

**ORDER FOR SUPPLIES OR SERVICES**

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. DASG60-02-D-0009		2. DELIVERY ORDER/ CALL NO. 0098		3. DATE OF ORDER/CALL (YYYYMMDD) 2004 May 26		4. REQ./ PURCH. REQUEST NO. NFY76210490302		5. PRIORITY		
6. ISSUED BY US ARMY SPACE & MISSILE DEFENSE COMMAND [REDACTED] PO BOX 1500 HUNTSVILLE AL 35807-3801			7. ADMINISTERED BY DCMA HUNTSVILLE BUILDING 4505, SUITE 301 MARTIN ROAD REDSTONE ARSENAL AL 35898-0001		7. ADMINISTERED BY (if other than 6)		CODE S0107A		8. DELIVERY FOB <input checked="" type="checkbox"/> DESTINATION <input type="checkbox"/> OTHER  (See Schedule if other)	
9. CONTRACTOR BAE SYSTEMS ANALYTICAL SOLUTIONS INC 1525 PERIMETER PKW, STE 500 HUNTSVILLE AL 35806			9. CONTRACTOR CODE OJLS6		FACILITY		10. DELIVER TO FOB POINT BY (Date) (YYYYMMDD) <b>SEE SCHEDULE</b>		11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED	
NAME AND ADDRESS							12. DISCOUNT TERMS		13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15	
14. SHIP TO <b>SEE SCHEDULE</b>			15. PAYMENT WILL BE MADE BY DFAS-DY/AIO 1050 FORRER BLVD DAYTON OH 45420-1472		CODE F03000				MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.	
16. TYPE OF ORDER		DELIVERY/ CALL		X		This delivery order/call is issued on another Government agency or in accordance with and subject to terms and conditions of above numbered contract.				
		PURCHASE				Reference your quote dated _____ REF _____ Furnish the following on terms specified herein.				
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.										
NAME OF CONTRACTOR			SIGNATURE			TYPED NAME AND TITLE			DATE SIGNED (YYYYMMDD)	
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:										
17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE <b>See Schedule</b>										
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/ SERVICES				20. QUANTITY ORDERED/ ACCEPTED*		21. UNIT	22. UNIT PRICE	23. AMOUNT
		<b>SEE SCHEDULE</b>								
		24. UNITED STATES OF AMERICA							25. TOTAL	\$242,500.00
		* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle.							26. DIFFERENCES	
27a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED										
b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE						c. DATE (YYYYMMDD)		d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		
e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE						28. SHIP NO.		29. DO VOUCHER NO.	30. INITIALS	
f. TELEPHONE NUMBER		g. E-MAIL ADDRESS				<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		32. PAID BY	33. AMOUNT VERIFIED CORRECT FOR	
<b>36. I certify this account is correct and proper for payment.</b>						31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL		34. CHECK NUMBER		
a. DATE (YYYYMMDD)		b. SIGNATURE AND TITLE OF CERTIFYING OFFICER						35. BILL OF LADING NO.		
37. RECEIVED AT		38. RECEIVED BY		39. DATE RECEIVED (YYYYMMDD)		40. TOTAL CONTAINERS		41. S/R ACCOUNT NO.	42. S/R VOUCHER NO.	

Section B - Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0001	SETAC - FP Labor COST	1	Lot	UNDEFINED	UNDEFINED
	Provide services outlined in the scope of work (SOW), as defined in a given task order (T/O), at the fixed prices/government labor category specified in Section B paragraph entitled, "GOVERNMENT LABOR CATEGORIES AND ASSOCIATED FIXED PRICES PER DPPH"				
	PURCHASE REQUEST NUMBER: NFY76210490302				
				MAX COST	\$157,500.00

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0003	Consultants COST	1	Lot	UNDEFINED	UNDEFINED
	Provide services outlined in the scope of work (SOW) at the cost reimbursable amounts as approved on a task-order-by-task-order basis. Total Fee, including prime and subcontractor/consultant, shall not exceed 3% of the estimated costs. This CLIN is valid during the three-year base period as well as any/all award term extensions earned by the contractor.				
	PURCHASE REQUEST NUMBER: NFY76210490302				
				MAX COST	\$0.00

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0004		1	Lot	UNDEFINED	UNDEFINED

Materials and STE

COST

Provide materials, special test equipment (STE), and associated services outlined in the individual task orders at the cost reimbursable amounts as approved by the T/OM and the Contracting Officer. NO FEE ON THIS CLIN. This CLIN is valid during the three-year base period as well as any/all award term extensions earned by the contractor.

PURCHASE REQUEST NUMBER: NFY76210490302

MAX COST

\$60,000.00

FOB: Destination

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0005		1	Lot	UNDEFINED	UNDEFINED

Travel

COST

Travel as directed in the individual task orders. Travel must be completed within the cost reimbursable amounts allowed per the Joint Travel Regulations and the DCAA-approved Company-Implemented Policy and Procedures. NO FEE ON THIS CLIN. This CLIN is valid during the three-year base period as well as any/all award term extensions earned by the contractor.

PURCHASE REQUEST NUMBER: NFY76210490302

MAX COST

\$25,000.00

FOB: Destination

BLOCK 17 / BLOCK 18 CONTINUED

TASK ORDER FUNDS REQUIRED \$ 242,500

TASK ORDER FUNDS AVAILABLE \$ 242,500

UNFUNDED BALANCE \$ -0-

BLOCK 18 (DD1155) CONTINUED: In the performance of this Task Order (T/O), the contractor shall provide the total Direct Productive Person Hours (DPPHs), plus or minus 10 percent, as stated for fixed-price labor categories stated in Section B of the contract listed in Block 1 of the DD Form 1155. These DPPHs shall be billed at the fixed price stated in Exhibit V of the contract. The contractor shall not exceed the DPPHs, nor the total dollars, stated for consultant below. The contractor is allowed to provide up to 10 percent less than the DPPHs stated for consultant

and still expend the total dollars as stated in the T/O. Furthermore, under no circumstance shall the contractor exceed the dollars stated for Materials, Travel, or Total T/O.

LABOR CATEGORIES: Labor categories are as listed in the contract, Section B, paragraph entitled "GOVERNMENT LABOR CATEGORIES AND ASSOCIATED FIXED PRICES PER DPPH"

	DPPHs ORDERED	NTE AMOUNT
FIXED-PRICE LABOR TOTAL	██████████ DPPHs	\$ 157,500
*CONSULTANT TOTAL	██████████ DPPHs	\$ -0-
T/O TOTAL LABOR	██████████ DPPHs	\$ 157,500
MATERIAL	NTE	\$ 60,000
TRAVEL	NTE	\$ 25,000
T/O TOTAL		\$ 242,500

\*Consultant requirements must have prior written approval of the Administrative Contracting Officer (ACO) (via subcontract consent package) before any costs are incurred under the consultant CLIN.

## Section C - Descriptions and Specifications

SOW

## “Beam Redistribution System (BRS)” Statement of Work

1.0 The contractor shall evaluate candidate actuators and drivers, assemble and test single mirror building block subsystems with these actuators, and explore ranges of operation and performance of the building blocks. Open loop and closed loop performance will be evaluated. A LABVIEW controller will be implemented for operation and control of the prototype building blocks. Drivers evaluated shall include existing systems from the actuator vendor, and potentially less costly systems using multi-channel Digital-to-Analog (D/A) converters and amplifier systems available commercially.

2.0 The contractor shall perform testing and evaluation of the individual actuators, drivers, and the building block subsystems to support the simulation development and refinement, and to generate system engineering and design data that can be extended to specific applications. At completion of this task order, the data acquired through testing and evaluation shall provide a blueprint to support the design of a specific BRS for the Mobile Tactical High Energy Laser (MTHEL), the Airborne Laser (ABL), the Advanced Tactical Laser (ATL), and for all other emerging high energy laser weapon systems requiring test and evaluation.

3.0 The contractor shall continue support of development and refinement of the MATLAB simulation, specifically to include hardware-specific and configuration-specific elements into the simulation. The simulation shall be used initially to predict performance, and then anchored to actual performance for modeling of future operational systems.

4.0 The contractor shall manage the total effort, perform systems engineering and system design, and provide requirements and specifications to subcontractors. The building block subsystems shall be tested in a vacuum tube, provided by NASA’s Marshall Space Flight Center (MSFC). The use of NASA MSFC’s facilities and personnel will be provided the Government. The contractor shall be responsible for total system integration, test and evaluation.

PERIOD OF PERFORMANCE

Date of Award – 23 April 05

KEY PERSONNELDELIVERABLES

Item/Title	CDRL#	# Copies	Delivery Date
Task Order Management Plan	A001	1 *	Per CDRL
Status Report	A002	1 *	30 July 04, Quarterly Thereafter
FMER	A003	1 *	Per CDRL
Interim Technical Report	A004	1 *	Monthly
Final Technical Report	A005	2 *	23 April 05

Data Accession List                      A007                      1 \*                      Per CDRL

\* Plus Electronic Version.

### TRAVEL

Except for the locations listed below, the contractor has no authority to incur travel costs without explicit written approval (email acceptable) of the Task Order Monitor. The contractor is not authorized to travel outside the United States without the explicit written approval (email acceptable) of the Contracting Officer. Under no circumstance shall the contractor incur travel costs in excess of the NTE amount stated herein. NTE: \$25,000

Eglin AFB, FL  
Edwards AFB, CA

AEDC, Tullahoma, TN  
Wright-Patterson AFB, OH

Kirtland AFB, NM  
Washington, DC

WSMR, NM

### MATERIALS

ESTIMATED COST FOR MATERIALS AND/OR SPECIAL TEST EQUIPMENT: The contractor has no authority to incur material costs without the explicit prior written approval of the contracting officer. Prior to forwarding requests to the contracting officer, the contractor shall obtain the Task Order Monitor's concurrence. Electronic Mail (email) shall be utilized for both steps in this process. Under no circumstance shall the contractor incur materials costs in excess of the NTE amount stated herein.  
NTE: \$60,000

### SPECIAL INSTRUCTIONS

Cost data shall be segregated/reported/vouchered/paid at the ACRN level.

The "Limitation of Funds" is applicable at the ACRN level.

The effort described in the Task Order Statement of Work anticipated to be performed in FY04-FY05, is subject to the Clause at FAR 52.232-18, Availability of Funds.

All of the terms and conditions of the contract listed in Block 1 above are applicable to this T/O.

All of the provisions and clauses of the contract listed in Block 1 above are applicable to this T/O.

The following Government Furnished Property or Test Facilities are available for use in performance of this Task Order:

- a. On-Site Requirements: If required to work on-site at the government location, the contractor will have access to office space and equipment required to perform the task order (as determined to be necessary and available by the task order monitor). Test Facilities will be provided at NASA MSFC (Vacuum Tubes for testing building block subsystems)
- b. Materials required for manufacturing and assembly – glass and coating, machining, tooling, and fixtures – will be purchased via NASA and will be provided in this task.

It is incumbent upon the contractor and/or subcontractor to ensure that appropriate Technical Assistance Agreements (TAAs) and/or applicable export licenses are in place before conducting any activity under the SOW which requires such approval and documentation.

### TASK ORDER DISTRIBUTION

TASK ORDER MONITOR: [REDACTED]  
[REDACTED]

MAILING ADDRESS: [REDACTED]

PROGRAM MANAGEMENT POC: [REDACTED]  
[REDACTED]

MAILING ADDRESS: [REDACTED]

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 574 3600 294 4721 696997 7M4B80 59712 000000 503000 F03000 JON:DZZE0044 FSR:079491 PSR:819818 DSR:011829  
AMOUNT: \$242,500.00