

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE _____ PAGE 1 OF 2 PAGES

2. AMENDMENT/MODIFICATION NO. 0001 3. EFFECTIVE DATE 5/6/2003 4. REQUISITION/PURCHASE REQ. NO. _____ 5. PROJECT NO. (If applicable) _____

6. ISSUED BY CODE N00173 7. ADMINISTERED BY (If other than Item 6) CODE _____
 CONTRACTING OFFICER
 NAVAL RESEARCH LABORATORY
 4555 OVERLOOK AVENUE SW
 WASHINGTON, DC 20375-5326
 ATTN: CODE: 3220.d1

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)
 ALL OFFERORS

(X) 9A. AMENDMENT OF SOLICITATION NO. N00173-03-R-DL06
 9B. DATED (SEE ITEM 11) 4/10/03

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.)

Please see Page 2.

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	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

This amendment is issued to answer questions from potential offerors.

Question 1. Is the tooling to be delivered with aligner required to perform vacuum contact on samples that are 3, or is vacuum contact only required semi spec substrates?

Answer. We have occasional users who wish to coat a glass slide with photo resist and then pattern it lithographically. These glass slides can be as much as 3mm thick. It is not necessary that the vacuum contact mode be used on these substrates. So the answer is: No, the machine is not required to perform vacuum contact on 3mm thick substrates, and related tooling is not required.

Question 2. Is Option two, laminar flow hood required to be in the bid?

Answer. The laminar flow hood is an optional item, and is not required as part of the basic award. Pricing for optional items should be quoted, however the options may be exercised in accordance with paragraph 2.B. Options on page 2 of the solicitation.

Question 3. Section 2.3. Why is a ball and collet system not acceptable?

Answer. The ball and collet system, although probably cheaper to manufacture, demands a high level of hands-on experience to efficiently adjust for wedge compensation when aligning. However, we are not going to use this equipment with an experienced, professional, full-time mask aligner technician who will specialize on this instrument. Our facility will provide service to a large number of relatively inexperienced users. They might be able to get first class results with minimum invested effort.

Question 4. Section 3.4. Can the interval be in 0.1 sec steps? Can the maximum time be less than 99.99 hours and if so what?

Answer. Since we are a research group, we would like the largest possible flexibility in the use of the instrument. Therefore, a minimum interval of 0.01 is better than 0.1 sec, and 100 hours is better than 1 hour. However, we could use an instrument that offered 0.1 sec and 10 hours for these parameters.

Question 5. 3.7 Exposure Repeatability. What time will be used at each exposure over the 5-hour period?

Answer. With 20 exposures, every 15 minutes over a 5-hour period, we could use anything from the minimum exposure offered (0.01 or 0.1 sec) up to 15 minutes.

Question 6. 4.1 General Description. If the range of magnification and depth of focus specified in 4.2 are met can a continuous zoom video microscope be submitted for the four-turret assembly microscope?

Answer. Our experience is that the resolution of the human eye through a fixed objective lens is much better than that obtained via a video image at the same magnification. This probably stems from the higher resolution of the retina versus the CCD elements in the camera. Therefore, a video zoom may not be substituted for the microscope requested.