

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			I. CONTRACT ID CODE J	PAGE OF PAGES 1 6	
2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE 25-Sep-2004	4. REQUISITION/PURCHASE REQ. NO. W22PL0-4253-N701		5. PROJECT NO.(If applicable)	
6. ISSUED BY DIRECTORATE OF CONTRACTING SFCR SR KN BLDG 1109 FORT KNOX KY 40121-5000		CODE W9124D	7. ADMINISTERED BY (If other than item 6) See Item 6		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. W9124D-04-T-0082	
			X	9B. DATED (SEE ITEM 11) 15-Sep-2004	
				10A. MOD. OF CONTRACT/ORDER NO.	
				10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended.					
Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
A. This amendment corrects the item description in the quotation to read: Hydraulic Dynamometer, Kahn Mdl 301-220 or equal (see attached specifications)					
B. This amendment also adds CLINs 0003 and 0004 to the quotation.					
C. Response date is extended to September 29, 2004, 2:00 P.M. Local Time.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			TEL: _____ EMAIL: _____		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)			BY _____ (Signature of Contracting Officer)		25-Sep-2004

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 1449 - CONTINUATION SHEET

SUPPLIES OR SERVICES AND PRICES

CLIN 0001

The CLIN description has changed from DIESEL ENGINE TEST STAND, to HYDRAULIC DYNAMOMETER,.

The CLIN extended description has changed from TEST STAND CONSISTS OF HYDRAULIC DYNAMOMETER KAHN MODEL 301-220 OR EQUAL, CALIBRATION SYSTEM KAHN SERIES 504 OR EQUAL, DATA MONITORING AND CONTROL SYSTEM KAHN SERIES 527 OR EQUAL, DATA ACQUISITION SYSTEM KAHN SERIES 533 OR EQUAL, KAHN MODEL AVDS 1790 WITH ADAPTER KIT KAHN SERIES 509 OR EQUAL. to KAHN MDL 301-220 OR EQUAL, INCLUDES CALIBRATION SYSTEM KAHN SERIES 504 OR EQUAL, DATA MONITORING AND CONTROL SYSTEM KAHN SERIES 527 OR EQUAL, DATA ACQUISITION SYSTEM KAHN SERIES 533 OR EQUAL, ADAPTER KIT KAHN SERIES 509 OR EQUAL, SEE ATTACHED SPECIFICATIONS.

CLIN 0003 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	HYDRAULIC DYNAMOMETER, FFP KAHN MDL 301-220 OR EQUAL, INCLUDES ADAPTER KIT KAHN SERIES 509 OR EQUAL AND SENSORS FOR CONTROL SYSTEM KAHN SERIES 503 AND SERIES 900 OR EQUAL, SEE ATTACHED SPECIFICATIONS	1	Each		

NET AMT

FOB: Destination

CLIN 0004 is added as follows:

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	HYDRAULIC DYNAMOMETER, FFP KAHN MDL 301-160 OR EQUAL, INCLUDES DATA MONITORING AND CONTROL SYSTEM KAHN SERIES 527 OR EQUAL, CALIBRATION SYSTEM KAHN SERIES 504 OR EQUAL, DIESEL ENGINE ADAPTER KIT KAHN PART NUMBER 509-301-034 OR EQUAL (FOR USE WITH GM 6.2L DIESEL ENGINES), AND DATA ACQUISITION SYSTEM KAHN SERIES 533 OR EQUAL, SEE ATTACHED SPECIFICATIONS	1	Each		

NET AMT

FOB: Destination

INSPECTION AND ACCEPTANCE

The following Acceptance/Inspection Schedule was added for CLIN 0003:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
N/A	N/A	N/A	Government

The following Acceptance/Inspection Schedule was added for CLIN 0004:

INSPECT AT	INSPECT BY	ACCEPT AT	ACCEPT BY
N/A	N/A	N/A	Government

The following have been added by full text:

SPECIFICATIONS
CLIN 0001 SPECIFICATIONS

Hydraulic Dynamometer, Kahn Mdl 301-220 or equal, to include the following:

1. Calibration System, Kahn Series 504 or equal: Includes 72 inch long calibration arm, weight hanger, adjustable counterweights, slotted weights lbs each per ASTM E617 accuracy Class 5.
2. Data Monitoring and Control System, Kahn Series 527 or equal: Provides manual (open loop) and automatic (closed loop) dynamometer control. Includes a control console for table-top mounting, two high-performance electro-pneumatic control valvesw, seal water valve, strain-gage load cell, magnetic speed sensor and two connecting cables 30 feet long. Capable of operating in the manual mode. Automatic speed or torque control modes will be selected at time of purchase. PID controller shall offer self-tuning and adaptive tuning features and an analog-to-digital converter sampling rate of 20 updates per second. Control valves shall have a full stroking time of less than 0.5 seconds and reduced amplitude frequency response of 3 Hz.
3. Data Acquisition Syste, Kahn Series 533 or equal: Includes IBM-compatible computer, color monitor, printer, reinstalled software package, in-cell junction box, and 30 foot long interconnecting cables. Software shall allow data monitoring in graphical or tabular format, alarm management, generating of printed reports, channels scaling and

calibration. System shall include 8 thermocouple measurement channels and 24 4-20mA input channels. System shall also include fuel flow transducer, thermocouples, pressure transducers and 30 foot long connecting cable.

4. Adapter Kit, Kahn Series 509 or equal: Includes engine adapter, dynamometer, flywheel adapter,, housing and double engagement gear coupling.

CLIN 0003 SPECIFICATIONS

Hydraulic dynamometer, Kahn Mdl 301-220 or equal which includes the following:

1. Adapter Kit, Kahn Series 509 or equal: Includes engine adapter, dynamometer, flywheel adapter, housing adapter and double engagement gear coupling
2. Sensors for Control System: Includes one strain gage load cell, Kahn Series 503 or equal, and one magnetic speed sensor, Kahn Series 900 or equal

CLIN 0004 SPECIFICATIONS

Hydraulic Dynamometer, Kahn Mdl 301-160 or equal, includes the following:

1. Data Monitoring and Control System, Kahn Series 527 or equal: Provides manual (open loop) and automatic (closed loop) dynamometer control. Includes control console for table top mounting, two high performance electro-pneumatic control valves, seal water valve, strain-gage load cell, magnetic speed sensor and two connecting cables 30 feet long. System shall be capable of operating in the manual mode. Automatic speed or torque control modes shall be selected at time of purchase. PID controller shall offer self-tuning and adaptive tuning features, plus, an analog-to-digital converter with sampling rate of 20 updates per second. Control valves shall have a full stroking time of less than 0.5 seconds and reduced amplitude frequency response of 3 Hz.
2. Calibration System, Kahn Series 504 or equal: Includes 36 inch long calibration arm, weight hanger, adjustable counterweights, 10 slotted weights 50-lbs each per ASTM E617 accuracy class5
3. Diesel Engine Adapter Kit, Kahn Part Number 509-301-034 or equal, to be used with GM 6.2L diesel engines: Includes rigid welded steel housing adapter, flywheel adapter, and diesel engine adapter kit, Kahn Part Number 509-301-005 or equal, with gear coupling
4. Data Acquisition System, Kahn Series 533 or equal: Includes IBM-compatible computer, color monitor, printer, preinstalled software package, in-cell junction box and 30 foot long interconnecting cables. Software shall allow data monitoring in graphical or tabular format, alarm management, generating of printed reports, channels scaling and calibration. System shall include 8 thermocouple measurement channels, and 24 4-20mA input channels. System shall include fuel flow transducer, thermocouples and pressure transducers to include 30 foot long connecting cables.

(End of Summary of Changes)