
SOLE SOURCE JUSTIFICATION

1. Requisition Number (FAR 6.303-2): N62271 11RCBY603
2. Requesting Department (FAR 6.303-2):
Systems Engineering Department, Naval Postgraduate School, Monterey, CA
3. Contracting Activity (FAR 6.303-2): FISC San Diego
4. Identity of person(s) preparing justification (SUPARS 6.303-2):

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5. A brief description of intended use or application (FAR 6.303-2):

The autopilots and airframe will be used to conduct research in "saturation attacks," where dozens of unmanned aerial vehicles (UAVs) execute precision strikes nearly simultaneously. This research will potentially lead to advanced technologies to defeat such threats.

6. The critical or unique features which are mandatory in its intended use or application that limit their availability to single source. The NECESSITY for these features should be clearly indicated. Minimum essential requirements must be stated (FAR 6.303-2):

Procerus Technologies produces high quality, integrated, light-weight, and low-cost aerial systems. They offer the capability to procure a "turn-key" system, which means no need for specialized expensive tools as well as the many man-hours required to construct such a system. Additionally, the Procerus systems offer the ability to easily integrate with existing hardware. (Some of this existing hardware was purchased under N00244-05-P-2973) This becomes especially important in the context of the primary research proposal of developing advanced technologies to defend against "saturation attacks," where multiple UAVs execute precision strikes simultaneously and are therefore required to communicate between each other to coordinate the attack.

7. A statement that no other known product possesses one or a combination of all the required critical features. This statement should elaborate on the steps taken which led to the conclusion that only a particular source or product can meet the requirement. (i.e., market survey*, investigation of sources) (FAR 6.303-2):

An investigation of the major producers of robotic systems resulted in the determination that no other manufacturer could deliver a system that would be fully interoperable with existing hardware. Any hardware would need to be able to integrate with Procerus' proprietary software due to that network already existing at NPS. Changing that network would entail updating dozens of other systems and would become a much larger procurement than this requisition. Additionally, for researching new UAV designs the small unit Procerus offers is ideal. Its smaller footprint and low-power consumption allow for the design of smaller aircraft with fewer necessary battery units.

8. The existence of patent, copyright, or limiting features:

Some components are export limited, in particular the Kestrel autopilot.

9. Discuss, briefly, why the government does not have a specification and why it cannot write one for this procurement. Discuss also the actions, if any, the agency may take to remove or overcome any barriers to competition before any subsequent acquisitions for the supplies or services required. (FAR 6.303-2):

This is a very specialized system in a leading edge technology.

TECHNICAL COGNIZANCE

 - Juan Gonzalez 8/2/11

Luis de la Fuente
LUIS DE LA FUENTE
CONTRACTING OFFICER
APPROVED 8/16/11