



DEPARTMENT OF THE NAVY
NAVAL AIR WARFARE CENTER TRAINING SYSTEMS DIVISION
12211 SCIENCE DRIVE
ORLANDO, FLORIDA 32826-3275

IN REPLY REFER TO:
[REDACTED]

JUSTIFICATION AND APPROVAL
FOR USE OF OTHER THAN FULL AND OPEN COMPETITION

1. Contracting Activity.

Naval Air Warfare Center Training Systems Division (NAWC-TSD) - Orlando, FL

2. Description of the Action Being Approved.

This justification and approval authorizes and approves, on a sole source basis, a Firm-Fixed Price type contract award for the procurement of a CrewView Out-the-Window (OTW) Visual Display System (VDS) in support of the CH-47F Transportable Flight Proficiency Simulator (TFPS) program from the following entity:

Flight Safety International (FSI)
9517 Old McNeil Road
Austin, TX 78758

3. Description of Supplies/Services.

This acquisition is to procure a CrewView OTW VDS to be used on the CH-47F TFPS unit 23, which is being built by Manned Flight Simulator (MFS) at the Naval Air Systems Command in Patuxent River. The CrewView OTW VDS is a ruggedized wide collimated display system with a field-of-view of 180 degrees horizontally by 50 degrees vertically and is commercially built by FSI. The visual display system will also be comprised of 4 mirrors and their support structure, a back projection screen, 9 projectors with mounting hardware, 2 chin window displays, networking equipment and associated wiring. The VDS will also be ruggedized for transportation and will have an auto alignment capability. The estimated total value of this action is [REDACTED]. It is anticipated that the VDS will be delivered 15 months after the award date.

See Appendix A for Estimated Dollar Value

4. Statutory Authority Permitting Other Than Full and Open Competition.

The proposed action will be awarded on a sole source basis under the authority of the Test Program for Commercial Items (Section 4202 of the Clinger-Cohen Act of 1996) as stated in FAR Part 13.501(a)(1)(ii). The authority to issue solicitations under this subpart is permanent

5. Rationale Justifying Use of Cited Statutory Authority.

FSI developed the CrewView OTW VDS and is the only firm with the technical design that will exclusively interface with the TFPS. The CH-47F is a transportable simulator and all components are required to be ruggedized to survive movement of the simulator. Ruggedization requires designing components to be survivable during transportation via truck, ship and aircraft. Components may be subject to large forces during transportation and must not be damaged due to events that may occur while being transported. There are also continual vibrational forces that occur during transportation that the component must be protected against. All 22 TFPSs that have been built thus far have the FSI CrewView OTW VDS and utilize a common software load and a common hardware configuration created by FSI. The CrewView OTW VDS is an integral part of the TFPS as it displays the visual scene that the pilots look at while training. This VDS provides exceptional clarity to train pilots during day and night operations as well as enhanced Night Vision Goggle (NVG) stimulation for night-time NVG training. The CrewView VDS packages into and is completely contained within the enclosure when the TFPS is being transported, which is an essential Government requirement.

Market research has determined there is a commercial item available that can meet the needs of the agency and FAR Part 12.101(b) states that "agencies shall acquire commercial items or nondevelopmental items when they are available to meet the needs of the agency." Currently, the CrewView OTW VDS is the only commercially available VDS that is ruggedized and built for the TFPS. The CrewView OTW VDS fits inside the required structure for the TFPS. It connects to all available electrical and mechanical connections in the TFPS, and it receives and displays the generated scene correctly. The CrewView OTW VDS is solely manufactured and distributed by FSI. The Government has neither the intellectual property rights nor data necessary to provide to another contractor to develop a comparable OTW VDS. As the current sole designer, developer, integrator, manufacturer and supplier of CrewView OTW VDS, only FSI possesses the requisite knowledge, engineering expertise, and data rights of the design required to deliver the required VDS. FSI has invested in the proprietary design of this device and has not made it available for sale.

6. Description of Efforts Made to Solicit Offers from as Many Offerors as Practicable.

The proposed contract action was synopsisized on the FedBizOpps website on 04 December 2015, and no other potential sources expressed an interest in this requirement. Market research is continuously conducted to determine if there are sources capable of satisfying the Government's requirement within the TFPS program.

Additionally, an internet search was conducted in an attempt to locate other manufacturers of ruggedized Visual Display Systems. The search results indicated that no other rugged OTW VDSs are offered that meet the requirements of the TFPS. Commercially advertised VDS systems from Rockwell Collins, Q4 Services and Barco all use film mirror type systems which have been determined to not meet the ruggedization requirement of the TFPS.

Despite the Government's above-stated efforts to identify additional suppliers for the stated requirement, no company has demonstrated or expressed interest in the required capability.

7. Determination of Fair and Reasonable Cost.

In accordance with FAR Part 15.402, the contracting officer shall ensure that all supplies provided under this contract are procured at a fair and reasonable price. Additionally, per FAR Part 15.403-1(b)(3), the contracting officer shall not require certified cost or pricing data to support any actions when a commercial item is being acquired, therefore other than cost or pricing data related to prices (including, but not limited to, established catalog or market prices, prices for commercial items sold, or offered for sale to the public, or acquisition histories including prices paid for purchases of similar items) will be obtained as necessary to establish a fair and reasonable price. Price analyses will be conducted IAW FAR Part 15.404-1.

8. Actions to Remove Barriers to Future Competition.

For the reasons set forth in Paragraph 5, NAWC TSD has no plans at this time to compete future contracts for the types of supplies/services covered by this document. The CH-47F Transportable Flight Proficiency Simulator program and the Government will continue to monitor industry and Government sources for potential competition for this requirement. Furthermore, since development and installation of the CrewView OTW VDS requires specialized FSI support, any solicitation of additional/outside sources introduces non-value added efforts to the procurement (in other words) the introduction of other sources to sub-contract with FSI would only add cost, complexity, and time to the effort. If another potential source emerges, NAWC TSD will assess whether competition for future requirements is feasible.



Appendix A

Estimated Dollar Value in Thousands

	FY12	FY13	FY14	FY15	FY16	FY17	FY18	Total
APARMY								
Total								