

Verification Procedure & Results

Test Procedure Document No.: 3166-80102	Test Procedure Rev.: 1-00
Test Plan Rev.: N/A	Test End Date:
Test Plan Document # 3166-80000	Approval Signature
Test Director (Print Name)	Approval Signature <i>Sheri N. White</i>
Witnessed by (Print name)	Approval Signature <i>Gary Cook</i>
DOORS Verification Procedure ID Ver-CG-181	DOORS Verification Event ID CG-VE-3082
Test Results Reviewed	QA:
	Date
	Date

Test Case Name: DOORS Report – Lower Level Requirements Verified		Test Plan Document # 3166-80000	Test Plan Rev.: N/A	Test End Date:
Test Conductor (Print Name)	Signature	Design Engineer (Print Name) N/A	Approval Signature	Date
Test Director (Print Name)	Signature	System Engineer (Print Name) Sheri N. White	Approval Signature <i>Sheri N. White</i>	Date 2014-09-15
Witnessed by (Print name)	Signature	QA/QC Engineer (Print Name) Gary Cook	Approval Signature <i>Gary Cook</i>	Date 4/22/14
DOORS Verification Procedure ID Ver-CG-181	DOORS Verification Event ID CG-VE-3082	Test Results Reviewed	QA:	Date
				Date

Test Description
This verification procedure performs an audit of child L4 requirements to verify conformance to requirements.

Requirements Addressed

L3-CG-RQ-166: CGSN Platform telemetry links shall support standard protocols.

L3-CG-RQ-305: Wire-Following Profiler Mooring profilers shall measure Conductivity, Temperature, and Depth (CTD).

L3-CG-RQ-306: Wire-Following Profiler Mooring profilers shall measure Dissolved Oxygen (DO).

L3-CG-RQ-307: Wire-Following Profiler Mooring profilers shall measure three axis point water velocity.

L3-CG-RQ-308: Wire-Following Profiler Mooring profilers shall measure Chlorophyll a Fluorescence, CDOM Fluorescence, and Optical Backscatter.

L3-CG-RQ-309: Wire-Following Profiler Mooring profilers shall measure Photosynthetically Active Radiation (PAR).

L3-CG-RQ-430: CGSN moorings shall be designed to survive 100 year return period extreme waves, winds, currents, and tides.

L3-CG-RQ-431: CGSN Moorings shall be designed to sustain conditions defined by the 30 year return period extreme waves, winds, currents, and tides.

L3-CG-RQ-432: Procured CGSN platforms and components shall be provided with transportation cases that meet or exceed, ASTM-D3951 "Standard Practice for Commercial Packaging."

L3-CG-RQ-433: CGSN subsea components shall operate at their deployment depths.

L3-CG-RQ-438: The CGSN infrastructure design shall be modular and expandable.

L3-CG-RQ-439: The CGSN infrastructure design shall use common interfaces.

L3-CG-RQ-444: The CGSN infrastructure shall provide at least single fault tolerance for all elements, where practical.

L3-CG-RQ-477: CGSN Coastal Arrays shall be designed so that installation and maintenance can be performed with UNOLS Intermediate Class vessels.

L3-CG-RQ-485: CGSN shall store data until it is published.

L3-CG-RQ-494: All CGSN assets, excluding Surface Buoy buoyancy material, shall be designed to fit within one or more standard ISO shipping containers in assembled or partially disassembled form.

L3-CG-RQ-495: CGSN platforms shall UTC time-stamp stored data from resources on the platform including all core instruments and engineering sensors.

L3-CG-RQ-496: The designed deployment interval for Coastal moored assets shall be six months.

L3-CG-RQ-499: CGSN platforms shall be designed to operate in conditions and locations defined in their respective Site Characterization documents (see Section 2.3)

L3-CG-RQ-555: CGSN coastal assets shall be designed for retrieval of all infrastructure, including the anchor.

L3-CG-RQ-595: Wire-Following Profiler Mooring profilers shall profile the vertical water column no less than four times per day.

L3-CG-RQ-800: CGSN Moorings shall be designed to operate in conditions defined by the 10 year return period extreme waves, winds, currents, and tides.

L3-CG-RQ-855: CGSN platforms shall measure platform orientation.

L3-CG-RQ-856: CGSN platforms shall measure platform motion.

L3-CG-RQ-867: CGSN infrastructure and assets that are subject to performance degradation due to bio-fouling shall utilize biofouling reduction techniques, with the goal to enable nominal operations over the defined deployment interval.

L3-CG-RQ-885: Standard oceanographic engineering designs, details and practices shall be used where possible.

L3-CG-RQ-922: All CGSN coastal moored assets shall be designed for a maximum deployment depth of 600 m.

L3-CG-RQ-923: CGSN subsea components shall be designed to sustain pressures equivalent to 120% of their planned deployment depths.

L3-CG-RQ-987: CGSN shall include design features that support prevention of damage to system components.

L3-CG-RQ-993: CGSN shall provide identity authentication functionality to control access to computational resources.

L3-CG-RQ-1003: CGSN Platforms with a surface expression or that periodically surface, such as surface-piercing profilers and gliders, shall time sync internal clocks via GPS.

L3-CG-RQ-1006: CGSN Infrastructure design shall include features that support serviceability of the infrastructure.

Test Setup
Not required

Test Artifacts
Test Artifacts consist of the Pass/Fail results for steps contained within this procedure.

Test Procedure 3166-80102 Rev 1-00				Test Results		
Step#	Instructions	Expected Results	Requirement ID	Observed Results	Pass/Fail	Notes
1	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-166			
2	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-305			
3	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-306			
4	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-307			
5	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-308			
6	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-309			
7	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-430			
8	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-431			
9	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-432			
10	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-433			
11	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-438			
12	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-439			

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13	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-444			
14	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-477			
15	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-485			
16	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-494			
17	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-495			
18	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-496			
19	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-499			
20	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-555			
21	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-595			
22	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-800			
23	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-855			
24	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-856			
25	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-867			

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26	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-885			
27	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-922			
28	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-923			
29	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-987			
30	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-993			
31	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-1003			
32	Review the report produced by the DOORS script, or other method to trace Verification status of child requirements(s), and confirm all the child requirements of the L3 requirement have been verified.	All the child requirements of the L3 requirement have been verified.	L3-CG-RQ-1006			