-055 (TM) for 512 ABB ACS550	343/0

		Series Frequency Converters)(R/ASR)	
AGOR27	A027-40	DWG Report - COMPARTMENT ARRANGEMENT DRAWINGS (PILOTHOUSE ARRANGEMENTS)(R/ASR)	4/1
AGOR27	A035-13	DWG Report - MCSC AND SCC FACE ARRANGEMENT (436-200 Rev C AGOR Console Face Arrangement)(R/ASR)	3/1
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (PL 72566-01 NR Woodward DSLC-2)(DARC REV)	479/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72007-04 HVAC AHU AC110)(R/ASR)	514/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72015-15 Alfa Laval Defender 500 Centrifuge)(R/ASR)	518/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72015-16 Geislinger BF502H Butterfly Misalignment Coupling Hub)(R/ASR)	520/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72015-17 Geislinger Steel Coupling)(R/ASR)	522/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72016-01 Bow Thruster)(R/ASR)	524/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72007-16 HVAC AHU AC120)(R/ASR)	526/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72007-17 HVAC AHU AC130)(R/ASR)	528/0
AGOR27	A051	STD Report - VENDOR RECOMMENDED SPARES (VRS) LISTINGS, STATISTICS, AND LOCATIONS (DI-051 (VRS) for PL 72007-18 HVAC AHU140)(R/ASR)	530/0