

Engineering Change Request Form

Change Request No.: 1300-00248	Date: 4/3/2012	WBS:
Control Account Name: None	Configuration Manager: Chapman, Ed	Control Account Manager:
SECTION TO BE COMPLETED BY PERSON REQUESTING CHANGE:		
Requestor: Ed Chapman	Telephone Number: (202) 787-1662	
Request Name (Include document number and revision level): Sunburst SAMI-CO2 (PCO2W Instrument) Waiver		
Description of Change (Include all related systems): A Waiver is requested to use the Sunburst SAMI-CO2 (PCO2W Instrument) 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 skilled Source Selection Evaluation Board meeting the competitive procurement obligations of OOI. However, it does not meet the following requirements: L2-SR-RQ-3712 Measurements of pCO2 in water shall have an accuracy of $\pm 4 \mu\text{atm}$ for concentrations $\leq 400 \mu\text{atm}$. L4-CG-IP-RQ-505 pCO2 water instruments shall have an accuracy of $\pm 4 \mu\text{atm}$ for concentrations $\leq 400 \mu\text{atm}$. L4-RSN-IP-RQ-559 The SSM Instrument for pCO2 shall measure pCO2 in water with an accuracy of $\pm 4 \mu\text{atm}$ for concentrations $\leq 400 \mu\text{atm}$. L2-SR-RQ-3713 Measurements of pCO2 in water shall have an accuracy of $\pm 1\%$ for concentrations $> 400 \mu\text{atm}$. L4-CG-IP-RQ-506 pCO2 water instruments shall have an accuracy of $\pm 1\%$ for concentrations $> 400 \mu\text{atm}$. L4-RSN-IP-RQ-560 The SSM Instrument for pCO2 shall measure pCO2 in water with an accuracy of $\pm 1\%$ for concentrations $> 400 \mu\text{atm}$. L2-SR-RQ-3717 Measurements of pCO2 in water shall have a precision of $\pm 0.5\%$ for concentrations $> 400 \mu\text{atm}$. L4-CG-IP-RQ-510 pCO2 water instruments shall have a precision of $\pm 0.5\%$ for concentrations $> 400 \mu\text{atm}$. L4-RSN-IP-RQ-564 The SSM Instrument for pCO2 shall measure pCO2 in water with a precision of $\pm 0.5\%$ for concentrations $> 400 \mu\text{atm}$. The attachment lists the requirement numbers, the requirement text, the associated Instrument Specification statement, and the vendor's RFP response to the requirement.		
Reason for Change: 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.		
Benefit to OOI: 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>		
Scope: No change. The Sunburst SAMI is the exemplar instrument in the FND.		
Schedule: No change.		
Cost: no change.		
SECTION TO BE COMPLETED BY IO/SL CCB CHAIRPERSON:		
<i>Assessment of Impact to IO Project:</i>		

Master Schedule:

no change

Project Cost:

no change

Deliverables:

no change

Potential Impact to Science and Design / As-built Capability: no change**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:

4/24/2012 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:

5/2/2012 2:37:47 PM

Systems and**Documentation Updated:**

Confirmed Complete

Attach supporting technical documentation and or additional comments as needed.

Change Request No.: 1300-00248**Request Name:** Sunburst SAMI-CO2 (PCO2W Instrument) Waiver**ECR Comments**

#	Reviewer	Date Added	General Comment	Requestor Response	CCB Decision	Lien
1	David Ayers	4/13/2012	document reviewed - no comment			
2	Sheri White	4/21/2012	No comments.			
3	Bill Pritchett	4/23/2012	Document reviewed - no comments			
4	Ed Dever	4/23/2012	Vendor responses indicate that the sensor nearly meets waived specs. While I have no personal expertise with the SAMI-CO2, this instrument is one of the (few available) standard instruments for pCO2 measurement, and it is widely accepted within the research community			
5	Susan Banahan	4/23/2012	Vendor specs suggest waiver for L2-SR-RQ-3713 and linked L4 requirements not needed. Recommend approval on other waivers.	Reject		
6	Michael Zernick	4/24/2012	No additional comments			

Change Request No.: 1300-00248**Request Name:** Sunburst SAMI-CO2 (PCO2W Instrument) Waiver**ECR Vote (Highest Level Board: System)**

Title	Member Name	Delegate Name	Vote	Comment
Project Manager	Matthew Arrott		Approve	
O&M Manager	Shahpour Ashaari	Ed Chapman	Approve	
EHS Manager	David Ayers		Approve	
Associate Program Director	Susan Banahan		Approve	
Project Manager	Pete Barletto		Approve	
COTR - Associate Project Manager CG	Mark Bittenbender		Approve	
Chief Systems Engineer	Ed Chapman		Approve	
Former teammate	Alan Chave		Approve	
OOI Program Director/PI	Tim Cowles		Approve	
Project Manager	Mike Crowley		Approve	
Program Director/PI	John Delaney	Pete Barletto	Approve	
Senior Project Manager, Advisor	Anthony Ferlaino		Approve	
Principal Investigator	Scott Glenn		Approve	
COTR - Associate Project Manager RSN	Paul Hagstrom		Approve	
Project Scientist	Deb Kelley	Chuck McGuire	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	
COTR - Associate Project Manager CI	Bill Pritchett		Approve	
CGSN and EA COTR	Greg Settle		Approve	
EV Consultant	Steve Stratton	Emily Griffin	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		Approve	
Deputy Program Manager, O&M	David Zimmermann		Approve	

Change Request No.: 1300-00248	Request Name: Sunburst SAMI-CO2 (PCO2W Instrument) Waiver
---------------------------------------	--

ECR Liens/Action Items

Lien	Due Date	Complete	Completion Date
------	----------	----------	-----------------

Action Item	Due Date	Complete	Cancel	Completion Date
Mark the Verification Status for the L4 requirements as "Waived" in DOORS.	5/21/2012	Yes	No	5/2/2012
Update "Approved Waiver-CM" attribute for affected L2 requirement (s) in DOORS with the ECR number of the approved Waiver and a description of the affected product.	5/21/2012	Yes	No	5/2/2012
Update "Approved Waiver-CM" attribute for affected L4 requirement (s) in DOORS with the ECR number of the approved Waiver and a description of the affected product.	5/21/2012	Yes	No	5/2/2012
Baseline L2 Science Requirements module	5/16/2012	Yes	No	5/2/2012
Baseline L4 CG Instrument Package module	5/16/2012	No	Yes	
Baseline L4 RSN Instrument Package module	5/16/2012	Yes	No	5/2/2012
Export updated L2 Science Requirements spreadsheet and post in Alfresco	5/16/2012	Yes	No	5/2/2012
Export updated L4 CG Instrument Package spreadsheet and post in Alfresco	5/16/2012	No	Yes	
Export updated L4 RSN Instrument Package spreadsheet and post in Alfresco	5/16/2012	Yes	No	5/2/2012
Update L2 Science Requirements module	5/16/2012	Yes	No	5/2/2012
Update L4 CG Instrument Package module	5/16/2012	Yes	No	5/2/2012
Update L4 RSN Instrument Package module	5/16/2012	Yes	No	5/2/2012

Change Request No.: 1300-00248

Request Name: Sunburst SAMI-CO2 (PCO2W Instrument) Waiver

ECR Meeting Results and Notes

Board Level	Meeting Date	Meeting Name	Meeting Result	Meeting Notes
System	4/24/2012	2012-04-24 System Level CCB	Approved	