



SM Deployment Instructions

Document Number 8307-61103-#####	Based on 8307-61103	Version 1-00	Author M. Vardaro, W. Waldorf, L. Morgan
Common Term for Platform State (Oregon or Washington) SM	Date of Template 2015-10-08		Approver of Checklist Tasks Jonathan Fram

Fill information out in checklist section, if digitally.

Reference Designator & <CE#ISSM> CF061351	Cruise Distinction Month or Season/yyyy	Conductor F. Last/First
Deployment # <#####> 02013	Date Conducted yyyy-mm-dd	

Scope & Description These instructions are for the deployment of an inshore mooring from an intermediate class UNOLS vessel (Oceanus).	Required Tools & Equipment
Reference Documents 3605-00016, CE01ISSM Endurance Oregon Inshore Mooring, 3605-00017, CE06ISSM Endurance Washington Inshore Mooring.	<ul style="list-style-type: none"> • Load rated quick release – MCD provided by manufacturer • Ship's crane – MCD provided by OSU Ship Operations and crane manufacturer • Ship's A-frame – MCD supplied by OSU Ship Operations • Heavy lift winch – MCD provided by winch manufacturer • Tension Member – 0.5 in Amsteel blue rope, average brea strength 34,000 lbs • Mooring Block – EA/OOI supplied, appropriately load rated, (MCD supplied by manufacturer) • Heavy load strong back release - EA/OOI supplied, appropriately load rated (proof tested to 25,000 lbs) • Note: All marine hardware (shackles, sling links, lifting straps, etc.) will be appropriately load rated.
Safety Considerations All operations will require safe sea states (generally less than 5-6) for operation, and will be approved and monitored by the ship's captain.	
Required PPE Hard hats, close-toed shoes, work vests, and work gloves.	

<CE#ISSM><#####>	Start Date: yyyy-mm-dd	Cruise Date: Month or Season, yyyy
Step	Instructions	Initials Date / Time Results/Notes

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BUOY				
1	Detailed operations briefing on the bridge.	JF		
2	Assemble and inspect the entire mooring on deck; ensure that all flanges are torqued to specifications.	JF		
3	Position the MFN/anchor under the A-frame.	JF		
4	Remove all caps, syringes, protective coverings of instruments on buoy, NSIF, and MFN.	JF		
5	Turn on Flasher and Beacons with Magnet Switch.	JF		
6	Rub desitin on the ADCP heads, VELPT, VEL3D	JF		
7	Deployment Checklist (8307-61102) completed.	JF		
8	Rig the NSIF and mooring riser with slip lines over the side held at the railing prior to buoy deployment.	JF		
9	Turn acoustic release on.	JF		
10	Rig surface buoy with load-rated quick release and attach to ship's crane.	JF		
11	Use the ship's crane to lift the NSIF over the starboard side into the water.	JF		
12	Use the ship's crane to lift the ISSM surface buoy over the starboard side into the water.	JF		
13	As the buoy is lifted with the crane, the NSIF and riser will be allowed to follow. This operation is controlled with slip lines to provide a controlled deployment.	JF		
14	Release surface buoy from the crane into the water with a load-rated quick release.	JF		
15	The mooring riser will be flaked out on deck, and allowed to follow the surface buoy into the water.	JF		
16	Rig MFN with slip lines for controlled deployment.	JF		

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Step	Instructions	Initials	Date / Time	Results/Notes	
17	Use winch to lower the MFN to the seabed with strong back acoustic release. This operation will be carefully coordinated with the ship operator to ensure accurate mooring placement.	<i>[Signature]</i>			
18	Ship continues underway, paying out wire, after MFN touches seabed to ensure that strongback does not come up under the ship.	<i>[Signature]</i>			
19	Send acoustic signal and trigger release once wire angle is confirmed to be correct.	<i>[Signature]</i>			
20	Recover strongback and reset deck for next deployment.	<i>[Signature]</i>	15:00		
		Personnel:	F. Last, F2. Last2		

47 7,996'N
124 16,255'W