

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. DASG60-02-D-0011	2. DELIVERY ORDER/ CALL NO. 001217	3. DATE OF ORDER/CALL 2002 Apr 24	4. REQ./ PURCH. REQUEST NO. TH2MSL1AAE-01	5. PRIORITY DX-A2
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6. ISSUED BY US ARMY SPACE & MISSILE DEFENSE COMMAND PO BOX 1500 HUNTSVILLE AL 35807-3801	CODE W9113M	7. ADMINISTERED BY DCMA HUNTSVILLE BUILDING 4505, SUITE 301 MARTIN ROAD REDSTONE ARSENAL AL 35898-0001	CODE S0107A	8. DELIVERY FOB <input checked="" type="checkbox"/> DEST <input type="checkbox"/> OTHER (See Schedule if other)
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9. CONTRACTOR TELEDYNE SOLUTIONS, INC 5000 BRADFORD DRIVE HUNTSVILLE AL 35805	CODE 1P9G8	FACILITY	10. DELIVER TO FOB POINT BY (Date) SEE SCHEDULE	11. MARK IF BUSINESS IS <input type="checkbox"/> SMALL <input type="checkbox"/> SMALL DISADVANTAGED <input type="checkbox"/> WOMEN-OWNED
			12. DISCOUNT TERMS	
13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15				

14. SHIP TO SEE SCHEDULE	CODE	15. PAYMENT WILL BE MADE BY DFAS-COLUMBUS CENTER DFAS-CO/SOUTH ENTITLEMENT OPERATION P.O. BOX 182264 COLUMBUS OH 43218-2264	CODE HQ0338	MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.
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16. TYPE OF ORDER	DELIVERY/ CALL	<input checked="" type="checkbox"/>	This delivery order/call is issued on another Govt. agency or in accordance with and subject to terms and conditions of above numbered contract.
	PURCHASE		Reference your quote dated Furnish the following on terms specified herein. REF:

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)
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If this box is marked, supplier must sign Acceptance and return the following number of copies:

17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE
See Schedule

18. ITEM NO.	19. SCHEDULE OF SUPPLIES/ SERVICES	20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT
SEE SCHEDULE					

<i>* 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.</i>	24. UNITED STATES OF AMERICA	25. TOTAL \$1,646,000.00
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26. 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 DATE _____ SIGNATURE OF AUTHORIZED GOVT. REP. _____	27. SHIP NO.	28. DO VOUCHER NO.	30. INITIALS	33. AMOUNT VERIFIED CORRECT FOR
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36. I certify this account is correct and proper for payment. DATE _____ SIGNATURE AND TITLE OF CERTIFYING OFFICER _____	31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	32. PAID BY	34. CHECK NUMBER	35. BILL OF LADING NO.
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37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED (YYYYMMDD)	40. TOTAL CONTAINERS	41. S/R ACCOUNT NO.	42. S/R VOUCHER NO.
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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: TH2MSL1AAE-01				
				MAX COST	\$1,491,000.00

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: TH2MSL1AAE-01				
				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: TH2MSL1AAE-01

MAX COST \$0.00

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: TH2MSL1AAE-01

MAX COST \$155,000.00

FOB: Destination

BLOCK 17/BLOCK 18 CONTINUED

BLOCK 17 (DD1155) CONTINUED:

TASK ORDER FUNDS REQUIRED \$1,646,000

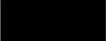
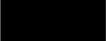
TASK ORDER FUNDS AVAILABLE \$1,445,000

UNFUNDED BALANCE \$ 201,000

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	\$1,491,000
*CONSULTANT TOTAL	 DPPHs	\$0
T/O TOTAL LABOR	 DPPHs	\$1,491,000
MATERIAL	NTE	\$0
TRAVEL	NTE	\$155,000
T/O TOTAL		\$1,646,000

**Consultant requirements must have prior written approval of the Administrative Contracting Officer

Section C - Descriptions and Specifications

STATEMENT OF WORK

THAAD Tactical Environments Analysis Effort

1.0 The contractor shall analyze and simulate the THAAD system and segments for the effects caused by natural, induced, and survivability environments. Table 1 contains some of the environments that THAAD must withstand and operate in.

Table 1
THAAD Design Environments

Natural Environments	Induced Environments	Survivability
Temperature	Acceleration	Nuclear (Ground & In-flight)
Temperature Shock	Basic Trans - Common Carrier	Nuclear, Chemical, Biological
Atmospheric Pressure	Basic Trans - Mission/Field	Conventional
Humidity	Flight	Distinctive Signature Minimization
Sand	Vibration	High Altitude Electromagnetic Pulse
Dust	Basic Trans - Common Carrier	Information Warfare
Direct Strike –Lightning	Basic Trans - Mission/Field	Directed Energy Weapons
Indirect Field –Lightning	Tactical Transportation	
Precipitation	Launch Ignition	
Falling Snow	Adjacent Missile Launch	
Blowing Snow	Flight	
Snow Load	Acoustics	
Frost	Shock	
Rime Ice	Rail Impact	
Clear Glaze	Transit Drop	
Salt Fog	Bench Drop	
Fungus	Launch	
Solar Radiation		
Wind		
Wind Shear		

1.1 The contractor shall propose tactical environment mitigation techniques (hardware, software, and operational) for the THAAD weapon system.

1.2 The contractor shall propose risk mitigation tests based upon the analysis and simulations it conducted.

1.3 The contractor shall analyze and evaluate the transition of DACS Thruster and DACS System testing from Redstone Technical Test Center (RTTC) at Redstone Arsenal, AL to the Air Force Research Laboratory (AFRL) at Edwards Air Force Base, CA. Evaluation shall include the adequacy of the transition plan, the test subcontractor's facility design and planning, test set up, and the schedule for transition. The contractor shall monitor the test subcontractor's compliance to the test plan and schedule and provide weekly status to the THAAD Project Office DACS IPT Lead.

1.4 The contractor shall provide technical analysis and recommendations for problem resolution for DACS Thruster and DACS System performed at AFRL including participation and support of Test Readiness Reviews, test monitoring, and post test data review.

1.5 The contractor shall interface, as required, with the THAAD prime contractor, Lockheed Martin Space Systems Company, Sunnyvale, CA; the Simulation/Independent Verification and Validation contractor, COLSA Corporation, Huntsville, AL; the Hardware-in-the-Loop contractor, Tech.

PERIOD OF PERFORMANCE

PERIOD OF PERFORMANCE: 24 APR 02 – 31 DEC 05

KEY PERSONNEL

KEY PERSONNEL: 

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: \$ 0

TRAVEL

ESTIMATED TRAVEL: Except for the locations listed below, the contractor has no authority to incur travel costs without explicit written approval (Email is 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 circumstances shall the contractor incur travel costs in excess of the NTE amount stated herein. NTE: \$155,000

Sunnyvale, CA
Canoga Park, CA (BOEING/Rocketdyne)
AFLR, Edwards Air Force Base

DELIVERABLES

DELIVERABLES:

Item/Title	CDRL#	# Copies	Delivery Date
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Task Order Management Plan	A001	1 *	Per CDRL
FMER	A003	1 *	Per CDRL
Interim Technical Report/ Briefings	A004	1 *	As Required
Final Technical Report	A005	1 *	31 DEC 05
Conference Minutes	A006	1	Per CDRL
Data Accession List	A007	1	Per CDRL

* Plus Electronic Version.

SPECIAL INSTRUCTIONS

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, which is anticipated to be performed in FY02-FY04, 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.

No Government Furnished Property or Test Facilities are available for use in performance of this Task Order.

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.

DISTRIBUTION

TASK ORDER MONITOR: [REDACTED]

MAILING ADDRESS: [REDACTED]

PROGRAM MANAGEMENT POC: [REDACTED]

MAILING ADDRESS: [REDACTED]

PROGRAM ANALYST POC:

[REDACTED]

MAILING ADDRESS:

[REDACTED]

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 9720400.2501 BM-THAD 50604861C00.2012 255Y TH2MSL1AAE S01021 TH2MSL1AAE/2THEMD/TH
COST 000000000000
CODE:
AMOUNT: \$320,000.00

AB: 9730400.2501 BM-THAD 50604861C00.2011 255Y TH3MSL1AA5 S01021 TH3MSL1AA5/3THEMD/TH
AMOUNT: \$584,000.00

AC: 9720400.2501 BM-THAD 50604861C00.2012 255Y TH2SRE1ZA4 S01021 TH2SRE1ZA4/2THEMD/TH
AMOUNT: \$18,000.00

AD: 9730400.2501 BM-THAD 50604861C00.2012 255Y TH3SRE1ZA1 S01021 TH3SRE1ZA1/3THEMD/TH
AMOUNT: \$20,000.00

AE: 9740400.2501 BM-THAD 40603881C00.0707 255Y TH4MSL1AA5 S01021 TH4MSL1AA5/4THEMD/TH0000
AMOUNT: \$348,000.00

AF: 9740400.2501 BM-THAD 40603881C00.0707 255Y TH4SRE1WA1 S01021 TH4SRE1WA1/4THEMD/TH0000
AMOUNT: \$60,000.00

AG: 9740400.2501 BM-THAD 40603881C00.0707 255Y TH4MSL1AA6 S01021 TH4MSL1AA6/4THEMD/TH0000
AMOUNT: \$5,000.00

AH: 9750400.2501 BM-THAD 40603881C00.0707 255Y TH5MSL1AA5 S01021 TH5MSL1AA5/5THEMD/TH0000
AMOUNT: \$90,000.00