

Technical Documentation

J&A Number: **09-365, SLAM-ER Titanium Warhead Housings**

J&A Template: One Source v1F

**Justification for Other than Full and Open Competition**

**6.302-1 Only one responsible source and no other supplies or services will satisfy agency requirements.**

T1. J&A Description:

J&A Number: **09-365**

Acquisition Name: **SLAM-ER Titanium Warhead Housings**

T2. Technical Point of Contact:

(b)(6)

**WHAT** is being acquired?

T3. Concisely describe the nature of this acquisition (i.e. What the item or service is and what function it will perform):

This acquisition is for the procurement of a maximum quantity of 222 Standoff Land Attack Missile, Expanded Response (SLAM-ER) titanium warhead housings through the issuance of an (IDIQ) fixed price contract to General Dynamics Ordnance and Tactical Systems (GD-OTS).

Since the inception of the SLAM-ER program, Naval Air Warfare Center - Weapons Division (NAWCWD) has been tasked by the Program Executive Officer-Unmanned Aviation and Strike Weapons (PEO-U &W) and Program Manager Assistant (PMA 201) to provide explosive loaded warheads as Government Furnished Material (GFM) to the prime contractor, (b)(5) (b)(5) for all development, LRIP, full rate production, and USN ordnance assessment testing requirements. This acquisition will be a follow-on contract to contracts N68936-01-C-0018 and N68936-04-D-0086 for full rate production of titanium warhead housings with GD-OTS. (b)(5)

Prior contracts N68936-95-C-0038 (full and open competition) for engineering, manufacturing, and development and N68936-97-C-0251 for Low Rate Initial Production (LRIP) warhead housings were with (b)(5) (b)(5) was purchased by GD-OTS.

T4. The estimated total dollar amount, including options, of this action is:

**\$ 11,500,000.00**

T5. This J&A approves the following type of action(s): (Coordinate with PCO)

Single action

- New Firm Fixed Price type IDIQ Contract

Class of actions. If this is a Class J&A, it covers actions through When.

- New Select Type of Contract type Select Action Type



**Technical Documentation**

J&A Number: **09-365, SLAM-ER Titanium Warhead Housings**

J&A Template: One Source v1F

**WHO** is the only source?

**T7. General Dynamics Ordnance and Tactical Systems** is the only source that can provide the above supplies or services and no other supplies or services will satisfy the program's requirements.

**WHY** is the source above the only one that can fulfill the requirement?

In accordance with Title 10 U.S.C 2304(c)(1) as cited in FAR 6.302-1, "Only one responsible source and no other supplies or services will satisfy agency requirements."

**T8. Only the specified source can provide the above described supplies or services due to: (Select from the following).**

**Insufficient Technical Data and / or Rights:** The Government does not possess adequate data and / or the rights necessary to competitively award this requirement.

▪ Explain why the technical data is necessary for this acquisition:

▪ Does the Government possess all the technical data required to competitively award this requirement?

Yes

• If Yes, explain why the Government does not possess sufficient data rights to competitively award this requirement:

• Could the necessary rights to the data be purchased?

Yes, the necessary rights could be purchased for an estimated \$

This amount was determined by

This amount is economically unfeasible due to

No, explain:

No

• If No, explain why the Government does not possess sufficient technical data to competitively award this requirement.

• If No, could the necessary technical data and rights be purchased?

Yes, the necessary data and rights could be purchased for \$

This amount was determined by

This amount is economically unfeasible due to

No, explain:

**Special Tooling:** Only the referenced source has access to special tooling which is necessary to fulfill this requirement.

▪ Explain why the special tooling is necessary for this acquisition:

▪ Could the necessary special tooling be purchased?

Yes, the necessary tooling could be purchased for an estimated \$

This amount was determined by

Technical Documentation

J&A Number: **09-365, SLAM-ER Titanium Warhead Housings**

J&A Template: One Source v1F

This amount is economically unfeasible due to

No, explain:

Substantial Duplication of Cost (for follow-on actions only): The above source is deemed to be the only source available because an award to a source other than the original provider would result in a substantial duplication of cost which would not be recovered through competition.

- An estimated \$            worth of work would be duplicated.
- Explain in detail how this amount was determined.

Unacceptable delay of work (for follow-on actions only): The above source is deemed to be the only source available because an award to a source other than the original provider would result in an unacceptable delay in fulfilling the Government's requirements.

- Going to another source would create a delay of
- Explain in detail how this delay estimate was determined.
- Explain in detail how the Government would be unable to meet its requirements by this delay.
- Describe the specified source's ability to provide the needed supplies / services within the necessary timeframe.

Other:

- Specify why only the stated source can provide the above supplies or services.

**Unique tooling, fixtures, and programming is required for the lathes, mills, Electronic Beam (EB) and Gas Tungsten Arc (GTA) welders, heat treat furnaces, as well as inspection equipment such as X-Ray, dye penetrate, and measuring devices to produce the SLAM-ER warheads. According to the lead warhead design and development engineer and an active member of the industrial source qualification team, there are manufacturing facilities able to machine titanium, but very few that have the capability to machine large diameter warhead housings from thick-walled Titanium forgings. The most difficult aspect of the warhead production is the EB welding. The manufacturer needs to have an EB welding machine that has four axes welding capability for a large titanium warhead housing. GD-OTS has the EB welding capability and proficiency required to manufacture the warheads and GD-OTS is still the only manufacturer that has commercial warhead housings that have successfully passed the SLAM-ER Missile Qualification Testing.**

Technical Documentation

J&A Number: **09-365, SLAM-ER Titanium Warhead Housings**

J&A Template: One Source v1F

**Background** *(Additional information)*

T9. Is there a supporting acquisition planning document for this program?

Yes

- If Yes, is the supporting acquisition planning document current?  
*(ensure legal counsel has a copy of the latest document)*

Yes, it is current as of

No, explain:

- If Yes, is this J&A consistent with the content of the supporting acquisition planning document, including MOPAS?

Yes, it is consistent.

No, explain:

No

- If No, why is there not a supporting acquisition planning document?

A supporting acquisition planning document is not required in accordance with DFARS **207.103 (d)(i)**.

Other, explain:

T10. Market Research and / or Survey:

Performed

- Describe the research and / or survey that was conducted:

**The titanium warhead manufacturing community is very small and known to the SLAM-ER Program personnel. This knowledge is maintained by the SLAM-ER support personnel by regularly attending the national and international National Defense Industrial Association Science and Engineering Technology conferences on warheads and fuzes. Two SLAM-ER support personnel attended the conference in 2008. The SLAM-ER support personnel also have regular exposure to the manufacturing community during technical briefings and exchanges within the warhead community. In addition, SLAM-ER support personnel are active members on the DOD Explosive Configuration Control Board held at Naval Surface Warfare Center Yorktown Detachment, and meet at least annually to discuss warhead and explosive loading issues. According to the lead warhead design and development engineer and an active member of the industrial source qualification team, there are manufacturing facilities able to machine titanium, but not the capability to machine large diameter warhead housings from thick-walled Titanium forgings. The most difficult aspect of the warhead production is the EB welding. GD-OTS is the only known company that has the EB welding capability and proficiency required and is still the only manufacturer that has commercial warhead housings that have successfully passed the SLAM-ER Missile Qualification Testing.**

Not Performed

- No market research or survey was conducted due to:

T11. Follow-on Contract Information: *(Required for all actions)*

Technical Documentation

J&A Number: **09-365, SLAM-ER Titanium Warhead Housings**

J&A Template: One Source v1F

Will this requirement be acquired again?

Yes

- If Yes, what is being done to remove barriers to competition?

Nothing, explain:

Actions such as:

- If Yes, will it be competed in the future?

No, explain:

Yes, on **when**.

No, this is a one time buy.

No, this a final buy.

Is this for a follow-on requirement?

Yes

- If Yes, is the previous J&A attached?

Yes

No, explain:

No



