

**Texas Parks and Wildlife Department
4200 Smith School Road
Austin, Texas 78744**

ADDENDUM

Addendum Number:	<u>02</u>	Dated:	<u>January 25, 2021</u>
Solicitation Number:	<u>802-21-45453</u>		
Solicitation Title:	<u>Buoy Inspection and Maintenance Services for the Artificial Reef Program</u>		
Due Date/Deadline:	<u>February 9, 2021; 2:00pm CT</u>		
Purchaser:	<u>Gwen Sullivan</u>		

PURPOSE OF ADDENDUM: CLARIFICATIONS

Except as provided herein, all terms and conditions of the document referenced herein, remain unchanged and in full force and effect. The following are specifications to this solicitation. This Addendum may be attached to and form a part of the referenced solicitation document and any resulting awarded contract and may be considered in your response.

1. Questions and Answers

Question 1: In reference to Request for Proposal (RFP) *Section I, Sub-Section 7.1 General Service Requirements*, what are the make and model of existing buoys, marine lanterns and mooring buoys being used?

Answer: Texas Parks and Wildlife Department (TPWD) currently employs two styles of buoy, the Tidal TDL 1500 and the TDL 60. Attachment 1 for this Addendum contains Specification Sheets for both. The TDL 60 is a 14 foot long, spar style buoy with a 2 foot diameter at its widest point. The TDL 1500 is a mushroom style buoy that is 7.52 foot tall and 5 foot in diameter.

See attached Addendum 2 **Attachment 1** for Buoy specifications.

Question 2: In reference to RFP *Section I, Sub-Section 7.1 General Service Requirements*, will compatible substitutes be allowed?

Answer: Yes, TPWD will consider proposed substitutions, if the substitutions meet United States Coast Guard requirements. All proposals will be evaluated and awarded based on best value.

Question 3: In reference to RFP *Section I, Sub-Section 7.1 General Service Requirements, Item 7.1.8*, If a replacement is necessary, is the contractor responsible for the purchase or will that come from TPWD?

Answer: All materials needed to complete the buoy assembly are covered by TPWD. This includes the buoy, chain, attachment pieces and lanterns. If a replacement of any of the aforementioned items is needed, TPWD will coordinate with the Contractor to ship or hand-off the required materials.

Question 4: In reference to RFP *Section I, Sub-Section 7.1 General Service Requirements*, provide data for the approximate depth of each buoy to be maintained.

Answer: These range anywhere from 50 feet to 120 feet. None of the attachments are deeper than 130 feet.

Question 5: In reference to RFP *Section I, Sub-Section 7.1 General Service Requirements*, are we (Contractor) able to moor to or near "all" of these buoys, even the marker buoys?

Answer: The majority of our reef sites do not have moorings. Contractors may "moor" to the marker buoy while servicing. If there is a reef site that is difficult to service, installation of a mooring buoy can be discussed with the TPWD Project Manager to be named at contract award.

Question 6: In reference to RFP *Section I, Sub-Section 6.13 Maintenance and Inspection of a buoy*, "... will require scuba diving down chain to its connection to structure/reef," and in regard to the diving method in which the work is to be completed, is SCUBA preferred/expected versus Surface Supplied Air?

Answer: TPWD has no preferred diving method. It is the responsibility of the Contractor to comply with all laws, ordinances, statutes, and regulations pertaining to the operation of offshore vessels and support of professional dive operations. The Contractor is responsible for obtaining all required permits, certifications, licenses, and other authorizations as required.

Question 7: In reference to RFP *Exhibit C – Price Sheet, Zone 1, Item 4 and Zone 2, Item 8, Excessive Depths, Provide a percentage increase in the event the required dive depth exceeds 120 feet*, how does Respondent provide a percentage increase for depths that are beyond the Respondent's maximum depth?

Answer: For depths beyond the Respondent's maximum depth, enter N/A on response.

Question 8: In reference to RFP *Section II, Sub-Section 3.4 Answers to Questions*, how will the answers be conveyed?

Answer: Official answers will be posted as an Addendum to this solicitation on the Electronic State Business Daily.

Respondents are to acknowledge receipt of this addendum. Return a signed copy of this notice with your proposal submission.

I acknowledge receipt of this addendum.

Respondent's Authorized Signature

Date

Company Name

Attachment 1

FEATURES & BENEFITS

- Designed to meet the stringent requirements of the Canadian Coast Guard
- High quality, UV20+ stabilized polyethylene with uniform wall thickness ensures a robust life expectancy of 20+ years
- Seamless one-piece construction provides a watertight product
- Low temperature impact resistance expands suitability for harsh environments
- Refined EPS foaming process with over 30 years of experience significantly reduces risk of sinking and environmental contamination
- Free of internal voids prevents significant water ingress and produces superior structural integrity

Modular top piece provides the option for installing a larger radar reflector

Stainless steel lifting eye

Stainless steel mooring attachment point



Optional Features:

- IALA colours & markings
- Conical top
- Solar lantern
- Control symbols & lettering
- Radar reflector
- Reflective tape

EPS filled

Stainless steel internal

Note: actual radar reflector may differ from the radar reflector used in the rendering.

Buoy Construction

Hull	Polyethylene
Surface Finish	High Gloss
Foam Fill	16 kg/m3 Polystyrene
Retroreflective Area	Yes
Optional Radar Reflector	NPL RR20
Life Expectancy	20+ Years
Warranty Period (Extensions available for purchase)	3 Years

General Specifications

Overall Height	425.0 cm / 167.3"
Hull Diameter	61.0 cm / 24"
Tower Section Diameter	n/a
Air-Weight	105.5 kg / 232.6 lbs
Operational Reserve Buoyancy	92.6 cm / 270.5 kg - 36.5" / 596.3 lbs
Mooring Eye Internal Diameter	4.1 cm / 1.6"
Mooring Eye Width	2.5 cm / 1"
Lifting Eye Internal Diameter	10.2 cm / 4"
Retroreflective Area	20.5 cm / 8.1"
Submergence	2.921 kg/cm - 2.535 lb/in

Performance Specifications

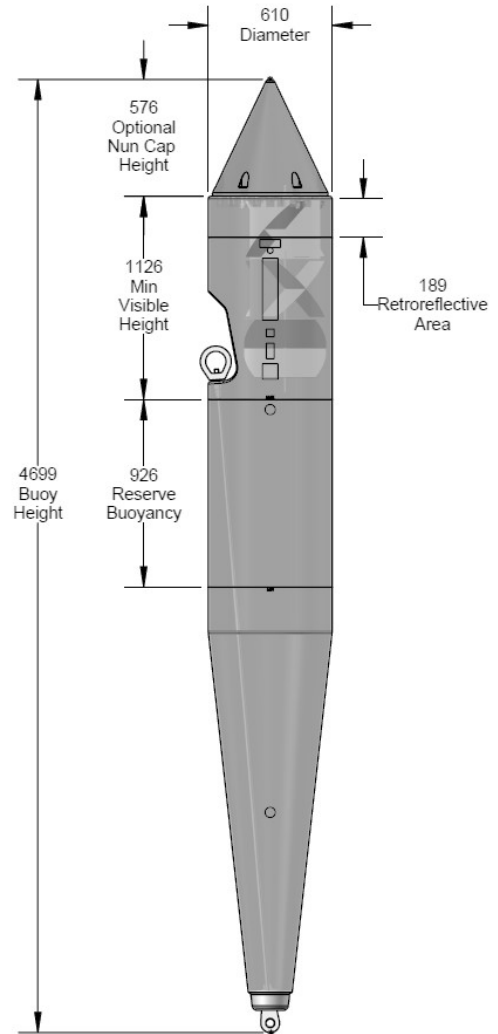
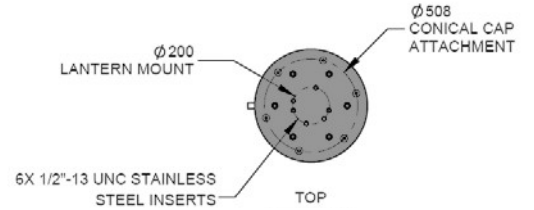
Min Visible Height / Min Focal Plane Height	112.6 cm / 44.3"
Visual Range	5.4 NM
Max Operational Buoy Tilt Angle (10m Depth)	< 3 degrees
Max Operational Buoy Tilt Angle (22.5m Depth)	< 3 degrees
Min Mooring Load	200 kg / 440.9 lbs
Max Mooring Load	450 kg / 992.1 lbs
Optional Radar Cross Sectional Area	32 m2 / 344.5 sq. ft.
Radar Range	> 2.0 NM

Environmental Conditions

Air Temperature	-2 C / 28.4 F to +50 C / +122 F
Water Temperature	-40 C / -40 F to +40 C / 104 F
Operational Wind Speed	0 to 40 knots
Survival Wind Speed	80 knots
Operational Current Speed	0 - 2.0 knots
Survival Current Speed	10.0 knots
Exposure to Ice	Light

Material Specifications

Buoy Shell	Rotationally Moulded Compounded Polyethylene with UV20+ Protection Package
Load Bearing Internal Linking the Mooring Eye to the Lifting Eye	Stainless Steel
Lifting Break Load	18,098 kg / 39,900 lbs
Foam Fill	Closed Cell Polystyrene Fused In Situ Block with 16 kg/m3 Density
Colour Options	Standard IALA Colours Available in Accordance with IALA Specification E-108
Fasteners, Bushings and Inserts	Stainless Steel
Mooring and Lifting Attachment Points	Stainless Steel
Internal Ballast	n/a



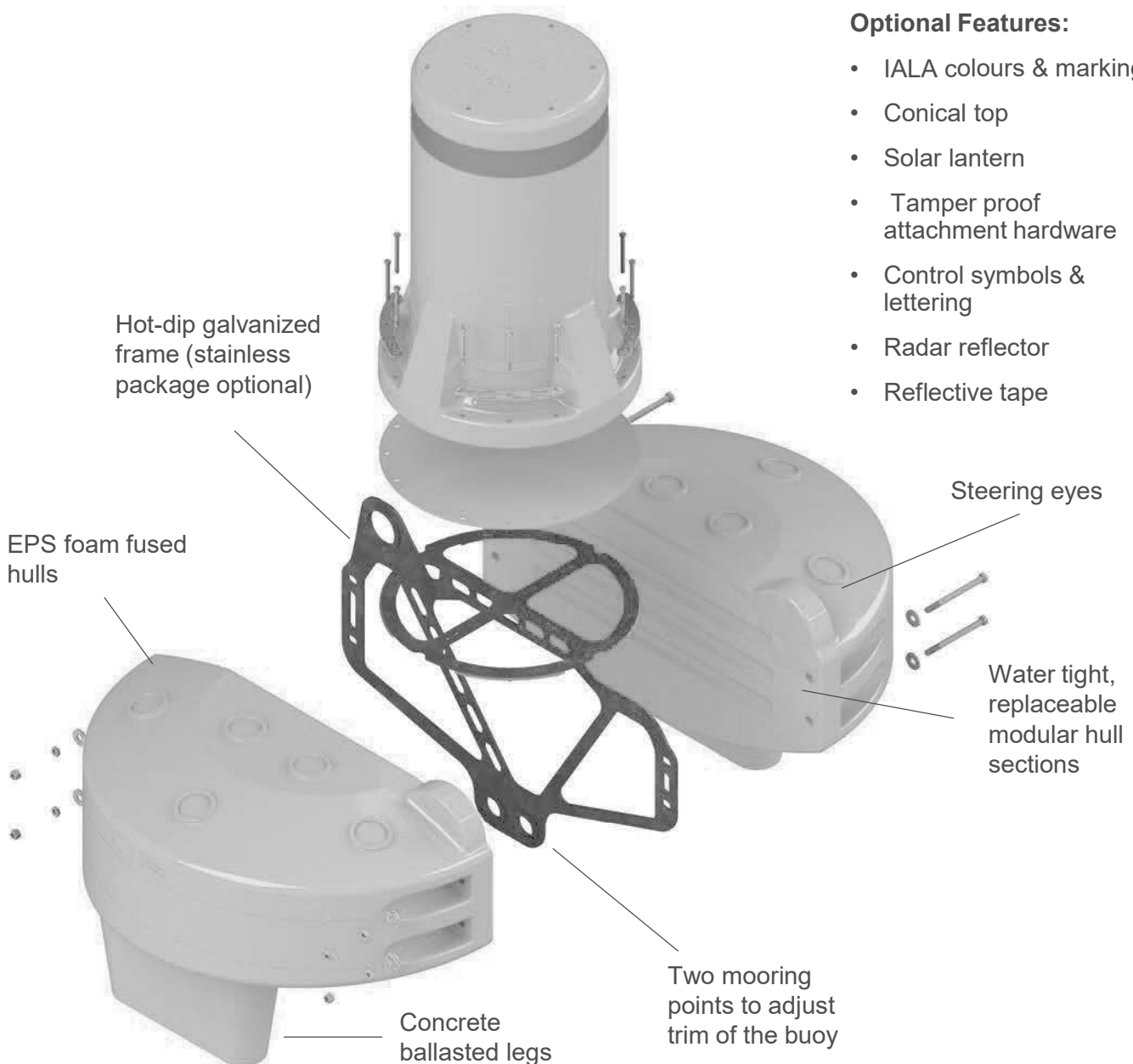
Note: actual radar reflector may differ from the radar reflector used in the rendering.

FEATURES & BENEFITS

- Modular construction allows cost-effective replacement of sections when damaged and simplifies end-of-life recycling
- Extremely stable in peak operating conditions
- High quality, UV20+ stabilized polyethylene with uniform wall thickness ensures a robust life expectancy of 20+ years
- Seamless one-piece construction provides a watertight product
- Low temperature impact resistance expands suitability to harsh environments
- Refined EPS foaming process with over 30 years of experience significantly reduces risk of sinking and environmental contamination
- Keel orientation improves ease of shipment and deployment
- Free of internal voids prevents significant water ingress and produces superior structural integrity

Optional Features:

- IALA colours & markings
- Conical top
- Solar lantern
- Tamper proof attachment hardware
- Control symbols & lettering
- Radar reflector
- Reflective tape



Buoy Construction

Hull / Superstructure	Polyethylene
Surface Finish	High Gloss
Foam Fill	16 kg/m ³ Polystyrene
Retroreflective Area	Yes
Optional Radar Reflector	NPL RR20
Life Expectancy	20+ Years
Warranty Period (Extensions available for purchase)	3 Years

General Specifications

Overall Height	221.8 cm / 87.3"
Hull Diameter	149 cm / 58.7"
Tower Section Diameter	60.9 cm / 24"
Air-Weight	287 kg / 632.7 lbs
Operational Reserve Buoyancy	18.3 cm / 309 kg - 7.21" / 681.2 lbs
Mooring Eye Internal Diameter	5.5 cm / 2.2"
Mooring Eye Width	4.5 cm / 1.8"
Lifting Eye Internal Diameter	10.0 cm / 3.9"
Retroreflective Area	15.5 cm / 6.1"
Submergence	16.9 kg/cm - 14.69 lbs/in

Performance Specifications

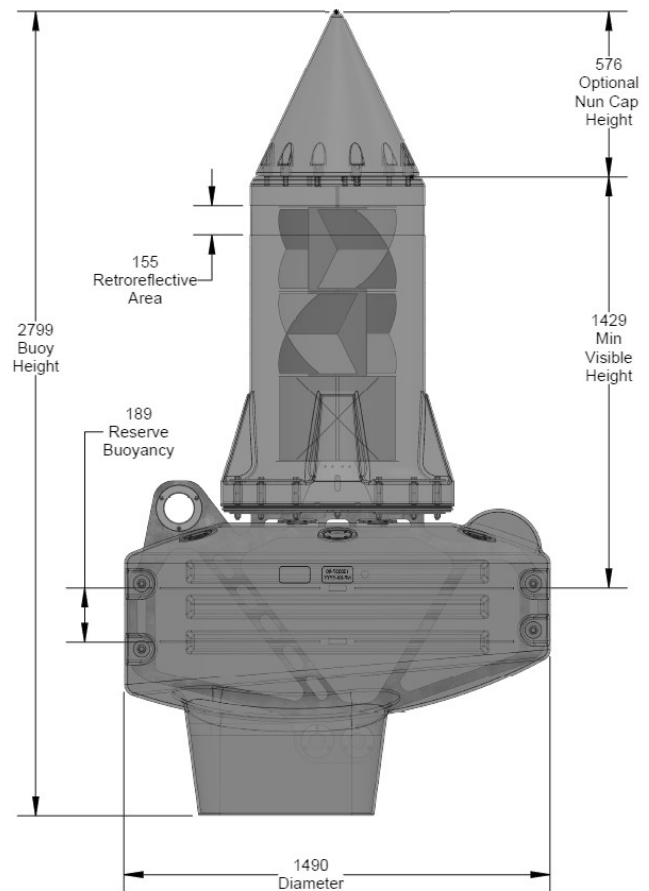
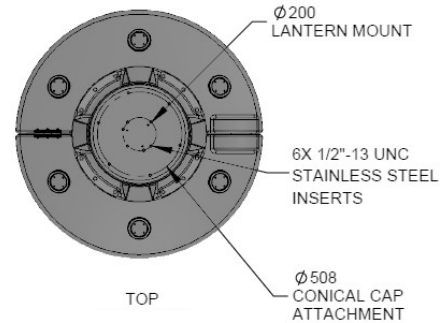
Min Visible Height / Min Focal Plane Height	140.0 cm / 55.1"
Visual Range	5.6 NM
Max Operational Buoy Tilt Angle (10m Depth)	< 3 degrees
Max Operational Buoy Tilt Angle (22.5m Depth)	< 3 degrees
Min Mooring Load	180 kg / 396.8 lbs
Max Mooring Load	540 kg / 1190.5 lbs
Optional Radar Cross Sectional Area	32 m ² / 344.5 sq. ft.

Environmental Conditions

Air Temperature	-2 C / 28.4 F to +50 C / +122 F
Water Temperature	-40 C / -40 F to +40 C / 104 F
Operational Wind Speed	0 to 40 knots
Survival Wind Speed	80 knots
Operational Current Speed	0 - 2.0 knots
Survival Current Speed	10.0 knots
Exposure to Ice	Light

Material Specifications

Buoy Shell	Rotationally Moulded Compounded Polyethylene with UV20+ Protection Package
Modular Frame	Hot-Dip Galvanized per ASTM A123 (Optional Stainless Steel Package Available)
Lifting Break Load	21,772 kg / 48,000 lbs
Foam Fill	Closed Cell Polystyrene Fused In Situ Block with 16 kg/m ³ Density
Colour Options	Standard IALA Colours Available in Accordance with IALA Specification E-108
Fasteners, Bushings and Inserts	Stainless Steel
Mooring and Lifting Attachment Points	Stainless Steel
Internal Ballast	Concrete



Note: actual radar reflector may differ from the radar reflector used in the rendering.