

**Engineering Change Request Form**

<b>Change Request No.:</b> 1300-00352	<b>Date:</b> 3/29/2013	<b>WBS:</b>
<b>Control Account Name:</b> None	<b>Configuration Manager:</b> Chapman, Ed	<b>Control Account Manager:</b>
<b>SECTION TO BE COMPLETED BY PERSON REQUESTING CHANGE:</b>		
<b>Requestor:</b> Ed Chapman	<b>Telephone Number:</b> (202) 787-1662	
<b>Request Name (Include document number and revision level):</b> Sunburst SAMI-pH (PHSEN instrument) waiver		
<b>Description of Change (Include all related systems):</b> A Waiver is requested to use the SAMI-pH as a common OOI instrument.  OOI selected the instrument through a competitive Request For Proposal (RFP) process. This instrument was chosen in accordance with Source Selection Plan utilizing a highly skilled Source Selection Evaluation Board meeting the competitive procurement obligations of OOI. However, it does not meet the following requirements:  L4-CG-IP-RQ-443 The Instruments shall be capable of operating in water salinities from 0 to 40 PSU. L4-RSN-IP-RQ-583 The Instrument Packages shall be capable of operating in water with a salinity range of 0 to 40 PSU. L3-CG-RQ-862 CGSN infrastructure and sensors shall enable water column measurements in water salinities of 0 to 40 PSU. L3-RSN-RQ-640 All RSN water column instruments shall operate in water salinities of 0 to 40 PSU. L2-SR-RQ-3497 Water column properties shall be measured in water salinities of 0 to 40 PSU.  L4-CG-IP-RQ-294 Instruments shall be capable of having their sampling protocols modified remotely. L3-CG-RQ-761 CGSN platforms shall be capable of having their sampling or operational protocols changed remotely via CGSN assets. L2-SR-RQ-3190 OOI platforms and sensors shall have the capability to have their sampling protocols modified.  The attachment lists the requirement numbers, the requirement text, and the vendor's response to the requirement, and an assessment of the impact (or lack thereof).		
<b>Reason for Change:</b> While the selected instrument does not meet the requirements noted above, it provides the best value to OOI at this time.  This ECR is a Waiver Request submitted in accordance with the Procedure for Obtaining Waivers which resides in the Systems Engineering Process Library in Al Fresco. A waiver is a specific written authorization to accept a product which departs from specified requirements, but nevertheless is considered suitable for use "as is" or after modification by an approved method. A waiver states that a requirement does not need to be satisfied in order to pass a test of the related product. Waivers are associated with particular products and do not modify the requirement(s) in question. The procurement Source Selection and Evaluation Boards (SSEB) are authorized to procure products which deviate from the approved requirements in order to achieve the best value for the program. This scope of this ECR is whether the item is acceptable and the Waiver should be granted; it does not include the SSEB process.		
<b>Benefit to OOI:</b> This waiver allows the procurement and fielding of a best value instrument that has been procured through a competitive process.		
<i>Requestor Assessment of Impact to Control Account:</i>		
<b>Scope:</b> This range should be sufficient for all sites. Salinity data from the Coastal Pioneer and Coastal Endurance Site Characterization Papers fall within this range. Salinity data is not provided in the Global Site Characterization Papers.  These units are power and reagent limited, and will store data internally. So even though they cannot be controlled, they can provide data during the deployment.		
<b>Schedule:</b> No change.		
<b>Cost:</b> No change.		

**SECTION TO BE COMPLETED BY IO/SL CCB CHAIRPERSON:**

*Assessment of Impact to IO Project:*

**Master Schedule:**

No change.

**Project Cost:**

No change.

**Deliverables:**

No change.

**Potential Impact to Science and Design / As-built Capability:** No change. This instrument is the exemplar from the FND. The science capabilities of the OOI will not be impacted.

**Percent Impact on WBS elements(s) selected:** 0%

**Percent Impact on OOI:** 0%

**Contingency \$0**

**Contingency Schedule (weeks):** 0

**Signature of System CCB Chairperson:**

Ed Chapman (echapman@oceanleadership.org)

**Date:**

4/9/2013 2:00:00 PM

**Board Determination:**

Approved

***CERTIFICATION OF TECHNICAL DATA PACKAGE AND CONTROL SYSTEM UPDATE***

**Signature of Configuration Manager:**

Ed Chapman (echapman@oceanleadership.org)

**Date:**

4/25/2013 6:08:37 PM

**Systems and Documentation Updated:**

Confirmed Complete

**Attach supporting technical documentation and or additional comments as needed.**

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#	Reviewer	Date Added	General Comment	Requestor Response	CCB Decision	Lien
1	Al Plueddemann	4/2/2013	recommend approval			
2	Sheri White	4/2/2013	Recommend approval.			
3	Michael Vardaro	4/2/2013	Recommend approval. The salinity range restriction should not be an issue at most OOI sites, and the command and control issue will not prevent the instrument from providing the required long-term data record.			
4	David Neiman	4/2/2013	Recommend approval.			
5	Michael Zernick	4/8/2013	No comment.			

**Change Request No.:** 1300-00352**Request Name:** Sunburst SAMI-pH (PHSEN instrument) waiver**ECR Vote (Highest Level Board: System)**

<b>Title</b>	<b>Member Name</b>	<b>Delegate Name</b>	<b>Vote</b>	<b>Comment</b>
Cyberinfrastructure (CI) COTR	Phil Ardunay		Approve	
Project Manager	Matthew Arrott		Approve	
Project Scientist	Jack Barth		Approve	
Field Operations Coordinator	Liz Caporelli		Approve	
Chief Systems Engineer	Ed Chapman	Kathy Carr	Approve	
Former teammate	Alan Chave		Approve	
Deputy PM	Bob Collier		Approve	
OOI Program Director/PI	Tim Cowles		Approve	
Project Manager	Mike Crowley		Approve	
Program Director/PI	John Delaney		Approve	
Systems Engineer (PNW)	Ed Dever		Approve	
Principal Investigator	Scott Glenn		Approve	
COTR - Associate Project Manager RSN	Paul Hagstrom		Approve	
Project Management	Brian Ittig		Approve	
OOI Endurance Operations Manager	Tom Kearney		Approve	
Project Scientist	Deb Kelley		Approve	
Sr Project Manager	Mike Kelly		Approve	
Business Operations Manager	Ben Korin		Approve	
Program Manager and Chief Engineer	Paul Matthias		Approve	
COTR - Associate Project Manager EPE	Andrea McCurdy		Approve	
Senior Systems Engineer	Chuck McGuire		Approve	
Associate Director	Michael Mulvihill		Approve	
Principal Investigator for CI	John Orcutt		Approve	
Project Scientist	Al Plueddemann		Approve	
CGSN and EA COTR	Greg Settle		Approve	
Observatory Director	Julie Thomas	Rod Cressey	Approve	

Co-Principal Investigator	John Trowbridge		Approve	
Deputy Principal Investigator	Frank Vernon		Approve	
Program Director/PI	Bob Weller		Approve	
Lead System Engineer	Sheri White		Approve	
System Engineer	Joe Wieclawek		Approve	
Quality & Safety Manager	Michael Zernick	Emily Griffin	Approve	

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**ECR Liens/Action Items**

Lien	Due Date	Complete	Completion Date
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Action Item	Due Date	Complete	Cancel	Completion Date
Mark the Verification Status for the L2 requirements as "Waived" in DOORS.	5/6/2013	Yes	No	4/18/2013
Mark the Verification Status for the L3 requirements as "Waived" in DOORS.	5/6/2013	Yes	No	4/18/2013
Mark the Verification Status for the L4 requirements as "Waived" in DOORS.	5/6/2013	Yes	No	4/18/2013
Update "Approved Waiver-CM" attribute for affected L2 requirement (s) in DOORS with the ECR number of the approved Waiver.	5/6/2013	Yes	No	4/18/2013
Update "Approved Waiver-CM" attribute for affected L3 requirement (s) in DOORS with the ECR number of the approved Waiver.	5/6/2013	Yes	No	4/18/2013
Update "Approved Waiver-CM" attribute for affected L4 requirement (s) in DOORS with the ECR number of the approved Waiver.	5/6/2013	Yes	No	4/18/2013
Update the Verification Details for the L2 requirement(s) with a description of the affected product and an indication of the circumstances under which the requirement has been waived.	5/6/2013	Yes	No	4/18/2013
Update the Verification Details for the L3 requirement(s) with a description of the affected product and an indication of the circumstances under which the requirement has been waived.	5/6/2013	Yes	No	4/18/2013
Update the Verification Details for the L4 requirement(s) with a description of the affected product and an indication of the circumstances under which the requirement has been waived.	5/6/2013	Yes	No	4/18/2013
Baseline L2 Science Requirements module	5/2/2013	Yes	No	4/25/2013
Baseline L3 CG System Requirements module	5/2/2013	Yes	No	4/25/2013
Baseline L3 RSN System Requirements module	5/2/2013	Yes	No	4/25/2013
Baseline L4 CG Instrument Package module	5/2/2013	Yes	No	4/25/2013
Baseline L4 RSN Instrument Package module	5/2/2013	Yes	No	4/25/2013
Export updated L2 Science Requirements spreadsheet and post in Alfresco	5/2/2013	Yes	No	4/25/2013
Export updated L3 CG System Requirements spreadsheet and post in Alfresco	5/2/2013	Yes	No	4/25/2013
Export updated L3 RSN System Requirements spreadsheet and post in Alfresco	5/2/2013	Yes	No	4/25/2013
Export updated L4 CG Instrument Package spreadsheet and post in Alfresco	5/2/2013	Yes	No	4/25/2013
Export updated L4 RSN Instrument Package spreadsheet and post in Alfresco	5/2/2013	Yes	No	4/25/2013

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**ECR Meeting Results and Notes**

<b>Board Level</b>	<b>Meeting Date</b>	<b>Meeting Name</b>	<b>Meeting Result</b>	<b>Meeting Notes</b>
System	4/9/2013	2013-04-09 System Level CCB	Approved	