

Engineering Change Request Form

Change Request No.: 1303-01077	Date: 6/10/2013	WBS:
Control Account Name: None	Configuration Manager: Wickman, Diana	Control Account Manager:
SECTION TO BE COMPLETED BY PERSON REQUESTING CHANGE:		
Requestor: Sheri White	Telephone Number: (508) 289-3740	
Request Name (Include document number and revision level): Satlantic ISUS (NUTNR-B instrument) waivers		
Description of Change (Include all related systems): A waiver is requested to use the Satlantic ISUS as the NUTNR Series B instrument for CGSN/EA. OOI selected this 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 requirement: (NITR-008) L4-CG-IP-RQ-404 Dissolved nitrate (NO ₃ ⁻) instruments shall have a drift of no greater than 4 µM over a deployment of seven months. The associated L2, L2-SR-RQ-3514 also needs to be waived. The vendor indicates a drift of 1.83 µM for the ISUS in the technical proposal, but there is no publicly available documentation that confirms this, therefore a waiver is requested.		
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: As noted above the vendor indicated a drift of 1.83 µM, which surpasses the requirement of 4 µM. Therefore we believe the instrument will meet the requirement, but we do not have the documentation to verify it.		
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: CG CCB: Concur with requestor's assessment. SL CCB: No change		
Project Cost: CG CCB: No impact. SL CCB: No change		
Deliverables: CG CCB: No impact. SL CCB: No change		

Potential Impact to Science and Design / As-built Capability: CG CCB: No impact.
 SL CCB: The ISUS is the exemplar listed in the FND. The instrument is expected to meet requirements but there is no documentation of that available from the vendor.

Percent Impact on WBS elements(s) selected: 0%	Percent Impact on OOI: 0%	
Contingency \$0	Contingency Schedule (weeks): 0	
Signature of CG CCB Chairperson: Sheri White (swhite@whoi.edu)	Date: 6/19/2013 1:30:00 PM	Board Determination: Approved
Signature of System CCB Chairperson: Ed Chapman (echapman@oceanleadership.org)	Date: 7/2/2013 2:00:00 PM	Board Determination: Approved with Liens
<i>CERTIFICATION OF TECHNICAL DATA PACKAGE AND CONTROL SYSTEM UPDATE</i>		
Signature of Configuration Manager: Diana Wickman (dwickman@whoi.edu)	Date: 8/19/2013 2:51:35 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	Diana Wickman	6/18/2013	Recommend approval.		Accept	
2	Steve Holford	6/18/2013	No comments.			
3	Ed Dever	6/19/2013	no comments			
4	Ed Chapman	6/25/2013	I recommend approval. This ECR will not require NSF approval.			
5	Kathy Carr	6/28/2013	Do we also need to waive L2 SR 3514: Dissolved nitrate (NO3-) shall be measured with a drift of no greater than 4 mM over a deployment of seven months.?	Accept	Accept	Yes
6	Michael Zernick	7/2/2013	I recommend approval.			

Change Request No.: 1303-01077**Request Name:** Satlantic ISUS (NUTNR-B instrument) waivers**ECR Vote (Highest Level Board: System)**

Title	Member Name	Delegate Name	Vote	Comment
Cyberinfrastructure (CI) COTR	Phil Ardunay		Approve w. Liens	
Project Scientist	Jack Barth		Approve w. Liens	
Field Operations Coordinator	Liz Caporelli		Approve w. Liens	
Chief Systems Engineer	Ed Chapman		Approve w. Liens	
Deputy PM	Bob Collier		Approve w. Liens	
OOI Program Director/PI	Tim Cowles		Approve w. Liens	
Project Manager	Mike Crowley		Approve w. Liens	
Program Director/PI	John Delaney		Approve w. Liens	
Systems Engineer (PNW)	Ed Dever		Approve w. Liens	
Principal Investigator	Scott Glenn		Approve w. Liens	
COTR - Associate Project Manager RSN	Paul Hagstrom		Approve w. Liens	
Project Management	Brian Ittig		Approve w. Liens	
OOI Endurance Operations Manager	Tom Kearney		Approve w. Liens	
Project Scientist	Deb Kelley		Approve w. Liens	
Sr Project Manager	Mike Kelly		Approve w. Liens	
Business Operations Manager	Ben Korin		Approve w. Liens	
Program Manager and Chief Engineer	Paul Matthias		Approve w. Liens	
COTR - Associate Project Manager EPE	Andrea McCurdy		Approve w. Liens	
Senior Systems Engineer	Chuck McGuire		Approve w. Liens	
Systems Engineer	Tim McPhail		Approve w. Liens	
Associate Director	Michael Mulvihill		Approve w. Liens	
Principal Investigator for CI	John Orcutt		Approve w. Liens	
Project Scientist	Al Plueddemann		Approve w. Liens	

CGSN and EA COTR	Greg Settle		Approve w. Liens	
Observatory Director	Julie Thomas		Approve w. Liens	
Co-Principal Investigator	John Trowbridge		Approve w. Liens	
Deputy Principal Investigator	Frank Vernon		Approve w. Liens	
Program Director/PI	Bob Weller		Approve w. Liens	
Lead System Engineer	Sheri White		Approve w. Liens	
System Engineer	Joe Wieclawek		Approve w. Liens	
Quality & Safety Manager	Michael Zernick		Approve w. Liens	

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ECR Liens/Action Items

Lien	Due Date	Complete	Completion Date
We also need to waive L2 SR 3514: Dissolved nitrate (NO3-) shall be measured with a drift of no greater than 4 mM over a deployment of seven months.	7/9/2013	Yes	7/8/2013

Action Item	Due Date	Complete	Cancel	Completion Date
Baseline the applicable requirements modules in DOORS and post to Alfresco (Carr, Johnson)	7/22/2013	Yes	No	8/19/2013
Mark the Verification Status for the L2 requirements as "Waived" in DOORS.	7/26/2013	Yes	No	8/19/2013
Mark the Verification Status for the L4 requirements as "Waived" in DOORS.	7/26/2013	Yes	No	8/16/2013
Update "Approved Waiver-CM" attribute for affected L2 requirement (s) in DOORS with the ECR number of the approved Waiver.	7/26/2013	Yes	No	8/19/2013
Update "Approved Waiver-CM" attribute for affected L4 requirement (s) in DOORS with the ECR number of the approved Waiver.	7/26/2013	Yes	No	8/16/2013
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.	7/26/2013	Yes	No	8/19/2013
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.	7/26/2013	Yes	No	8/16/2013

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ECR Meeting Results and Notes

Board Level	Meeting Date	Meeting Name	Meeting Result	Meeting Notes
CG	6/19/2013	CG CCB 20130619	Approved	Update associated L2 requirements if needed.
System	7/2/2013	2013-07-02 System Level CCB	Approved with Liens	