SOLICITATION/CONTRACT

BIDDER/OFFEROR TO COMPLETE BLOCKS 11, 13, 15, 21, 22, & 27.

J

1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)

RATING: DO: A6

2. CONTRACT NO. FA8213-04-C-0124

3. AWARD/EFFECTIVE DATE

4. SOLICITATION NUMBER FA821304R3029

5. SOLICITATION TYPE [ ] SEALED BIDS (IFB) [X] NEGOTIATED (RFP)

6. SOLICITATION ISSUE DATE 28 APR 2004

7. ISSUED BY CODE FA8213
DEPARTMENT OF THE AIR FORCE, DIRECTORATE OF CONTRACTING
OO-ALC/WMK BLDG 1215
6050 GUM LANE
HILL AIR FORCE BASE UT 84056-5825
BUYER: Preston E. Davis/WMK
preston.davis@hill.af.mil
Phone: (801) 586- 0683 Fax: (801) 777-5840 No Collect Calls

8. THIS ACQUISITION IS
[X] UNRESTRICTED
[ ] SET ASIDE: % FOR
[ ] SMALL BUSINESS
[ ] LABOR SURPLUS AREA CONCERNS
[ ] COMBINED SMALL BUSINESS & LABOR SURPLUS AREA CONCERNS
[ ]
NAICS CODE: 541710 SIZE STANDARD: 500

9.

10. ITEMS TO BE PURCHASED (BRIEF DESCRIPTION)
[ ] SUPPLIES [X] SERVICES Research and Development in the Physical, Engineering and Life Sciences

11. IF OFFER IS ACCEPTED BY THE GOVERNMENT WITHIN * ___ CALENDAR DAYS (60 CALENDAR DAYS UNLESS OFFEROR INSERTS A DIFFERENT PERIOD) FROM THE DATE SET FORTH IN BLK 9 ABOVE, THE CONTRACTOR AGREES TO HOLD ITS OFFERED PRICES FIRM FOR THE ITEMS SOLICITED HEREIN AND TO ACCEPT ANY RESULTING CONTRACT SUBJECT TO THE TERMS AND CONDITIONS STATED HEREIN. *60

12. ADMINISTERED BY CODE S0107A
DCMA HUNTSVILLE
BUILDING 4505 MARTIN
ROAD SUITE 301
REDSTONE ARSENAL AL 35898-0000 USA
SCD:C

13. CONTRACTOR OFFEROR CODE 75324 FACILITY CODE 75324
KILGORE FLARES COMPANY LLC
155 KILGORE DRIVE
TOONE TN 38381-0099 US
(731) 228-5271
EMail Address: jashford@kilgoreflares.com

[ ] CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER

14. PAYMENT WILL BE MADE BY CODE HQ0338
(SEE ELECTRONIC SUBMISSION OF PAYMENT REQUESTS, CLAUSE 252.232-7003.)
DFAS - COLUMBUS CENTER
SOUTH ENTITLEMENT OPERATIONS
PO BOX 182264
COLUMBUS OH 43218-2264 UNITED STATES

SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK: 14 EFT:T

15. PROMPT PAY DISCOUNT
NET 30 DAYS

16. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION 10 USC 2304 [ ] (c) ( ) 41 USC 253 [ ] (c) ( )

17. ITEM NO.	18. SCHEDULE OF SUPPLIES/SERVICES	19. QUANTITY	20. UNIT	21. UNIT PRICE	22. AMOUNT
	THIS IS AN EXTREMELY URGENT REQUIREMENT CONCERNING PUBLIC EXIGENCY.				
	SEE LINE ITEM SCHEDULE				
				Total	

ELECTRONICALLY DISTRIBUTED 13 SEP 2004

23. ACCOUNTING AND APPROPRIATION DATA
SEE SCHEDULE

24. AWARD AMOUNT (FOR GOVT USE ONLY)
$ 1,382,677.00

25. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 1 COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY CONTINUATION SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN. [X]

26. [ ] AWARD OF CONTRACT: YOUR OFFER ON SOLICITATION NUMBER SHOWN IN BLOCK 4 INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:

27. SIGNATURE OF OFFEROR/CONTRACTOR

28. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)

NAME AND TITLE OF SIGNER (TYPE OR PRINT): JANETTE ASHFORD, MANAGER CONTRACTS

DATE SIGNED: 09 SEP 2004

NAME OF CONTRACTING OFFICER: Melinda Schmidt
melinda.schmidt@hill.af.mil

DATE SIGNED: 09 SEP 2004

PART I - THE SCHEDULE
SECTION B
SUPPLIES OR SERVICES AND PRICES/COSTS

ENGINEERING SERVICE

Item No.
0001

Firm Fixed Price

Quantity	U/I	Unit Price	Amount
1	LO	$1,382,677.0000	$1,382,677.00

CLIN	ACRN	ACRN Total
0001	AA	$1,382,677.00

FLARE TARGET MARKING LUU-1/B
ENGINEERING SERVICE FOR DESIGN AND TESTING FOR THE FLARE TARGET MARKING LUU-1/B. TO INCLUDE LABOR, MATERIAL, AND EQUIPMENT IAW TECHNICAL REQUIREMENTS DOCUMENT (TRD) AND STATEMENT OF WORK (SOW) PREPARED BY THE CONTRACTOR AND APPROVED BY OO-ALC/WMBB
Part Number 67C12919 is an input number. A new Part Number will be assigned upon contract completion.

Manufacturer	Part Number
75324	67C12919

Purchase Request(s)	PR Line Item(s)	Code
FD2020046045901	0001	WCH

Priority: C THIS IS AN EXTREMELY URGENT REQUIREMENT CONCERNING PUBLIC EXIGENCY.
Quantity Variance (Over Percent): 00 **(Under Percent):** 00

Inspection: Origin
Acceptance: Destination
Inspection/Acceptance Report: DD250 Required
Quality Assurance: Higher Level Quality Requirement
The Contractor shall comply with the standard(s) listed below.

Title	Number	Date	Tailoring
ISO	9001-2000	2000	

Buy American Act/Balance of Payments Program
Buy American Act N/A for Construction Material

Class I ODS Substance	Application/Use	Quanity
NONE	NONE	NONE

Type / Ship To	PACRN	Mark For
FV2823		ARO IAW KTR PROPOSED SOW

Required Delivery	Type / Ship To	Quantity (U/I)	On or Before	Req No / Pri
	FV2823	1 EA	7 SEP 2005	FW202632412001 / PRI: C

DATA IN ACCORDANCE WITH EXHIBIT A, DD FORM 1423-1 ATTACHED

Item No.
0002

Firm Fixed Price

Quantity	U/I	Unit Price	Amount
1	LO	Not Separately Price	Not Separately Price

CLIN	ACRN	ACRN Total
0002	AA	

DATA IN ACCORDANCE WITH EXHIBIT A, DD FORM 1423-1 ATTACHED HERETO
(DATA ITEM NUMBERS A001 THRU A008)

INSPECTION, ACCEPTANCE, DELIVERY AND DISTRIBUTION ADDRESS IS IN ACCORDANCE WITH DD FORM 1423-1

Purchase Request(s)	PR Line Item(s)	Code
FD2020046045901	0004	WCH

Priority: C THIS IS AN EXTREMELY URGENT REQUIREMENT CONCERNING PUBLIC EXIGENCY.

Inspection: Destination
Acceptance: Destination
Inspection/Acceptance Report: DD250 Required
Quality Assurance: Inspection IAW DD 1423

DATA IN ACCORDANCE WITH EXHIBIT C, DD FORM 1423-1 ATTACHED

Item No.
0003

Firm Fixed Price

Quantity	U/I	Unit Price	Amount
1	LO	Not Separately Price	Not Separately Price

CLIN	ACRN	ACRN Total
0003	AA	

DATA IN ACCORDANCE WITH EXHIBIT C, DD FORM 1423-1 ATTACHED HERETO
(DATA ITEM NUMBER C001)

INSPECTION, ACCEPTANCE, DELIVERY AND DISTRIBUTION ADDRESS IS IN ACCORDANCE WITH THE DD FORM 1423-1

Purchase Request(s)	PR Line Item(s)	Code
FD2020046045901	0006	WCH

Inspection: Destination
Acceptance: Destination
Inspection/Acceptance Report: DD250 Required
Quality Assurance: Inspection IAW DD 1423

DATA IN ACCORDANCE WITH EXHIBIT D, DD FORM 1423-1 ATTACHED

Item No.
0004

Firm Fixed Price

Quantity	U/I	Unit Price	Amount
1	LO	Not Separately Price	Not Separately Price

CLIN	ACRN	ACRN Total
0004	AA	

DATA IN ACCORDANCE WITH EXHIBIT D, DD FORM 1423-1 ATTACHED HERETO
(DATA ITEM NUMBER D001)

INSPECTION, ACCEPTANCE, DELIVERY AND DISTRIBUTION ADDRESS IS IN ACCORDANCE WITH DD FORM 1423-1

Purchase Request(s)	PR Line Item(s)	Code
FD2020046045901	0007	WCH

Inspection: Destination
Acceptance: Destination
Inspection/Acceptance Report: DD250 Required
Quality Assurance: Inspection IAW DD 1423

SHIP TO / PLACE OF PERFORMANCE

TYPE/CODE: FV2823
ATTN: DAVE MISITA
2605 Perimeter Road, Suite 112
Eglin AFB, FL 32542-5000
Okaloosa

MARK FOR: (See Individual Line Item)
REQUISITION NUMBER: (See Individual Line Item)
REQUISITION PRIORITY: (See Individual Line Item)
CONTRACT NUMBER: FA8213-04-C-0124

PART I - THE SCHEDULE
SECTION C
DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK

(The above Clause/Provision has been modified.)

SPECIFICATIONS, STANDARDS AND DRAWINGS (MAY 1993)
(IAW FAR 11.201)

Specifications, standards or drawings (as applicable) are furnished/listed below or are listed in Section J herein. The contractor shall perform in accordance with those specifications and/or the attachments listed in Section J:

ITEM NR SPECIFICATIONS, STANDARDS AND/OR ATTACHMENTS

REFERENCE SECTION J: LIST OF ATTACHMENTS
(The above Clause/Provision has been modified.)

PART I - THE SCHEDULE
SECTION D
PACKAGING AND MARKING

5352.247-9005 **SHIPPING CONTAINER MARKING (AFMC)** (MAR 2003)
(IAW AFMCFARS 5347.305-10(a)(91), (93), (94), (95))

All shipping containers shall be marked meeting the following criteria:

(a) MIL-STD-129 P, Standard Practice for Military Marking.

(b) Bar code format shall conform to bar code symbology Format 3 of 9, Code 39 as specified in MIL-STD-129 P.

(c) Additional marking and/or bar coding requirements exceeding those of MIL-STD-129 P, e.g., unit serial numbers, original equipment manufacturer's (OEM) name, or OEM model number, as specified on the AFMC Form 158:

PACRN(s) Applicable to 5352.247-9005	Additional Bar Coding or Marking Requirements (if applicable)
PAA	Not Applicable

PART I - THE SCHEDULE
SECTION E
INSPECTION AND ACCEPTANCE

52.246-4 **INSPECTION OF SERVICES--FIXED-PRICE** (AUG 1996)
(IAW FAR 46.304)

52.246-11 **HIGHER-LEVEL CONTRACT QUALITY REQUIREMENT** (FEB 1999)
(IAW FAR 46.311 and DFARS 246.202-4(1))

The Contractor shall comply with the higher-level quality standard selected below. [If more than one standard is listed, the offeror shall indicate its selection by checking the appropriate block.]*

	Title	Number	Date	Tailoring
*See Individual Line Item Schedule				

52.246-16 **RESPONSIBILITY FOR SUPPLIES** (APR 1984)
(IAW FAR 46.316)

252.246-7000 **MATERIAL INSPECTION AND RECEIVING REPORT** (MAR 2003)
(IAW DFARS 246.370)

9952.246-9000 **MATERIAL INSPECTION AND RECEIVING REPORT (OMB NO. 0704-0248) (JALC)** (MAR 2003)
(IAW JALC 9946.401(90))

(a) As specified by DFARS, Appendix F, Table 2, a copy of DD Forms 250 shall be forwarded to the following address:

(1) Forward the purchasing office copy to:
FA8213
DEPARTMENT OF THE AIR FORCE
DIRECTORATE OF CONTRACTING
OO-ALC/WMK BLDG 1215
6050 GUM LANE
HILL AIR FORCE BASE, UT 84056-5825
UNITED STATES

(2) For shipments involving Military Assistance Program (MAP), Grant Aid (GA), or Foreign Military Sales (FMS) requirements, an additional copy shall be sent to:

Not Applicable

(3) Additional distribution of DD Forms 250 is to be made to the following address(es):

Not Applicable

(b) These special instructions shall be included in any subcontract hereunder where the items purchased from the subcontractor are to be shipped directly to the U.S. Government or to a foreign destination.

(c) If delivery of MAP, GA, or FMS items to foreign destinations is required, the copies of DD Forms 250 required by DFARS, Appendix F, Table 2, Material Inspection and Receiving Report, Special Distribution, shall be forwarded to the "ship to" address designated in the contract.

INSPECTION AND ACCEPTANCE (SEP 1999)
(IAW FAR 46.401(b), FAR 46.503)

Government Contract Quality Assurance Inspection and Acceptance will be at (Final):
Item No(s): See schedule for items with the following code(s) listed below :
Inspection Code and Address: **75324** **KILGORE FLARES COMPANY LLC** **155 KILGORE DRIVE** **TOONE, TN 38381-0099**

Government Contract Quality Assurance Inspection and Acceptance will be at destination(s) specified herein (Final).

Item No(s):	0002, 0003, 0004

PART I - THE SCHEDULE
SECTION F
DELIVERIES OR PERFORMANCE

52.242-15 **STOP-WORK ORDER** (AUG 1989)
(IAW FAR 42.1305(b)(1))

HAZARDOUS CLASSIFICATION (MAY 1998)
(IAW FAR 47.305-9(c))

For the purpose of identifying commodity description and freight classification of explosives and other dangerous supplies, the following applies.

Hazardous Classification	
Line Item	0001
Hazardous Class Division	1.3
Storage Compatibility Group	G
DOT Marking	FLARES, AERIAL
DOT Class	1.3G
DOT Label	EXPLOSIVE
UN Serial No	1.3G
UN Proper Ship Name	FLARES, AERIAL
Freight Classification	

PLACE OF PERFORMANCE:

75324
KILGORE FLARES COMPANY, LLC
155 KILGORE DR.
TOONE, TN 38381-0099

FV 2823
EGLIN AFB, FL 62542-5000
OKALOOSA COUNTY, FLORIDA

PART I - THE SCHEDULE
SECTION G
CONTRACT ADMINISTRATION DATA

ACCOUNTING AND APPROPRIATION DATA (AUG 1998)

ACRN	Accounting and Appropriation Chargeable Funds Citation	Amount Chargeable
AA: 5733011 .	H 83 36 E3 356012 000000 00000 000000 672300 F7230G	$1,382,677.00

PART II - CONTRACT CLAUSES
SECTION I
CONTRACT CLAUSES

52.202-1	**DEFINITIONS** (JUL 2004) (IAW FAR 2.201)
52.203-3	**GRATUITIES** (APR 1984) (IAW FAR 3.202)
52.203-5	**COVENANT AGAINST CONTINGENT FEES** (APR 1984) (IAW FAR 3.404)
52.203-6	**RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT** (JUL 1995) (IAW FAR 3.503-2)
52.203-7	**ANTI-KICKBACK PROCEDURES** (JUL 1995) (IAW FAR 3.502-3)
52.203-8	**CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY** (JAN 1997) (IAW FAR 3.104-9(a))
52.203-10	**PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY** (JAN 1997) (IAW FAR 3.104-9(b))
52.203-12	**LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS** (JUN 2003) (IAW FAR 3.808)
252.203-7001	**PROHIBITION ON PERSONS CONVICTED OF FRAUDS OR OTHER DEFENSE-CONTRACT-RELATED FELONIES** (MAR 1999) (IAW DFARS 203.570-5)
52.204-4	**PRINTED OR COPIED DOUBLE-SIDED ON RECYCLED PAPER** (AUG 2000) (IAW FAR 4.303)
52.204-7	**CENTRAL CONTRACTOR REGISTRATION** (OCT 2003) (IAW FAR 4.1104)
252.204-7002	**PAYMENT FOR SUBLINE ITEMS NOT SEPARATELY PRICED** (DEC 1991) (IAW DFARS 204.7104-1(b)(3)(iv))
252.204-7003	**CONTROL OF GOVERNMENT PERSONNEL WORK PRODUCT** (APR 1992) (IAW DFARS 204.404-70(b))
252.204-7004	**ALTERNATE A (Alternate A to FAR Clause 52.204-7, Central Contractor Registration)** (NOV 2003) (IAW DFARS 204.1104)
252.205-7000	**PROVISION OF INFORMATION TO COOPERATIVE AGREEMENT HOLDERS** (DEC 1991) (IAW DFARS 205.470-2)

52.209-6 **PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT** (JUL 1995)
(IAW FAR 9.409(b))

252.209-7000 **ACQUISITION FROM SUBCONTRACTORS SUBJECT TO ON-SITE INSPECTION UNDER THE INTERMEDIATE-RANGE NUCLEAR FORCES (INF) TREATY** (NOV 1995)
(IAW DFARS 209.103-70)

252.209-7004 **SUBCONTRACTING WITH FIRMS THAT ARE OWNED OR CONTROLLED BY THE GOVERNMENT OF A TERRORIST COUNTRY** (MAR 1998)
(IAW DFARS 209.409)

52.211-15 **DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS** (SEP 1990)
(IAW FAR 11.604(b))

This is a rated order certified for national defense use, and the Contractor shall follow all the requirements of the Defense Priorities and Allocations System regulation (15 CFR 700).

52.215-2 **AUDIT AND RECORDS--NEGOTIATION** (JUN 1999)
(IAW FAR 15.209(b)(1))

52.215-8 **ORDER OF PRECEDENCE--UNIFORM CONTRACT FORMAT** (OCT 1997)
(IAW FAR 15.209(h))

52.216-23 **EXECUTION AND COMMENCEMENT OF WORK** (APR 1984)
(IAW FAR 16.603-4(b)(1))

The Contractor shall indicate acceptance of this letter contract by signing three copies of the contract and returning them to the Contracting Officer not later than 3 SEP 2004. Upon acceptance by both parties, the Contractor shall proceed with performance of the work, including purchase of necessary materials.

52.219-8 **UTILIZATION OF SMALL BUSINESS CONCERNS** (MAY 2004)
(IAW FAR 19.708(a))

52.219-9 **SMALL BUSINESS SUBCONTRACTING PLAN** (JAN 2002)
(IAW FAR 19.708(b)(1))

52.219-9 **SMALL BUSINESS SUBCONTRACTING PLAN -- ALTERNATE II** (OCT 2001)
(IAW FAR 19.708(b)(1))

52.219-16 **LIQUIDATED DAMAGES--SUBCONTRACTING PLAN** (JAN 1999)
(IAW FAR 19.708(b)(2))

52.219-25 **SMALL DISADVANTAGED BUSINESS PARTICIPATION PROGRAM--DISADVANTAGED STATUS AND REPORTING** (OCT 1999)
(IAW FAR 19.1204(b))

252.219-7003 **SMALL, SMALL DISADVANTAGED AND WOMEN-OWNED SMALL BUSINESS SUBCONTRACTING PLAN (DoD CONTRACTS)** (APR 1996)
(IAW DFARS 219.708(b)(1)(A))

9952.219-9000 **INCORPORATION OF SUBCONTRACTING PLAN (JALC)** (MAR 2003)
(IAW JALC 9919.705-5(a))

In accordance with FAR 52.219-9, Small Business Subcontracting Plan, the subcontracting plan contained in Kilgore's Subcontracting Plan dated 6 July 2004 is incorporated herein by reference.

*Incorporation of Subcontracting Plan	
Location of Plan Date of Plan	Small Business Liason Office – Kilgore Flares Company, LLC 6 July 2004

(The above Clause/Provision has been modified.)

52.222-1 **NOTICE TO THE GOVERNMENT OF LABOR DISPUTES** (FEB 1997)
(IAW FAR 22.103-5(a))

52.222-3 **CONVICT LABOR** (JUN 2003)
(IAW FAR 22.202)

52.222-4 **CONTRACT WORK HOURS AND SAFETY STANDARDS ACT--OVERTIME COMPENSATION** (SEP 2000)
(IAW FAR 22.305)

52.222-21 **PROHIBITION OF SEGREGATED FACILITIES** (FEB 1999)
(IAW FAR 22.810(a)(1))

52.222-26 **EQUAL OPPORTUNITY** (APR 2002)
(IAW FAR 22.810(e))

52.222-35 **EQUAL OPPORTUNITY FOR SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS** (DEC 2001)
(IAW FAR 22.1310(a)(1), DFARS 222.1308(a)(1))

52.222-36 **AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES** (JUN 1998)
(IAW FAR 22.1408(a))

52.222-37 **EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS** (DEC 2001)
(IAW FAR 22.1310(b))

52.222-41 **SERVICE CONTRACT ACT OF 1965, AS AMENDED** (MAY 1989)
(IAW FAR 22.1006(a))

52.222-42 **STATEMENT OF EQUIVALENT RATES FOR FEDERAL HIRES** (MAY 1989)
(IAW FAR 22.1006(b))

In compliance with the Service Contract Act of 1965, as amended, and the regulations of the Secretary of Labor (29 CFR Part 4), this clause identifies the classes of service employees expected to be employed under the contract and states the wages and fringe benefits payable to each if they were employed by the contracting agency subject to the provisions of 5 U.S.C. 5341 or 5332.

This Statement is for Information Only:
It is not a Wage Determination

Employee Class	Monetary Wage	Fringe Benefits
ENGINEERING TECHNICIAN II		**15.35**
ENGINEERING TECHNICIAN IV		**23.45**
ENGINEERING TECHNICIAN V		**28.11**

52.222-44 **FAIR LABOR STANDARDS ACT AND SERVICE CONTRACT ACT--PRICE ADJUSTMENT** (FEB 2002)
(IAW FAR 22.1006(c)(2))

52.223-6 **DRUG-FREE WORKPLACE** (MAY 2001)
(IAW FAR 23.505)

52.223-11 **OZONE-DEPLETING SUBSTANCES** (MAY 2001)
(IAW FAR 23.804(a))

(a) *Definition.* "Ozone-depleting substance," as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR part 82 as--

(1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
(2) Class II, including, but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j(b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

WARNING

Contains (or manufactured with, if applicable) _____*, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

*The Contractor shall insert the name of the substance(s).

52.223-14 **TOXIC CHEMICAL RELEASE REPORTING** (AUG 2003)
(IAW FAR 23.906(b))

252.223-7002 **SAFETY PRECAUTIONS FOR AMMUNITION AND EXPLOSIVES** (MAY 1994)
(IAW DFARS 223.370-5)

252.223-7003 **CHANGE IN PLACE OF PERFORMANCE--AMMUNITION AND EXPLOSIVES** (DEC 1991)
(IAW DFARS 223.370-5)

252.223-7007 **SAFEGUARDING SENSITIVE CONVENTIONAL ARMS, AMMUNITION, AND EXPLOSIVES** (SEP 1999)
(IAW DFARS 223.7203)

(b) The requirements of DoD 5100.76-M apply to the following items of AA&E being developed, produced, manufactured, or purchased for the Government, or provided to the Contractor as Government-furnished property under this contract:

Item No	Nomenclature	National Stock Number	Sensitivity/Category
0001	FLARE TARGET MARKING LUU-1/B	1370001045614	IV
0002		DATA	
0003		DATA	
0004		DATA	

5352.223-9000 **ELIMINATION OF USE OF CLASS I OZONE DEPLETING SUBSTANCES (ODSs)** (APR 2003)
(IAW AFFARS 5323.804(c))

(a) Unless the requiring activity has obtained prior Senior Acquisition Official (SAO) approval, contractors may not:
(1) Provide any service or product with any specification, standard, drawing, or other document that requires the use of a Class I ODS in the test, operation, or maintenance of any system, subsystem, item, component, or process; or
(2) Provide any specification, standard, drawing, or other document that establishes a test, operation, or maintenance requirement that can only be met by use of a Class I ODS.

[NOTE: This prohibition does not apply to manufacturing.]

(b) For the purposes of Air Force policy, the following products that are pure (i.e., they meet the relevant product specification identified in AFI 32-7086) are Class I ODSs:
(1) Halons: 1011, 1202, 1211, 1301, and 2402;
(2) Chlorofluorocarbons (CFCs): CFC-11, CFC-12, CFC-13, CFC-111, CFC-112, CFC-113, CFC-114, CFC-115, CFC-211, CFC-212, CFC-213, CFC-214, CFC-215, CFC-216, and CFC-217, and the blends R-500, R-501, R-502, and R-503; and
(3) Carbon Tetrachloride, Methyl Chloroform, and Methyl Bromide.

[NOTE: Material that use one or more of these Class I ODSs as minor constituents do not meet the Air

Force definition of a Class I ODS.]

(c) The requiring activity has obtained SAO approval to permit the contractor to use the following Class I ODS(s):

[List each Class I ODS, its applications or use and the approved quantities for use throughout the length of the contract. If "None," so state.]

Item No	Class I ODS	Application or Use	Quantity (lbs) per contract period performance
SEE LINE ITEM SCHEDULE			

(d) The offeror/contractor is required to notify the contracting officer if any Class I ODS that is not specifically listed above is required in the test, operation, or maintenance of any system, subsystem, item, component, or process.

52.225-13 **RESTRICTIONS ON CERTAIN FOREIGN PURCHASES** (DEC 2003)
(IAW FAR 25.1103(a))

252.225-7001 **BUY AMERICAN ACT AND BALANCE OF PAYMENTS PROGRAM** (APR 2003)
(IAW DFARS 225.1101(2))

252.225-7002 **QUALIFYING COUNTRY SOURCES AS SUBCONTRACTORS** (APR 2003)
(IAW DFARS 225.1101(3))

252.225-7004 **REPORTING OF CONTRACT PERFORMANCE OUTSIDE THE UNITED STATES** (APR 2003)
(IAW DFARS 225.7203(b))

252.225-7012 **PREFERENCE FOR CERTAIN DOMESTIC COMMODITIES** (JUN 2004)
(IAW DFARS 225.7002-3(a))

252.225-7014 **PREFERENCE FOR DOMESTIC SPECIALTY METALS** (APR 2003)
(IAW DFARS 225.7002-3(b)(1))

252.226-7001 **UTILIZATION OF INDIAN ORGANIZATIONS, INDIAN-OWNED ECONOMIC ENTERPRISES, AND NATIVE HAWAIIAN SMALL BUSINESS CONCERNS** (OCT 2003)
(IAW DFARS 226.104)

52.227-1 **AUTHORIZATION AND CONSENT** (JUL 1995)
(IAW FAR 27.201-2(a))

52.227-2 **NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENTS** (AUG 1996)
(IAW FAR 27.202-2)

52.229-3 **FEDERAL, STATE, AND LOCAL TAXES** (APR 2003)
(IAW FAR 29.401-3(a))

52.232-1 **PAYMENTS** (APR 1984)
(IAW FAR 32.111(a)(1))

52.232-8 **DISCOUNTS FOR PROMPT PAYMENT** (FEB 2002)
(IAW FAR 32.111(c)(1))

52.232-11 **EXTRAS** (APR 1984)
(IAW FAR 32.111(d)(2))

52.232-16 **PROGRESS PAYMENTS** (APR 2003)
(IAW FAR 32.502-4(a))

(l) *Due date.* The designated payment office will make progress payments on the **30th** day after the designated billing

office receives a proper progress payment request. In the event that the Government requires an audit or other review of a specific progress payment request to ensure compliance with the terms and conditions of the contract, the designated payment office is not compelled to make payment by the specified due date. Progress payments are considered contract financing and are not subject to the interest penalty provisions of the Prompt Payment Act.

52.232-17 **INTEREST** (JUN 1996)
(IAW FAR 32.617(a), FAR 32.617(b))

52.232-23 **ASSIGNMENT OF CLAIMS** (JAN 1986)
(IAW FAR 32.806(a)(1))

52.232-25 **PROMPT PAYMENT** (OCT 2003)
(IAW FAR 32.908(c))

(a) *Invoice payments*—

(5) *Computing penalty amount.* The Government will compute the interest penalty in accordance with the Office of Management and Budget prompt payment regulations at 5 CFR part 1315.

(i) For the sole purpose of computing an interest penalty that might be due the Contractor, Government acceptance is deemed to occur constructively on the **7th** day (unless otherwise specified in this contract) after the Contractor delivers the supplies or performs the services in accordance with the terms and conditions of the contract, unless there is a disagreement over quantity, quality, or Contractor compliance with a contract provision. If actual acceptance occurs within the constructive acceptance period, the Government will base the determination of an interest penalty on the actual date of acceptance. The constructive acceptance requirement does not, however, compel Government officials to accept supplies or services, perform contract administration functions, or make payment prior to fulfilling their responsibilities.

52.232-33 **PAYMENT BY ELECTRONIC FUNDS TRANSFER--CENTRAL CONTRACTOR REGISTRATION** (OCT 2003)
(IAW FAR 32.1110(a) (1))

252.232-7003 **ELECTRONIC SUBMISSION OF PAYMENT REQUESTS** (JAN 2004)
(IAW DFARS 232.7004)

(a) *Definitions.* As used in this clause—

(1) "Contract financing payment" and "invoice payment" have the meanings given in section 32.001 of the Federal Acquisition Regulation.

(2) "Electronic form" means any automated system that transmits information electronically from the initiating system to all affected systems. Facsimile, e-mail, and scanned documents are not acceptable electronic forms for submission of payment requests. However, scanned documents are acceptable when they are part of a submission of a payment request made using one of the electronic forms provided for in paragraph (b) of this clause.

(3) "Payment request" means any request for contract financing payment or invoice payment submitted by the Contractor under this contract.

(b) Except as provided in paragraph (c) of this clause, the Contractor shall submit payment requests using one of the following electronic forms:

(1) Wide Area WorkFlow-Receipt and Acceptance (WAWF-RA). Information regarding WAWF-RA is available on the Internet at https://wawf.eb.mil .

(2) Web Invoicing System (WInS). Information regarding WInS is available on the Internet at https://ecweb.dfas.mil .

(3) American National Standards Institute (ANSI) X.12 electronic data interchange (EDI) formats.

(i) Information regarding EDI formats is available on the Internet at http://www.X12.org .

(ii) EDI implementation guides are available on the Internet at http://www.dfas.mil/ecedi .

(4) Another electronic form authorized by the Contracting Officer.

(c) If the Contractor is unable to submit a payment request in electronic form, or DoD is unable to receive a payment request in electronic form, the Contractor shall submit the payment request using a method mutually agreed to by the Contractor, the Contracting Officer, the contract administration office, and the payment office.

(d) In addition to the requirements of this clause, the Contractor shall meet the requirements of the appropriate payment clauses in this contract when submitting payments requests.

52.233-1	**DISPUTES** (JUL 2002) (IAW FAR 33.215)
52.233-3	**PROTEST AFTER AWARD** (AUG 1996) (IAW FAR 33.106(b))
52.242-13	**BANKRUPTCY** (JUL 1995) (IAW FAR 42.903)
252.242-7000	**POSTAWARD CONFERENCE** (DEC 1991) (IAW DFARS 242.570)
252.242-7004	**MATERIAL MANAGEMENT AND ACCOUNTING SYSTEM** (DEC 2000) (IAW DFARS 242.7204)
52.243-1	**CHANGES--FIXED-PRICE** (AUG 1987) (IAW FAR 43.205(a)(1))
52.243-1	**CHANGES--FIXED-PRICE -- ALTERNATE I** (APR 1984) (IAW FAR 43.205(a)(2))
252.243-7001	**PRICING OF CONTRACT MODIFICATIONS** (DEC 1991) (IAW DFARS 243.205-70)
252.243-7002	**REQUESTS FOR EQUITABLE ADJUSTMENT** (MAR 1998) (IAW DFARS 243.205-71)
52.244-6	**SUBCONTRACTS FOR COMMERCIAL ITEMS** (JUL 2004) (IAW FAR 44.403)
52.246-25	**LIMITATION OF LIABILITY--SERVICES** (FEB 1997) (IAW FAR 46.805(a)(4))
52.248-1	**VALUE ENGINEERING** (FEB 2000) (IAW FAR 48.201(b), FAR 48.201(f))
52.249-2	**TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE)** (MAY 2004) (IAW FAR 49.502(b)(1)(i))
52.249-4	**TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (SERVICES) (SHORT FORM)** (APR 1984) (IAW FAR 49.502(c))
52.249-8	**DEFAULT (FIXED-PRICE SUPPLY AND SERVICE)** (APR 1984) (IAW FAR 49.504(a)(1))
52.252-2	**CLAUSES INCORPORATED BY REFERENCE** (FEB 1998) (IAW FAR 52.107(b))

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. **Also, the full text of a clause may be accessed electronically at this/these address(es):**

Regulations URLs: (Click on the appropriate regulation.)
http://farsite.hill.af.mil/reghtml/regs/far2afmcfars/fardfars/far/far1toc.htm
http://farsite.hill.af.mil/reghtml/regs/far2afmcfars/fardfars/dfars/dfar1toc.htm
http://farsite.hill.af.mil/reghtml/regs/far2afmcfars/af_afmc/affars/affar1toc.htm
http://farsite.hill.af.mil/reghtml/regs/far2afmcfars/af_afmc/afmcfars/afmc1toc.htm

Joint ALC (JALC) Local Clauses/Provisions:

http://farsite.hill.af.mil/REGHTML/Regs/Other/JALC/JALC.htm

NOTE: After selecting the appropriate regulation above, at the "Table of Contents" page, conduct a search for the desired regulation reference using your browser's **FIND** function. When located, click on the **regulation reference** (hyperlink).

52.252-6 **AUTHORIZED DEVIATIONS IN CLAUSES** (APR 1984)
(IAW FAR 52.107(f))

(a) The use in this contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this contract of any ***Defense Federal Acquisition Regulation Supplement*** (48 CFR **Chapter 2**).clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

52.253-1 **COMPUTER GENERATED FORMS** (JAN 1991)
(IAW FAR 53.111)

PART III - LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS
SECTION J
LIST OF ATTACHMENTS

Form Number	Title	Date	Number of Pages
DD FORM 1423-1	CONTRACT DATA REQUIREMENTS LIST, EXHIBIT A, INCLUDING INSTRUCTIONS FOR COMPLETING DD FORM 1423-1	29AUG2003	9
DD FORM 1423-1	CONTRACT DATA REQUIREMENTS LIST, EXHIBIT C, INCLUDING TDP OPTION SELECTION WORKSHEET	14AUG2003	7
DD FORM 1423-1	CONTRACT DATA REQUIREMENTS LIST, EXHIBIT D	29AUG2003	1
	STATEMENT OF WORK - AMMUNITION DATA CARDS, ATTACHMENT 2	UNDATED	4
	AIRMUNITION SPECIFICATION	UNDATED	3
	TECHNICAL REQUIREMENTS DOCUMENT INCLUDING SAFETY REQUIREMENTS AND SERVICE DELIVERY SUMMARY	UNDATED	2
	CONTRACTOR GENERATED STATEMENT OF WORK (SOW)	06JUL2004	9
	SERVICE DELIVERY SUMMARY	UNDATED	1

WMC-03-176

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the government Issuing Contracting Officer for the Contract/PR No. in Block E.

A. CONTRACT LINE ITEM NO. 0002	B. EXHIBIT A	C: CATEGORY: TDP____ TM____ OTHER NDTI
D. SYSTEM/ITEM LUU-1 FLARE UPDATE	E. CONTRACT/PR NO. FD2020-04-60454	F. CONTRACTOR Kilgore Flares

1. DATA ITEM NO. A001	2. TITLE OF DATA ITEM TEST PLAN	3. SUBTITLE	17. PRICE GROUP NSP
4. AUTHORITY (Data Acquisition Document No.) DI-NDTI-80566	5. CONTRACT REFERENCE TRD 1	6. REQUIRING OFFICE OO-ALC/WMBA	18. ESTIMATED TOTAL PRICE NSP
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED D	10. FREQUENCY 1 TIME	12. DATE OF FIRST SUBMISSION BLK 16
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBM.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES draft	final reg	final repr
OO-ALC/WMBA	1	1	
6033 ELM LANE			
HILL AFB UT			
84056-5819			
15. TOTAL -------->	1	1	0

16. REMARKS

(8) Comments/approval will be submitted by OO-ALC/WMBA within 30 days of receipt of draft.

(10)(12) Submit draft within 60 days after contract award. Final data shall be submitted 30 days after approval.

(9) DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DOD contractors only (Critical Technology)(Date of Contract Award). Other requests shall be referred to (OO-ALC/WMBA).

WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751, et seq.) or the Export Administration Act of 1979, as amended, Title 50, U.S.C., App. 2401 et seq. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25.

FOB DESTINATION

G. PREPARED BY Betty M. Alverson BETTY M. ALVERSON/MCS/DM X7-4101	H. DATE 29 AUG 03	I. APPROVED BY Dan Kerns Dan Kerns Chief, Program Control Services Branch Air-to-Surface Munitions Directorate	J. DATE 29 AUG 03

DD Form 1423-1, JUN 90 Previous editions are obsolete. Page 1 of 12 Pages

INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

Item A. Self-explanatory.

Item B. Self-explanatory.

Item C. Mark (X) appropriate category: TDP - Technical Data Package; TM - Technical Manual; Other - other category of data, such as "Provisioning," "Configuration Management", etc.

Item D. Enter name of system/item being acquired that data will support.

Item E. Self-explanatory (to be filled in after contract award).

Item F. Self-explanatory (to be filled in after contract award).

Item G. Signature of preparer of CDRL.

Item H. Date CDRL was prepared.

Item I. Signature of CDRL approval authority.

Item J. Date CDRL was approved.

Item 1. See DoD FAR Supplement Subpart 4.71 for proper numbering.

Item 2. Enter title as it appears on data acquisition document cited in Item 4.

Item 3. Enter subtitle of data item for further definition of data item (optional entry).

Item 4. Enter Data Item Description (DID) number, military specification number, or military standard number listed in DoD 5010.12-L (AMSDL), or one-time DID number, that defines data content and format requirements.

Item 5. Enter reference to tasking in contract that generates requirement for the data item (e.g., Statement of Work paragraph number).

Item 6. Enter technical office responsible for ensuring adequacy of the data item.

Item 7. Specify requirement for inspection/acceptance of the data item by the Government.

Item 8. Specify requirement for approval of a draft before preparation of the final data item.

Item 9. For technical data, specify requirement for contractor to mark the appropriate distribution statement on the data (ref. DoDD 5230.24).

Item 10. Specify number of times data items are to be delivered.

Item 11. Specify as-of date of data item, when applicable.

Item 12. Specify when first submittal is required.

Item 13. Specify when subsequent submittals are required, when applicable.

Item 14. Enter addressees and number of draft/final copies to be delivered to each addressee. Explain reproducible copies in Item 16.

Item 15. Enter total number of draft/final copies to be delivered.

Item 16. Use for additional/clarifying information for Items 1 through 15. Examples are: Tailoring of documents cited in Item 4; Clarification of submittal dates in Items 12 and 13; Explanation of reproducible copies in Item 14.; Desired medium for delivery of the data item.

FOR THE CONTRACTOR

Item 17. Specify appropriate price group from one of the following groups of effort in developing estimated prices for each data item listed on the DD Form 1423.

a. Group I. Definition - Data which is not otherwise essential to the contractor's performance of the primary contracted effort (production, development, testing, and administration) but which is required by DD Form 1423.

Estimated Price - Costs to be included under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administration and other expenses related to reproducing and delivering such data items to the Government.

b. Group II. Definition - Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, or quality of the data item.

Estimated Price - Costs to be included under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

c. Group III. Definition - Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control, and quality of the data item.

Estimated Price - Costs to be included under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

d. Group IV. Definition - Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price - Group IV items should normally be shown on the DD Form 1423 at no cost.

Item 18. For each data item, enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

*U.S. GOVERNMENT PRINTING OFFICE: 1990-260-987:84437

WMC-03-176

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C: CATEGORY:
0002	A	TDP____ TM____ OTHER SAFT

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
LUU-1 FLARE UPDATE	FD2020-04-60459	Kilgore Flares

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A004	AMMUNITION DEMILITARIZATION AND	DISPOSITION PLAN	NSP

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-SAFT-81640	TRD 7	OO-ALC/WMBA	NSP

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT		1 TIME	BLK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBM.**
A	D		

14. DISTRIBUTION

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OO-ALC/WMBA	1	1	
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HILL AFB UT			
84056-5819			
15. TOTAL -------->	1	1	0

16. REMARKS

(8) Comments/approval will be submitted by OO-ALC/WMBA within 30 days of receipt of draft.

(10)(12) Submit draft within 30 days of first delivery of flares. Final data shall be submitted 30 days after approval.

(9) DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DOD contractors only (Critical Technology)(Date of Contract Award). Other requests shall be referred to (OO-ALC/WMBA).

WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., Sec 2751, et seq.) or the Export Administration Act of 1979, as amended, Title 50, U.S.C., App. 2401 et seq. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25.

FOB DESTINATION

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Betty M. Alverson BETTY M. ALVERSON/WCS/DM X1-4101	29 AUG 03	Dan Kerns Dan Kerns Chief, Program Control Services Branch Air-to-Surface Munitions Directorate	29 AUG 03

WMC-03-176

CONTRACT DATA REQUIREMENTS LIST
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Form Approved
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A. CONTRACT LINE ITEM NO. 0002	B. EXHIBIT A	C: CATEGORY: TDP____ TM____ OTHER SDMP
D. SYSTEM/ITEM LUU-1 FLARE UPDATE	E. CONTRACT/PR NO. FD2020-04-60459	F. CONTRACTOR Kilgore Flares

1. DATA ITEM NO. A002	2. TITLE OF DATA ITEM DETAIL SPECIFICATION DOCUMENTS	3. SUBTITLE	17. PRICE GROUP NSP
4. AUTHORITY (Data Acquisition Document No.) DI-SDMP-81464A	5. CONTRACT REFERENCE TRD 2	6. REQUIRING OFFICE OO-ALC/WMBA	18. ESTIMATED TOTAL PRICE NSP

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
DD	D	1 TIME	BLK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBM.**
A			

16. REMARKS

(8) Comments/approval will be submitted by OO-ALC/WMBA within 30 days of receipt of draft.

(10)(12) Submit draft within one year after contract award. Final data shall be submitted 30 days after approval.

(9) DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DOD contractors only (Critical Technology)(Date of Contract Award). Other requests shall be referred to (OO-ALC/WMBA).

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84056-5819			
15. TOTAL -------->	1	1	0

G. PREPARED BY Betty M Alverson BETTY M. ALVERSON/AMCS/DM X1-4101	H. DATE 29 AUG 03	I. APPROVED BY Dan Kerns Dan Kerns Chief, Program Control Services Branch Air-to-Surface Munitions Directorate	J. DATE 29 AUG 03

DD Form 1423-1, JUN 90 Previous editions are obsolete.

WMC-03-176

CONTRACT DATA REQUIREMENTS LIST
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A. CONTRACT LINE ITEM NO. 0002	B. EXHIBIT A	C: CATEGORY: TDP____ TM____ OTHER SESS
D. SYSTEM/ITEM LUU-1 FLARE UPDATE	E. CONTRACT/PR NO. FD2020-04-60459	F. CONTRACTOR Kilgore Flares

1. DATA ITEM NO. A003	2. TITLE OF DATA ITEM COMMERCIAL DRAWINGS AND ASSOCIATED LISTS	3. SUBTITLE	17. PRICE GROUP NSP
4. AUTHORITY (Data Acquisition Document No.) DI-SESS-81003B	5. CONTRACT REFERENCE TRD 3	6. REQUIRING OFFICE OO-ALC/WMBA	18. ESTIMATED TOTAL PRICE NSP

7. DD 250 REQ DD	9. DIST STATEMENT REQUIRED D	10. FREQUENCY 1 TIME	12. DATE OF FIRST SUBMISSION BLK 16
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBM.

16. REMARKS

(4) Delete paragraphs 2 and 4 out of Requirements of DI-SESS-81003B.

(8) Comments/approval will be submitted by OO-ALC/WMBA within 30 days of receipt of draft.

(10)(12) Submit draft within one year after contract award. Final data shall be submitted 30 days after approval.

(9) DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DOD contractors only (Critical Technology)(Date of Contract Award). Other requests shall be referred to (OO-ALC/WMBA).

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HILL AFB UT			
84056-5819			
15. TOTAL -------->	1	1	0

G. PREPARED BY Betty M. Alverson BETTY M. ALVERSON/WMES/DM X1-4101	H. DATE 29 AUG 03	I. APPROVED BY Dan Kerns	J. DATE 29 AUG 03

Dan Kerns
Chief, Program Control Services Branch
Air-to-Surface Munitions Directorate

WMC-03-176

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0002	B. EXHIBIT A	C: CATEGORY: TDP____ TM____ OTHER PACK
D. SYSTEM/ITEM LUU-1 FLARE UPDATE	E. CONTRACT/PR NO. FD2020-04-60459	F. CONTRACTOR Kilgore Flares
1. DATA ITEM NO. A005	2. TITLE OF DATA ITEM PERFORMANCE ORIENTED PACKAGING (POP)	3. SUBTITLE TEST REPORT
4. AUTHORITY (Data Acquisition Document No.) DI-PACK-81059	5. CONTRACT REFERENCE TRD 8	6. REQUIRING OFFICE OO-ALC/WMBA
7. DD 250 REQ LT	9. DIST STATEMENT REQUIRED D	10. FREQUENCY 1TIME
8. APP CODE A		11. AS OF DATE
		12. DATE OF FIRST SUBMISSION BLK 16
		13. DATE OF SUBSEQUENT SUBM.

17. PRICE GROUP NSP

18. ESTIMATED TOTAL PRICE NSP

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES draft	final reg	final repr
OO-ALC/WMBA	1		1
6033 ELM LANE			
HILL AFB UT			
84056-5819			
15. TOTAL -------->	1	0	1

16. REMARKS

(8) Comments/approval will be submitted by OO-ALC/WMBA within 30 days of receipt.

(10)(12) Submit draft within 30 days after completion of POP tests. Final data shall be submitted 30 days after approval.

(14) Reproducible is a paper copy.

(9) DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DOD contractors only (Critical Technology)(Date of Contract Award). Other requests shall be referred to (OO-ALC/WMBA).

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FOB DESTINATION

G. PREPARED BY Betty M. Alverson BETTY M. ALVERSON/AFMC/DM X1-4101	H. DATE 29 AUG 03	I. APPROVED BY Dan Kerns ~~Dan Kerns~~ Chief, Program Control Services Branch Air-to-Surface Munitions Directorate	J. DATE 29 AUG 03

DD Form 1423-1, JUN 90 Previous editions are obsolete. Page 5 of 6 Pages

WMC-03-176

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C: CATEGORY:
0002	A	TDP____ TM____ OTHER SAFT

D. SYSTEM/ITEM	E. CONTRACT/PR NO	F. CONTRACTOR
LUU-1 FLARE UPDATE	FD2020-04-60459	Kilgore Flares

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A006	TECHNICAL DATA FOR MUNITIONS (TDM)		NSP

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-SAFT-80182B	TRD 5	OO-ALC/WMBA	NSP

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	D	ASREQ	BLK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBM.**
A			ASREQ

16. REMARKS

(4) Contractor format is acceptable.

(8) Comments/approval will be submitted by OO-ALC/WMBA within 30 days of receipt.

(10)(12)(13) The contractor shall provide the source data within 10 working days as soon as it becomes available. Any updates or changes shall provided within 10 working days.

(14) Reproducible is a paper copy.

(9) DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DOD contractors only (Critical Technology)(Date of Contract Award). Other requests shall be referred to (OO-ALC/WMBA).

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6033 ELM LANE			
HILL AFB UT			
84056-5819			
15. TOTAL -------->	1	0	1

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Betty M. Alverson BETTY M. ALVERSON/WMES/DM XT-4101	29 AUG 03	Dan Kerns Dan Kerns Chief, Program Control Services Branch Air-to-Surface Munitions Directorate	29 AUG 03

DD Form 1423-1, JUN 90 Previous editions are obsolete. 6 of 6 Pages

REVISED

WMC-03-176

CONTRACT DATA REQUIREMENTS LIST (1 Data Item)	Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the government Issuing Contracting Officer for the Contract/PR No. in Block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C: CATEGORY:
0002	A	TDP____ TM____ OTHER SAFT

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
LUU-1 FLARE UPDATE	FD2020-04-60459	Kilgore Flares

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A007	EXPLOSIVE ORDNANCE DISPOSAL DATA		NSP

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-SAFT-80931B	TRD 9	OO-ALC/WMBA	NSP

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	D	1 TIME	BLK 16

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBM.
A		

16. REMARKS

(4) Delete all of paragraph 3 of the Requirements of the Data Item Description except paragraphs 3.5, 3.5.a, and 3.5.d.

(8) Comments/approval will be submitted by OO-ALC/WMBA within 30 days of receipt of draft.

(10)(12) Submit draft within 90 days after contract award. Final data shall be submitted 30 days after approval.

(14) Final reproducible copy is electronic.

(9) DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DOD contractors only (Critical Technology)(Date of Contract Award). Other requests shall be referred to (OO-ALC/WMBA).

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HILL AFB UT			
84056-5819			
BLK 16			
15. TOTAL -------->	1	0	1

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Betty M. Alverson BETTY M. ALVERSON/WMES/DM XT-4101	12 APR 04	Dan Kerns Dan Kerns Chief, Program Control Services Branch Air-to-Surface Munitions Directorate	12 APR 04

DD Form 1423-1, JUN 90 Previous editions are obsolete. Page 7 of 3 Pages

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CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

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Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the government Issuing Contracting Officer for the Contract/PR No. in Block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C: CATEGORY:
0002	A	TDP_____ TM_____ OTHER NDTI

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
LUU-1 FLARE UPDATE	FD2020-04-60459	Kilgore Flares

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A008	TEST/INSPECTION REPORT	QUALIFICATION TEST REPORT	NSP

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-NDTI-808098	TRD 10	OO-ALC/WMBA	NSP

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT		1TIME	BLK 16
8. APP CODE		**11. AS OF DATE**	**13. DATE OF SUBSEQUENT SUBM.**
	D		

16. REMARKS

(4) Contractor format is acceptable.

(10)(12) Submit 30 days after completion of Qualification Testing.

(14) Final reproducible copy is electronic.

(9) DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DOD contractors only (Critical Technology)(Date of Contract Award). Other requests shall be referred to (OO-ALC/WMBA).

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a. ADDRESSEE	b. COPIES draft	final reg	final repr
OO-ALC/WMBA			1
6033 ELM LANE			
HILL AFB UT			
84056-5819			
BLK 16			
15. TOTAL -------->	0	0	1

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Betty M Alverson BETTY M. ALVERSON/WMCS/DM X1-4101	13 APR 03	Dan Kerns ~~Dan Kerns~~ Chief, Program Control Services Branch Air-to-Surface Munitions Directorate	13 APR 03

W. IC-03-176

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
0003	C	TDP X TM ____ OTHER ____

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
LUU-1	FD20200 460459	Kilgore Flares

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
C001	Product Drawings and Associated Lists	LUU-1 Flare Update	NSP

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-SESS-81000B/T	YRD 4	OO-ALC/WMBA	NSP

7. DD 250 REQ	8. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
DD	D	BLK 16	BLK 16

9. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
A	BLK 16	BLK 16

16. REMARKS

Government format for drawings and cage codes shall be U.S. Air Force

Blk4. Tailoring of DI-SESS-81000B per information in this document and attached MIL-DTL-31000B Technical Data Package Option Selection Worksheet.
a. Drawings shall be in accordance with the following tailored documents: ASME Y14.100-2000 (including Appendices B,C,D, and E) ASME Y14.3M, ASME Y14.5M, and ASME Y14.35M (tailoring to these documents are listed below). The following ASME's are used in whole: ASME Y14.1, ASME Y14.24, ASME Y14.34M
Tailoring to ASME's as follows:
ASME Y14.100-2000
(1) Application Data para 4.6 Application Data is required on drawings; general use or multi-use notation is allowed.
(2) Drawing Notes para. 4.26 Drawing Notes shall be on first sheet of drawing.

ASME Y14.35M (Revision of Engineering Drawing and Associated Documents)
(1) (Redrawn Drawings shall) be IAW para 4.3 sub-para 4.3.2
(2) (Revision column) shall be IAW para 6 (Contractor shall maintain revision history in its entirety.
(3) (Revision Letters) shall be IAW para 7.2 sub-para 7.2.1 (a), (b), (c)
(4) (Revision Status of Sheets Block) - Shall be IAW para 7.4 sub-para 7.4.2 (a), (b), (c)
(5) (Adding Sheets) - Shall be IAW para 7.5 sub para 7.5.1 (a)
(6) (Deleting Sheets) - Shall be IAW para 7.5 sub-para 7.5.2 (a)

ASME Y14.5M
Dimensioning and Tolerancing shall be IAW para 1.6.2 and shall be decimal inch.

ASME Y14.3M
Angle of projection shall be IAW para 1.6.1 third angle projection.

ASME Y14.100-2000 INVOKED APPENDICES:
Appendix B- Non-commercial Drawing Practices
Appendix B- for para B5 see TDP Optional Selection Worksheet
Appendix C- Drawing Title
Appendix D- Numbering, Coding, and Identification
Appendix E- Marking on Engineering Drawings
Appendix E- for para E7 see DD1423 Blk 9

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
OO-ALC/LGVTA	1		1
6032 Fir Ave			
Bldg 1237			
Hill AFB, Ut.			
84056-5820			
OO-ALC/WMBA	1		
6033 Elm Lane			
Bldg 1247			
Hill AFB, Ut.			
84056-5819			
15. TOTAL →	2	0	1

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
LGVTA 17-520 Jean Dalebout	14 Aug 03	[illegible]	14 Aug 03

DD FORM 1423-1, FEB 2001 PREVIOUS EDITION MAY BE USED.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
0003	C	TDP X TM ____ OTHER ____
D. SYSTEM/ITEM	**E. CONTRACT/PR NO.**	**F. CONTRACTOR**
LUU-1	FD2020 460459	Kilgore Flares

16. REMARKS *(Continued)*

Blk 7. DD250 will be signed after final delivery has been approved by OO-ALC/LGVTA.

10, 12, 13
Shipping List
a) A shipping list shall be provided with each shipment of engineering data delivery. Each shipping list shall identify each document being furnished in the TDP in alphanumeric order. Media shall be in paper copies to OO-ALC/LGVTA.

Preliminaries:
b. Contractor shall submit preliminary full size paper copies to BLK 14 addressees NLT forty (40) working days prior to all form, fit and function testing. The Government requires twenty (20) working days to review drawings and provide comments back to the contractor via Government engineer. Contractor shall respond with corrections/comments via Government engineer within twenty (20) working days and submit corrected paper preliminary copies to the Government engineer with coordination copy to OO-ALC/LGVTA for final review.

c. Prior to final delivery of drawings, the contractor shall submit request for latest software and format instructions for Metadata to OO-ALC/LGVTA. A digital data sample, including Metadata file, for drawings and associated lists, will be submitted no later that 30 days before final drawing review per direction from OO-ALC/LGVTA. The government requires 30 working days for inspection and acceptance of sample Metadata. Metadata shall be submitted in Microsoft Access 2000. OO-ALC/LGVTA will provide sample Metadata file(s) and sample digital data when final delivery media for drawings has been determined.

d. Contractor shall conduct and support periodic In Process Review (IPR) meetings or teleconferences to discuss/project drawing reviews and status.

Final Delivery
e. Contractor shall prepare and submit an Engineering Change Order (ECO) for each existing drawing affected by this effort. These ECO's will be added as hanging paper to the existing drawings.

f. Contractor shall submit Product Drawings and Associated Lists to BLK 14 addressees NLT (60) working days after Government approval of product configuration baseline. Drawings shall be released at Basic Revision level with all outstanding changes (ECO's) incorporated. The Government requires thirty (30) working days for inspection and acceptance of final delivery.

g. Contractor and Government shall sign AF Form 2602 (Engineering Document Release Record) for each drawing and associated list at time of Government acceptance of TDP.

Distribution Statement D. Distribution authorized to the Department of Defense and U.S. DoD contractors only (Critical Technology) Date of Contract Award). Other requests shall be referred to (OO-ALC/WMBA).

WARNING - Export Controlled

Destruction Notice - Destroy by any method that will prevent disclosure of contents or reconstruction of the document.

Drawing numbers shall be Air Force Drawing numbers that will be assigned by OO-ALC/LGVTS. The preliminary AF drawings shall be prefixed with an "X" until final release at which time the "X" shall be removed.

TDP OPTION SELECTION WORKSHEET
PRODUCT DRAWINGS AND ASSOCIATED LISTS

A. CONTRACT NO.	B. EXHIBIT/ATTACHMENT NO.	C. CLIN	D. CDRL DATA ITEM NO.
FD2020-04-600459	2	–	DI-SESS-81010B

1. DELIVERABLE PRODUCT (X and complete as applicable.)

	a. ORIGINALS (Specify current design activity's full size reproducible drawing or digital data file(s) on which is kept the revision record recognized as official) (Identify specification, type, grade and class, etc.)
	b. REPRODUCTIONS (Identify specifications, type, grade and class, etc., and quantity of each)
X	c. DIGITAL DATA (Identify specification, exchange media, etc. and specify original (master) or copy)

2. CAGE CODE AND DOCUMENT NUMBERS (X ONE)

	a. CONTRACTOR
X	b. GOVERNMENT Complete (1) and (2) or (3)

(1) Use CAGE Code	(2) Use Document Numbers	(3) To Be Assigned By:
98747		DO/LGVTS

3. DRAWING FORMATS AND DRAWING FORMS (X one and complete as applicable)

X	a. CONTRACTOR FORMATS. Forms to be supplied by contractor.
	b. GOVERNMENT FORMATS. Forms to be supplied by contractor. Samples supplied by (Specify)
	c. GOVERNMENT FORMATS. Forms to be supplied as Government Furnished Material by (Specify)

4. TYPES OF DRAWINGS SELECTION (X one)

X	a. CONTRACTOR SELECTS		b. GOVERNMENT SELECTS (Specify in Item 9)

5. ASSOCIATED LISTS (X and complete as applicable)

X	a. PARTS LISTS (X one)		(1) Integral	X	(2) Separate
X	b. DATA LISTS (X one)		(1) Not Required		(2) Required (Specify levels of assembly) Top
	c. INDEX LISTS (X one)		(1) Not Required		(2) Required (Specify levels of assembly)
	d. WIRING LISTS (X one)		(1) Not Required		(2) Required (Specify levels of assembly)
	e. INDENTURED DATA LISTS (X one)		(1) Not Required		(2) Required (Specify levels of assembly)
	f. APPLICATION LISTS (X one)		(1) Not Required		(2) Required (Specify levels of assembly)

6. DETAILS (X one)

X	a. MULTIDETAIL DRAWINGS PERMITTED		b. MONODETAIL DRAWINGS MANDATORY

7. VENDOR SUBSTANTIATION DATA (X one)

X	a. NOT REQUIRED		b. REQUIRED

8. APPLICABILITY OF STANDARDS. The following Standards apply: (X as applicable)

X	a. ASME Y14.100, ENGINEERING DRAWING PRACTICES (COMMERCIAL)	B C D E	b. ASME Y14.100, WITH APPENDICES B, C, D, E	X	c. ASME Y14.34M ASSOCIATED LISTS		d. EXISTING STANDARDS DO NOT APPLY

9. OTHER TAILORING (Attach additional sheets as necessary)

See TDP Option Selection Worksheet continuation sheet

TDP OPTION SELECTION WORKSHEET
PRODUCT DRAWINGS AND ASSOCIATED LISTS
(Continuation Sheet)

A. CONTRACT NO. B. EXHIBIT/ATTACHMENT NO. C. CLIN D. CDRL DATA

1.c ASMEY 14-100-2000 Appendix B Para B5 is tailored as follows:

a) Contractor shall contact OO-ALC/LGVTA for coordination as to final delivery media of Engineering drawings and associated lists including the associated Metadata files.
b) Upon determination of delivery media the Government will provide sample Metadata file. This metadata file will be in Microsoft Access 2000.

2.b (1,2,3) Letter referencing Contract # must be submitted through the Government contracting officer to OO-ALC/LGVTS (Attn: Wayne Warner) requesting Air Force Drawing Numbers/Cage Code. All unused AF Drawing Numbers shall be turned back to OO-ALC/LGVTS.
(2) Appendix D – para D9.5 is tailored as follows: Drawing numbers shall be Air Force Drawing numbers that will be assigned by OO-LGVTS. The preliminary AF drawings shall be prefixed with an"X" until final release at which time the "X" shall be removed.

3.a Contractor Format is acceptable provided it meets requirements of ASME Y14.1. Signature blocks must comply with ASME Y14.1. In addition, Air Force Authentication and Air Force Release Authority blocks shall be used. Names for AF Authentication and AF Release Authority shall be U.S. Government and names shall be requested from OO-ALC/LGVTA. Contractor names shall be used for Checker, Engineer, Engineering Approval, and Drafter.
Names shall be printed on drawing forms but no signature should appear.
The contractor shall provide a list of all applicable Drawings and Associated Lists for AF Authentication and AF Release Authority signature at the time of Air Force Acceptance of the product baseline. At time of Government acceptance of TDP, Contractor and Government shall sign AF Form 2602 (Engineering Document Release Record) for each drawing and Associated List. Government will provide copy of AF Form 2602 to contractor.

4.a Shall be IAW ASME Y14.24 and Appendix B of ASME Y14.100-2000.

5. Shall be IAW ASME Y14.34M.. Shall be delivered as Digital Data.

5.a Parts List – shall be separate
5.b Data List – Top Assembly

6.a. Shall be IAW ASME Y14.24.

For guidelines see Attachment 1 Technical Data Package Guidance Document List

Attachment 1
30 May 2003

TECHNICAL DATA PACKAGE GUIDANCE DOCUMENT LIST

1. The following documents are listed for guidance purposes only. This list is not to be construed as a legally binding document.

AS 1290A	01 Jan 1986 (R1991)	Graphic Symbols For Aircraft Hydraulic & Pneumatic Systems
ASME Y14.1	1995 (R2002)	Decimal Inch Drawing Sheet Size & Format
ASME Y14.2M	1992 (R1998)	Line Conventions & Lettering
ASME Y14.3M	1994 (R1999)	Multi & Sectional View Drawings
ASME Y14.4M	1989 (R1999)	Pictorial Drawing
ASME Y14.5M	1994 (R1999)	Dimensioning & Tolerancing
ASME Y14.6	2001 (R1998)	Screw Thread Representation
ASME Y14.6M	1981 (R1998)	Screw Thread Representation (Metric Supplement)
ASME Y14.7.1	1971 (R1998)	Gear Drawing Standards – Part 1 for Spur, Helical, Double Helical & Rack
ASME Y14.7.2	1978 (R1999)	Gear & Spline Drawing Standards – Part 2 Bevel & Hypoid Gears
ASME Y14.8M	1996 (R2002)	Castings & Forgings
ASME Y14.13M	1981 (R1998)	Mechanical Spring Representation
ASME Y14.18M	1986 (R1998)	Optical Parts
ASME Y14.24	1999	Types & Applications Of Engineering Drawings

ASME Y14.34M	1996 (R2002)	Associated Lists
ASME Y14.35M	1997	Revision Of Engineering Drawings & Associated Documents
ASME Y14.36M	1996 (R2002)	Surface Texture
ASME Y14.38	1999	Abbreviations & Acronyms
ASME Y14.38a-2002	2002	ADDENDA to Abbreviations & Acronyms
ASME Y14.100-2000	2001	Engineering Drawing Practices
ASME Y32.4	1977 (R1999)	Graphic Symbols For Plumbing Fixtures For Diagrams Used In Architecture & Building Construction
AWS A2.4	1998	Symbols For Welding & Nondestructive Examination
AWS A3.0	2001	Standard Welding Terms & Definitions Including Terms For Bonding, Brazing, Soldering, Thermal Spraying & Thermal Cutting
IEEE 91A/91	27 Jun 1991 (R1994)	Supplement To IEEE Standard For Graphic Symbols & Logic Functions
IEEE 100	01 Jan 2000	Standard Dictionary Of Electrical & Electronics Terms
IEEE 260.1	01 Jan 1993	American National Standard Letter Symbols For Units Of Measurements (SI Units, Customary Inch-Pound Units, and Certain Other Units) Revision and Re-designation of IEEE Std 260-1978
IEEE 280	01 Jan 1985 (R1997)	Standard Letter Symbols For Quantities Used In Electrical Science & Electrical Engineering
IEEE 315	04 Sep 1975 (1993)	Graphic Symbols For Electrical & Electronics Diagrams (Including Reference Designation Class Designation Letters) CSA Z99-75; ANSI Y32.2-75, IEEE 315-75
IEEE 991	01 Jan 1986 (R1994)	Standard For Logic Circuit Diagrams

IEEE C37.2	10 Dec 1996 (R2001)	Standard Electrical Power System Device Function Numbers & Contact Designations
IEEE Y32.9	01 Jan 1972 (R1989)	Graphic Symbols For Electrical Wiring & Layout Diagrams Used In Architecture & Building Construction
IPC 2221	1 Feb 1998	Generic Standard On Printed Board Design Amendment 1: January 2000
IPC 2615	1 Jul 2000	Printed Board Dimensions & Tolerances
IPC D-350D	1992	Printed Board Description In Digital Form Revision D – July 1992
IPC T-50F	1996	Terms & Definitions For Interconnecting & Packaging Electronic Circuits
DoDD 5220.22	8 Dec 1980	DoD Industrial Security Program
DoDD 5230.24	18 Mar 1987	Distribution Statements On Technical Documents
DoDD 5230.25	6 Nov 1984	Withholding Of Unclassified Technical Data From Public Disclosure
D0DD 5230.25 CH 1	18 Aug 1995	
MIL-HDBK-288B	14 Jan 1991	Review & Acceptance Of Engineering Drawing Practices
MIL-STD-130K	15 Jan 2000	Identification Marking of U.S. Military Property

REFERENCE DOCUMENTS

MIL-STD-12	25 Sep 1998 (Cancelled)	Abbreviations For Use On Drawings, Specifications, Standards & Technical Documents (Replaced by ASME Y14.38)
MIL-STD-100G	9 Jun 1997 (Cancelled)	Department of Defense Standard Practice for Engineering Drawings

WMC-03-196

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0004	B. EXHIBIT D	C: CATEGORY: TDP____ TM____ OTHER SAFT
D. SYSTEM/ITEM LUU-1 FLARE UPDATE	E. CONTRACT/PR NO. FD2020-04-60459	F. CONTRACTOR Kilgore Flares

1. DATA ITEM NO. D001	2. TITLE OF DATA ITEM EXPLOSIVE HAZARD CLASSIFICATION DATA	3. SUBTITLE	17. PRICE GROUP NSP
4. AUTHORITY (Data Acquisition Document No.) DI-SAFT-81299B	5. CONTRACT REFERENCE TRD 6	6. REQUIRING OFFICE OO-ALC/WMBA	18. ESTIMATED TOTAL PRICE NSP
7. DD 250 REQ SD	9. DIST STATEMENT REQUIRED	10. FREQUENCY 1TIME	12. DATE OF FIRST SUBMISSION BLK 16
8. APP CODE	D	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBM.

16. REMARKS

(7) The DD Form 250 shall be annotated with the Part Number, National Stock Number and Nomenclature; and is only applicable to the first addressee in block 14. A LT will be used to send data to other addressee.

(10)(12) The contractor shall submit 30 days after the Performance Oriented Packaging Test.

(9) DISTRIBUTION STATEMENT D. Distribution authorized to the Department of Defense and U.S. DOD contractors only (Critical Technology)(Date of Contract Award. Other requests shall be referred to (OO-ALC/WMBA).

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14. DISTRIBUTION

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OO-ALC/WMCS		6	
6043 DOGWOOD AVE			
HILL AFB UT			
84056-5816			
OO-ALC/WMBA		1	
6033 ELM LANE			
HILL AFB UT			
84056-5819			
15. TOTAL -------->	0	7	0

G. PREPARED BY Betty M. Alverson BETTY M. ALVERSON/WMCS/DM X1-4101	H. DATE 29 AUG 03	I. APPROVED BY Dan Kerns Dan Kerns Chief, Program Control Services Branch Air-to-Surface Munitions Directorate	J. DATE 29 AUG 03

DD Form 1423-1, JUN 90 Previous editions are obsolete. 1 Pages

STATEMENT OF WORK - AMMUNITION DATA CARDS

Ammunition Data Cards shall be prepared in accordance with MIL-STD-1168 and shall follow the format required by the worldwide web application identified as WARP or Worldwide Ammunition-data Repository Program. Additional details on WARP are provided below. Prior to gaining Access to WARP, contractor/facility personnel involved in the preparation of ammunition data cards shall obtain a user name and password for the Army Electronic Product Support (AEPS) network. Instructions and help for obtaining access to AEPS are provided below:

AEPS Access Procedures

The Army Electronic Product Support (AEPS) is a Department of Defense logistics website. Entering AEPS will allow you access to the SECURED AREA of the Army Electronic Product Support Network. A username and password are required to enter this area. Only authorized DOD personnel and contractors with current active contracts with DOD will receive access into the AEPS website. If you have a requirement for the AEPS website, you must fill out and submit the AEPS Access Request Form found at the following web address:

http://aeps.ria.army.mil/aepspublic.cfm.

You must click on "Access Request Form" and continue through the steps until completion and click on SUBMIT. You are required to provide a supervisor name, email and phone number if you are a DOD civilian or military. Government contractors are required to provide CAGE Code, Contract Number and COR/COTR with "Government" email address. All requestors must provide their Information Assurance Security Officer's (IASO) (formerly ISSO) name, e-mail, DSN phone and commercial phone.

After submitting the request, your supervisor/COR/COTR will be emailed a copy of your request and will be asked to verify your information before a user ID will be issued. AEPS User ID and AEPS Login Name mean the same. Your supervisor must REPLY back to the e-mail providing the following:

- Approval? (YES/NO)
- Supervisor Name
- Supervisor E-mail

Atch 2

- Supervisor Phone

The COR/COTR must also provide the same information stated above in his/her REPLY plus also provide the Contract Expiration Date (format - MM/DD/YYYY).

Upon notification from your supervisor/COR/COTR, you will be emailed an AEPS User Login Name and instructions for logging into the AEPS Website. You will use the AEPS Password that you assigned to yourself when you filled out the access request form.

Once you gain access to the AEPS website, you can change your personal information when needed to keep your file current.

AEPS HELP-DESK and Problem Reporting Procedures

Reporting Problems - The AEPS Help Desk has several means of reporting problems:

- Call 1-888-LOG-HELP (1-888-564-4357) to speak to an AEPS representative
- Contact the AEPS Help-Desk at Comm. (309) 782-0699 or DSN 793-0699 or (309) 782-1426 or DSN 793-1426
- Contact the AEPS Help-Desk by FAX: (309) 782-1426 or DSN 793-1426
- Contact the AEPS Webmaster by Email: Webmaster (martinj2@ria.army.mil)

Each phone call, email or fax is handled in a prompt and courteous manner. Responses to problems are provided by phone and/or email.

Other means to help assist you in identifying your problems can be found on the AEPS Help Section at web link

http://aeps.ria.army.mil/help.cfm

Here you will find Questions and Answers by clicking in either of the two FAQ subcategories reflected under the HELP tab.

- FAQs - AEPS Access Request Process or
- SSL FAQs - Secured Socket Layer

You may also check out our new Frequently Asked Questions (https://aeps.ria.army.mil/aepsqa.cfm) page to get answers on access problems as another means of assistance.

The AEPS Help Section screen http://aeps.ria.army.mil/help.cfm also reflects two other topics that can be clicked on to provide further assistance:

"Password Problems" or "Request Status" at

https://aeps.ria.army.mil/request/info/UserScreen.cfm

"Ask The AEPS Public Help Knowledge Base" at

http://aeps.ria.army.mil/help/aepshelpmain.cfm

Worldwide Ammunition-data Repository Program (WARP)

Once you have obtained an AEPS user name and password allowing entry to the secured area of AEPS you can access the WARP application by scrolling to the bottom of the list of AEPS applications. The WARP opening main page and all subsequent pages contain multiple navigational aids to guide you through the process of inputting information necessary for creating a new ammunition data card. An online users manual will provide additional help in the development of an ammunition data card and it is recommended that you download and read the users manual prior to inputting your initial data card. The user's manual also contains screen shots, which depict what the inputter will see during the ADC input process.

Ammunition Data Card Input

ADC input allows current contractors and government facilities the capability to create, and submit for approval, ADCs which meet the format requirement of MIL-STD-1168B. ADCs are automatically forwarded to the respective Governmental Agency Responsible for Acceptance (GARA). The GARA, in most cases the Defense Contract Management Agency (DCMA) Quality Assurance Representative (QAR), reviews contractor input for accuracy and completeness, and after updating the disposition code for the specific lot, submits the ADC to the database. The inputter is granted access only to ADCs identified with its specific manufacturing code, as identified in MIL-HDBK-1461A, Manufacturer's Symbols. The use of previously inputted ADCs through the TEMPLATE option, significantly reduces input effort, while increasing accuracy and consistency of data.

Email Notification

WARP provides immediate, automated notification to process participants when actions are required. When the producer has completed an ADC submission, an e-mail message is routed to the GARA advising that an ADC is awaiting review and approval. If the GARA approves the ADC as submitted, the ADC is released to the database and an e-mail, with approved data card, is routed back to the originator. If the ADC requires modification or correction to be in accordance with MIL-STD-1168B requirements, an e-mail is provided to the ADC originator advising that corrective action is required prior to approval.

Information Updates

It is important that the System Administrators are apprised when a producer receives a new contract. The producer shall notify OSC-WARP@osc.army.mil within 30 days after receipt of a new contract. Information to be included shall be the contract number, item, GARA, manufacturer's identification symbol and the names of the individuals who will be inputting ADCs into the system. If you are a new producer and do not have a manufacturer's identification symbol, you can obtain one by sending an e-mail to OSC-WARP@osc.army.mil. The e-mail must include manufacturer's name, address where performance of the contract will take place, and a point of contact.

AIRMUNITION SPECIFICATIONS
MIPR/PR FD2020-04-60459
Item Manager: Sandy Palmer 777-5993

DODIC Number L660

Ammunition lot numbering shall be accomplished. Reference MIL-STD-1168B for guidance.

Ammunition Data Cards (ADC) shall be filled out: input IAW attachment 2, Statement of Work-Ammunition Data Cards; and state quantity/serial number of lot acceptance test units in the remark block (DI-MISC-80043A).

Items are to be marked using accepted practices for marking of explosive devices (reference MIL-STD-130K for guidance). Minimum item marking shall include manufacturer part number or model number, lot number (reference MIL-STD-1168B for guidance), serial number and date of manufacture. Item markings shall make no reference to service life or installation procedures.

Physical Security of Arms, Ammunition & Explosive (AA&E) items shall be safeguarded as sensitive in accordance with DOD 5100.76-M, 12 August 2000 and the following sensitivity/category code: **Ammunition and Explosives IV**

Shipping activities shall prepare a Report of Shipment (RESHIP). See attachment 1.

Hazard Class/Division: 1.3
Storage Compatibility Group: G
DOT Marking: Flares, Aerial
DOT Class: 1.3G
DOT Label: Explosive 1.3G
UN Serial No.: 0093
UN Proper Shipping Name: Flares, Aerial

All configuration actions shall be in accordance with the current OO-ALC Item/System Configuration Management Plan.

TDP data package will be provided by the Air Force OO-ALC/WMCS.

All configuration actions shall be IAW Industry Standard EIA-649

Lot Acceptance test requirements are:
Per Air Force Specification SP67C129129.

The contractor shall furnish a Test/Inspection Report, Lot Acceptance Test (DI-NDTI-80809B).

LOT ACCEPTANCE TEST: In the event of a end item firing failure, the contractor shall notify the responsible Air Force Engineering Organization OO-ALC/WMB by FAX within 24 hours Fax is DSN 777-6692 or (801) 777-6692.

Proposed corrective actions and recommendations shall be furnished in a Failure Analysis and Corrective Action Report (DI-RELI-81315).

The age of explosive components (i.e. manufactured cartridges, cast propellant grains, detonating cord, etc) except bulk energetic material and primers used in the manufacture of these items will not exceed 12 months. Primers shall have been certified/recertified within the past 12 months unless they are Navy certified and have a 2-year certification. The acceptability of bulk energetic material used in the manufacture of this item will be demonstrated by lot acceptance test data. Non-explosive ingredients such as binders and oxidizers, which do not degrade with age, are excluded from this 12-month requirement. The government may waive this requirement on a case-by-case basis (when advantageous to the government) provided the contractor provides all details of the reason for the waiver and the age and lot numbers of the subject components. The waiver (if granted) may be subject to conditions such as sensitivity testing or dehumidification.

REPORT OF SHIPMENT (REPSHIP): Contractor will be responsible to transmit REPSHIP's to the appropriate consignee or CONUS water or air terminal transportation officer (T.O.) and the following service accountable supply activity: USAF ACP HILL AFB UT//WMR//. Such notice will be transmitted by electrical means (ETN) to be received at least 24 hours prior to the arrival of the shipment (FAX# 801-777-1089). A telephone REPSHIP to appropriate T.O. will be made when necessary to ensure receipt in advance of shipment arrival and later confirmed by message to all addresses.

A copy of the bill of lading does not meet the requirements of a REPSHIP for ammunition, explosives and inert components. A REPSHIP will include the following data IAW DOD4500.32A (MILSTRIP), Vol 1, Para 4-15 and the Defense Traffic Management Regulation, Para 32-27: (Fill in blanks)

FOR SHIPMENTS TO A WATER OR AERIAL PORT	FOR SHIPMENTS TO CONUS DESTINATIONS
EFTO UNCLASSIFIED	EFTO UNCLASSIFIED
FROM: (CONSIGNOR/SHIPPING ACTIVITY_____	FROM: (CONSIGNOR/SHIPPING ACTIVITY)_____
TO: (CONUS WATER/AIR TERMINAL_____	TO: (CONSIGNEE TRANSPORTATION OFFICER_____
INFO: OO-ALC HILL AFB UT//WMR//	INFO: OO-ALC HILL AFB UT//WMR//
INFO: (ILC AND FIRST TRANSHIPMENT STATION IF APPLICABLE_____	INFO: (ILC AND FIRST TRANSHIPMENT STATION IF APPLICABLE_____
SUBJ: MILSTRIP REPSHIP, IDENTIFY AS CLASS A B, OR C EXPLOSIVE_____	SUBJ: MILSTRIP REPSHIP, IDENTIFY AS CLASS A B, OR C EXPLOSIVE_____
1. CONVEYANCE NO: (CAR OR VEHICLE #)_____	a. DOMESTIC RELEASE ORDER NO:_____
(a) CARRIER_____ ROUTING_____	b. CARRIER:_____ ROUTING:_____
BILL OF LADING #_____ TTL NEW_____	c. VEHICLE #_____ SEAL #_____
(b) SEAL NO OR ANY SECURITY DEVICES APPLIED (SUCH AS UPPER RAIL LOCKS, WIRE TWISTS, ECT)	NET EXPLOSIVE WEIGHT: (NEW): (CLASS A AND B EXPLOSIVES IN EACH VEHICLE, IF APPLICABLE:)
(c) TYPE TRANSPORTATION PROTECTIVE SERVICE RQD: (SSS, CSS, DDPS, RSS, NONE, ECT. AND WHEN APPLICABLE, THE MTX-GS SERVICE NUMBER.)	d. BILL OF LADING #_____
_____	e. DATE OF SHIPMENT:_____
(d) JULIAN DATE OF SHIPMENT:_____	f. ETA: (EST DATE /TIME OF ARRIVAL)_____
(e) JULIAN DT OF EST TIME OF ARRIVAL_____	g. (DATA APPLICABLE TO EACH SHIPMENT:)
A. EXPORT TRAFFIC RELEASE #_____	(1) NSN:_____
VESSEL NAME:_____ VOYAGE NO:_____	DODIC:_____
(1) (TCN) TRANS CONTROL #_____	(2) ROUND COUNT FOR AMMO:_____
(2) (NSN)_____	ITEM COUNT FOR OTHER SHIPMENTS:_____
DODIC:_____	(3) LOT NO FOR AMMO:_____
(3) DIMENSIONS FOR UNITIZED LOADS; LENGTH: _____ WIDTH:_____ HEIGHT:_____ INCH	SENSITIVE ITEM RISK CATEGORY: (FOR ARMS, AMMO, EXPL)_____
(4) TOTAL ROUNDS:_____ TOTAL PIECES:_____	(4) NUMBER & TYPE OF CONTAINERS_____
TOTAL WEIGHT:_____ TOTAL CUBE:_____	(5) WEIGHT:_____ CUBE:_____
(5) LOT #_____ ROUND COUNT:_____	(6) COMPLETE OR PARTIAL SHIPMENT_____
PIECES:_____ WEIGHT:_____ CUBE:_____	(7) PROJECT CODE_____
AND NET EXPLOSIVE WEIGHT FOR LOT_____	(8) REGISTRATION # FOR PARCEL POST SHIPMENT OF SENSITIVE WEAPONS:_____
(When only one lot, furnish Lot No and new. For more than lot, furnish: Lot No, Round count, pieces, weight, cube.)	(9) REQUISITION DOC #_____
(6) PROJECT CODE_____	(10) FLAME OR HEAT PRODUCING TOOLS WILL NOT BE USED TO REMOVE SECURITY DEVICES.
(7) SECURITY CLASSIFICATION: (CONFIDENTIAL, SECRET, OR SENSITIVE 1, 2, 3, 4, VERY HIGH, HIGH, MEDIUM, LOW RISK, MUNITION-UNDERLINE SECURITY OR SENSITIVE CATEGORY AND RISK AS APPLICABLE.)_____	i. SECURITY CLASSIFICATION:_____
(8) NAME, OFFICE SYMBOL AND TELEPHONE NO OF PERSON RESPONSIBLE FOR INFORMATION CONTAINED IN REPSHIP.	j. NAME, OFFICE SYMBOL & TELEPHONE NUMBER OF PERSON RESPONSIBLE FOR INFORMATION CONTAINED IN REPSHIP:_____
	FD2020-04-60459
	Atch 1

* IF FURTHER ASSISTANCE IS REQUIRED, CONTACT YOUR ASSIGNED DEFENSE CONTRACT ADMIN OFFICE

TECHNICAL REQUIREMENTS

1. Test Plan: The contractor shall prepare an overall test plan for the update effort. (DI-NDTI-80566)

2. Detail Specification: The contractor shall generate a new detail specification for the updated marker design. (DI-SDMP-81464A)

3. Top-Line Drawing: The contractor shall provide the top-line drawing of the updated marker design. (DI-SESS-81003B)

4. Technical Data Package: The contractor shall update/modify the existing Technical Data Package (TDP) and shall provide the necessary design, engineering, manufacturing, and quality assurance requirements and information necessary to enable the procurement or manufacture of an interchangeable item that duplicates the physical and performance characteristics of the original product, without additional design engineering effort or recourse to the original design activity. Contractor shall identify any data that is proprietary to them and any data that will not be supplied because of data right issues. Product drawings shall reflect the level of design maturity, which the item has attained. The current TDP contains drawings/outstanding changes, which documents the configuration baseline of the LUU- 1 Flare Update. The contractor shall provide a complete set of all new /revised/updated TDP documentation in accordance with the drawing standards, which are in effect when the contract is awarded. The contractor shall incorporate all outstanding changes (i.e. ECO's/EO'S) initiated prior to or after contract award into the TDP (when applicable). OO-ALC/LGVTA shall host a Guidance Conference to clarify requirements. The contractor shall conduct and support periodic In Process Review (IPR) meetings or teleconferences to discuss program/project drawing reviews and status. Delivery of the engineering data shall be in a form of digital data along with metadata for final delivery that is compatible with Joint Engineering Data Management Information Control System (JEDMICS). This information will be supplied by OO-ALC/LGVTA, Hill AFB, Utah. Final Delivery of drawings will be accepted by OO-ALC/LGVTA, per signature on form DD250. (DI-SESS-81000B)

5. Source Data: The contractor will provide source data for safe and efficient storage, maintenance, inspection and transportation of LUU-1 items to be incorporated into existing Technical Manual. (DI-SAFT-80182B)

6. Explosive Hazard Classification and Characterisitics Data The contractor shall develop explosive hazard data for all new and existing explosive end items which do not have an approved DoD classification. (DI-SAFT-81299B)

7. Demilitarization and Disposal Plan The contractor shall develop an ammunition demilitarization and disposition plan. (DI-SAFT-81640)

8. Performance Oriented Packaging The contractor shall provide a Performance Oriented Packaging (POP) test report. The LUU-1 marker shall be package in accordance with the special packaging instructions provided by OO-ALC/WMBA. (DI-PACK-81059)

9. Explosive Ordnance Disposal Data The contractor shall provide explosive ordnance disposal data. (DI-SAFT-80931B)

10. Qualification Test Report: The contractor shall prepare a Qualification test report. Any portion or the entire Qualification test can be accomplished at Eglin AFB, Florida. All contact information for Eglin AFB test schedule and cost should be directed to Mr. Tim Freeman 46OG/OGMT 850-882-4710. (DI-NDTI-80809B)

11. Reliability Analysis: The test data shall be analyzed to determine the functional reliability of the updated marker design. Additionally, the contractor shall estimate the functional reliability at the 90% confidence level.

12. Test Witnessing: The Air Force Project Engineer, OO-ALC/WMBA, shall be responsible for monitoring all requirements imposed under this contract to ensure satisfactory compliance. Testing may be witnessed by the Air Force Project Engineer or designated alternate. OO-ALC/WMBA shall be notified through the PCO of all tests at least ten working days prior to commencement of the test.

SAFETY REQUIREMENTS:

System Safety Requirements: The contractor shall ensure that all applicable safety requirements are complied with, and that all associated hazards within the test environment are identified and controlled. Mil-Std-882C, Task 302 ("Test and Evaluation Safety") may be used by the contractor for guidance.

Industrial Safety: If not already accomplished, the contractor will implement an industrial safety and health program in accordance with the Federal Occupational Safety and Health Standard (29CF, Part 1910). The contractor's safety program shall include occupational safety, health, and fire protection guidance and procedures to ensure the protection of government property to prevent damage during the period of time the property is under the control or possession of the contractor.

SERVICE DELIVERY SUMMARY

PERFORMANCE OBJECTIVE	PERFORMANCE THRESHOLD
General Requirements as described In SOO/TRD	100% of all requirements

DEPARTMENT OF THE AIR FORCE
DIRECTORATE OF CONTRACTING
SOLICITATION FA8213-04-R-3029

LUU-1/B TARGET MARKING FLARE

DEPARTMENT OF THE AIR FORCE
DIRECTORATE OF CONTRACTING
SOLICITATION FA8213-04-R-3029

LUU-1/B TARGET MARKING FLARE

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LUU-1/B TARGET MARKING FLARE PROCUREMENT

I. Introduction

In this document is presented Kilgore's plans to upgrade and qualify the redesign of the LUU-1/B Target Marking Flare. This section of Kilgore's proposal will provide a description of the essential manufacturing process and procedures, including process control, as well as the essential skills required to qualify the flares in accordance with the applicable statement of objectives (SOO) and performance specification. A review of the material presented will clearly demonstrate that the plan as proposed by Kilgore is **realistic**, **achievable** and **supportable**.

II. Performance Based Statement of Work

1.1 Description of Services

Kilgore shall provide the necessary engineering services to upgrade and qualify the LUU-1/B Target Marking Flare and shall provide the following items in accordance with the technical requirements:

1.1.1 Test Plan
1.1.2 Detail Specification
1.1.3 Top-Line Drawing
1.1.4 Technical Data Package (TDP)
1.1.5 Source Data
1.1.6 Explosive Hazard Classification and Characteristics Data
1.1.7 Demilitarization and Disposal Plan
1.1.8 Performance Oriented Packaging (POP)
1.1.9 Explosive Ordnance Disposal Data
1.1.10 Qualification Test Report
1.1.11 Reliability Analysis
1.1.12 Provision for Test Witnessing by OO-ALC/WMBA

1.2 Service Delivery Summary

1.2.1 Manufacturing Facilities

Kilgore's methodology for producing LUU-1/B flares is by casting the candle. After the 2002 incident, Kilgore, at its sole election, undertook a $20M investment to automate its facilities. This effort was focused on removing all direct human contact with the flare composition, from initial mixing through casting of the candle. With an automated process, under a single shift operation, the following significant equipment must be available:

- Casting Equipment

For all of the foregoing, Kilgore has readily available the essential production requirements that will permit it to meet the delivery schedule detailed in this Tender.

In order to meet the delivery scheduled specified, Kilgore will implement a single-shift casting operation. For sustained production, the skill set requirements range from entry-level material handlers and assemblers to mixing and casting operators, the latter representing a highly skilled, small group of production individuals. The skill set required for the LUU-1/B Program, a total of 7 dedicated personnel will be required. The skill type and particular quantity needed follows:

- Mix Complex Operators – These personnel require a higher level of knowledge and ability. Duties include, but are not limited to, weighing and mixing composition in accordance with calculated blend specifications. Performing such tasks requires a specialized knowledge of operating and interpreting PLC computer control panels to produce the pressed flare grains. 2 personnel
- Assemblers – This group's tasks include, but is not limited to, casting the candle into the case, applying stenciling to cases, installing various sub-assemblies such as fuses, timers, and parachutes, and packing/labeling finished products. 3 personnel
- Material Handlers – These employees' responsibilities include, but are not limited to, setting-up assembly lines, providing product to assembly lines, transporting various stages of product from one process to the next, operating download and rack-up stations, inspecting and packing-out finished product, maintaining temperature-critical areas and auditing SPC data. 2 personnel
- Other direct personnel – This group consists of a dedicated project engineer and appropriate project management.
- Other indirect personnel – Other indirect personnel include, but are not limited to, process and test engineers and test technicians.

Kilgore employs a stable, highly trained production workforce in excess of 400 personnel. The LUU-1/B Program account for no more than 15 of these personnel, again on a single-shift operation. All of the required skill types, as well as the required quantity of each skill type, are resident at Kilgore; consequently, no new employees need be hired.

1.2.2 Test Facilities

For production of the LUU-1/B flares, the following test facilities must be present at Kilgore:

- Radiometric and Radiographic Test Facilities

Kilgore, has all of the above identified testing facilities and equipment available to support this effort. These test facilities are kept in continuous operation, owing to the testing requirements of other Government and commercial flare orders. Kilgore's test facilities are extensive, well managed and meticulously maintained and are shared across any number of programs and customers; therefore, there is no risk to, and should be no concern by the Government over the availability and performance of the necessary test facilities resident at Kilgore.

1.2.3. Equipment facilities (other than manufacturing facilities)

Kilgore has an in-depth infrastructure of equipment in place to support its various lines, including that which would be dedicated to support the LUU-1/B production. This equipment includes:

- Mixing, casting and final assembly facilities and equipment

This equipment undergoes regularly scheduled maintenance. Kilgore's resident in-house maintenance is reinforced through the period scheduling of outside maintenance services; the intent here being to ensure that the equipment is kept in first-rate condition and the steady infusion of additional attention and knowledge. Kilgore is thoroughly knowledgeable about the variety and complexity of the equipment required to support these flares. All of this equipment is resident at Kilgore, in full operational order and instantly ready for dedication to any future awards. Because of the significant capital investment made in the relatively recent past, there is no requirement for any major additional capital investment. Other than some minor expenditure on a small amount of non-recurring engineering equipment, no other notable equipment expenditure need be made.

1.2.4. Skills

There is a variety of skill sets required to produce this flare. These disciplines include:

- Assemblers
- Complex press operators
- Material handlers
- Project Engineers
- Process Engineers

To meet the requirements of the LUU-1/B production deliverables, a total of 7 dedicated personnel are required. Supporting these dedicated personnel are the following ancillary personnel who have a direct role in the flare's production:

- Maintenance – 2
- Production control – 1
- Purchasing – 1
- Quality assurance – 1

Finally, there are the other support functions, traditionally of an administrative nature. These functions include such activities as contract administration, cost control, document control, engineering services, security (physical and classification), shipping/receiving and executive management. As with the other skills needed, Kilgore is fully staffed with experience and knowledgeable individuals, all as committed to the success of the LUU-1/B line as those in actual manufacture of the flares.

1.3 Government Furnished Property and Services

Kilgore will not require any GFE, GFM, GFP or GFS in the performance of the SOO.

1.4 General Information

1.4.1 Manufacturing Processes/Plans

Kilgore has a resident all of the necessary manufacturing processes/plans required to ensure the timely delivery of a quality product. Furthermore, Kilgore maintains a strong quality staff whose duties govern every aspect of the Company's operations.

1.4.2 Subcontractors

Except for the use of an outside testing service to qualify the deliverable LUU-1/B flares, Kilgore will not utilize any subcontractors in the manufacture of LUU-1/B flares; therefore no additional information shall be presented.

1.4.3 Vendors

For each new vendor a procurement quality evaluation is taken to determine the vendor's capabilities, with particular emphasis on the vendor's operating and quality systems. Provided the evaluation is successfully concluded, vendors are then categorized into 2 groups. Group I represents firms that provide products of either a complex nature or which have critical applications. These firms are re-evaluated by Kilgore every 12 months. Group II is composed of firms whose products conformance to contract requirements can readily be determined upon receipt. Because of the reduced possibility of receipt of defective product, these vendors are re-evaluated, at a minimum, every 3 years or as circumstances warrant. The evaluation includes a review of the particular vendor's quality system and as applicable, ANSI/ASQC Q9001-1994, ANSI/ASQC Q9002-1994, ANSI/ASQC Q9003-1994, MIL-HDBK-50, MIL-HDBK-51, MIL-HDBK-52, MIL-STD-1520, as well as MIL-STD-1535. Audit finding reside with the Purchasing Department and a copy provided to the vendor. Unsatisfactory findings can result in a vendor's status changing from "Approved Supplier" to "Limited Approved Suppler", "Withheld Supplier" or "Disapproved Supplier". Unsatisfactory vendor quality and delivery performance can also result in a vendor status change. If a vendor's status is other then "Approved Supplier", it receives heighten reviews and additional audits. Where appropriate, Kilgore will assist the vendor in correcting any deficiencies.

1.4.4 Process Control

Process control, a recognized essential component of manufacturing, is initiated by Kilgore from the inception of a program. Beginning with a complete review of the TDP, through the generation of a bill of materials, identification and qualification of subcontractors and vendors, through receipt of materials, mixing of the composition, casting of the candles and final assembly up to qualification testing (QT), process control remains at the core of Kilgore's manufacturing. Within the Company's organization, process control is clearly identifiable group, headed by a director, with unquestionable and unambiguous tasking: undertake whatever measures are required in order for Kilgore to manufacture and subsequently deliver a product in a timely manner. Residing within the progress control group is purchasing and vendor quality control. These subelements are integral towards ensuring that the materials provided are first and foremost, at an acceptable condition, and thereafter, supplied in an expeditious and diligent manner.

From a personnel perspective, a dedicated purchasing agent and quality assurance employee addresses all of the requirements of the LUU-1/B line.

From a technology perspective, Kilgore has a validated, proprietary computer program, entitle "MANAGE MRP II", to provide assistance.

From a variety of different inspections, both internal and external, Kilgore has consistently been applauded for the manner and breath of its process control. An even more important indicator of the impact of process control is the unquestionable success of the deliveries on the MJU-7A/B and M206 flares. Because of the recognized importance of this essential component of the manufacturing process, all of tasking and services are available in-house; thus, Kilgore, except from a validated auditing perspective, does not rely on outside sources for process control.

1.4.5 Safety

1.4.5.1 Overview

Over the past 3 plus years, Kilgore has re-evaluated and redesigned virtually every aspect of its flare manufacturing process to improve safety and reduce the probability of an incident. The generation of process hazard analysis (PHA) has been instrumental in this effort. During previous operations at Kilgore operators were exposed to large amounts of explosive material at times during the mixing, drying, granulating, cross blending, ignition material application, weigh-up and final assembly processes. Extensive process re-design has allowed these procedures to be performed by remote control, effectively separating the operator from the material. Where exposure to the material has not been eliminated, the quantity of material that an employee handles has been drastically reduced so that serious injury should not be incurred during an unplanned event.

Kilgore has adopted the philosophy of "assume ignition will occur". When an event occurs involving energetic materials the processes in place ensure that an employee will not incur a serious injury as the result of an unplanned ignition. The Company feels it has greatly reduced the probability of serious injury through its commitment to reduce dependence upon administrative controls and in turn incorporation of engineering controls (barriers/shields, remote control operations, etc...) into the production build. This alternation has effectively separated the operator from the material in most situations. In areas where the energetic material, components, or sub-components have to be handled, personal protective equipment (PPE) is utilized to shield the employee from serious injury. This approach is, and has been validated, by Kilgore conducting literally hundreds of energetic ignition tests. In these test, explosive material in all forms and weights is ignited. The results, including temperature, are collected from a

variety of equipment, including a test mannequin that registers temperature at the hands, face and chest during ignition. If the results are unacceptable, then improved engineering controls (such as additional or relocation of deluge nozzles) are implemented or PPE is adjusted to obtain a satisfactory result.

Kilgore's safety program focuses on full compliance to DoD 4145M (Contractor Safety Manual), OSHA 1910.119 (Process Safety Management) and other applicable regulatory authorities, while at the same always exploring enhancement to its overall safety program. Much of this effort has centered on increased diverse training for management and employees. The Company has site-specific written programs relative to OSHA regulations and conducts training both initially and annually where required by law. A Vexdam modeling program has been purchased and is utilized to simulate explosive events at various parts of the process. Data from this software program is utilized to predict severity for facilities and personnel during an event.

Going forward, on a daily basis, Kilgore continues to be proactive in its approach to safety for its employees and its facilities Extensive training for all employees will continue, and whenever deemed appropriate, enhanced. The continued application of PHA(s), the on-going use of the Vexdam modeling program and additional testing of PPE, will help to ensure the safety of Kilgore's employees.

1.4.5.2 Compliance

Kilgore has and will continue to comply with DoD 4145.26M and other regulations specific to this written authority. The Government's Safety Manager (located at the DCMA Office in Birmingham, Alabama), conducts quarterly audits of all Kilgore's operations and facilities. The intent of this audit is to ascertain Kilgore's compliance with the aforementioned authority. Audit documentation is maintained to include follow-up reports regarding findings/recommendations observed during each audit.

The Company maintains compliance with all pertinent OSHA regulations to include 29 CFR 1910.119 (Process Safety Management). Site-specific written programs are maintained where requirements so warrant. Training is conducted on both an initial and annual basis as required by law. This training includes, but is not confined to, the standards associated with lockout/tag out, confined space entry, hazard communication, hearing conservation, blood-borne pathogens and fall protection.

Kilgore maintains compliance with the state branch of OSHA, known as TOSHA. Information provided in paragraph (b) is applicable here as well. Injury statistics relevant to the OSHA 300 log and chemical lists are supplied to the state on an annual basis as required.

1.4.5.3 Management

Kilgore's Safety & Health Manager has over 21 years of in-depth experience as a safety professional in the explosives/pyrotechnics industry. The Safety Staff consists of 3 safety officers, a registered nurse and contracted emergency medical technicians. These personnel are utilized to provide support for operations conducted on all shifts. Indicative of their responsibilities, the Safety Staff is highly visible throughout the Plant. Although they work harmoniously with the other departments to identify and eliminate hazards, and to safely and efficiently handle upset conditions when they occur, these personnel hold ultimate responsibility as for determining whether actual production will take place.

1.4.5.4 Site Plans

The Company operates under Government approved site plan Building limits and distances between buildings were and remain set in accordance with quantity distance regulations specified in DoD 4145.26-M. There has been no increase in quantity of materials or hazards beyond what is presently approved.

1.4.5.5 Construction Plans

The Safety Staff at Kilgore is actively involved in the initial planning of new structures or building renovations. Outside contractor crews, when utilized attend a contractor safety orientation and are expected to adhere to all regulations relevant to construction operations.

1.4.5.6 Mishap Investigation and Reporting

All incidents, (to include minor injury, vehicle incidents, fires, etc...) regardless of severity are investigated. The result of this investigation is rendered to a report containing all of the relevant information to include cause, and corrective actions. Kilgore has an incident investigation team composed of management personnel with various areas of expertise, which investigates significant incidents. Significant incidents are reported to the DCMA Safety Manager, Mr. Matt Smith, in Birmingham, Alabama.

1.4.5.7 Safety Training

1.4.5.7.1. Employees

Each employee hired attends a comprehensive safety orientation. Initial training relative to mandatory OSHA regulations is received at this time. All employees are trained to their specific SOP for the job being performing. Training at Kilgore is continuous through safety meetings at the work location with the supervisor, or plant wide safety meetings with the Safety Staff. At least once a year, the entire plant is assembled to watch product demonstrations; the intent being to remind each employee of the explosive power of Kilgore's products. Whenever deemed necessary, Kilgore will "stop work" and discuss safety issues at the operating building with the Safety Manager and Operations Director. Documentation for all training is inserted into the individual employment record.

1.4.5.7.2 Visitors

All visitors must attend a safety orientation/briefing prior to entering any building where energetic operations are in progress. PPE, restricted articles, emergency evacuation and signage on buildings are just a few of the points discussed during the briefing. Each visitor will sign a statement signifying he/she has attended the safety briefing.

1.4.5.8 Applicability to this Solicitation

These target marking flares are manufactured using highly energetic material requiring strict adherence to established procedures for the processes involved, as well as complete compliance with various regulatory agency standards. The safety policies and procedures which Kilgore imposes are directly applicable to the products and those related process and regulatory standards.

1.4.5.9 Risk Mitigation

Extensive testing has been conducted with various energetic compositions in all forms to include solvent wet, dry and pressed, extruded and cast pyrotechnics. Through extensive testing, Kilgore has determined with a great deal of accuracy, exactly how much material an employee can be exposed to (either in a full pyro suit or other various PPE combinations) without incurring serious injury from an unplanned ignition. The Vexdam modeling program is utilized to simulate explosive events at various parts of the process. Data from this software program is utilized to predict severity for facilities and personnel during an event.

For this procurement, a Failure Mode Effect Analysis has been conducted on the process assessing severity and probability for facilities and personnel. MIL. STD 882C was utilized in this analysis.

The Employee Safety Committee, consisting of management and non-management personnel, meets on a monthly basis to bring forward recommendations/suggestions regarding safety issues or concerns. The monthly Supervisor's Safety Meeting and President's Safety Meeting are recognizing avenues for discussing safety issues or concerns in an open and encouraging forum.

Both internal and external audits of operations are conducted on both a scheduled and impromptu basis. External audits are performed by DCMA on a quarterly basis. The safety audit firm, Willis of Pennsylvania, performed a complete safety audit during 2003. The corporate safety officer, assigned by Kilgore's parent company, Chemring, performed an audit in 2004 and another, even more in-depth audit, will be conducted in late 2004. The Safety Staff is continuously holding safety audits addressing the different lines, areas and buildings.

With Kilgore's new automated process employee exposure to energetic materials has been drastically reduced. Even so, there are times when a failure in the system may require direct close human exposure to energetic materials. This is referred to as an "upset condition" and is handled on a case-by-case basis. When an upset condition occurs, designated representatives from various departments are assembled to assess the problem, perform a hazard analysis and develop a procedure to address the situation in a safe and efficient manner. Each incident is appropriately documented and a thorough analysis is conducted so that this particular event does not reoccur.

1.5 Appendices

1.5.1 Past Performance

Please refer to the attached sheets.

III. Performance Metrics

A variety of metrics will be established to monitor performance against the bid, including, but not limited to:

- Labor hours expended for each grade versus the bid quantity
- Actual material usage versus Bill of Materials estimates
- Actual performance of the target marker compared to Statement of Objectives and Performance Specification Requirements

Kilgore is using these, and similar metrics, as previous experience has shown them to be highly reflective of the status of health of a program.

IV. Performance Measurement

3.1 Service Delivery Summary

3.1.1 Performance Objective

At the conclusion of its efforts, Kilgore will qualify, to the satisfaction of the Government and incompliance with the terms of the contract, an upgraded design on the LUU-1/B flare.

3.1.2 Performance Threshold

3.1.2.1 Alignment with required objective

Kilgore will meet all objectives specified in the SOO, PS and related technical requirements for the LUU-1/B.

3.1.2.2 Performance goals against benchmarking studies

With its extensive performance history on both infrared decoy flares and marine location markers, Kilgore has an extensive collection of data to use in benchmarking performance. This data will be used to establish performance goals and develop metrics for monitoring progress against those goals. Once under contract, Kilgore will provide the Government with a copy of its benchmarking criteria.

3.1.2.3 Performance and cost continuous improvement

Kilgore will use its existing ISO 9001/2000 system to monitor performance and ensure effective implementation of continuous improvement practices. Periodically, and as circumstances warrant, Kilgore will provide the Government with an update on its effort for performance and cost continuous improvement. As requested, Kilgore is prepared to share with the Government its prior experience, success and failures, associated with this area.

3.1.2.4 Use of commercial standards

Throughout the development of its proposal Kilgore has attempted to implement commercial standards, in lieu of federal standards, as circumstance warranted. This will be same attitude that will permeate Kilgore's actual performance on the contract. Supportive of this goal of the implementation of commercial practices, unless otherwise stated, all reports, drawing and other supporting documentation shall be provided in the contractor's format.

Definitions

GFE – means government furnished equipment
GFM – means government furnished material
GFP – means government furnished property
GFS – means government furnished services
POP – mean performance oriented package
PS – means performance specification
QT – means qualification testing
SOO – means statement of objects
TDP – means technical data package

DEPARTMENT OF THE AIR FORCE
DIRECTORATE OF CONTRACTING
SOLICITATION FA8213-04-R-3029

LUU-1/B TARGET MARKING FLARE

ENGINEERING SERVICES TO UPGRADE AND QUALIFY THE LUU-1/B TARGET MARKING FLARE

PERFORMANCE OBJECTIVE TABLE

PERFORMANCE OBJECTIVE	SOW REFERENCE	PERFORMANCE THRESHHOLD
Provide Test Plan	II. 1.1., 1.1.1	100% of the time
Provide Detail Specification	II. 1.1., 1.1.2	100% of the time
Provide Top-Line Drawing	II. 1.1., 1.1.3	100% of the time
Provide Updated Technical Data Package	II. 1.1., 1.1.4	100% of the time
Provide Source Data	II. 1.1., 1.1.5	100% of the time
Develop Explosive Hazard Classification and Characteristics Data	II. 1.1., 1.1.6	100% of the time
Develop Demilitarization and Disposal Plan	II. 1.1., 1.1.7	100% of the time
Provide Performance Oriented Packaging (POP) Test Report	II. 1.1., 1.1.8	100% of the time
Provide Explosive Ordnance Disposal Data	II. 1.1., 1.1.9	100% of the time
Provide Qualification Test Report	II. 1.1., 1.1.10	100% of the time
Perform Reliability Analysis	II. 1.1., 1.1.11	100% of the time
Provision for Test Witnessing by 00-ALC/WMBA	II. 1.1., 1.1.12	100% of the time