

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. DASG60-02-D-0011	2. DELIVERY ORDER/ CALL NO. 001348	3. DATE OF ORDER/CALL 2002 Apr 24	4. REQ./ PURCH. REQUEST NO. PK2C370300-02	5. PRIORITY DX-A2
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6. ISSUED BY US ARMY SPACE & MISSILE DEFENSE COMMAND 256-955-3003 P.O. 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	25. TOTAL \$9,954,498.00
		29. DIFFERENCES

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
	<input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	32. PAID BY		34. CHECK NUMBER
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			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.
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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"				
	FOB: Destination				
	PURCHASE REQUEST NUMBER: PK2C370300-02				
				MAX COST	\$9,754,056.00

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.				
	FOB: Destination				
	PURCHASE REQUEST NUMBER: PK2C370300-02				
				MAX COST	\$0.00

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.

FOB: Destination

PURCHASE REQUEST NUMBER: PK2C370300-02

MAX COST \$6,442.00

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.

FOB: Destination

PURCHASE REQUEST NUMBER: PK2C370300-02

MAX COST \$194,000.00

BLOCK 17/BLOCK 18 CONTINUED

TASK ORDER FUNDS REQUIRED \$9,954,498

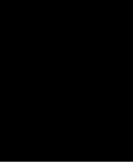
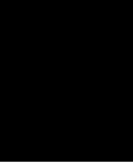
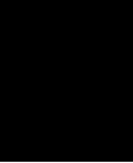
TASK ORDER FUNDS AVAILABLE \$9,317,498

UNFUNDED BALANCE \$ 637,000

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	\$9,754,056
*CONSULTANT TOTAL	 DPPHs	\$ 0
T/O TOTAL LABOR	 DPPHs	\$9,754,056
MATERIAL	NTE	\$ 6,442
TRAVEL	NTE	\$ 194,000
T/O TOTAL		\$9,954,498

**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

STATEMENT OF WORK

“KINETIC ENERGY LETHALITY”

1.0 The contractor shall provide support to the USASMDC Kinetic Energy Lethality program. The support shall be focused in the following kinetic energy lethality areas:

1.0.1 Identify critical technical issues associated with the development and validation of Theater Missile Defense (TMD) and Ground Based MidCourse Defense (GMD) lethality criteria and determine means for resolution.

1.0.2 The contractor shall evaluate transport and diffusion codes for accuracy and applicability.

1.0.3 The contractor shall provide test planning and engineering support for ground and flight experiments.

1.0.4 The contractor shall evaluate atmospheric chemistry effects in the neutralization of chemical/biological agents (unitary and submunition).

1.0.5 The contractor shall evaluate methodologies used to generate probability-of-kill estimates for TMD and GMD engagements.

1.0.6 The contractor shall provide independent assessment on weaponization potential of candidate TMD and GMD lethality concepts.

1.0.7 The contractor shall maintain the target debris archive for Live Fire Test and Evaluation (LFT&E) Program and prepare LFT&E documentation.

2.0 The contractor shall identify critical issues, participate in lethality technical interchange meetings (TIMs), program status reviews (PSRs), user workshops, and technical working group meetings and review TMD and GMD lethality documentation which may involve interacting with representatives from the UK, Netherlands and Germany and making presentations to these representatives subject to appropriate approvals from the State Department, the USASMDC Foreign Disclosure Officer, the SETAC Contracting Officer and, as necessary, the foreign government involved. . Identified critical issues and alternative resolution approaches will be documented in technical letters and in program progress reports; program planning documentation; review proceedings; test plans and reports. Annual reports will be required. Draft reports are required by 31 Dec of each year, and the final reports are due by 15 April of the following year.

3.0 The contractor shall identify issues and provide technical support in the planning and execution of ground and flight experiments. Develop reports describing test conduct and results of ground and flight experiments. Where appropriate compile and summarize multi-contractor inputs into a complete report. The SETAC shall prepare and/or review test plans and objectives and participate in test readiness reviews (TRRs) as required. Specialized support will be provided to those chemical/biological test programs where environmental concerns may impact schedule. Develop and/or analyze engineering data needed to execute LFT&E programs. Determine projectile release locations and target placement that will provide specified intercept to be replicated at the rocket sled test facility at Holloman Air Force Base (HAFB) and at the Arnold Engineering Development Center (AEDC) light-gas gun (LGG) facility. Evaluate sled track rail conditions, projectile stabilization, booster performance, target alignment/positioning, and safety issues. Plan, coordinate, and conduct the post-test debris search at HAFB and assist in target damage assessment at HAFB and AEDC, in accordance with LFT&E guidelines. Prepare: (1) pre-test prediction reports, (2) quick-look reports, (3) detailed test reports, and detailed damage assessment reports for the LFT&E program.

4.0 The contractor shall evaluate other lethality contractor investigations of atmospheric chemistry effects in the neutralization of chemical/biological agents. Attend TIMs, PSRs and working group meetings and review other contractor-generated documents as required; document findings in technical letters.

5.0 The contractor shall provide Parametric Endo/Exoatmospheric Lethality Simulation (PEELS) Software Configuration Control Board (SCCB) support, and perform independent verification and validation of the PEELS code. Perform PEELS trade studies as required. Provide inputs to update the TMD lethality criteria document. Maintain capability to distribute (classified) source and executable code as required, to USASMDC-approved users of lethality models and codes.

6.0 Support PEELS development for GMD applications by supporting PEELS SCCB activities in the GMD area. Provide independent V&V of GMD application in PEELS.

7.0 The contractor shall support development of TMD and GMD lethality and kill assessment as required.

8.0 The contractor shall provide SETAC support in GMD and TMD activities.

PERIOD OF PERFORMANCE

24 Apr 02 – 23 Apr 07

KEY PERSONNEL



DELIVERABLES

Item/Title	CDRL#	# Copies	Delivery Date
Task Order Management Plan	A001	1*	Per CDRL
FMER	A003	1*	Per CDRL
Monthly Technical Report	A004	7	15 th of each month
Summary Annual Report	A004	3	15 Apr each year
Final Technical Report	A005	1*	23 Apr 07
Conference Minutes	A006	2	Per CDRL
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. Under no circumstance shall the contractor incur travel costs in excess of the NTE amount stated herein. NTE: \$194,000

Aberdeen, MD	Alamogordo, NM	Albuquerque, NM	Alexandria, VA
Anaheim, CA	Anniston, AL	Arlington, VA	Birmingham, AL
Boston, MA	Camden, AR	Chandler, AZ	Colorado Springs, CO
Columbus, OH	Concord, MA	Crystal City, VA	Dahlgren, VA
Downey, CA	Dugway, UT	El Paso, TX	Kwajalein Atoll, RMI
Las Cruces, NM	Laurel, MD	Livermore, CA	London, UK
Minneapolis, MN	Monterey, CA	Orlando, FL	Quantico, VA
Rosslyn, VA	San Jose, CA	Socorro, NM	Sunnyvale, CA
Tucson, AZ	Tullahoma, TN	Washington, DC	Williamsburg, VA
Denver, CO	Bedford, MA	Camarillo, CA	Lexington, MA
McLean, VA	Munich, Germany		

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: \$6,442

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, FY03, FY04, FY05, FY06, and FY07 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.

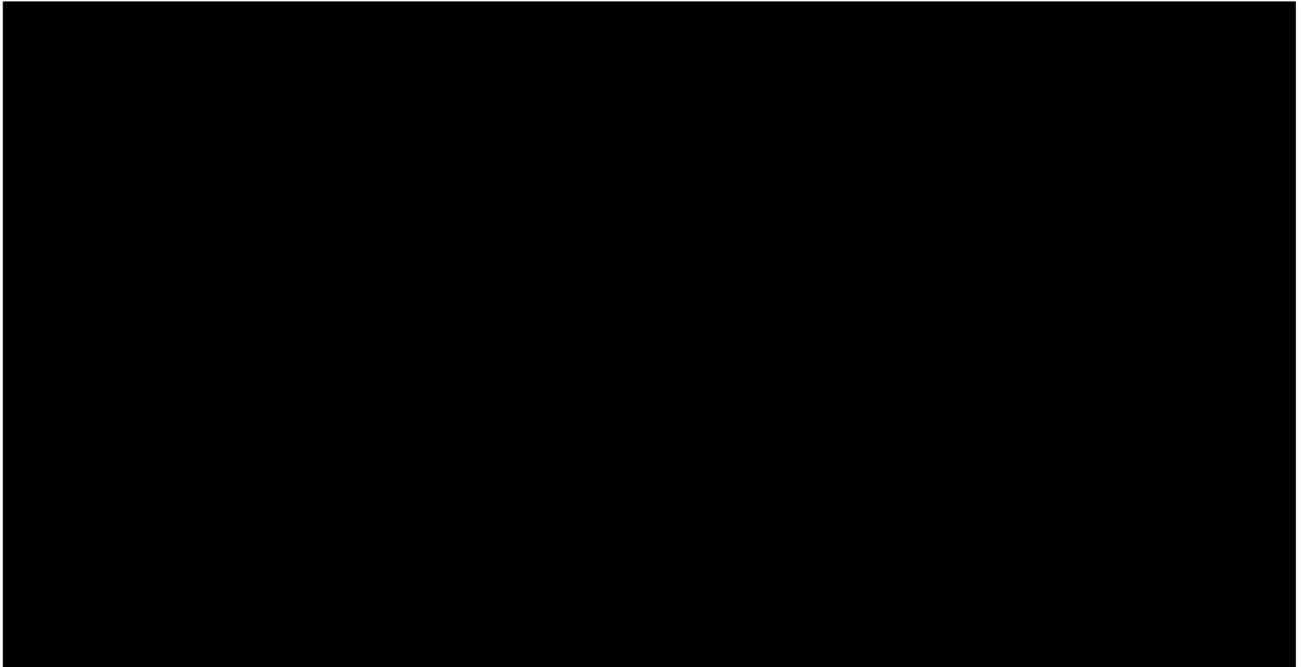
It is incumbent upon the contractor and/or subcontractor to ensure that appropriate Technical Assistance Agreements (TAAs) and/or applicable export licenses are in place before conducting any activity under the SOW which requires such approval and documentation.

Performance of this T/O will also require access to Special Access Program (SAP) Information. Revision 13 to the DD Form 254, 2003 03 12, is provided herein and is applicable to this T/O only.

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 Continental United States (OCONUS) into an area of operations in support of a contingency operations or exercise under this task order, the contractor shall coordinate a Risk Assessment Plan (including a liability estimation) with the SETAC Contracting Officer.

DISTRIBUTION



Section G - Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 2122040 0000 24A-4600 P665712.0010 25GY OCC500 MIPR2EFB357892 BRPC14 041014
AMOUNT: \$20,000.00

AB: 97 2 0400.2501 BM-THAD 50604861C00.2012 255Y TH2TST3AA1 S01021TH2TST3AA1/2THEMD
AMOUNT: \$180,000.00

AC: 97 2 0400.2501 36-6011 P40603882C00 2514 PK2C361100 S01021 PK2C361100/2HHE80/H
AMOUNT: \$625,802.00

AD: 97 2 0400.2501 36-6011 P40603880C00 2514 PK2C350400 S01021 PK2C350400/2HHN46/H
AMOUNT: \$112,029.00

AE: 97 2 0400.2501 36-6011 P40603880C00 2514 PK2C370300 S01021 PK2C370300/2HHN48/H
AMOUNT: \$274,831.00

AF: 9720400 2501 24A-4600 P50604865C0025GY OCC500 MIPR2GFB402892 B2PC14041014
AMOUNT: \$10,000.00

AG: 97 2 0400.2501 36-6011 P40603880C00 2514 JS2B713700 S01021 JS2B713700/2HHN10/H
AMOUNT: \$15,000.00

AH: 97 2 0400.2501 5Q-5Q11 407603881C.2015 2514 4R2MEG12J4R S01021 4R2MEG12J4R/24R900/4R
AMOUNT: \$38,000.00

AJ: 97 1 0400.2501 5Q-5Q08 50604861C00.2260 255X 4P1TST9GA2 S01021
AMOUNT: \$0.00

AK: 97 3 0400.2501 36-6011 P40603880C00 2514 PK3C340100 S01021 PK3C340100/3HHN51/H
AMOUNT: \$396,672.00

AL: 97 3 0400.2501 36-6011 P40603880C00 2514 PK3C350200 S01021 PK3C350200/3HHN67/H
AMOUNT: \$587,983.00

AM: 97 2 0400.2501 36-6011 P40603880C00 2514 PK2C330300 S01021 PK2C330300/2HHN14/H
AMOUNT: \$3,000.00

AN: 97 3 0400.2501 36-6011 P40603882C00 2514 PK3C390300 S01021 PK3C390300/3HHE80/H
AMOUNT: \$876,000.00

AP: 21 2 2040.0000 36 9318 P633304215 255Y PK2R241600 S01021 PK2R241600/2HHRA9/H
AMOUNT: \$280,000.00

AQ: 21 2 2040.0000 36 9318 P633304215 255Y PK2R241700 S01021 PK2R241700/2HHRA9/H
AMOUNT: \$2,171.00

AR: 97 3 0400.2501 36-6011 P40603880C00 2514 PK3C510100 S01021 PK3C510100/3HHN76/H
AMOUNT: \$100,000.00

AS: 213 2040.0000 36-9318 P633304215 255Y PK3R240800 S01021 PK3R240800/3HHR50/H
AMOUNT: \$111,000.00

AT: 97 4 0400.2501 36-6011 P40603882C00 2514 PK4C390300 S01021 PK4C390300/4HHE80/H
AMOUNT: \$801,983.00

AU: 97 4 0400.2501 36-6011 P40603888C00 2514 PK4C340100 S01021 PK4C340100/4HHK11/H

AMOUNT: \$697,000.00

AV: 97 4 0400.2501 36-6011 P40603890C00 2514 PK4C370200 S01021 PK4C370200/4HHM23/H
AMOUNT: \$549,702.00

AW: 97 5 0400 2501 36 2216 40603882C00 2514 W31RPD5307JWS1 5HHE09 S01021
AMOUNT: \$605,000.00

AX: 9750400.2501 BM-THAD 40603881C00.0707 2514 TH5TST3AA2 S01021 TH5TST3AA2/5THEMD/TH0000
AMOUNT: \$295,000.00

AY: 97 5 0400 2501 36 2216 40603890C00 2514 W31RPD5322JWA2 5HHB23 S01021
AMOUNT: \$125,000.00

AZ: 97 5 0400 2501 36 2216 40603888C00 2514 W31RPD5327JWN2 5HHK03 S01021
AMOUNT: \$1,086,075.00

BA: 2142040 0000 44B 8753 665601F3000 25FB B66200 4BK633 S29040 PAC3FLTS MIPR5J4BRMT001
AMOUNT: \$36,250.00

BB: 97 5 0400 2501 36 2220 40603882C00 2514 W31RPD5168SBTG 5HHE10 S01021
AMOUNT: \$141,000.00

BC: 97 6 0400 2501 36 2216 40603888C00 2514 W31RPD6297JWH2 6HHK03 S01021
AMOUNT: \$231,000.00

BD: 97 6 0400 2501 36 2216 40603890C00 2514 W31RPD6297JWA2 6HHB23 S01021
AMOUNT: \$290,000.00

BE: 2152040 0000 54B 8753 665601F3000 25FB B66200 5BK623 S29040 ZZZSMDC MIPR6A4BRMT024
AMOUNT: \$27,000.00

BF: 9760400.2501 BM-THAD 40603881C00.0907 255X/255YTH6TST9FA1S01021MIPR6TST9FA1 TH6TST9FA1/6THEMD/TH0000
AMOUNT: \$660,000.00

BG: 97 5 0400 2501 36 2216 40603888C00 2512 W31RPD5346FKSB 5HHK59 S01021
AMOUNT: \$115,000.00

BH: 97 6 0400 2501 36 2216 40603890C00 2512 W31RPD6348JWC5 6HHM94 S01021
AMOUNT: \$25,000.00

Section H - Special Contract Requirements

DD FORM 254

