

Engineering Change Request Form

Change Request No.: 1300-00290	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): Aanderaa OPTODE 4330 and 4831 (DOSTA Instrument) Waiver		
Description of Change (Include all related systems): A Waiver is requested to use the Aanderaa OPTODE 4330 and 4831 (DOSTA Instruments) as common OOI instruments. (Note: the OPTODE 4831 is identical to the 4330 with the except of the integrated connectors.) 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-3610 The OOI shall provide biofouling mitigation for sensors and infrastructure on surface platforms. L4 CG IP RQ 446 Sensors that are subject to performance degradation due to biofouling shall utilize biofouling reduction techniques, with the goal to enable nominal operations over the defined deployment interval. L2 SR RQ 3495 Dissolved O2 concentrations shall be measured with an accuracy in the laboratory within $\pm 2\%$ of the value provided by a Winkler titration of a corresponding water sample. L4-CG-IP-RQ-182 Dissolved Oxygen instruments shall have an accuracy in the laboratory within $\pm 2\%$ of the value provided by a Winkler titration of a corresponding water sample. L4-RSN-IP-RQ-312 The SSM Instrument for Dissolved Oxygen (DO) shall measure with an accuracy in the laboratory within $\pm 2\%$ of the value provided by a Winkler titration of a corresponding water sample. L2-SR-RQ-3498 Dissolved O2 measurements shall have an annual drift of less than 10 $\mu\text{mol/kg}$. L4 CG IP RQ-348 Dissolved Oxygen instruments shall have an annual drift of less than 10 $\mu\text{mol/kg}$. L4-RSN-IP-RQ-316 The SSM Instrument for Dissolved Oxygen (DO) shall have an annual drift of less than 10 $\mu\text{mol/kg}$. 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		
Schedule: no change		
Cost: 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 is the exemplar instrument.**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

CERTIFICATION OF TECHNICAL DATA PACKAGE AND CONTROL SYSTEM UPDATE**Signature of Configuration Manager:**

Ed Chapman (echapman@oceanleadership.org)

Date:

11/8/2012 5:25:18 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	David Neiman	10/1/2012	Recommend passage. L2-SR-RQ-3610 is a platform requirement, so it may not be relevant.			
2	Michael Zernick	10/4/2012	No additional comments.			
3	Sheri White	10/4/2012	Recommend approval.			
4	Al Plueddemann	10/8/2012	Recommend approval.			
5	Michael Vardaro	10/8/2012	Reviewed. Recommend approval.			

Change Request No.: 1300-00290**Request Name:** Aanderaa OPTODE 4330 and 4831 (DOSTA 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	