

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. DASG60-02-D-0014	2. DELIVERY ORDER/ CALL NO. 005809	3. DATE OF ORDER/CALL 2002 Oct 23	4. REQ./ PURCH. REQUEST NO. PK2C380700-01	5. PRIORITY DX-A2
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6. ISSUED BY US ARMY SPACE & MISSILE DEFENSE COMMAND 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 DYNETICS, CAS & DAVIDSON, LLC P.O. BOX 5523 HUNTSVILLE AL 35814-5523	CODE 1VDA4	FACILITY	10. DELIVER TO FOB POINT BY (Date) SEE SCHEDULE	11. MARK IF BUSINESS IS <input checked="" 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 \$737,000.00

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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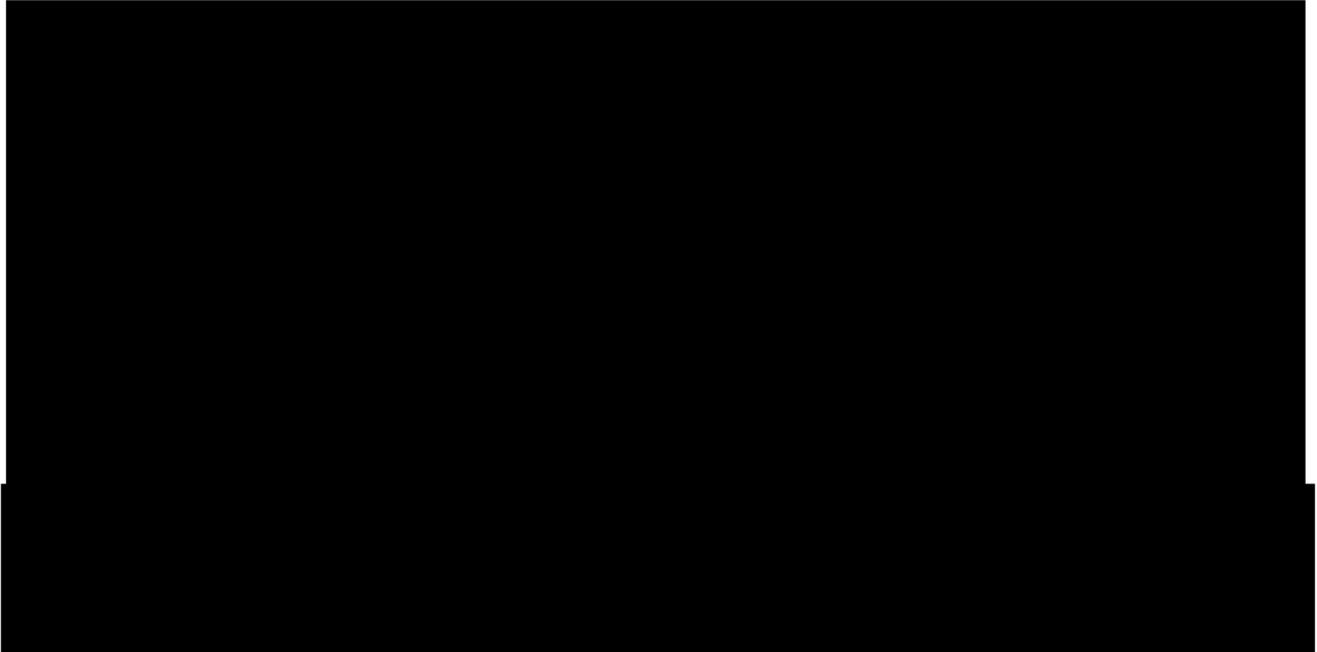
36. I certify this account is correct and proper for payment. DATE _____ SIGNATURE AND TITLE OF CERTIFYING OFFICER _____	31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	32. PAID BY	34. CHECK NUMBER	35. BILL OF LADING NO.
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37. 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 C - Descriptions and Specifications

B POP

23 Oct 02 – 23 April 07

A SOW

“Kinetic Impact Debris Distribution (KIDD) Model Independent Verification & Validation (IV&V) Agent”

STATEMENT OF WORK

(Replaced in it's entirety – Modification 02 – T/ORP #0011)

- 1.0 Background: Hit-To-Kill (HTK) Kinetic Energy Weapons (KEWs) utilize interceptors or kill vehicles (KVs) which intercept ballistic missile targets at high closing velocities. The high-energy collisions result in large numbers of debris fragments from both the target and KV. The KIDD Kernel is a set of routines which model the initial conditions of the debris fragments from a single intercept. The purpose of this effort is to independently verify that the code functions as described by the developer and to validate that the code produces outputs which are representative of the real world.
- 2.0 Interfacing: The contractor shall interface with the KIDD developer on an as required basis to determine the conceptual model description, specifications, requirements (both past, current and future), software engineering techniques, data set utilization (understanding), clarifications, and feedback.
- 3.0 Verification: The contractor shall perform the following.
 - 3.1 Create a matrix of pass/fail criteria which the verification can be assessed and provide the matrix to the U.S. Army Space and Missile Defense Command (USASMDC) Task Order Monitor (T/OM) for approval.
 - 3.2 Determine if the KIDD Model accurately represents the conceptual description, specifications, users manual, technical manual, Basis of Confidence (BOC) document, using the matrix.
 - 3.3 Provide feedback to USASMDC and the developer for actions and corrections to be taken.

- 3.4 As directed by the T/OM, provide input to or create documents such as the BOC document, the Conceptual Model, the Configuration Management Plan, IV&V Plan, and Test Plans.
- 3.5 Create, modify, and brief materials for meetings, conferences, and reviews that involve KIDD Independent Verification.
- 4.0 Validation: The contractor shall perform the following.
 - 4.1 Determine the manner and degree to which the KIDD model is an accurate representation of the real world from the perspective of the intended uses of the model. Validation methods include comparison with test data, expert consensus, comparison with historical results, peer review, and independent review.
 - 4.2 Determine the confidence that should be placed on the KIDD validation assessment.
 - 4.3 Create a matrix of pass/fail criteria which the KIDD validation can be assessed.
 - 4.4 Provide feedback to USASMDC and the developer for actions and corrections to be taken.
 - 4.5 As directed by the T/OM, provide input to or create documents such as the BOC document, the Conceptual Model, the Configuration Management Plan, IV&V Plan, and Test Plans.
 - 4.6 Create, modify, and brief materials for meetings, conferences, reviews, etc. that involve KIDD Independent Validation.
- 5.0 Data Protection: The data that is required for validation determination is to be protected and safeguarded against disclosure to any entity other than the Technical POCs responsible for the Validation assessments. The data must be stored in containers that meet the appropriate classification requirements and only those Technical POCs shall have access to those containers. The Hard Drives (HD), which the data is loaded onto, shall be stored in the same manner as the media that the data resides as described above. Once the data on the HDs is no longer required, the data must be destroyed in whatever means as necessary to ensure the accidental release of the data does not occur. When the data that resides on media is no longer required for validation assessment, it must be returned to the source that provided it.

