

YAMAHA OUTBOARD ENGINES

STATEMENT OF NEED

01 February 2023

1. Requirement: The MacDill AFB 6 SFS Marine Patrol program provides security patrols along the 7.2 miles of coastline of the base perimeter, 24 hour/7 days a week. Patrol responsibilities include intercepting boats that breach the exclusion zone, identify operators, working with USCG, State and local marine law enforcement to maintain the integrity of exclusion zone. The current engine warranty is expired. Repair/replacement is expensive, and the manufacturer covers warranty cost. Without an engine warranty, user pays full repair/replacement price. Furthermore, this will drive up engine maintenance cost exponentially. Request two engines to replace these older models. Current installed Yamaha equipment, wires, throttles, steering system, etc. reduce the cost for the Gov't by installing same brand engines. Changing engine brand will raise cost for the Gov't that will need equipment, wires, throttles, steering system, etc. changed out. This extra cost can be in upwards of \$30K.

2. Characteristics: Two 27' WAC SAFE Boat vessels hull numbers 1957 and 1958. On each vessel, the contractor will replace with new Yamaha 30" LH & RH rotation 300 horsepower twin outboard engine setups.

CLIN 0001: Yamaha 300 outboard engine(s)/ Qty: 4. Engine type should be a V6/ 4.2 liter, capable of 300 horsepower. A fuel injection system should be equipped to the engine ensuring adequate displacement listed above. The preferred method of operation shall be digital and shaft length will be 30 inch. Engine dry weight should be between 551-588 lbs. The tilt system installed should have the capability of power trim and tilt from the engine as well as from the binnacle(s). The engines should be equipped with a wet sump lubrication system. The engines should have a closed fuel vapor system. The engines should be equipped with a water-cooled rectifier regulator that mitigates overheating. The engines should be equipped with an Engine Control Module (ECM) controlling the fuel injection volume, injection timing and ignition timing. A variable camshaft timing system that advances and retards with throttle response in the low and mid RPM ranges. The engines shall have the ability for on and off water freshwater flushing. This will significantly reduce corrosions and clean off the salt build up inside the motor. It will be the contractor's responsibility to install the proper stainless propellers for optimum hole-shoot and top end speed.

3. Inherent Services: Remove four engines and associated equipment (if required), gauges, wire harness (if required), and fill any holes that the new engines/equipment do not fill (if required). Install four new outboards engines and associated equipment (if required), gauges (if required), wire harness (if required), and any other items needed to facilitate an operational vessel. Basic on the job equipment training for newly installed equipment for Air Force personnel conducted by installing company. Preventative maintenance instructions of new installed equipment conducted

by installing company. Provide an operations test/check ride with USAF 6 SFS Marine Patrol before final disposition conducted by installing company.

4. Delivery: Unless agreed upon, MacDill 6 SFS may deliver one vessel up to 50 miles and once completed, retrieve/deliver the second vessel and retrieve that vessel once completed. The Contractor will be responsible for delivery and off-loading of old engines and associated equipment and tools. Contractor shall have all removed equipment installed onto pallets and return said removed equipment to 6 SFS, building 386 for disposition e.g., old engines, wires, steering system, etc.

5. Terms and Conditions: Documentation of installation with manufacturer's approval for warranty and proof of all associated equipment warranty – Power Match warranty on all installed equipment and associated equipment, e.g., engines, propellers, battery cables, fuel lines, wires/cables, etc. The warranty will not be less than 3 years. The contractor shall furnish manufacturer qualified personnel, equipment, tools, materials, supervision, other items and services needed to complete this contract. It will be the contractor's responsibility to negotiate proprietary and subcontract issues with the manufacturers of equipment used on MacDill AFB and covered by this contract. Documentation, Power Matched warranty proof and records will be turned over to the government on completion of the contract.