

PORT SAN LUIS - ALUMINUM PATROL BOAT SPECIFICATIONS

I. General Description

- a. Marine aluminum patrol/rescue boat between 26'0" to 28'0" length overall with a beam no less than 8'6", modified vee planing hull; T-top center console style with 250 HP (or approved equal) dual gasoline outboards with power-assisted steering.

II. General Use Statement

- a. This vessel will be used to patrol 1056 square miles of coastal waters surrounding the San Luis Obispo Bay. Port San Luis is an open ocean harbor which requires a patrol vessel capable of operating in heavy seas including 20+ ft swell. This vessel will at times be secured to a mooring requiring sufficient hardware on the bow to accommodate this.
- b. This vessel will be used for Law Enforcement (LE), Search and Rescue (SAR), frequent stern and side towing operations. The daily marine patrols include vessel boardings, tows, and various other boating safety and enforcement related duties. Due to our open ocean harbor, the vessel will regularly operate in heavy weather during the winter months.
- c. This vessel shall be well balanced, stable and durable in order to perform at high speed in heavy seas during patrols where SAR and LE operations may occur. The vessel will be launched from an overhead hoist, requiring it to be well balanced and suitable for hoisting. The purchase shall include a galvanized tandem axle trailer.

III. Bidder Specifications

- a. All work done, when and where governed, must comply with current USCG, NMMA and ABYC regulations.
- b. The boat and trailer design must be a design of a recognized manufacturer of heavy aluminum watercraft that has been in business continuously for a minimum of twenty-four consecutive months.
- c. Warranties will include:
 - i. Engine- Full manufacturer's warranty
 - ii. Hull- Minimum 10 years on materials and workmanship
 - iii. Equipment- Manufacturer's warranty or California law
- d. It is intended that the manufacturer, when selecting components, materials and design practices for the specified boat and trailer, will use those which are the best available in the industry for type of operation and conditions for which the boat and trailer will be subjected. All components, materials and design practices will be selected to give maximum performance, service life and safety and does not merely reflect the minimum requirements of the specifications.
- e. Bids to include all costs of the finished boat and trailer, including labor, materials, all applicable taxes, delivery to purchaser at designated location, and all other costs for a completely operational boat and trailer upon receipt.
- f. There may be a monetary penalty for each day after 45 days beyond the delivery date. This penalty will be discussed and agreed upon between builder and purchaser at the time of order.

- g. The manufacturer or vendor awarded this bid, without additional charges, will deliver the complete boat and trailer to a location designated by the awarding agency.
- h. Owner/service manuals to accompany the boat and trailer upon delivery for all applicable components.
- i. Point of contact is Chief Harbor Patrol Officer, Matthew Ashton (805) 595-5434 or matta@portsanluis.com. The best time to reach him is 8:00 a.m. – 4:00 p.m., Monday-Friday

IV. General Construction Specifications

- a. All materials and equipment shall be new, shall be marine grade and shall meet appropriate Federal and industry standards for material and installation.
- b. The hull shall be constructed of marine grade aluminum.
- c. The vessel shall not exceed 15,000 lbs. loaded.
- d. The bottom of the hull shall be a minimum of 3/16" (.1875).
- e. The hull construction shall be welded, all welds continuous inside and outside all seams. If stainless steel, they shall be isolated from aluminum.
- f. All fastening to/through the hull shall be aluminum or 300 series stainless steel. If stainless steel, they shall be isolated from aluminum.
- g. The beam of the vessel shall be no less than 8'6" with a draft of no more than 40".
- h. The vessel hull shall be a modified vee planing hull.
- i. The vessel shall be equipped with an EPA compliant fuel venting and blower system.
- j. The vessel shall be equipped with a minimum of 2 electric bilge pumps with auto/manual/off switch with a minimum of 1000 GPH.
- k. The vessel shall be equipped with a minimum of 8 stainless steel or aluminum cleats either welded on or bolted with backing plates. The cleats shall be a minimum of 10" in size. There shall be two cleats on the bow to be used for mooring the vessel.
- l. The vessel shall be equipped with a tow post and spool for tow line capable of holding 250' of 1 1/4" tow line. The tow post shall be strong enough for commercial towing application within the limitations of the boat.
- m. Any bottom paint must meet all current California and Federal environmental requirements.
- n. The vessel shall be equipped with a taffrail to prevent line from being caught in the screws.
- o. The windshield shall be constructed of safety glass.
- p. The light stanchion and all overhead equipment shall be hinged to lower for overhead hoist clearance.

V. Electrical specifications

- a. International Rules navigational lights, marine grade, U.S. Coast Guard approved, are to be installed.
- b. The vessel shall be equipped with a dedicated house battery bank along with one start battery per engine. All batteries shall be marine grade.
- c. The vessel shall include a marine grade breaker and fuse system located inside the cabin.

- d. The vessel shall have a backlit switch panel with marine grade switches. The switch panel must be installed in a location that will prevent damage or accidental activation of switches.
- e. The vessel shall have backlit gauges including the following: hour meter; tachometer; voltmeter; water temperature.
- f. The vessel shall include two 12" multi-function display plotters Garmin or equivalent. One on the coxswain side and one on the crewman side. Both plotters should mirror each other.
- g. The vessel shall include one 18" radar unit, Garmin or equivalent.
- h. The vessel shall have on the coxswain side a backlit compass with dimmer switch.
- i. The vessel shall include one VHF radio capable of AIS reception and one UHF radio. Radios shall be Kenwood brand or equivalent. Both radios should be mounted in a location central to the coxswain and crewman.
- j. The vessel shall include one remote operated LED searchlight.
- k. The vessel shall include a minimum of four LED floodlights.

VI. Interior Specifications

- a. The deck shall be outfitted with a non-skid deck covering.
- b. The deck shall be self-bailing.
- c. Any installed storage shall be lockable.
- d. Stainless steel cupholders

VII. Steering and Control Specifications

- a. The steering and controls have a tilt steering helm.

VIII. Fuel System Specifications

- a. All installation and materials shall meet minimum Federal specifications.
- b. Tank material must be marine grade aluminum, pressure tested and certified.
- c. The vessel shall have a fuel capacity of no less than 150 gallons and no more than 200 gallons.
- d. The vessel shall be equipped with heavy-duty water and sediment filtering fuel filters.

IX. Engine Specifications

- a. The engines must be new marine engines.
- b. Engines must meet California State engine exhaust limitations at 50'.
- c. Maximum of 90 dBA at the operator's console.
- d. All sound deadening materials must be fire retardant.
- e. The engines shall be two Yamaha or equivalent outboard engines with a minimum total horsepower of 500HP and a maximum horsepower of 500HP.

X. Propulsion (Drive) Specifications

- a. The vessel shall be propelled by two (02) outboard engines.

XI. Required Equipment Specifications

- a. The vessel shall be equipped with a law enforcement package including a Whelan light bar or equivalent and Whelan hailer/siren or equivalent.
- b. The vessel shall be equipped with "HARBOR PATROL" lettering on the collars as well as "HP" overhead identifier decal on the topside of the cabin.

- c. The collar shall be either of a hybrid design, utilizing a combination of foam and air, 100% foam, or approved equal. Vessel must have the ability to remain operational in the event the collar was to become damaged or removed.
- d. The vessel shall include one 24" mounted life ring.

XII. Trailer Specifications

- a. The trailer must meet Federal and SAE requirements.
- b. Trailer capacity to exceed boat weight fully fueled and equipped.
- c. The trailer shall be equipped with bunks, not rollers.
- d. The trailer shall be galvanized.
- e. The trailer shall be equipped with a spare wheel and tire.
- f. The trailer shall be equipped with a braking system.

XIII. Trials

- a. The boat must successfully complete, to the satisfaction of the purchasing agency, the trials listed below.
- b. The successful bidder shall repair, correct, re-design, as appropriate, at no additional cost, if the boat fails during the sea trial. The successful bidder will be responsible for transporting the boat back to the original place of manufacture for any work or modifications needed after sea trials.
- c. The sea trial shall be at the manufacturers or vendors' expense and may be held at either the place of manufacture or at the location of the purchasing agency.
- d. The manufacturer shall notify the purchasing agency at least 7 days before the date set for the sea trial.
- e. The boat shall be given maneuvering trials to determine turning circle at various RPM, course keeping, maneuvering at slow speeds, and towing capabilities.
- f. The performance trials shall demonstrate constant stable and safe control of the boat through all of its tested operations.

XIV. References

- a. The bidder shall provide at least three references for organizations that have successfully purchased and used aluminum boats for similar rescue and law enforcement purpose; including but not limited to the same size and cabin design as specified. Failure to provide these references may disqualify the bidder. References shall include the name of the organization, contact person and telephone number.