

# AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF	PAGES
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2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
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6. ISSUED BY <span style="float: right;">CODE</span>	7. ADMINISTERED BY (If other than Item 6) <span style="float: right;">CODE</span>
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8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)	(X)	9A. AMENDMENT OF SOLICITATION NO.
		9B. DATED (SEE ITEM 11)
		10A. MODIFICATION OF CONTRACT/ORDER NO.
		10B. DATED (SEE ITEM 11)
CODE		FACILITY CODE

### 11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing items 8 and 15, and returning \_\_\_\_\_ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment your desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

### 13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not,  is required to sign this document and return \_\_\_\_\_ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
15B. CONTRACTOR/OFFEROR  <span style="float: right;">(Signature of person authorized to sign)</span>	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA  <span style="float: right;">(Signature of Contracting Officer)</span>	16C. DATE SIGNED

The purpose of this amendment is to extend the solicitation due date, provide additional information and provide answers to questions received from potential offerors.

The hour and date specified for receipt of offers is extended to February 24, 2005.

Additional information is provided as follows:

The total stroke of the slides will be greater than 120" because the chamber is 144" x 144" however we are only looking at the center 120" for controlled motion. It may be required that the vertical slide be 11 or 11.5" long to anchor it to the horizontal slide or the floor and roof. Nevertheless, our target area is 120" x 120" centered.

Data values of accuracy, resolution repeatability, maximum velocity and velocity resolution (in inches or inch/sec), come from our specifications, which is a conglomerate of capabilities derived from our new positioner from Atlantic Positioning Systems or OEM component catalogs found on the internet.

The az and el positioner specifications are from the unit from Atlantic Positioning we just bought and are listed in the specification as "positioner data". The x-y plotter data is either derived based on the positioner at 30 feet from the plane of the plotter or data from OEM.

The following questions were received during the site visit conducted on January 31, 2005:

1. Q: What is the working depth?  
A: 14" per the drawing
2. Q: Is there roof access?  
A: Yes
3. Q: Does everything have to be in a 19" rack?  
A: The electronic gear that has a large power supply may be relocated if possible.
4. Q: How will the present slide and screw be disassembled?  
A: By hand
5. Q: What type of motion is required?  
A: Home, point to point, loop
6. Q: What output is required?  
A: Input position, encoded data readout with graphical presentation

7. Q: How long is allowed for installation?  
A: 2-3 weeks
8. Q: Rotation Stage
- Wobble in (arc sec)
  - Horn dimensions
  - Horn inertia
  - Horn center of gravity
  - Bandwidth
  - Suggest that a typical profile(s) are provided
- A: Rotational stage:
- We believe this a secondary effect and have not specified it.
  - 5"x5"x7"
  - unknown, weight 5 lbs.
  - approximately 4 inches in the 7" direction on the centerline
  - N/A
  - If you are referring to the horn, its profile is that of an empty ice cream cone held horizontally from the small end.
9. Q: XY- Plotter
- Shortest distance that must be traveled and the time it takes to do so
  - Longest distance needed to travel and the time it takes to do so
  - Suggest that a typical profile(s) are provided
- A: a. 0.07 inches, 210 in/sec average  
b. 120". 120 sec  
c. classified
10. Q: Metals - Should all exposed metals (for example: displacement sensor, encoders, etc.) be covered with Extern?  
A: The objective of the design is to have no exposed metal with the exception of the horn. For this system all exposed metal save the vertical strut is to be built below the top of the anechoic material. The primary design we wish is one in which the vertical strut is not of metal as explained in the specification however the only other possibility of exposed metal is if we are only able to meet the fall back criteria and then that must be covered on three sides with anechoic material
11. Q: Acoustic - What is maximum permissible noise the X-Y and Rotation Stage can emit? Best to specific dB at different frequency octaves.  
A: classified
12. Q: What is the shortest distance the horn will be moved and what is the fastest speed that the horn should move over that distance?  
A: The shortest distance the horn will be commanded to move will be of the order of 0.07 inches and the fastest velocity of the horn should be

in the range of 210 inch/sec "average" over the shortest distance.

13. Q: With regard to the installed acoustical cones in the chamber, who will be responsible for their removal and reinstallation in way of the modification to be performed?

A: The floor anechoic material is easily removable. The side and back wall material is glued on. We prefer not to remove it.