

Engineering Change Request Form

Change Request No.: 1300-00288	Date: 9/19/2012	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): Satlantic OCR507 ICSW (SPKIR Instrument) Waiver		
Description of Change (Include all related systems): A Waiver is requested to use the Satlantic OCR507 ICSW (SPKIR 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 highly skilled Source Selection Evaluation Board meeting the competitive procurement obligations of OOI. However, it does not meet the following requirements: L2-SR-RQ-3526 Downwelling spectral irradiance shall be measured over the wavelength range of 380 nm to 720 nm. L4-CG-IP-RQ-206 Downwelling spectral irradiance instruments shall have a wavelength range of 380 nm to 720 nm. L4-RSN-IP-RQ-490 The SSM Instrument for Downwelling spectral irradiance shall measure over the wavelength range of 380 nm to 720 nm. L4-RSN-IP-RQ-92 Command execution shall be acknowledged. 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 Alfresco. 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		
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. 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: 10/9/2012 2:00:00 PM	Board Determination: Approved
<i>CERTIFICATION OF TECHNICAL DATA PACKAGE AND CONTROL SYSTEM UPDATE</i>		
Signature of Configuration Manager: Ed Chapman (echapman@oceanleadership.org)	Date: 11/8/2012 5:23:56 PM	Systems and Documentation Updated: Confirmed Complete

Attach supporting technical documentation and or additional comments as needed.

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ECR Comments

#	Reviewer	Date Added	General Comment	Requestor Response	CCB Decision	Lien
1	Ed Chapman	10/1/2012	Based on discussions with Sheri White, L4-CG-IP-RQ-298, L3-CG-RQ-495, L4-CG-IP-RQ-449 are not applicable. The ECR and the attachment have been updated to reflect this change.			
2	David Neiman	10/1/2012	A statement of impact to OOI science goals should be added to the ECR confirming the 0% in the chairperson's assessment of impact (as was done on the attenuation-coefficient ECR). Recommend approval.	Accept		
3	Michael Zernick	10/4/2012	I concur with Dave. No additional comments.			
4	Michael Zernick	10/4/2012	I concur with Dave. No additional comments.			
5	Sheri White	10/4/2012	Comments provided to the ECR author. I concur with the updated ECR and recommend approval.			
6	Al Plueddemann	10/8/2012	Recommend approval of updated ECR.			
7	Michael Vardaro	10/8/2012	Because we won't be measuring the extreme low end of the wavelength spectrum (the lowest wavelength we will be measuring at is 412 nm), there is no science impact of waiving these requirements. After consultation with the ocean optics community, we elected to sample at 412, 443, 490, 510, 555, 620, and 683 nm, all with 10 nm bandwidths, to provide the most information about coastal and open ocean water properties. The same channels are selected by satellite sensors for the same reason, and the major wavelengths used in chlorophyll algorithms are 490 and 555 nm. Recommend approval.			
8	Ben Korin	10/9/2012	No comments.			

Change Request No.: 1300-00288**Request Name:** Satlantic OCR507 ICSW (SPKIR 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		Approve	
Associate Program Director	Susan Banahan	Kathy Carr	Approve	
Project Manager	Pete Barletto		Approve	
Field Operations Coordinator	Liz Caporelli		Approve	
Chief Systems Engineer	Ed Chapman	Kathy Carr	Approve	
Former teammate	Alan Chave	Tim McPhail	Approve	
OOI Program Director/PI	Tim Cowles		Approve	
Project Manager	Mike Crowley		Approve	
Program Director/PI	John Delaney		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		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	
COTR - Associate Project Manager CI	Bill Pritchett		Approve	
CGSN and EA COTR	Greg Settle		Approve	
Observatory Director	Julie Thomas		Approve	
Co-Principal Investigator	John Trowbridge		Approve	
Deputy Principal Investigator	Frank Vernon	John Orcutt	Approve	

Program Director/PI	Bob Weller		Approve	
Lead System Engineer	Sheri White	Kurt Stiffel	Approve	
System Engineer	Joe Wieclawek		Approve	
Quality & Safety Manager	Michael Zernick		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.	11/20/2012	Yes	No	11/2/2012
Mark the Verification Status for the L4 requirements as "Waived" in DOORS.	11/20/2012	Yes	No	11/2/2012
Update "Approved Waiver-CM" attribute for affected L2 requirement (s) in DOORS with the ECR number of the approved Waiver.	11/20/2012	Yes	No	11/2/2012
Update "Approved Waiver-CM" attribute for affected L4 requirement (s) in DOORS with the ECR number of the approved Waiver.	11/20/2012	Yes	No	11/2/2012
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.	11/20/2012	Yes	No	11/2/2012
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.	11/20/2012	Yes	No	11/2/2012
Baseline L2 Science Requirements module	11/16/2012	Yes	No	11/8/2012
Baseline L4 CG Instrument Package module	11/16/2012	Yes	No	11/8/2012
Baseline L4 RSN Instrument Package module	11/16/2012	Yes	No	11/8/2012
Export updated L2 Science Requirements spreadsheet and post in Alfresco	11/16/2012	Yes	No	11/8/2012
Export updated L4 CG Instrument Package spreadsheet and post in Alfresco	11/16/2012	Yes	No	11/8/2012
Export updated L4 RSN Instrument Package spreadsheet and post in Alfresco	11/16/2012	Yes	No	11/8/2012

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ECR Meeting Results and Notes

Board Level	Meeting Date	Meeting Name	Meeting Result	Meeting Notes
System	10/9/2012	2012-10-09 System Level CCB	Approved	