



Verification Procedure & Results Document No.: 3167-10111 rev A

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| Test Case ID: 011, Ver-CG-47 | Test Case Name: Recovery, Oregon Shelf | Test Plan Document No.: 3167-10000 | Test Plan Rev.: 2-00 | Test Date: |
| Test Director (Print Name) | Signature | Design Engineer | Approval Signature John S. Dingess (in lieu of electronic signature) <TWR> | Date 9/29/2011 |
| Test Conductor (Print Name) <TWR> | Signature | System Engineer | Approval Signature Ed Dever (in lieu of electronic signature) | Date 9/30/2011 |
| Witnessed by (Print name) | Signature | QA/QC Engineer | Approval Signature <i>George Dussault</i> (In lieu of electronic signature) | Date 10/03/2011 |

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|-------------------|---|--|--------------------------------------|--|--|---------------------------------|
| 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
 In this test, the glider will be recovered at a site on the Oregon Shelf. To the extent possible, the recovery will be performed using production-deployment techniques. As with the Atlantic-shelf recovery (TC-007), both conventional and nose-spool recoveries will be performed.

Requirements Addressed
 L4-CG-GD-RQ-216

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| <p>Test Setup</p> <p>The glider will be return along approximately 44.6N latitude to a planned recovery point west of Newport, OR. Exact recovery location will depend on ocean/weather conditions prevailing at the time. Necessary for testing is a Dockserver computer with FreeWave capability and a vessel (currently planned as R/V Elakha) capable of reaching the recovery location. A TWR representative will pilot the glider during recovery.</p> <p>This test case is designed to exercise both the conventional recovery techniques used by gliders without the nose-spool recovery system and to demonstrate the nose-spool capability for evaluation as a production-glider feature. As noted above, the recovery sequence can either be a recovery without using the nose spool followed by a relaunch and nose-spool recovery or a recovery using the nose-spool method alone.</p> | <p>Test Artifacts</p> <p>This document Recovery cruise plan Notice to Mariners</p> |
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| Test Procedure | | | Test Results | | | |
|----------------|--|--|-----------------|-----------|-----------|-------|
| Step No. | Instructions | Expected Results (Accept Criteria) | Requirement ID | Test Data | Pass/Fail | Notes |
| 1 | Recover the glider per TWR recommended procedures from a suitable vessel | Recovery will be successful without requiring special/powered equipment. "Special" equipment does not include equipment provided as standard with the glider. "Powered" equipment does not include standard ship equipment such as an A-frame and winch. | L4-CG-GD-RQ-216 | | | |