

## **C-5 Nose Landing Gear Door Gearboxes (NSN 1680-01-159-9590 & 1680-01-159-9591)**

### **CAUTION:**

This market survey is being conducted to identify potential sources that may possess the **expertise, capabilities, and experience** to meet the requirements for qualification and production of the C-5 Nose Landing Gear (NLG) Door Gearboxes for use on United States Air Force (USAF) aircraft. The level of security clearance and amount of foreign participation in this requirement has not been determined. Contractors/Institutions responding to this market research are placed on notice that participation in this survey may not ensure participation in future solicitations or contract awards. The government will not reimburse participants for any expenses associated with their participation in this survey.

### **INSTRUCTIONS:**

1. The document(s) below contain a description of the NLG Door Gearboxes requirement and a Contractor Capability Survey. The Survey allows Contractors to provide their company's capability.
2. If, after reviewing these documents, you desire to participate in the market research, you should provide documentation that supports your company's capability in meeting these requirements. Failure to provide documentation may result in the government being unable to adequately assess your capabilities.
3. **ATTENTION: SMALL BUSINESS RESPONDENTS** who are interested in participation for this effort:
  - a. No set aside decision has been made; however, the Government will determine the final strategy after thorough analysis of the small business responses and other market research available, considering the demonstrated interest and capability. Please ensure that you provide a thorough response to each question. If your company does not currently possess the full capability required to fulfill the entire requirement, what teaming/partnership/joint venture/subcontracting arrangement do you have in place to fulfill the government needs? Providing evidence of this arrangement, e.g. emails, letter, etc. that demonstrates a united response to this SSS is highly encouraged, but not required. The evidence should state the type of arrangement and the role each member will fulfill. If you are only interested in being a subcontractor to the future awardee, state the portion of the work that your organization has capability of fulfilling.
  - b. Identify any areas of work that your organization believes should be broken out exclusively for Small Business.
4. Both large and small businesses are encouraged to participate in this Market Research. Joint ventures or teaming arrangements are encouraged.
5. Questions relative to this market survey should be addressed to Karen Beckford (Karen.Beckford@us.af.mil or J. McKenzie Grinstead (Jessica.Grinstead@us.af.mil)

## **C-5 Nose Landing Gear Door Gearboxes**

### **PURPOSE/DESCRIPTION**

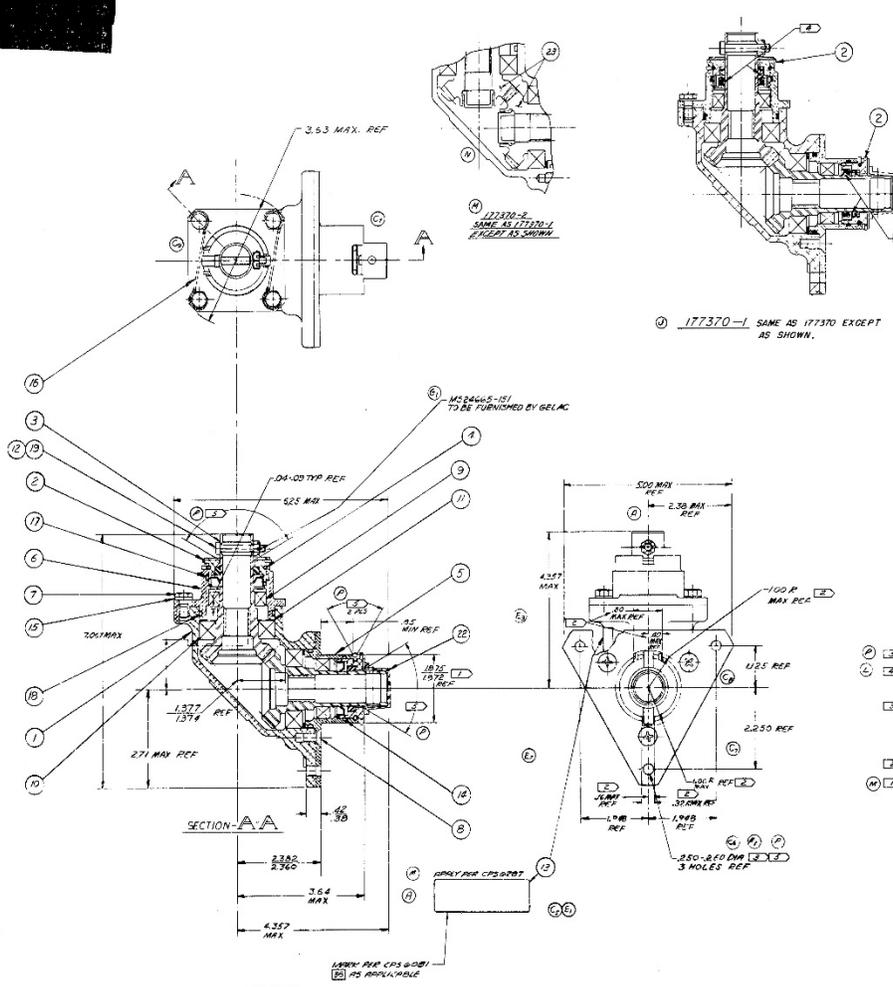
The Government is conducting market research to identify potential sources that possess the expertise, capabilities, and experience to meet qualification requirements for the overhaul of C-5 Nose Landing Gear Door Gearboxes NSNs: 1680-01-159-9590 & 1680-01-159-9591 Part Numbers 177370-2 & 177380-2 for USAF aircrafts. This overhaul effort will utilize a 10-year Requirements Type contract. It will include five (5) ordering periods, consisting of a 12-month basic period and four (4) additional 12-month ordering periods with a period of performance from date of award through five (5) years. It will include option of an additional five (5) years, consisting of five (5) 12-month ordering periods with a period of performance from the end of ordering period IV through five (5) years. The best estimated quantities for the basic year is 16 and a range from 13-18 for the following ordering periods.

These gearboxes are part of the C-5 Nose Landing Gear Door Actuation System. They are located within the nose wheel well and 1680-01-159-9590 provides a 90-degree and 1680-01-159-9591 a 45-degree change in the direction of the torque required to operate the nose landing gear doors. The gearboxes should be overhauled IAW with attached drawings. A drawing package is available & included as part of this market research.



Top-level Drawing  
 NSN: 1680-01-159-9590  
 PN: 177370-2

REV	NO	DESCRIPTION	DATE
A	1	SEE DCN 914	
B	1	SEE DCN 8970	
C	1	SEE DCN 2895	
D	1	SEE DCN 2895	
E	1	SEE DCN 3618	
F	1	SEE DCN 3702	
G	1	SEE DCN 3802	
H	1	SEE DCN 6436	
J	1	SEE DCN 7670	
K	1	SEE DCN 7736	
L	1	SEE DCN 7943	
M	1	SEE DCN 7943	
N	1	SEE DCN 7943	
U	1	SEE DCN 8004	
V	1	11071	



- ① DO NOT PAINT
- ② FILL CAVITY BETWEEN SEALS & SEAL LIP CAVITY WITH MIXTURE CONSISTING OF 1 PART MIL-C-7700 OIL & 3 PARTS MIL-G-23827 GREASE.
- ③ MOUNTING HOLE SIZE & MOUNTING ID ACCORD 150 MIN DIA MAX ITEM 41 CHANGE HOLES CONTROL MOUNTING BOLT FIT FOR HOLE SIZE BY .750 - .749 DIA ITEM 45 FLANGE HOLES PORTABLE COORDINATE
- ④ AIRFRAME MATING DIMENSIONS
- ⑤ NO PAINT ON HOLE DIAMETER GELAC TO INSTALL IN SURFITING WITH JAG. COORDINATE NUMBER PER PORTABLE COORDINATE SYSTEM ITEM 45 COMP L, COLONY Y
- ⑥ PACK ALL BEARINGS WITH MIXTURE CONSISTING OF 1 PART MIL-C-7700 OIL & 3 PARTS MIL-G-23827 GREASE
- ⑦ DO NOT REMOVE ASSEMBLY COAT OF OIL FROM BEARINGS AND DISCHARGE HOLES, DISCHARGE AND BEARINGS RESISTANCE WITH OIL COORDINATE NUMBER PER PORTABLE COORDINATE SYSTEM ITEM 45 COMP L, COLONY Y
- ⑧ THE TIGHTENING TORQUE FOR THE TIGHTENING SIZE BOLTS ARE .250 DIA. 50-70 IN LBS. MAKE SHIM ASSEMBLE GEARS & CHECK BACKLASH PER CFS 8750
- ⑨ LOCKWIRE PER M-SEALS
- ⑩ BUTTER ALL GEARS, SPLINES & O-RINGS THOROUGHLY DURING ASST. WITH A MIXTURE CONSISTING OF 1 PART MIL-C-7700 OIL & 3 PARTS MIL-G-23827 GREASE.
- ⑪ PAINT PER CFS 8750
- ⑫ SEE SEPARATE PARTS LIST
- ⑬ REVISION LEVEL OF PARTS LIST IS CONTROLLING REVISION OF ASSY

GELAC NO. 4F90016-119A FOR 177370  
 GELAC NO. 4F90016-119B FOR 177370-1  
 GELAC NO. 4G94043-111A FOR 177370-2

F33657-02-C-2117  
 CONTRACT NO. AF33-457-15053  
 F4169-82-6-0092

NO	REV	DESCRIPTION	DATE
1	1	177370-2 GEAR BOX ASST	
2	1	177370-1 GEAR BOX ASST	
3	1	177370 GEAR BOX ASST	

NO	REV	DESCRIPTION	DATE
1	1	177370-2 GEAR BOX ASST	
2	1	177370-1 GEAR BOX ASST	
3	1	177370 GEAR BOX ASST	

177370

177370-1

C591C-5A

# ***CONTRACTOR CAPABILITY SURVEY***

## **C-5 Nose Landing Gear Door Gearboxes**

### ***Part I. Business Information***

Please provide the following business information for your company/institution and for any teaming or joint venture partners:

- Company/Institute Name:
- Address:
- Point of Contact:
- CAGE Code:
- Phone Number:
- E-mail Address:
- Web Page URL:
  - Government Proposed North American Industry Classification System (NAICS) Code: 336413-Other Aircraft Parts and Auxiliary Equipment Manufacturing, 1,250 Employees, or 333612-Speed Changer, Industrial High-Speed Drive, and Gear Manufacturing, 750 Employees.

Based on the Government proposed NAICS Code, state whether your company is:

- Small Business (Yes / No)
- Woman Owned Small Business (Yes / No)
- Small Disadvantaged Business (Yes / No)
- 8(a) Certified (Yes / No)
- HUBZone Certified (Yes / No)
- Veteran Owned Small Business (Yes / No)
- Service Disabled Veteran Small Business (Yes / No)
- System for Award Management (SAM) (Yes / No)
  
- A statement as to whether your company is domestically or foreign owned (if foreign, please indicate the country of ownership).

Responses to the Capability Survey Part I and Part II must be received no later than close of business 29 September 2023. Please ensure data is in a readable electronic format that can be received through a firewall. Attachments shall not exceed 10 MB per email. Multiple emails are acceptable. Responses must be sent via email to the following:

- PCO: Karen Beckford (Karen.Beckford@us.af.mil)
- Program Manager: J. McKenzie Grinstead (Jessica.Grinstead@us.af.mil)

Questions relative to this market research should be addressed to the PM or PCO.

## ***Part II. Capability Survey Questions***

### **A. General Capability Questions:**

1. Describe briefly the capabilities of your facility and nature of the goods and/or services you provide. Include a description of your staff composition and management structure.
2. Describe your company's experience on previous projects similar in complexity to this requirement. Include contract numbers, a brief description of the work performed, period of performance, agency/organization supported, and individual point of contact (Contracting Officer or Program Manager).
3. What is your company's current maximum capacity per month for this particular type of requirement? Provide information on any facility reserves you may possess to increase capacity in the event of an immediate need to critical operational mission requirements.
4. What quality assurance processes and test qualification practices does your company employ? Provide a description of your quality program (ISO 9001, AS9100, etc.).
5. Describe your company's capabilities for generating, handling, processing, and storing classified material and data.

### **B. Overhaul Questions:**

1. Provide your commercial manual(s) or Acceptance Test Procedures (ATP) and your rights to these manuals and or ATP used in the depot level repair and functional check of these or similar assets for Government Engineer review.
2. Describe your configuration management processes and how you identify and resolve parts obsolescence and diminishing manufacturing sources problems?
3. Discuss your process for addressing any fit, form, and or function issues that may arise out of this effort.
4. Describe your process for maintaining inventory records and reporting on hand/work-in-process balances and repair status to your customer.
5. Include a detailed listing of facilities and equipment, including quantities, required to satisfy the requirements of this effort.
  - a. Provide an outline of the proposed process, including inspections.
6. If the item cannot be repaired in total, state what your organization can repair.

### **C. Commerciality Questions:**

1. Describe your standard warranty and return process for goods and services furnished to the government for items similar in nature to this requirement.