

# ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. <b>DASG60-02-D-0011</b>	2. DELIVERY ORDER/ CALL NO. <b>004025</b>	3. DATE OF ORDER/CALL <b>2002 Oct 23</b>	4. REQ./ PURCH. REQUEST NO. <b>TH2SRE1HA3-01</b>	5. PRIORITY <b>DX-A2</b>
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6. ISSUED BY US ARMY SPACE & MISSILE DEFENSE COMMAND PO BOX 1500 HUNTSVILLE AL 35807-3801	CODE <b>W9113M</b>	7. ADMINISTERED BY DCMA HUNTSVILLE BUILDING 4505, SUITE 301 MARTIN ROAD REDSTONE ARSENAL AL 35898-0001	CODE <b>S0107A</b>
8. DELIVERY FOB <input checked="" type="checkbox"/> DEST <input type="checkbox"/> OTHER (See Schedule if other)			

9. CONTRACTOR TELEDYNE SOLUTIONS, INC 5000 BRADFORD DRIVE HUNTSVILLE AL 35805	CODE <b>1P9G8</b>	FACILITY	10. DELIVER TO FOB POINT BY (Date) <b>SEE SCHEDULE</b>	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 <b>See Item 15</b>				

14. SHIP TO <b>SEE SCHEDULE</b>	CODE	15. PAYMENT WILL BE MADE BY DFAS-COLUMBUS CENTER DFAS-CO/SOUTH ENTITLEMENT OPERATION P.O. BOX 182264 COLUMBUS OH 43218-2264	CODE <b>HQ0338</b>	<b>MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.</b>
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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)
<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  
**See Schedule**

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

* 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.	24. UNITED STATES OF AMERICA 25. TOTAL \$2,665,300.00 29. DIFFERENCES
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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.  <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	28. DO VOUCHER NO.  32. PAID BY	30. INITIALS	33. AMOUNT VERIFIED CORRECT FOR  34. CHECK NUMBER  35. BILL OF LADING NO.
36. I certify this account is correct and proper for payment. DATE _____ SIGNATURE AND TITLE OF CERTIFYING OFFICER _____				

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: TH2SRE1HA3-01				
				MAX COST	\$2,564,638.00

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: TH2SRE1HA3-01				
				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: TH2SRE1HA3-01

MAX COST

\$14,850.00

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: TH2SRE1HA3-01

MAX COST

\$85,812.00

FOB: Destination

BLOCK 17/BLOCK 18 CONTINUED

## BLOCK 17 (DD1155) CONTINUED:

TASK ORDER FUNDS REQUIRED \$2,665,300

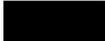
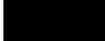
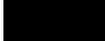
TASK ORDER FUNDS AVAILABLE \$1,527,688

UNFUNDED BALANCE \$1,137,612

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	\$2,564,638
*CONSULTANT TOTAL	 DPPHs	\$ 0
T/O TOTAL LABOR	 DPPHs	\$2,564,638
MATERIAL	NTE	\$ 14,850
TRAVEL	NTE	\$ 85,812
T/O TOTAL		\$2,665,300

\*\*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

### B - POP

PERIOD OF PERFORMANCE: 23 OCT 02 – 31 DEC 05

### G - 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-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:

- Digital Integrated Combat Evaluator (DICE) Updates
- Strategic and Theater Attack Modeling Process (STAMP) Updates
- SMDC Simulation Center Access
- Optical Signature Code (OSC) Updates
- Parametric Endo/Exo Lethality Simulation (PEELS) Updates
- XPATCH(Radar Cross-Section Code) Updates

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.

The following contract clauses are applicable to this task order: FAR 52.228-3, Worker’s Compensation Insurance (Defense Base Act); FAR 52.228-4, Workers Compensation and War Hazard Insurance Overseas; DFARS 252.228-7000, Reimbursement for War Hazard Losses; DFARS 252.228-7003 – Capture and Detention; DFARS 252.225-7043, Antiterrorism/Force Protection Policy for Defense Contractors Outside the United States; DFARS 252.209-7001, Disclosure of Ownership or Control by the Government of a Terrorist Country; and Section H clauses entitled “Contingency/War Clause” and “Services Furnished by the Government”. Prior to the contractor deploying any employee outside the United States in support of this task order, the contractor shall coordinate a Risk Assessment Plan (including a liability estimation) with the SETAC Contracting Officer.

### A - SOW

“THAAD System Analysis and MDA Wargame Support” Statement of Work (SOW replaced in its entirety – Modification 04; T/ORP #0009)

1.0 The contractor shall conduct THAAD Element performance assessments, trade studies, growth analyses, Technical Objectives and Goals (TOG) requirements evaluation and provide element performance impacts and related documentation to support study results; integrate Force-on-Force (FoF) Verification, Validation and

Accreditation (VV&A) activities and provide supporting documentation; execute activities required to support wargame and exercise support; interact and coordinate with external agencies:

1.1 THAAD Element Performance Assessments. The contractor shall provide systems engineering and technical assessments of the THAAD Element performance. THAAD Element Performance is an analysis task which quantifies system performance indices. The contractor shall perform these performance assessments using the program approved Prime Contractor suite of Models and Simulations (M&S) and corresponding THAAD program build inputs. The contractor shall report THAAD performance assessments consistent with defined program scenarios, Measures of Merit (MoM) and Technical Performance Measures (TPMs). Analysis findings and recommendations shall be documented via briefings or white papers.

1.2 THAAD Element Trade/Growth Analyses. The contractor shall support component trade/growth assessments and report the overall improvements/impacts on THAAD Element performance. The contractor shall use program approved Prime Contractor and in-house M&S tools to quantify performance gains/shortfalls against THAAD Element baseline performance characterizations. The Contractor shall provide Missile Component performance data inputs, as required by FoF M&S supporting trade/growth analysis tasks. Analysis findings and recommendations shall be documented via briefings or white papers.

1.3 Force-on-Force Simulation VV&A Task Lead. The contractor shall serve as the lead Point of Contact (POC) for all Verification, Validation and Accreditation activities for THAAD Force-on-Force (FoF) M&S. In support of M&S Verification and Validation (V&V) activities, the contractor shall develop, document and validate FoF M&S input parameters consistent with THAAD Prime Contractor system performance estimates, using Prime Contractor simulation tools, for each element build release. The contractor shall also develop the necessary V&V data, briefings and corresponding documentation to support the Accreditation process for THAAD FoF M&S.

1.4 Wargame And Exercise Support. The contractor shall develop and execute activities, consistent with conditions that will be experienced during the event to demonstrate that event objectives can be achieved and to characterize a THAAD Cell Concept of Operations (CONOPS). The contractor shall proactively support THAAD M&S software/hardware integration activities prior to participation in the event, development of M&S inputs reflecting THAAD Element build release, identify and document potential issues, and provide proposed resolution plans. The contractor shall also assist in coordinating inventory, shipping and receipt of equipment in support of the event.

1.5 THAAD Element TOG Requirements Evaluation. The contractor shall proactively support evaluation of the THAAD Element Technical Objectives and Goals (TOG) document against each THAAD block upgrade. The contractor shall develop a cross-reference of THAAD Element performance analyses substantiating the TOG and THAAD System Specifications, identify disconnects, propose additional analyses and document analysis findings. Analysis findings and recommendations shall be documented via briefings or white papers.

1.6 External Agency Technical Assessment Support. The contractor shall support external agency technical assessments of the THAAD Element performance. The contractor shall provide assistance with THAAD Element technical expertise, development of FoF and High Fidelity Missile Component M&S inputs reflecting THAAD Element build release, preparation of external agency Technical Interchange Meetings (TIMs), development of briefings, analysis and corresponding documentation as needed.

2.0 Interface With Other THAAD Contractors: As directed by the T/OM, the contractor shall interface with the THAAD Prime Contractor, Lockheed Martin Missiles and Space Corporation, Sunnyvale, California and in Huntsville, Alabama, to include their subcontractors; the THAAD Evaluation Center (TEC) and support contractors at AMRDEC; the Software Engineering Directorate (SED) and support contractors, and other support contractors in performance of this task order.

F - MATERIAL

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: \$14,850

E - TRAVEL

ESTIMATED TRAVEL: 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: \$85,812

D - DELIVERABLES

## DELIVERABLES:

Item/Title	CDRL#	# Copies	Delivery Date
Task Order Management Plan	A001	1*	Per CDRL
FMER	A003	1*	Per CDRL
Final Technical Report	A005	1*	31 DEC 05
Conference Minutes	A006	1	Per CDRL

\* Plus Electronic Version.

H - DISTRIBUTION

TASK ORDER MONITOR: [REDACTED]

MAILING ADDRESS: [REDACTED]

PROGRAM MANAGEMENT POC: [REDACTED]

MAILING ADDRESS: [REDACTED]

PROGRAM ANALYST POC: [REDACTED]

MAILING ADDRESS: [REDACTED]

C - KEY PERSONNEL  
KEY PERSONNEL: TBD

## Section G - Contract Administration Data

## ACCOUNTING AND APPROPRIATION DATA

AA: 9720400.2501 BM-THAD 50604861C00.2012 255Y TH2SRE1HA3 S01021 TH2SRE1HA3/2THEMD/TH  
COST 000000000000  
CODE:  
AMOUNT: \$42,800.00

AB: 973 0400.2501 36-6011 P40603880C00-2514 DR3C721000 S01021 DR3C721000/3HHN64/H  
AMOUNT: \$20,000.00

AC: 9730400 2520 40603880C 2525 BMDO0127572742 012123  
AMOUNT: \$32,000.00

AD: 9730400.2501 BM-THAD 50604861C00.2011 255Y TH3SRE1GA4 S01021 TH3SRE1GA42/3THEMD/TH  
AMOUNT: \$100,000.00

AE: 9730400.2501 BM-THAD 50604861C00.2011 255Y TH3SRE1GA5 S01021 TH3SRE1GA5/3THEMD/TH  
AMOUNT: \$30,000.00

AF: 9730400.2501 BM-THAD 50604861C00.2011 255Y TH3TST9FA4 S01021 TH3TST9FA4/3THEMD/TH  
AMOUNT: \$137,000.00

AG: 9730400.2501 BM-THAD 50604861C00.2011 255Y TH3SRE1GA6 S01021 TH3SRE1GA6/3THEMD/TH  
AMOUNT: \$50,000.00

AH: 9730400 2520 40603880C 2525 BMDO0135635648 012123  
AMOUNT: \$15,426.00

AJ: 9730400.2520 40603880C 2522 BMDO0135896151 012123  
AMOUNT: \$13,000.00

AK: 973 0400 2520 40603880C 2525 BMDO0135846073 012123  
AMOUNT: \$7,316.00

AL: 9730400 2520 40603880C 2525 BMDO0135846077 012123  
AMOUNT: \$4,624.00

AM: 9740400.2520 40603889C 2525 BMDO0136807821 012123  
AMOUNT: \$56,427.00

AN: 9740400.2501 BM-THAD 40603881C00.0707 255Y TH4TST9FA8 S01021 TH4TST9FA8/4THEMD/TH0000  
AMOUNT: \$266,000.00

AP: 974 0400.2501 36-6011 P0603890C00-2514 DR4C770400 S01021 DR4C770400/4HHM19/H  
AMOUNT: \$10,000.00

AQ: 9740400 2520 40603889C 2525 BMDO0137519495 012123  
AMOUNT: \$2,450.00

AR: 9740400.2501 BM-THAD 40603881C00.0707 255Y TH4SRE1HA3 S01021 TH4SRE1HA3/4THEMD/TH0000  
AMOUNT: \$205,000.00

AS: 9740400.2520 40603890C 2525 BMDO0144761072 012123  
AMOUNT: \$115,500.00

AT: 9740400.2501 BM-THAD 40603881C00.0707 255Y TH4TST9FA6 S01021 TH4TST9FA6/4THEMD/TH0000  
AMOUNT: \$107,000.00

AU: 9740400.2501 BM-THAD 40603890C00.0105 255Y TH4MDA1AA7 S01021 TH4MDA1AA7/4THMDA/TH0000  
AMOUNT: \$10,000.00

AV: 9740400.2501 BM-THAD 406038891C00.0703 255Y TH4CUST4A1 S01021 TH4CUST4A1/4THCUS/TH  
AMOUNT: \$53,145.00

AW: 9750400.2501 BM-THAD 40603881C00.0707 255Y TH5TST9FA6 S01021 TH5TST9FA6/5THEMD/TH0000  
AMOUNT: \$250,000.00