

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
GLENN RESEARCH CENTER (GRC)
CLEVELAND, OHIO**

JUSTIFICATION FOR AN EXCEPTION TO FAIR OPPORTUNITY

PR 4200565880

I. Description of Requirement

I recommend that Glenn Research Center (GRC) issue a modification for new work under Task Order NNC13TA07T with General Electric (GE) under Contract No. NNC10BA06B for rotor dynamics support to balance the Build 1 test rig with an on-site expert as well as on-call support and for on-site support for the teardown investigation as well as provide support to update and revise the current analytical rotor and bearing stiffness analyses to match the Build 1 test data to help with finding a root cause of the vibrations experienced during testing. Task Order NNC13TA07T supports the Environmentally Responsible Aviation (ERA) Phase II Advanced Compressor Technology demonstration project.

The proposed estimate of this new work modification is \$595,000.00.

II. Regulatory Basis for Exception to Fair Opportunity

The regulatory exception permitting other than fair opportunity is:

FAR 16.505(b)(2)(i)(B)- Only the aforementioned contractor is capable of providing the necessary supplies or services at the level of quality required because the supplies or services are unique or highly specialized.

III. Rationale In Support of Statutory Authority

In regards to the new work for root cause and tree fault analysis of the high vibrations experienced during aero-mechanical checkout and testing of the Build 1 rig, this work can only be completed by GE due to the proprietary nature of GE hardware making them the only company that can perform under the current task order.

In regards to the new work for the on-site support of the teardown investigation as well as providing support to update and revise the current analytical rotor and bearing stiffness analyses to match the Build 1 test data to help with finding a root cause of the vibrations experienced during testing this work can only be completed

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IV. Determination of Fair and Reasonable Cost

GE will be required to submit a proposal to be evaluated by the Contracting Officer and COR, with support from internal Price Analysts and external organizations (e.g. DCAA, DCMA) as needed. The guidance and techniques specified at FAR 15.404 and NFS 1815.404 will be followed during the proposal evaluation. If appropriate, price analysis and technical analysis per FAR 15.404-1(b) and (e), and NFS 1815.404-1(e) will be performed to determine and negotiate a fair and reasonable price. If price analysis is not appropriate, then cost analysis and technical analysis, per FAR 15.404-1(c) and (e), and NFS 1815.404-1(e) will be performed to determine and negotiate a fair and reasonable price.

V. Actions to Remove or Overcome Barriers to Competition

GE is the sole designing company that have intricately designed their proprietary compressor hardware and components to meet NASA GRC's test facilities and research requirements and also federal aviation requirements. GE is highly specialized in the design and fabrication of compressor hardware components along with numerous aviation design criteria that exists in the compressor environment. This exception to fair opportunity exists due to the fact that GE is the sole provider of the compressor hardware, compressor design, and engine cycle conditions required for the ERA system study required under ITD30A for direct drive turbine engines and no other company can perform under the current task order.