


Test Case ID: 001, Ver-CG-67	Test Case Name: VE-CG-3100 Inspections		Test Plan Document No.: 3167-20000	Test Plan Rev.: 2-00	Test Date:
Test Director (Print Name) Ed Dever	Signature in lieu of electronic signature	Design Engineer	Approval Signature John S. Dingess in lieu of electronic signature		Date 10-11-2012
Test Conductor (Print Name) David Neiman	Signature 	System Engineer	Approval Signature Ed Dever (in lieu of electronic signature)		Date 10/15/2012
Witnessed by (Print name)	Signature	QA/QC Engineer	Approval Signature		Date

Test Class	<input checked="" type="checkbox"/> Performance	<input checked="" type="checkbox"/> Behavioral	<input type="checkbox"/> Reliability	<input type="checkbox"/> Endurance / Longevity	<input type="checkbox"/> Survivability	<input type="checkbox"/> Safety
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Test Description
The glider and its documentation will be inspected by CGSN personnel to confirm presence of communications equipment, glider controls, sensors, glider markings, transportation case, and necessary tools and supplies for functional glider tests. All purchase and quality documents will be presented and reviewed. Included will be reviews of instrument documentation to confirm all instrument meet mobile platform specifications.

Requirements Addressed
Glider: L4-CG-GD-RQ-214, L4-CG-GD-RQ-120, L4-CG-GD-RQ-155, L4-CG-GD-RQ-89, L4-CG-GD-RQ-167, L4-CG-GD-RQ-168

Test Setup	Test Artifacts
The complete glider will be available. All equipment, tools, and supplies required to operate the glider will be present. All instrument documentation, including calibration records and operating documents, will be present. Calibration sheets and TWR purchase specifications (referenced in the instrument verification section of this document) are attached in the 'test artifacts' section. The TWR purchase specifications include the instrument manufacturers' published specifications.	This document Glider "blue book" containing manufacturing and test records and sensor documentation (kept at TWR). Other relevant information supplied by vendor List of required equipment

Test Procedure				Test Results		
Step No.	Instructions	Expected Results (Accept Criteria)	Requirement ID	Test Data	Pass/Fail	Notes/Waiver No.
1.1	Inspect the build documentation	The glider is equipped with a pump head optimized for the 1000m depth, installed within the vehicle.	L4-CG-GD-RQ-214			
1.2	Inspect the communication file transfer code	Open-ocean glider communications protocol employs an error detection/correction protocol.	L4-CG-GD-RQ-120			

Test Procedure				Test Results		
Step No.	Instructions	Expected Results (Accept Criteria)	Requirement ID	Test Data	Pass/Fail	Notes/Waiver No.
1.3	Inspect acoustic modem documentation	The open ocean glider acoustic link communications protocol employs a CRC error detection/correction protocol.	L4-CG-GD-RQ-155			
1.4	Inspect the mission planning suite.	A mission planning program, spread sheet, model, or algorithm is provided to estimate glider energy requirements and communications bandwidth usage for operational scenarios and sensor payloads.	L4-CG-GD-RQ-89			
1.5	Analyze ballast range	The glider can be ballasted to cover the range of water density from (0PSU, 30°C) to (40PSU, -2° C)	L4-CG-GD-RQ-167 L4-CG-GD-RQ-168			