



3 May 2019

METOCEAN BUOY Recovery

Our ref: MMF03330.000
Via: Email

National Renewable Energy Centre, Offshore Blyth: Notice to Mariners

RPS Australia West Pty Ltd is to recover a metocean buoy (RPS Floating Lidar 4.5 Buoy) at the National Renewable Energy Centre (NaREC) within the vicinity of the Meteorological Mast, offshore Blyth.

Weather permitting, the recovery is planned for ~1000 on the 7th of May 2019, using the MV C-Fenna.

The current deployment coordinates for the buoy is provided below (Table 1).

Description	Decimal Degrees		Degrees Decimal Minutes	
	Latitude	Longitude	Latitude	Longitude
RPS Floating Lidar 4.5 Buoy	55.147430°	-1.423560°	55° 08.846'N	01° 25.414'W
Recovery clump	55.147183°	-1.425883°	55° 08.831'N	01° 25.553'W

Table 1 Deployment coordinates (WGS84) on Nov 5th 2018.

The drift radius for the buoy is 125m. See attached mooring scope diagram.

The buoy is painted to IALA standard and has an amber navigation light set to flash 5 times at 1Hz every 20 seconds. Flash Sequence - Q(5)Y 20s =Flash/Eclipse of [Fl 0.5s] + [Ec 0.5s] x 5 + [Ec 15s].

All equipment (including ground weights) will be removed during recovery.

Marine License: EXE/2018/00206 - Exemption received 25th of September 2018.

RPS Floating Lidar 4.5 Buoy

The RPS FLiDAR buoy is dodecagon hull with a diameter of 4.5m, with a 4.0m tall super structure installed above the water line to support the solar panels, Lidar, wind generators and other sensors. The buoy has 4.5m keel below water and weights ~4.8T. See below image of the buoy in the water.

The mooring consists of a 2T anchor weight and 4 x 15m rubber cords to secure the buoy to the seabed. There will also be a 150m ground line run to a recovery rope, secured to the seabed with a 300kg anchor.



For further information, please contact:

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Yours sincerely

RPS

Michael Wiegele

Project Manager

RPS Flidar buoy #2 Blyth (37m MSL)

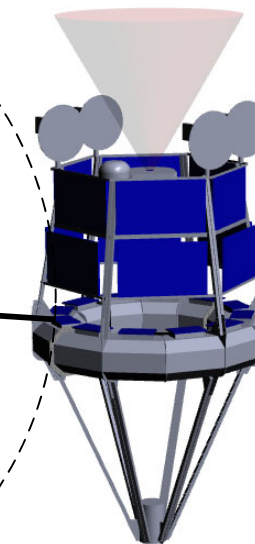
Note:

- All anchors have a 1.5m diameter and won't move through the deployment.
- All ground wires are 16mm diameter or less and will not move during deployment.
- Bungees are assumed to be stretched to twice their length for the mooring length calculations which will cover all normal mooring conditions. In hurricane conditions they may stretch to three times their length.

Max distance from anchor = 36m

150m

Max distance from anchor = 125m



* Note: Drawing not to scale



TITLE New-York Wind Energy Area LiDAR Mooring Design		
JOB No. MMF03330.000	DRAWING No. MMF03330-006-06	DATE: 13/06/18

PROJECT Top down view of Moorings

CLIENT Equinor			
DESIGNED GMB	CHECKED GEW		
DRAWN MCW	CLIENT		