

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2024-184
Item to be Scouted	Solid Rocket Motors
Days to be scouted	30
Response Due By	08/16/2024
Description	Also looking for sources that have the infrastructure to make Solid Rocket Motors (SRMs), even if they have not specifically considered SRMs before. This is to be part of the Cab-3A or Cab-3B, a family of rockets designed to put CubeSats into Low Earth Orbit individually
Notify Requester Immediately	Yes
State item to be used in	North Carolina

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	Other
Details	They have the infrastructure to make SRMs, even if they have not specifically considered SRMs before.
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Mix materials, pour mixture into mold, dry. Conditions are carefully controlled to avoid potential ignition.
Provide dimensions / size / tolerances / performance specifications for the item	<p>Mix materials, pour mixture into mold, dry. Conditions are carefully controlled to avoid potential ignition.</p> <p>Cannot provide additional information outside of NDA. (In part because exact specs may qualify as "technical data" in International Traffic in Arms Regulations (ITAR) concerns.</p> <p>But I can approximate it by saying, if one were to use the amateur model rocket classifications, most of the motors we seek would be considered S or T class, with some Q or R class.</p> <p>Prefer in filament-wound casing, though we can add casing ourselves if needed</p>
List required materials needed to make the product, including materials of product components	The usual materials are Hydroxyl-terminated Polybutadiene (HTPB), ammonium perchlorate, and aluminum powder, but we'll also listen to manufacturers who wish to suggest another mix.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	Yes
Details	<p>State dependent.</p> <p>Although, any manufacturer who does not already know what regulations apply to them is not one that we wish to do business.</p>
NAICS 1	336415 Guided missile and space vehicle propulsion unit and propulsion unit parts manufacturing
NAICS 2	

Additional Technical Comments	
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Section 4: Business Information

Estimated potential business volume	\$5,000,000 annual (100 rockets' worth / per year)
Estimated target price / unit cost information (if unavailable explain)	\$50,000 per rocket's worth (set of 4 motors, which collectively make the motors needed for one Cab-3A or Cab-3B, combined mass about 750 kg)
When is it needed by?	TBD: need quotes to get funding for the project
Describe packaging requirements	Pallets, individual packaging, and crates are all okay
Where will this item be shipped?	Within CONUS only

Additional Comments

Is there other information you would like to include?	Not outside of NDA. The ITAR problem described above is part of the reason.
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