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)*
0001	20 JUN 02	55-8111-02	

6. ISSUED BY CODE N00173

CONTRACTING OFFICER
NAVAL RESEARCH LABORATORY
ATTN: CODE 3220.MS
WASHINGTON, DC 20375-5326

7. ADMINISTERED BY *(If other than Item 6)* CODE

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

TO ALL OFFERORS

CODE | FACILITY CODE

(X) X

9A. AMENDMENT OF SOLICITATION NO. N00173-02-R-MS04

9B. DATED *(SEE ITEM 11)* 05 JUN 02

10A. MODIFICATION OF CONTRACT/ORDER NO.

10B. DATED *(SEE ITEM 11)*

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[X] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [X] 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.)*

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

The purpose of this amendment is to answer questions from potential offerors.

Question 1: Would you please clarify the requirement for ± 45-degrees of pitch and roll. To us, it appears that for a pedestal system, the need for roll and pitch displacement angles of 45 degrees may be excessive. Experience has shown that without planetary rotation (centrifuge), the pilot will feel tilt from the seat-of-the pants with less displacement. Usually a washout mode is used to excite the semicircular canal with combination of rapid pitch or roll to 30 or so degrees. The complimenting visual scene is the primary mode for continuing the pitch or roll illusion, while the pitch or bank angles are returned to near neutral at sub-threshold rates. Is the requirement for ± 45-degrees of pitch and roll hard and fast (without exception)?

Answer 1: The 45 degrees for roll and pitch is a hard requirement. The purpose of this device is to support psychological research concerning human vestibular mechanisms. The proposed device is not a flight simulator per se. If the device is manufactured to specification, it could also be used (with appropriate visual displays) to create the types of illusions alluded to by the questioner.

Question 2: Can you please tell us who would be the end user.

Answer 2: The primary end users will be experimental psychologists and computer scientists at the Naval Research Laboratory. Their collaborators may include researchers in government, academia, industry, and the military.

Question 3: Who will be answering our technical questions?

Answer 3: All technical questions received by the contracts office during the solicitation stage of the requirement are coordinate with the technical recognizance and answered via amendment to the solicitation.