

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 2
2. AMENDMENT/MODIFICATION NO. 000001	3. EFFECTIVE DATE 08/03/2009	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY NASA/Glenn Research Center Procurement Division, MS 500-305 21000 Brookpark Road Cleveland OH 44135-3127	CODE GRC	7. ADMINISTERED BY (If other than Item 6) NASA/Glenn Research Center Procurement Division, MS 500-305 21000 Brookpark Road Cleveland OH 44135-3127	CODE GRC
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(x) 9A. AMENDMENT OF SOLICITATION NO. NNC092R0001R	
		X 9B. DATED (SEE ITEM 11) 07/28/2009	
		10A. MODIFICATION OF CONTRACT/ORDER NO.	
		10B. DATED (SEE ITEM 13)	
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 1 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 ACKNOWLEDGEMENT 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 you 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.)

This Amendment No. 1 to NNC092R0001R uploads the table of contents contained under Section C - Statement of Work. The Offeror is required to indicate the Technology area(s) proposed in their proposal. The table of contents is attached to this Amendment No. 1.

See Provision L.28 entitled VOLUME IV - COMPLETED MODEL CONTRACT, AND SIGNED SF 33s on page 139 which requires Section C-1 Table of Contents to be completed and included as part of the model contract.

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) MICHAEL KINKELAAR
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	16B. UNITED STATES OF AMERICA <i>Michael Kinkelaar</i> (Signature of Contracting Officer)
15C. DATE SIGNED	16C. DATE SIGNED 8-3-09

C-1 STATEMENT OF WORK

Research and Technologies for Aerospace Propulsion Systems
(RTAPS)

TABLE OF CONTENTS

Offeror Please
Indicate Technology area(s) Proposed
(Check Appropriate Box)

1.0 Objective

2.0 Scope

- 2.1 Technology Area 1: Air Breathing Engine Technology**
 - 2.1.1 Concept Development and Systems Studies
 - 2.1.2 High Power Density Engine Turbomachinery
 - 2.1.3 Advanced Combustors and Alternative Fuels
 - 2.1.4 Low Noise Propulsion Technologies
 - 2.1.5 Inlets and Nozzles
 - 2.1.6 Variable and Hybrid Engine Systems
 - 2.1.7 Integrated Component Technology Demonstrations
 - 2.1.8 Engine Icing
 - 2.1.9 Materials and Structures
 - 2.1.10 Instrumentation, Controls and Communication

- 2.2 Technology Area 2: Propulsion Airframe Integration – Airframe Systems Technology**
 - 2.2.1 Concept Development and Systems Studies
 - 2.2.2 Airframe Integrated Inlets, Engines, & Exhaust Nozzles
 - 2.2.3 Airframe Icing

- 2.3 Technology Area 3: Integrated Rotorcraft Propulsion – Airframe Systems Technology**
 - 2.3.1 Concept Development and Systems Studies
 - 2.3.2 Advanced Transmission Technologies
 - 2.3.3 Integrated Propulsion System Technology Demonstrations
 - 2.3.4 Rotorcraft Icing
 - 2.3.5 Rotorcraft Health Management Technologies

- 2.4 Technology Area 4: Space Propulsion**
 - 2.4.1 Propulsion System Design and Trade Studies
 - 2.4.2 Non-toxic Chemical Propulsion Systems
 - 2.4.3 Hypergolic Propulsion Systems
 - 2.4.4 Propellant Systems
 - 2.4.5 Electric Propulsion
 - 2.4.6 Rocket-Based Combined Cycle Propulsion Systems

3.0 Work Requirements

Appendix C-1