

BRAND NAME SOLE SOURCE JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION

Upon the basis of the following justification, I as Contracting Officer hereby approve use of the other than Full and Open competition for the proposed contractual action pursuant to the authority of 10 USC 2304(c)(1), only one responsible source and no other supplier or servicing activity will satisfy agency requirements, as implemented by FAR 6.302-1.

1. Contracting Activity

Naval Postgraduate School
Department of Contracting and Logistics
1 University Circle
Monterey, CA 93943

2. Description of the Action Being Approved

This Brand Name Justification is for the procurement of the high speed controller and data acquisition units (up to 10 MHz) for combustion research. National Instruments Hardware is currently in use at the Rocket Lab at other test cells and to ensure compatibility with the other controller units. This justification for other than full and open competition will be posted at the Government wide Point of Entry.

3. Description of Supplies/Services

These National Instrument Chassis contain the software/hardware interface to control and acquire the data for our experiments up to 10 MHz. This is a critical infrastructure of our lab to control our experiments.

List of Requirements:

780321-01 PXIe-1082, 8-Slot 3U PXI Express Chassis
Quantity 2

782522-01 NI PXIe-PCIe8381, x8 Gen2 MXI-Express for
PXI Express Interface, 3m Cable
Quantity 1

782361-01 NI PCIe-8381, x8 Gen2 MXI-Express for PXI
Express Interface
Quantity 1

782362-01 NI PXIe-8381, x8 Gen2 MXI-Express for PXI
Express Interface
Quantity 1

782317-05 x8 MXI-Express Cable, 5m
Quantity 1

783632-01 X Series PXIe-6355, 80 Analog Inputs, 1.25 MS/s, 24 DIO, 2 AO
Quantity 2

779129-01 NI PXI-6133 32 MS Memory S Series Multifunction DAQ Device
Quantity 1

781348-01 NI PXIe-4353 32-Channel, 24-bit, 90S/s Thermocouple Input Module, NI-DAQmx Driver, and LabVIEW SignalExpress LE
Quantity 3

778643-01 NI PXI 8-Slot Front Rack Mount Kit
Quantity 2

779556-01 BNC-2090A Rack-mountable accessory for 68-pin Multifunction DAQ
Quantity 2

782403-01 NI TC-4353 Mini TC Connector Terminal Block for PXIe-4353
Quantity 3

184749-02 Cable, Type SH68-68-EP, Shielded Cable, 2m
Quantity 3

191945-02 SHC68-68, Twisted Pair Cable with Basic Shielding, 2 m
Quantity 2

190668-03 SH96-96-1 Shielded Cable for Bank Isolated SC Express Modules, 3 meter
Quantity 3

The estimated cost is [REDACTED]

4. Statutory Authority Permitting Sole Source

FAR 6.302 -- Circumstances Permitting Other Than Full and Open Competition.

- 6.302-1 -- Only One Responsible Source and No Other Supplies or Services Will Satisfy Agency Requirements.

5. Rational Justifying Use of Cited Statutory Authority

Ongoing detonation and biofuel research at NPS requires precise control for combustion research and high speed data acquisition (up to 1 MHz +). These controls must be programmable and easily adapted for each individual experiment. This controller interfaces for precise and accurate regulation of our combustion gases, rapid control of valves and trigger cameras/diagnostics. This controller is directly compatible with our previous National Instrument hardware used in the other test cells.

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

National Instruments has nine small business Federal Resellers who will be notified of the solicitation.

7. Determination of Fair and Reasonable Cost

Costs will be determined fair and reasonable at time of award by the Contracting Officer and based on previous contracts and similar contracting efforts.

8. Market Research

Market research revealed that National Instruments is a GSA schedule contract holder. However, the required products are not all found under this GSA schedule. Further market research revealed National Instruments recognizes that U.S. government agencies are required to spend a percentage of funds with small businesses. In response to growing demand, NI now offers products through the nine Federal Resellers, all of which are small businesses.

9. Other Facts Supporting Use of Other Than Full and Open Competition

It would be cost prohibitive for the NPS Rocket Lab to replace its current infrastructure to accommodate a substitute product.

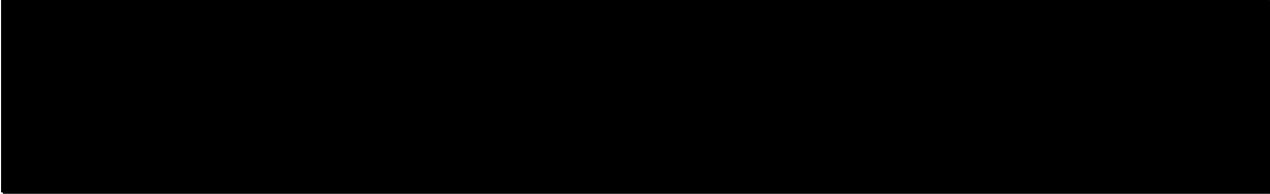
10. Actions to Remove Barriers to Future Competition

None.

CERTIFICATIONS AND APPROVAL

TECHNICAL/REQUIREMENTS CERTIFICATION

I certify that the facts and representations under my cognizance which are included in this Justification and its supporting acquisition planning documents, except as noted herein, are complete and accurate to the best of my knowledge and belief.



CONTRACTING OFFICER CERTIFICATION

To the extent that the LSJ value is between \$2,500 and \$150K for services and between \$3K and \$150K for products, the Contracting Officer's signature below also represents approval of the J&A/LSJ.

I certify that this Justification is accurate and complete to the best of my knowledge and belief.

