

N252-104 Supplemental Information

Recommended Tests:

The following coupon tests may be used to demonstrate solution capability

Test	Test Standard
Corrosion	1) ASTM B117 Salt Fog Test
Water Resistance	1) ASTM D3359 with water immersion and tape peel
Coating/Film Adhesion	1) ASTM D4541 2) ASTM D522
Coating/Film Friction	1) ASTM D1894 2) ASTM G115
Wear/Abrasion	1) ASTM G77 2) ASTM G176 3) ASTM G133

Rotary Engines

We are interested in technologies that improve the reliability/durability of rotary engines that operate in a marine environment and produce **up to 150hp**. The following is a non-exhaustive list of relevant engines.

Please note that:

“The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. Offerors must disclose any proposed use of foreign nationals (FNs), their country(ies) of origin, the type of visa or work permit possessed, and the statement of work (SOW) tasks intended for accomplishment by the FN(s) in accordance with the Announcement. Offerors are advised foreign nationals proposed to perform on this topic may be restricted due to the technical data under US Export Control Laws.”

Vendor	Model
Advanced Innovative Engineering	80S
Advanced Innovative Engineering	225CS
Advanced Innovative Engineering	650S
AstronAerospace	H2-StarFire
Freedom Motors	Rotapower 150 (one rotor)
Freedom Motors	Rotapower 150 (two rotors)
Freedom Motors	Rotapower 530 (one rotor)
Freedom Motors	Rotapower 530 (two rotors)
Freedom Motors	Rotapower 530 (three rotors)
Liquid Piston	X-Engine XTS-210
Rotron	RT300-XE

Rotron	<u>RT600-XE</u>
Rotron	<u>RT600-HC</u>
UAV Engines Ltd	<u>AR731</u>
UAV Engines Ltd	<u>AR741</u>
UAV Engines Ltd	<u>AR682</u>
UAV Engines Ltd	<u>AR682R</u>
UAV Engines Ltd	<u>AR801</u>
UAV Engines Ltd	<u>AR801R</u>