

**Engineering Change Request Form**

<b>Change Request No.:</b> 1303-00996	<b>Date:</b> 3/12/2013	<b>WBS:</b>
<b>Control Account Name:</b> None	<b>Configuration Manager:</b> Wickman, Diana	<b>Control Account Manager:</b>
<b>SECTION TO BE COMPLETED BY PERSON REQUESTING CHANGE:</b>		
<b>Requestor:</b> Sheri White	<b>Telephone Number:</b> (508) 289-3740	
<b>Request Name (Include document number and revision level):</b> FDCHP Deployment Waiver and associated schedule change		
<b>Description of Change (Include all related systems):</b> This ECR requests a waiver on the deployment of all FDCHP instruments in 2013. The FDCHP instrument is included on 4 Surface Moorings (initial deployment dates in parentheses): Coastal Pioneer Central Surface Mooring (October 2013), Global Irminger Sea Surface Mooring (July 2014), Coastal Endurance OR Shelf Surface Mooring (October 2014), Global Southern Ocean Surface Mooring (February 2015).  The first planned deployment of the FDCHP instrument is the on the May 2014 Coastal Pioneer Central Surface Mooring turn.  The requirements being temporarily waived for 2013 are: L3-CG-RQ-515 Surface mooring Flux measurements shall include Turbulent Wind. L3-CG-RQ-767 Turbulent Wind Velocity instruments on Surface moorings shall be mounted in locations that are not obstructed by the mooring structure or other instruments. L3-CG-RQ-951 Surface mooring Flux measurements shall include Turbulent Air Temperature. L3-CG-RQ-956 Surface mooring Flux measurements shall include Platform Motion. L3-CG-RQ-957 Surface mooring Flux measurements of Platform Motion shall be located within 1 m of Turbulent Wind Velocity measurements.		
<b>Reason for Change:</b> There were no responses to the initial RFP for the FDCHP instrument, which delayed implementation. ECR 1300-00318 changed the FDCHP from a "buy" to a "make". The budget and funding to implement the development and build of the first article per ECR 1300-00318 were put in place in Feb 2013. The build of the first article began in Mar 2013, and testing will be completed in Oct 2013 to allow the first article to begin integration for the May 2014 Pioneer turn. Subsequent articles will be completed in time to support the initial Global Irminger, Coastal Endurance OR Shelf, and Global Southern Ocean deployments.		
<b>Benefit to OOI:</b> This temporary waiver is needed to allow the Fall 2013 Pioneer Central Surface Mooring deployment to occur as scheduled.		
<i>Requestor Assessment of Impact to Control Account:</i>		
<b>Scope:</b> There is no change in scope. There will be one deployment without the FDCHP instrument, but the instrument will be deployed on all required platforms before the end of the MREFC period.		
<b>Schedule:</b> The deployment of the FDCHP instrument will be delayed by ~6 months. CI is aware of this delay and has adjusted the FDCHP instrument agent development priority appropriately. Changes to the IMS are included in the attached document.		
<b>Cost:</b> There is no change in cost. This waiver only delays deployment of the FDCHP instrument, it does not affect numbers of instruments or costs. ECR 1300-00318 waived performance requirements and reduced the number of deployed units to remain within the procurement baseline.		
<b>SECTION TO BE COMPLETED BY IO/SL CCB CHAIRPERSON:</b>		
<i>Assessment of Impact to IO Project:</i>		
<b>Master Schedule:</b> CG CCB: No impact. Enables initial deployments to occur as scheduled. SL CCB: IMS changes are attached.		
<b>Project Cost:</b>		

CG CCB: No impact.

SL CCB: Tiny savings to O&M as the FDCHP instruments will not need to be refurbished in the spring of 2014.

**Deliverables:**

CG CCB: No impact.

SL CCB: No change

**Potential Impact to Science and Design / As-built Capability:** CG CCB: No impact. FDCHP instruments will all be deployed prior to the end of the MREFC period.

SL CCB: No change

**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:**

3/20/2013 1:30:00 PM

**Board Determination:**

Approved

**Signature of System CCB Chairperson:**

Ed Chapman (echapman@oceanleadership.org)

**Date:**

5/14/2013 2:00:00 PM

**Board Determination:**

Approved

**Signature of NSF CCB Chairperson:**

Jean McGovern (jmcgover@nsf.gov)

**Date:**

6/4/2013 3:00:00 PM

**Board Determination:**

Approved

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

**Signature of Configuration Manager:**

Diana Wickman (dwickman@whoi.edu)

**Date:**

8/28/2013 9:52:04 AM

**Systems and**

**Documentation Updated:**

Confirmed Complete

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

**Change Request No.:** 1303-00996

**Request Name:** FDCHP Deployment Waiver and associated schedule change

**ECR Comments**

#	Reviewer	Date Added	General Comment	Requestor Response	CCB Decision	Lien
1	Ed Dever	3/20/2013	no comments			
2	Sheri White	4/2/2013	Attachment indicating changes to the IMS was added prior to promotion to the System Board.			
3	Ed Chapman	4/4/2013	I recommend approval.			
4	Adam Anderson	5/13/2013	Reviewed and recommend approval.			

**Change Request No.:** 1303-00996

**Request Name:** FDCHP Deployment Waiver and associated schedule change

**ECR Vote (Highest Level Board: NSF)**

Title	Member Name	Delegate Name	Vote	Comment
Associate Program Director	Susan Banahan		(Did Not Vote)	
Chief Systems Engineer	Ed Chapman		(Did Not Vote)	
OOI Program Director/PI	Tim Cowles		(Did Not Vote)	
Sr Project Manager	Mike Kelly		(Did Not Vote)	
NSF Program Director	Jean McGovern		Approve	

<b>Change Request No.:</b> 1303-00996	<b>Request Name:</b> FDCHP Deployment Waiver and associated schedule change
---------------------------------------	---

**ECR Liens/Action Items**

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

Action Item	Due Date	Complete	Cancel	Completion Date
Mark the Verification Status for the L3/L4 requirements as "Waived" in DOORS and add a description in the verification details column. (S. White, K. Carr, E. Dever)	4/8/2013	Yes	No	3/20/2013
Update "Approved Waiver-CM" attribute for affected L3/L4 requirement(s) in DOORS with the ECR number of the approved Waiver. (S. White, K. Carr, E. Dever)	4/8/2013	Yes	No	3/20/2013
Coordinate schedule adjustments with Cobra (Vitucci)	6/24/2013	Yes	No	8/28/2013
Implement changes in IMS file(s) (Wiley)	6/24/2013	Yes	No	8/28/2013

**Change Request No.:** 1303-00996

**Request Name:** FDCHP Deployment Waiver and associated schedule change

**ECR Meeting Results and Notes**

Board Level	Meeting Date	Meeting Name	Meeting Result	Meeting Notes
CG	3/20/2013	CG CCB 20130320	Approved	
System	5/14/2013	2013-05-14 System Level CCB	Approved	
NSF	6/4/2013	2013-06-04 NSF CCB Session	Approved	