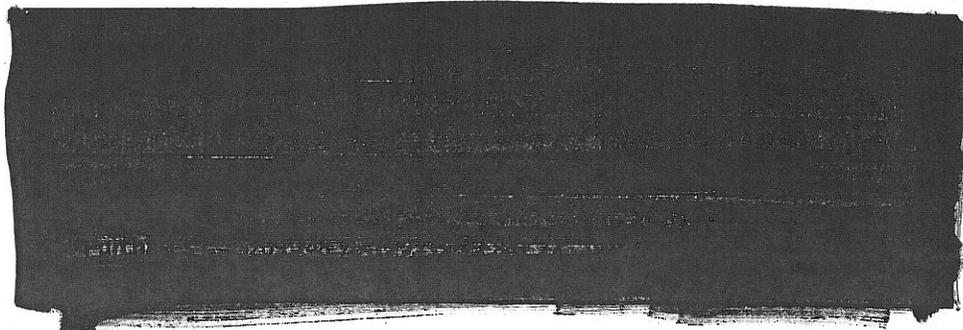


**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
NASA SHARED SERVICES CENTER**

LIMITED SOURCE JUSTIFICATION

I recommend that the NASA Shared Services Center (NSSC) negotiate with LCS Lyme Computer Systems, a value added reseller (VAR) holding a GSA Federal Supply Schedule, to establish a Blanket Purchase Agreement (BPA) to procure Solidworks license products and associated support. The BPA will include a one year base period and two one year options (i.e., three years total). This action will be awarded against GSA Schedule Contract GS-35F-4754G.

The total estimated cost of the BPA is [REDACTED] See the Independent Government Cost Estimate (IGCE) below for specific details on products and license counts:



This BPA will provide a vehicle to procure new and recurring government requirements for all NASA Centers beginning the fourth quarter of fiscal year (FY) 14. The establishment of a BPA is an excellent option for NASA, as an agency, to conveniently and efficiently procure new products at a reduced cost. A Solidworks BPA will also offer the NSSC the ability to negotiate improved discounts, satisfy new and recurring customer requirements, reduce administrative costs by eliminating repetitive acquisition efforts and greatly reduce procurement lead time, thus allowing the NSSC the ability to be more responsive to the Agency's needs. Furthermore, this BPA will enable all NASA Centers to leverage their combined buying power to obtain advantageous pricing, while simultaneously allowing the Agency to centrally track and manage Solidworks product purchases and costs. Transferability will also be available for NASA Centers through the BPA for existing licenses that have been procured through other contract vehicles.

This recommendation is made pursuant to FAR 8.405-6(b), Items Peculiar to One Manufacturer.

Alternative software solutions are impractical for the following reasons:

1. Only one source is capable of responding due to the unique specialized nature of the work, NASA's requirement for greater flexibility in software licensing, and the requirements for the period of performance (1 year base and 3 one year options). Solidworks software is proprietary to Solidworks. NASA currently owns numerous software packages developed by Solidworks. SolidWorks is an Enterprise Software for computer aided design (CAD), manufacturing, design, assembly of complex structures and systems. NASA leverages the Simulation functionality of Solidworks which does finite element structural analysis, and Composite material. The NASA researchers and engineers supporting multiple missions leverage the functionality of Solidworks such as the Solidworks Flow which solve computation fluid mechanics problems. NASA contractors at the Deployable Space Structure use Solidworks for enterprise assembly and for the deployment of large space structures. Currently Solidworks is leveraged both as a standalone item and to be used with network licenses for some of the following projects within the Agency:
 - LaRC-Environmentally Responsible Aviation (ERA) Airframe Technology;
 - Light Weight Structure; Pultruded Rod-Stiffened Efficient Unitized Structure (PRSEUS);

- Multi-bay Structural analysis, Design and Correlation with Langley COLTS Test article built at Boeing; ERA Integrated Systems Research;
- Innovative efficient structural design and optimization;
- Independent assessment; Concept development for the N+2 and N+3 generation aircrafts;
- Hybrid-Wing-Body (HWB);
- Advanced Mobility Concept (AMC-X) for structural weight reduction;
- Advanced Composite Technology Development supporting fuel efficiency and environmental benefits;
- Game Changing Space Technology: Solar Powered Spacecraft- Solar Array Structure; and,
- Directors Innovation Initiative Research: Internal Research and Development (IRAD) and Center Innovation Fund (CIF)
 - i. Truss Braced Wing Research and design.
 - ii. Innovative Multi-stage Lunar Lander and Habitat Design for Radiation protection for the Space Exploration Vehicle ORION Composite Capsule Design.

Additionally, Solidworks can be utilized with other CAD products in use within the Agency to develop bulk property predictions for highly anisotropic structures that support multiple missions throughout the Agency. Solidworks is leveraged within the Agency for numerous rapid design, development, tooling, fixture and lab apparatus concepts. The Quiet Flow Facility which is managed at NASA LaRC uses SolidWorks software to design their test/instrumentation set-ups, to design pieces of hardware needed in their tests and to generate drawings that technician can work from to fabricate needed parts. The Quiet Flow Facility also leverages SolidWorks software to develop the design of Broadband Engine Noise Simulators and other hardware components that were used in the Hybrid Wing Body Aeroacoustics test conducted in the 14x22ft tunnel in 2012 (Environmentally Responsible Aviation Project). SolidWorks software was also used to configure the layout of the test instrumentation for the latter test. Other engineers, researchers, and facility personnel, at various NASA Centers (e.g., Ames Research Center, Armstrong Flight Research Center, Glenn Research Center, Goddard Space Flight Center, Johnson Space Center, LaRC, and Marshall Space Flight Center) leverage Solidworks products to support numerous programmatic goals and objectives.

2. As the Agency has invested extensively in the projects/programs listed above, it would be cost prohibitive and would cause a major disruption of software availability and work production if the current solution is replaced. Market research found that the Agency made an estimated investment of approximately \$2.2M for the Solidworks licenses currently under support within the Agency. This \$2.2M does not include the cost of the infrastructure (servers/desktops) and labor to maintain the infrastructure and the various Solidworks implementations within the Agency. Today over 10 NASA sites and associated facilities have Solidworks products implemented. Every Center's contractor uses their Solidworks implementation differently based on their unique contractor requirement and processes. Their customizations have evolved over the years as they upgrade from older versions of Solidworks to the latest version. Moreover, this estimate does not fully account for a replacement product that may also require customization, expanded functionality, and training to meet the current capabilities and Mission needs that the current NASA Solidworks implementation provides to the various Centers and projects/programs.
3. The high amount of risk and increased cost (in excess of \$2.2M to replace the Solidworks licenses and infrastructure that is currently in the Agency) offsets the perceived benefits gained by considering alternative solutions. As such, no other supplies or services will satisfy the agency's requirements. The IGCE includes maintenance support cost for NASA's current Solidworks license install base. The remaining portion of the estimate accounts for additional purchases derived from the initial licenses, support and training that were procured at various NASA Centers which are anticipated to incrementally increase once the centralized BPA is in place for Agency use.
4. Pursuant to FAR 8.002, NASA has previously leveraged GSA Schedule 70 as a means to satisfy requirements for the procurement of Autodesk software and associated maintenance. Based on the market research that was performed, LCS Lyme Computer Systems, is the only VAR capable of meeting the government requirements.

Pursuant to FAR 8.404(a), BPAs and orders placed against a Multiple Award Schedule (MAS) are considered to be issued using full and open competition. Therefore, when establishing a BPA or placing orders under Federal Supply Schedule contracts using the procedures of 8.405, ordering activities shall not seek competition outside of the Federal Supply Schedules or synopsise the requirement.

Pursuant to FAR 8.404(d), GSA has already determined the prices of supplies and fixed-price services, and rates for services offered at hourly rates, under schedule contracts to be fair and reasonable. Therefore, ordering activities are not required to make a separate determination of fair and reasonable pricing, except for a price evaluation as required by 8.405-2(d). Since this requirement does not include a Statement of Work, the price evaluation will include a review of the GSA price list, a comparison of the proposed price with the IGCE and historical contract data from previous instruments.

The Contracting Officer conducted market research on GSA E-buy on 17 July 2014. Market research confirmed that Solidworks has only one VAR that is authorized by Solidworks to resell software licenses and associated support capable of meeting the government requirements. In accordance with FAR Subpart 8.002, Priorities for use of Government Supply Sources, NASA will satisfy the priority of fulfilling these requirements by utilizing an existing GSA Supply Schedule contract that has already been competed and the prices determined to be fair and reasonable in lieu of soliciting on the open market.

The Agency will continue to examine the market in the future for alternative solutions before executing any subsequent contract action for the requirements herein. Due to the nature of the expressed requirement, there are no known actions which the Agency may take to give consideration to other manufacturers for the requirements described herein.

I hereby certify the facts in this justification and any supporting data used for this justification are accurate and complete to the best of my knowledge for Autodesk product and service offerings.

[REDACTED]

Enterprise License Management Team (ELMT)
NASA Shared Services Center (NSSC)

I hereby certify that the above justification is complete and accurate to the best of my knowledge and belief. In addition, I hereby determine that the order represents the best value to the Government consistent with FAR 8.404(d)

[REDACTED]

Contracting Officer

CONCURRENCE:

[REDACTED]

Procurement Officer

APPROVAL:

[REDACTED]

NSSC Competition Advocate