

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. DASG60-02-D-0011	2. DELIVERY ORDER/ CALL NO. 004607	3. DATE OF ORDER/CALL 2003 Jun 18	4. REQ./ PURCH. REQUEST NO. TH3LAU5BA1-01	5. PRIORITY
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6. ISSUED BY US ARMY SPACE & MISSILE DEFENSE COMMAND [REDACTED] 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				

* 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 [REDACTED]	25. TOTAL \$1,018,377.00	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.	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: TH3LAU5BA1-01				
				MAX COST	\$1,005,377.00

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: TH3LAU5BA1-01				
				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: TH3LAU5BA1-01

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: TH3LAU5BA1-01

MAX COST

\$13,000.00

FOB: Destination

BLOCK 17/BLOCK 18 CONTINUEDBLOCK 17 (DD1155) CONTINUED:

TASK ORDER FUNDS REQUIRED \$ 1,018,377

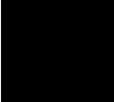
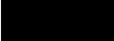
TASK ORDER FUNDS AVAILABLE \$ 1,018,377

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		\$1,005,377
*CONSULTANT TOTAL		\$0
T/O TOTAL LABOR		<u>\$1,005,377</u>
MATERIAL	NTE	\$0
TRAVEL	NTE	\$13,000
T/O TOTAL		<u>\$1,018,377</u>

**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

A SOW

THAAD/PATRIOT LAUNCHER PRODUCT OFFICE SUPPORT STATEMENT OF WORK

DESCRIPTION:

1.0 The contractor shall provide technical and programmatic support to the THAAD / PATRIOT Launcher Product Office. Support shall include component hardware and software analyses; system engineering integration and test support; requirements traceability, allocation, and verification analysis; provide performance impacts and related documentation to support analysis results; program management analyses; trade studies; and logistics. The contractor shall support all program objectives related to the development, testing, manufacturing, and fielding of the THAAD / PATRIOT Launcher.

1.1 HARDWARE ANALYSIS: The contractor shall analyze all Launcher mission critical hardware designs to ensure that each meets the full intent of the requirement, complies with Human Factors Engineering criteria, and where appropriate provides interfaces and / or architectures that support component growth. The contractor shall evaluate all launcher electrical, structural, and thermal analysis for newly designed or modified hardware; analyze design margins to ensure operational and safety requirements are met; and provide detail assessments of analysis results. The contractor shall participate in the developmental design of launcher peculiar Special Test Equipment.

1.2 SOFTWARE ANALYSIS: The contractor shall evaluate all Launcher software item designs to ensure that each meets the full intent of its requirements, provides interfaces / architectures that support capability growth, considers MANPRINT domain criteria, incorporates accepted User interface requirements, reduces User operational burden, and maximizes commonality among systems. The contractor shall verify that documentation is correct and that test results verify required functionality including Command & Control Interfaces, Missile Interfaces, New Hardware Interfaces, Built-In Test, Fault Detection / Isolation, and Operator System Interfaces.

1.3 SYSTEMS ENGINEERING INTEGRATION AND TEST SUPPORT: The contractor shall assess the impact on Launcher performance of developmental design changes. Impacts include component external interfaces, human engineering, supportability, launcher mass and centers of gravity, and C-130 airlift certification. The contractor shall provide performance impact documentation to support analysis results. The contractor shall assess Missile Round Pallet interface design verification in support of Short Hot Launch Testing. The contractor shall assess the maturity of selected Launcher hardware assemblies against THAAD Readiness Level (TRL) criteria and develop detailed TRL documentation. The contractor shall review acceptance test plans (ATP), and assess line of balance assets to support the integration of representative testbed hardware and software components. The contractor shall monitor the assembly, integration and test of Launcher hardware assemblies and software items. The contractor shall evaluate test data and provide detailed assessments of analysis results. The contractor shall participate in Government's and prime contractor's ground and flight test planning processes for the weapon system; support pre-test integration activities and test demonstration; verify the accuracy and adequacy of and between Launcher test plans, schedules, and other pertinent ground and flight test documentation.

1.4 REQUIREMENTS TRACEABILITY, ALLOCATION AND VERIFICATION ANALYSIS: The contractor shall validate and verify traceability and allocation of all Launcher requirements. The contractor shall support all launcher document and specification maintenance and monitor the refinement of performance-based specifications to achieve a stable, producible, and cost effective design. The contractor shall support all launcher system engineering requirements verification processes and provide comprehensive assessments of verification results.

1.5 PROGRAM MANAGEMENT AND ANALYSIS: The contractor shall support the Integrated Baseline Review process and analyze the adequacy of performance measurement baseline planning to include time-phasing budget process, schedule logic, and Earned Value metrics. The contractor shall analyze and verify that all identifiable Launcher asset requirements have corresponding funding allocations and ensure that they are appropriately documented, that future requirements have been properly identified, that funding levels budgeted support respective developmental and fielding schedule objectives and are segregated for traceability, and that concurrence exists from the TPO Cost Personnel. The contractor shall validate that all unfunded requirements have been identified,

reviewed and accounted for against past requirements and continuing development of future needs. The contractor shall monitor the Life Cycle Cost Management process, track, status, and document program cost savings or avoidances. The contractor shall support program level document reviews, technical interchange meetings, and analyze Rough Order of Magnitude estimates.

1.6 TRADE STUDIES AND DESIGN CONCEPTS: The contractor shall review the prime contractor's trade studies, analyses, and prototype test results, as they relate to the Launcher, to verify that the launcher components satisfy all allocated requirements. The contractor shall conduct independent performance trade studies of potential alternative solutions to prime contractor designs. The contractor shall evaluate alternative concepts and provide recommendations, including detail documentation, to the government. These studies shall address the Life Cycle Cost savings, human engineering effects, performance enhancement, and supportability improvements. The contractor shall evaluate all representative launcher test-bed designs to ensure interface requirements compliance.

1.7 INTEGRATED LOGISTICS SUPPORT (ILS) ASSISTANCE: The contractor shall, as required, review and analyze specific Launcher ILS related documentation that include but are not limited to GFE hardware listings, Contractor Logistics Support Plans, and Supportability and Maintainability Reports, Comment Tracking System problem reports, training concepts, and MANPRINT domains.

2.0 INTERFACE WITH OTHER ORGANIZATIONS: The contractor shall fully participate in the Integrated Product Team process. As directed by the task order monitor, performance of this task order may require interface with government and industry organizations.

B POP

PERIOD OF PERFORMANCE: 20 Jun 2003 – 31 Jan 2005

C KEY PERSONNEL

KEY PERSONNEL: [REDACTED]

D DELIVERABLES

DELIVERABLES:

<u>Item</u>	<u>CDRL</u>	<u>Copies</u>	<u>Delivery Date</u>
Task Order Management Plan	A001	1 *	Per CDRL
FMER	A003	1 *	Per CDRL
Interim Technical Report/Briefings	A004	1 *	As Required
Final Technical Summary	A005	1 *	31 Jan 05
Data Accession List	A007	1 *	Quarterly

* Plus Electronic Version.

E TRAVEL

ESTIMATED TRAVEL: The contractor has no authority to incur travel costs without explicit prior 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: \$13,000.

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: \$0

G SPECIAL INSTRUCTIONS

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

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

The effort described in the Task Order Statement of Work which is anticipated to be performed in FY03 – 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.

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

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).

It is anticipated that all portions of SOW Para 1 and SOW Para 2 will require 100% on-site work at the government location.

H DISTRIBUTION

TASK ORDER MONITOR: [REDACTED]

MAILING ADDRESS: [REDACTED]

PROGRAM MANAGEMENT POC: [REDACTED]

MAILING ADDRESS OF PROGRAM MANAGEMENT POC: [REDACTED]

PROGRAM ANALYSIS POC: [REDACTED]

MAILING ADDRESS OF PROGRAM ANALYSIS POC: [REDACTED]
[REDACTED]

Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 9730400.2501 BM-THAD 50604861C00.2011 255Y TH3LAU5BA1 S01021 TH3LAU5BA1/3THEMD/TH
AMOUNT: \$348,377.00

AB: 9740400.2501 BM-THAD 40603881C00.0707 255Y TH4LAU5AA1 S01021 TH4LAU5AA1/4THEMD/TH
AMOUNT: \$620,000.00

AC: 9740400.2501 BM-THAD 40603881C00.0707 255Y TH4LOG5EA1 S01021 TH4LOG5EA1/4THEMD/TH
AMOUNT: \$50,000.00