

AMENDMENT OF SOLICITATION/MODIFICATION CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1   5
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. AC-09-02845
5. PROJECT NO. (If applicable)		6. ISSUED BY CODE AMQ0310-ARC	
7. ADMINISTERED BY (If other than Item 6) CODE AMQ310-ARC		8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) XYANT TECHNOLOGY INC 2600 VAN BUREN DRIVE STE 2624 NORMAN OK 73072	
9A. AMENDMENT OF SOLICITATION NO.		9B. DATED (SEE ITEM 11)	
10A. MODIFICATION OF CONTRACT/ORDER NO. DTEAAC-05-D-00070 0004		10B. DATED (SEE ITEM 13) 07/14/2008	
CODE 100197007		FACILITY CODE	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended.  is not extended. Offers 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 number. FAILURE OF YOUR ACKNOWLEDGEMENT 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.)  
See Schedule Net Increase: \$70,000.00

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not.  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.)

Mod 0002

This modification is issued to increase funds for the CLIN Research Support Services.

FIRST: CLIN 0003 obligation is hereby increased by \$70,000.00

CHANGES FOR LINE ITEM NUMBER: 3  
CHANGES FOR DELIVERY LOCATION: A6973DQM  
Amount changed from \$565,916.00 to \$635,916.00

Continued ...

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) Avis Franklin	
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED	16B. CONTRACT AUTHORITY  (Signature of Contracting Officer)	16C. DATE SIGNED 2-17-09

CONTINUATION SHEET

REFERENCE NO. OF DT BEING CONTINUED  
DTFAAC-05-D-00070/0004/0002

PAGE OF  
2 5

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>CHANGES FOR ACCOUNTING CODE: 1208800080.2008.8R4N8BA000.ACB3600000.25305.61006600.000000000000.000000000000.0000000000</p>				
	<p>Amount changed from \$73,000.00 to \$53,000.00 Percent changed from 12.89944 to 8.33443</p>				
	<p>NEW ACCOUNTING CODE ADDED: Account code: 1208800080.2009.8R4N8BA000.ACB3600000.25305.61006600.000000000000.0000000000</p> <p>FUND 1208800080 BUDGET YEAR 2009 BPAC 8R4N8BA000 ORGANIZATION ACB3600000 Quantity: 0 Amount: \$20,000.00 Percent: 3.53409 Subject To Funding: N Payment Address:</p>				
	<p>NEW ACCOUNTING CODE ADDED: Account code: 1208800080.2009.8R4N8FA000.ACB3700000.25305.61006600.000000000000.0000000000</p> <p>FUND 1208800080 BUDGET YEAR 2009 BPAC 8R4N8FA000 ORGANIZATION ACB3700000 Quantity: 0 Amount: \$70,000.00 Percent: 11.00774 Subject To Funding: N Payment Address:</p>				
	<p>SECOND: There were no changes to the Line for the Line item number 2 As a result of Part "FIRST" above the new total Amount for this Version: \$645,916.00</p>				
	<p>THIRD: All other provisions remain unchanged and in full force and effect.</p>				
	<p>***** This modification is issued to correct the accounting appropriation code in CLIN 0001 (by replacement). *****</p>				
	<p>This order incorporates Option Year 3 requirements by Task Performance Work Statement (7 pages) attached herein, and obligates funding in the total Not-To-Exceed amount for the annual period. Alt. COR/COTR: TOM NESTHUS DISTR: T Continued ...</p>				

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Delivery: 07/11/2009 Discount Terms: PROMPT NET 30 Delivery Location Code: A6973DQM A6973DQM 6973DQ FAA AERO CENTER, AAM-500 HUMAN RES RESEARCH DIV, RM-270 CAMI PO BOX 25082 OKLAHOMA CITY OK 731250082 US  Payment: FAA AC ACCTG OFC DOT/FAA AMZ-110 PO BOX 25710 OKLAHOMA CITY OK 73125 FOB: Destination Period of Performance: 07/12/2008 to 07/11/2009  Change Item 0002 to read as follows (amount shown is the obligated amount):  011 TOTAL NOT TO EXCEED (NTE) COST \$10,000.00 (ESTIMATED)  0002 2. Travel Costs in accordance with FAA Travel Policy and provisions of the Contract ISO9000: N Electronic & IT: 03  Project Data: 1207WA041110.RD0400.WAG2200000.25500.06/20/2008.1298800070.4AA000 Accounting Info: 1298800070.2008.7R3J4AA000.WAG2200000.25500.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2008 acct3: 7R3J4AA000 acct4: WAG2200000 acct 5: 25500 acct6: 61006600 Funded: \$0.00  Project Data: 1208AC081110.AHRR521.AV9500.ACB3600000.25305.06/20/2008.1208800080.8AA000 Accounting Info: 1208800080.2008.8R4N8AA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8AA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$0.00  Change Item 0003 to read as follows (amount shown is the obligated amount):  ++++++ OPTION YEAR 3 ++++++  010 TOTAL ESTIMATED DOLLARS \$ 565,916.00 Continued ...				0.00

CONTINUATION SHEET

REFERENCE NO. OF DC .EING CONTINUED  
DTFAAC-05-D-00070/0004/0002

PAGE OF  
4 5

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
0003	<p>This replaces line item one. An object class code had to be changed. 2. Research Technical Support as requested to meet attached TPWS requirements incorporated and attached herein.</p> <p>\$70,000 added to pay for additional Fatigue research. \$20,000 added to Task 524 and \$20,000 removed from Task 522 due to changes in research requirements.</p> <p>ISO9000: N Electronic &amp; IT: 03</p> <p>Project Data: 1208AC082110.BHRR522.AV9200.ACB3600000.25305.06/19/2008.1208800080.8BA000</p> <p>Accounting Info: 1208800080.2008.8R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: -\$20,000.00</p> <p>Project Data: 1208AC082110.BHRR523.AV9300.ACB3600000.25305.06/19/2008.1208800080.8BA000</p> <p>Accounting Info: 1208800080.2008.8R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$0.00</p> <p>Project Data: 1208AC082110.BHRR524.AV9400.ACB3600000.25305.06/19/2008.1208800080.8BA000</p> <p>Accounting Info: 1208800080.2008.8R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$0.00</p> <p>Project Data: 1207WA041110.RD0400.WAG2200000.25500.06/19/2008.1298800070.4AA000</p> <p>Accounting Info: 1298800070.2008.7R3J4AA000.WAG2200000.25500.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2008 acct3: 7R3J4AA000 acct4: WAG2200000 acct 5: 25500 acct6: 61006600 Funded: \$0.00</p> <p>Project Data: 1208AC086110.FA0900.ACB3700000.25305.06/20/2008.1208800080.8FA000</p> <p>Accounting Info: 1208800080.2008.8R4N8FA000.ACB3700000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8FA000 acct4: ACB3700000 acct 5: 25305 acct6: 61006600 Funded: \$0.00</p> <p>Project Data: 1208AC081110.AHRR521.AV9500.ACB3600000.25305.06/20/2008.1208800080.8AA000</p> <p>Accounting Info: 1208800080.2008.8R4N8AA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8AA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600</p> <p>Continued ...</p>				70,000.00

CONTINUATION SHEET

REFERENCE NO. OF DC BEING CONTINUED  
DTFAAC-05-D-00010/0004/0002

PAGE OF  
5 5

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Funded: \$0.00 Project Data: 1208AC082110.BHRR524.AV9400.ACB3600000.25305.02/03/2009.1208800080.8BA000				
	Accounting Info: 1208800080.2009.8R4N8BA000.ACB3600000.25305.61006600.000000000000.000000000000.000000000000 .0000000000 acct1: 1208800080 acct2: 2009 acct3: 8R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$20,000.00 Project Data: 1208AC086110.FA0900.ACB3700000.25305.02/03/2009.1208800080.8FA000 Accounting Info: 1208800080.2009.8R4N8FA000.ACB3700000.25305.61006600.000000000000.000000000000.000000000000 .0000000000 acct1: 1208800080 acct2: 2009 acct3: 8R4N8FA000 acct4: ACB3700000 acct 5: 25305 acct6: 61006600 Funded: \$70,000.00				
	Labor Categories-----Est. Hrs.---(\$ Fixed Hourly Rate Project Supervisor-----1836----- Research Assistant-----1794----- Computer Programmer-----799----- Research Technician-----7396----- General Clerk II-----2870----- Air Traffic Control (SME)-----100----- Pilot (SME)-----800----- Airframe Mech III (SME)-----650-----				

Exp 4

## TASKED PERFORMANCE WORK STATEMENT

### 1. INTRODUCTION:

This effort requires contract support to provide the CAMI Aerospace Human Factors Research Division with administrative and technical support to assist in the conduct of research necessary to meet mission requirements. The administrative and technical support shall include the conduct and assistance with many tasks associated with database development and administration, software revision and maintenance, survey development, distribution, transcription, scanning paper returns, data analysis, quality control, and report generation, as well as assisting in laboratory and field experiments regarding AAM-500s Human Factors missions requirements. The contract support shall be responsible for management and supervision of all contract personnel (including subject matter experts) who are assigned to complete tasks issued within the scope of the technical requirements of the Division.

### 2. APPLICABLE ORDERS, REGULATIONS, FORMS AND MANUALS:

The applicable documentation is identified

### 3. ADMINISTRATION:

Requiring Office:

Civil Aerospace Medical Institute (CAMI)  
Aerospace Human Factors Research Division (AAM-500)  
6500 MacArthur Blvd  
Oklahoma City, OK 73125  
Phone: (405) 954-4846  
Fax: (405) 954-4852

Period of Performance: Date of Award through July 11, 2006

Place of Performance: Contract services will be conducted at CAMI Aerospace Human Factors Research Division.

COTR for this work will be:

Thomas E. Nesthus, Ph.D.  
Human Factors Research Lab, AAM-510  
6500 MacArthur Blvd  
Oklahoma City, OK 73125  
Phone: (405) 954-6297  
Fax: (405) 954-4852  
tom.nesthus@faa.gov

### 4. GOVERNMENT FURNISHED PROPERTY

All resources for conducting Delivery Order requirements will be provided by the government. Including facilities, office workspace, general offices equipment, phones, PCs, etc.

**5. SCOPE OF WORK:** The contractor shall provide quality technical, analytical, planning, and administrative support. The contractor shall furnish and make available all personnel, and services

necessary to assist AAM-500 in accomplishing its mission. As directed by the FAA, the contractor may also be required to interface with various FAA and U.S. Government organizations.

### 5.1 Technical Support Project Requirements

The contractor shall provide all of the necessary technical operations and administrative support such as: planning, organizing, managing, coordinating, and tracking (e.g., report management, cost/schedule/performance measurement, risk management, component procurement management, system engineering management, resource management, data management) required to perform all of the project tasks successfully as required in accordance with this SOW.

PROJECT NO.	PROJECT NAME	TTL ESTIMATE D HRS	ESTIMATED TRAVEL	SUPPORT PROGRESS & DELIVERABLES
5.2.1a, b, c	AAM-520 SURVEYS	7,486		LOE, Draft reports when completed
5.2.2a, b	AAM-510 SURVEYS	461		LOE, Draft reports when completed
5.2.3a	AAM-510 HFACS	1,350		Analysis & summary reports when completed
5.2.4a	AAM-520 ATCARS	425		LOE
5.2.5a, b	AAM-510 Wx	350		Database & summary reports when completed
5.2.6a	AAM-520 Pre-employment Psych/Med data	430		LOE, Database periodically updated as needed
5.2.7a, b, c, d, e, f	JANUS	2,318	10,000	LOE, summary reports when completed
5.2.8a, b	NATPRO & PERFORMANCE	678		LOE, report writing assistance as required
5.2.9a, b, c, d	OE PROJECTS	2,763		LOE, report writing assistance as required

## 5.2 Technical Support Project Requirements by Task Sub number and Subtitle:

5.2.1a. EAS 2006 –Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with survey development, distribution of survey packages, scanning paper returns, transcribing and sanitizing paper and on-line comments, combining & coding comments, combining response data & QA, developing data aggregation, developing databases, developing report macros & templates, generating draft reports, quality checking reports, and delivering reports, along with supporting documentation associated with those functions.

5.2.1b. OAM Pilot Survey -Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with survey development, distribution of survey packages, scanning paper returns, transcribing and sanitizing paper and on-line comments, combining & coding comments, combining response data & QA, developing data aggregation, developing databases, developing report macros & templates, generating draft reports, quality checking reports, and delivering reports, along with supporting documentation associated with those functions.

5.2.1c. Separation Survey - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with survey revisions, database analyses, drafting comments reports, comments analyses, and summary reports.

5.2.2a. Designated Pilot Survey - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

A Designated Pilot Examiner survey will be administered to all Designated Pilot Examiners across the United States. There are approximately 1,066 private persons designated as pilot examiners by the FAA Administrator. Contract support will mail all DPEs a survey with a postage-paid return envelope. Returned surveys will be scanned into a database through the use of Teleform software. Summary data reports (i.e., item by item frequency distributions) for each region that has at least eight respondents. The contractor will also provide an overall data summary report.

5.2.2b. National Pilot Survey - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

Newly certified GA ASEL private pilots from all Flight Standards District Offices (FSDOs) across FAA regions will receive an anonymous and voluntary survey to complete and return by mail. Contract support will mail traditionally registered GA ASEL pilots a survey to their home addresses. In an attempt to maximize response rates, the survey will have an attached cover letter explaining the purpose of the survey asking for their feedback regarding their flight training and testing experiences. The contractor will scan returned surveys into a database through the use of Teleform software. Summary reports will be created for each region that has at least eight respondents. In addition, an overall report will be created.

5.2.3a Human Factors Accident Classification System (HFACS)

The Contractor shall provide personnel to assist with the downloading of NTSB accident reports, assimilation of the data, hiring and training of pilot subject matter experts, coordination and assimilation of SME analysis reports, drafting summary reports.

5.2.4a ATCARS - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the testing of new ATC simulation scenarios, train and serve as ghost-pilots during simulation participation.

5.2.5a. ASRS Callback

The Contractor shall provide personnel to assist with processing Weather Callback paper returns, transcribing comments, combining & coding comments, combining response data & QA, developing data aggregation, developing databases, developing report macros & templates, generating draft reports, quality checking reports, and delivering reports, along with supporting documentation associated with those functions. A copy of the database will then form the deliverable.

5.2.5b. Pilot Wx Information study

The Contractor shall provide personnel to assist with the recording and scoring of criterion-based information concerning general aviation/flight service station voice communications, development of a scoring tabulation database, generate summary report information regarding these data.

5.2.6a. Pre-employment Psych/Med data input - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the development of a tabulation database, and the inputting of data from the 16-Personality Factor survey.

5.2.7a. ATCT Field Study - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall be able to provide personnel to travel to ATC facilities to gather data with ATC personnel or to assist with the data collection in the field, development and management of a specialized database, including maintaining, updating, merging databases, and data verification, e.g., receiving data gathered in the field (by researchers and feedback surveys returned from the facilities), integrating it with the existing database for that project; periodic directed analysis of these data, and the generation of multiple draft reports based on the data.

Summary of interview notes

Database of casual factors

Database of ATC feedback survey responses

Draft report of methods

Report list of causal factors from database.

September 2006

5.2.7b. eJANUS - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the development of a complex Access database, management and maintenance of this specialize database, merging and verifying database elements,

directed analysis of these data, imputing JANUS survey feedback data, and draft summary report development.

Merged database of causal factors	September 2006
Database of survey responses	September 2006
Draft report	September 2006

**5.2.7c. OED Training Recommendations** - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the documentation of FACREC fields of a specialized database, organize recommendations from these fields, develop and report facility specific descriptive data and training recommendations for each facility.

Extraction from OE database	October 2005
Results of Analysis	November 2005
Draft report of methods	December 2005

**5.2.7d. Supervisor Training** - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with creating, updating, and maintaining a relational database regarding recommendations for ATC supervisory training practices and to develop periodic summary reports.

Database of training packages	September 2005
Database of supervisory expectations	October 2005
Discrepancy analysis	November 2005
Discrepancy report - draft	December 2005
Database of journal entries	January 2006
Database of observational codes	February 2006
Draft report of journal entries	February 2006
Draft report of observational codes	March 2006

**5.2.7e. Organization SMS** - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with developing a research package for distribution to the pertinent workforce sample, develop a database and conduct directed analyses, and to draft summary reports of the results.

Develop research materials	June 2006
Distribution of materials	August 2006
Collection and coding of responses	October 2006
Database of responses	January 2007
Analyses	February 2007
Draft report of methods	March 2007
Draft Report 1	April 2007

**5.2.7f. JANUS FLT** - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the development and coordination of research materials regarding this JANUS flight project. Also simulator testing and database analysis shall be

conducted to develop recommendations for the revision of the research tool. Draft summary reports of the results shall also be required.

Research materials – test 1	October 2006
Database - test 1	December 2006
Analysis and Report – test 1	February 2007
Research materials – test 2	March 2007
Database - test 2.	May 2007
Analysis and Report – test 2	July 2007

5.2.8a. NATPRO - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assimilate and consolidate workshop seminar materials, assist in program technical support and testing, periodic database extraction and analysis, and assistance in report writing.  
No specific milestones.

5.2.8b. Tools for Performance Assessment - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the development of research materials, database entry, and assistance in report writing.

Research materials	May 2006
Database	August 2007
Draft report of methods	October 2007
Analysis of database	December 2007
Draft report of analyses	February 2008

5.2.9a. OE Database Application & Mgt - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in establishing a relational database of ATC Operational Errors (OE), shall merge and update the database periodically, maintain and verify data entry, create data subset for analysis and report writing.

Update database	Quarterly (Sept, Dec, Mar, June)
Draft report	Quarterly (Sept, Dec, Mar, June)

5.2.9b. Historic 7210-3 Documentation & Database Documentation - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in establishing, maintaining, merging, updating and verifying data entry, as well as creating data subsets for analysis and report writing.

Database - fields on historic form	
Database - historical OE data	
Database – cleaned historical OE data	
Report on comparison of form fields	
Report on comparison of historical data	
Summary report of form and data comparisons	December 2005

5.2.9c. Temporal Markers - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in ATC voice transcription, coordination of research materials, analysis of data and report writing.

Transcripts of voice tapes

Data coding package

Database of temporal markers

Report from database.

5.2.9d. OE Reduction During Position Transfer - Level of Effort (LOE) From date of award through 11 July 2006, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in ATC voice transcription, coordination of research analysis of ATC-SME observational data.

6.0 ACCEPTANCE: Contract progress and deliverables associated with these tasks will be reviewed and accepted/rejected by each CAMI Principle Investigator requesting the contract support and by the COTR in accordance with monthly progress and delivery of pertinent products.



AMENDMENT OF SOLICITATION/MODIFICATION CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 4
2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. AC-08-04646	5. PROJECT NO. (If applicable)
6. ISSUED BY AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125	CODE AMQ0310-ARC	7. ADMINISTERED BY (If other than Item 6) AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125	CODE AMQ310-ARC
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) XYANT TECHNOLOGY INC 2600 VAN BUREN DRIVE STE 2624 NORMAN OK 73072		(x) 9A. AMENDMENT OF SOLICITATION NO.	9B. DATED (SEE ITEM 11)
CODE 100197007	FACILITY CODE	x 10A. MODIFICATION OF CONTRACT/ORDER NO. DTFAAC-05-D-00070 0004	10B. DATED (SEE ITEM 13) 07/14/2008

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended.  is not extended. Offers 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 number. FAILURE OF YOUR ACKNOWLEDGEMENT 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.) \$0.00  
See Schedule

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x) <input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not.  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.)

This modification is issued to correct the accounting appropriation code in CLIN 0001 (by replacement).

\*\*\*\*\*

This order incorporates Option Year 3 requirements by Task Performance Work Statement (7 pages) attached herein, and obligates funding in the total Not-To-Exceed amount for the annual period.

Alt. COR/COTR: TOM NESTHUS DISTR: T

LIST OF CHANGES:

Requisitioner changed  
to Bob C Link  
Continued ...

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)	15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Avis Franklin	16B. CONTRACT AUTHORITY	16C. DATE SIGNED 8/12/08
_____ (Signature of person authorized to sign)			_____ (Signature of Contracting Officer)		

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-1 /0004/0001

PAGE OF  
2 4

NAME OF OFFEROR OR CONTRACTOR  
KYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>FIRST: Reference. Order 0001 CLIN 0001 Technical support: Line Item one is cancelled and replaced as Order 0001 CLIN 0003 Technical Support Line item 1 cancelled</p>				
	<p>SECOND: CHANGES FOR LINE ITEM NUMBER: 2 NONE</p> <p>Delivery: 07/11/2009 Discount Terms: PROMPT NET 30 Delivery Location Code: A6973DQM A6973DQM 6973DQ FAA AERO CENTER, AAM-500 HUMAN RES RESEARCH DIV, RM-270 CAMI PO BOX 25082 OKLAHOMA CITY OK 731250082 US</p> <p>Payment: FAA AC ACCTG OFC DOT/FAA AMZ-110 PO BOX 25710 OKLAHOMA CITY OK 73125</p> <p>FOB: Destination Period of Performance: 07/12/2008 to 07/11/2009</p> <p>Cancel Item 0001 in its entirety.</p> <p>Change Item 0002 to read as follows (amount shown is the obligated amount):</p> <p>011 TOTAL NOT TO EXCEED (NTE) COST \$10,000.00 (ESTIMATED)</p>				
0002	<p>2. Travel Costs in accordance with FAA Travel Policy and provisions of the Contract ISO9000: N Electronic &amp; IT: 03</p> <p>Project Data: 1207WA041110.RD0400.WAG2200000.25500.06/20/2008.1298800070.4AA000</p> <p>Accounting Info: 1298800070.2008.7R3J4AA000.WAG2200000.25500.61006600.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2008 acct3: 7R3J4AA000 acct4: WAG2200000 acct 5: 25500 acct6: 61006600 Funded: \$0.00</p> <p>Project Data: 1208AC081110.AHRR521.AV9500.ACB3600000.25305.06/20/2008.1208800080.8AA000</p> <p>Accounting Info: 1208800080.2008.8R4N8AA000.ACB3600000.25305.61006600.0000000000.0000000000 .0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8AA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$0.00</p> <p>Continued ...</p>				0.00

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-, /0004/0001

PAGE OF  
3 4

NAME OF OFFEROR OR CONTRACTOR

XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Add Item 0003 as follows:  ++++ OPTION YEAR 3 ++++				
0003	<p>010 TOTAL ESTIMATED DOLLARS \$ 565,916.00</p> <p>This replaces line item one. An object class code had to be changed. 2. Research Technical Support as requested to meet attached TPWS requirements incorporated and attached herein. ISO9000: N Electronic &amp; IT: 03</p> <p>Project Data: 1208AC082110.BHRR522.AV9200.ACB3600000.25305.06/19/2008.1208800080.8BA000 Accounting Info: 1208800080.2008.8R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$73,000.00</p> <p>Project Data: 1208AC082110.BHRR523.AV9300.ACB3600000.25305.06/19/2008.1208800080.8BA000 Accounting Info: 1208800080.2008.8R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$140,000.00</p> <p>Project Data: 1208AC082110.BHRR524.AV9400.ACB3600000.25305.06/19/2008.1208800080.8BA000 Accounting Info: 1208800080.2008.8R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$20,000.00</p> <p>Project Data: 1207WA041110.RD0400.WAG2200000.25500.06/19/2008.1298800070.4AA000 Accounting Info: 1298800070.2008.7R3J4AA000.WAG2200000.25500.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2008 acct3: 7R3J4AA000 acct4: WAG2200000 acct 5: 25500 acct6: 61006600 Funded: \$58,000.00</p> <p>Project Data: 1208AC086110.FA0900.ACB3700000.25305.06/20/2008.1208800080.8FA000 Accounting Info: 1208800080.2008.8R4N8FA000.ACB3700000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8FA000 acct4: ACB3700000 acct 5: 25305 acct6: 61006600 Funded: \$80,000.00</p> <p>Project Data: Continued ...</p>				565,916.00

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D- J/0004/0001

PAGE OF  
4 4

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	1208AC081110.AHRR521.AV9500.ACB3600000.25305.06/20/2008.1208800080.8AA000 Accounting Info: 1208800080.2008.8R4N8AA000.ACB3600000.25305.61006600.000000000000.0000000000 .0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8AA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$194,916.00  Labor Categories-----Est. Hrs.---(\$) Project Supervisor-----1836----- Research Assistant-----1794----- Computer Programmer-----799----- Research Technician-----7396----- General Clerk II-----2870----- Air Traffic Control (SME)-----100----- Pilot (SME)-----800----- Airframe Mech III (SME)-----650-----				

*Copy*



ORDER FOR SUPPLIES OR SERVICES

IMPORTANT: Mark all packages and papers with contract or order numbers

1. DATE OF ORDER 07/14/2008		2. CONTRACT NO. (If any) DTFAAC-05-D-00070		5. SHIP TO:	
3. ORDER NO. 0004		4. REQUISITION/REFERENCE NO. AC-08-03886		a. NAME OF CONSIGNEE A6973DQM	
5. ISSUING OFFICE (Address correspondence to) AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125				b. STREET ADDRESS 6973DQ FAA AERO CENTER, AAM-500 HUMAN RES RESEARCH DIV, RM-270 CAMI PO BOX 25082 OKLAHOMA CITY OK 731250082	
7. TO:		c. CITY OKLAHOMA CITY		d. STATE OK	e. ZIP CODE 731250082
a. NAME OF CONTRACTOR XYANT TECHNOLOGY INC		f. SHIP VIA			
b. COMPANY NAME		8. TYPE OF ORDER			
c. STREET ADDRESS 2600 VAN BUREN DRIVE STE 2624		<input type="checkbox"/> a. PURCHASE		<input checked="" type="checkbox"/> b. DELIVERY	
d. CITY NORMAN		e. STATE OK	f. ZIP CODE 73072	REFERENCE YOUR:  Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheets, if any, including delivery as indicated.	
9. ACCOUNTING AND APPROPRIATIONS DATA See Schedule				10. REQUISITIONING OFFICE	

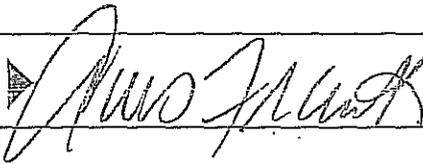
11. BUSINESS CLASSIFICATION (Check appropriate box(es))

a. SMALL       b. OTHER THAN SMALL       c. DISADVANTAGED       d. WOMEN-OWNED

12. F.O.B. POINT Destination	13. PLACE OF Destination	14. BILL OF LADING NO.	15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 07/11/2009	16. DISCOUNT TERMS PROMPT NET 30
a. INSPECTION Destination	b. ACCEPTANCE Destination	17. SCHEDULE (See reverse for Rejections)		

ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	This order incorporates Option Year 3 requirements by Task Performance Work Statement (7 pages) attached herein, and obligates funding in the total Not-To-Exceed amount for the annual period. Alt. COR/COTR: TOM NESTHUS DISTR: T					
	Continued ...					

18. SHIPPING POINT	19. GROSS SHIPPING WEIGHT	20. INVOICE NO.	17(h). TOTAL (Cont pages)
21. MAIL INVOICE TO:			\$575,916.00
a. NAME DOT/FAA AMZ-110			
b. STREET ADDRESS PO BOX 25710 (or P.O. Box) OKLAHOMA CITY OK 73125			
c. CITY	d. STATE	e. ZIP CODE	17(i). GRAND TOTAL
			\$575,916.00

22. CONTRACTING AUTHORITY BY (Signature) 	23. NAME (Typed) Avis Franklin TITLE: CONTRACTING/ORDERING OFFICER
--	--



ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

SCHED - CONTINUATION

3

11

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 07/14/2008	CONTRACT NO. DTFAAC-05-D-00070	ORDER NO. 0004
-----------------------------	-----------------------------------	-------------------

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY ORDERED (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)	QUANTITY ACCEPTED (G)
	Funded: \$20,000.00 Project Data: 1207WA041110.RD0400.WAG2200000.25500.06/19/2008.1298800070.4AA000					
	Accounting Info: 1298800070.2008.7R3J4AA000.WAG2200000.25500.61006600.0000000000.0000000000.0000 000000.0000000000 acct1: 1298800070 acct2: 2008 acct3: 7R3J4AA000 acct4: WAG2200000 acct 5: 25500 acct6: 61006600					
	Funded: \$58,000.00 Project Data: 1208AC086110.FA0900.ACB3700000.41040.06/20/2008.1208800080.8FA000					
	Accounting Info: 1208800080.2008.8R4N8FA000.ACB3700000.41040.61006600.0000000000.0000000000.0000 000000.0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8FA000 acct4: ACB3700000 acct 5: 41040 acct6: 61006600					
	Funded: \$80,000.00 Project Data: 1208AC081110.AHRR521.AV9500.ACB3600000.25305.06/20/2008.1208800080.8AA000					
	Accounting Info: 1208800080.2008.8R4N8AA000.ACB3600000.25305.61006600.0000000000.0000000000.0000 000000.0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8AA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600					
	Funded: \$194,916.00 Labor Categories-----Est. Hrs.---(\$ Fixed Hourly Rate Project Supervisor-----1836----- Research Assistant-----1794----- Computer Programmer-----799----- Research Technician-----7396----- General Clerk II-----2870----- Air Traffic Control (SME)-----100----- Pilot (SME)-----800----- Airframe Mech III (SME)-----650-----					
	011 TOTAL NOT TO EXCEED (NTE) COST \$10,000.00 (ESTIMATED)					
0002	2. Travel Costs in accordance with FAA Travel Policy and provisions of the Contract ISO9000: N Electronic & IT: 03  Project Data: 1207WA041110.RD0400.WAG2200000.25500.06/20/2008.1298800070.4AA000				10,000.00	
	Accounting Info: 1298800070.2008.7R3J4AA000.WAG2200000.25500.61006600.0000000000.0000000000.0000 000000.0000000000 acct1: 1298800070 acct2: 2008 acct3: 7R3J4AA000 acct4: WAG2200000 acct 5: 25500 acct6: 61006600					
	Funded: \$3,000.00 Continued ...					

*EXP 4*

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

SCHED - CONTINUATION

4

11

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 07/14/2008	CONTRACT NO. DTFAAC-05-D-00070	ORDER NO. 0004
-----------------------------	-----------------------------------	-------------------

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY ORDERED (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)	QUANTITY ACCEPTED (G)
	Project Data: 1208AC081110.AHRR521.AV9500.ACB3600000.25305.06/20/2008.1208800080.8AA000					
	Accounting Info: 1208800080.2008.8R4N8AA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000.0000000000 000000.0000000000 acct1: 1208800080 acct2: 2008 acct3: 8R4N8AA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$7,000.00					
	The total amount of award: \$575,916.00. The obligation for this award is shown in box 17(i).					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

**TASKED PERFORMANCE WORK STATEMENT**

for

**Contract No. DTFAAC-05-D-00070**

**Xyant Technology, Inc.**

for

**Option Year 3**

**1. INTRODUCTION:**

This effort requires contract support to provide the CAMI Aerospace Human Factors Research Division with administrative and technical support to assist in the conduct of research necessary to meet mission requirements. The administrative and technical support shall include the conduct and assistance with many tasks associated with database development and administration, software revision and maintenance, survey development, distribution, transcription, scanning paper returns, data analysis, quality control, and report generation, as well as assisting in laboratory and field experiments regarding AAM-500s Human Factors missions requirements. The contract support shall be responsible for management and supervision of all contract personnel (including subject matter experts) who are assigned to complete tasks issued within the scope of the technical requirements of the Division.

**2. APPLICABLE ORDERS, REGULATIONS, FORMS AND MANUALS:**

The applicable documentation is identified

**3. ADMINISTRATION:**

Requiring Office: AAM-500 Human Factors Research Division

Period of Performance: Date of Award through July 11, 2009

Place of Performance: Contract services will be conducted at the CAMI Aerospace Human Factors Research Division (AAM-500).

COTR for this work will be:

Thomas E. Nesthus, Ph.D.  
Aerospace Human Factors Research Division, AAM-510  
6500 MacArthur Blvd  
Oklahoma City, OK 73125  
Phone: (405) 954-6297

**4. GOVERNMENT FURNISHED PROPERTY**

All resources for conducting Delivery Order requirements will be provided by the government. Including facilities, office work space, general office equipment, phones, PCs, etc.

**5. SCOPE OF WORK:** The contractor shall provide quality technical, analytical, planning, and administrative support. The contractor shall furnish and make available all personnel, and services necessary to assist AAM-500 in accomplishing its mission. As directed by the FAA, the contractor may also be required to interface with various FAA and U.S. Government organizations.

6/9/09

**5.1 Technical Support Project Requirements**

The contractor shall provide all of the necessary technical operations and administrative support such as: planning, organizing, managing, coordinating, and tracking (e.g., report management, cost/schedule/performance measurement, risk management, component procurement management, system engineering management, resource management, data management) required to perform all of the project tasks successfully as required in accordance with this SOW.

Project Accounting Codes	Project/Task No.	Task Names associated with Projects 1, 2, 3, 4	Total EST Hrs and Costs	EST Travel Costs	SUPPORT PROGRESS & DELIVERABLES
HRR-521	1 a, b, c,	AME AMC Customer Survey PASEL Survey Pilot AMC Survey	1947		LOE, , monthly/quarterly progress updates, Report generation (item, overall and regional)
HRR-521	1 d	Synthetic Vision	86		LOE, monthly/quarterly progress updates for scheduling/coordination/ documentation of subjects
HRR-521	1 e	Ref Mgr DB	341		LOE, reference database update, literature search, scan/PDF conversion
HRR-521	1 f, g,	HFACS Mx HF DVD	1174		LOE, monthly/quarterly progress updates
HRR-521	1 h, i	Aircraft/Airport Lighting Color Vision/Hypoxia	2551	\$7,000	LOE, monthly/quarterly progress updates, data management, analysis and summary report writing
HRR-521	1 j	ULR Study	218		LOE, monthly/quarterly progress updates
HRR-521	1 k	Unmanned Aircraft Systems	86		LOE, monthly/quarterly progress updates, Scheduling/Coordination/ Documentation
<b>Total for HRR-521</b>			<b>6403 \$262,000</b>	<b>\$7,000</b>	
HRR-521F	1F a	Flight Attendant Survey	2062		LOE, , monthly/quarterly progress updates, Report generation (item, overall and regional)
HRR-521F	1F b, c	Flight Attendant Int'l Policy FA Field Study	300	\$3,000	LOE, monthly/quarterly progress updates, assimilation of Int'l policies. Field data mgt/reduction/analysis.
<b>Total for</b>			<b>2362</b>	<b>\$3,000</b>	

6/9/09

<b>HRR-521F</b>			<b>\$80,000</b>		
HRR-521W	1W a	Wx Training Aids	469		LOE, monthly/quarterly progress updates, Participant Scheduling/Documentation, Demographic Item Report
<b>Total for HRR-521W</b>			<b>469</b> <b>\$18,000</b>		
HRR-522	2 a	ATCARS	2112		LOE, monthly/quarterly progress updates, Workload Calibration, time on position
<b>Total for HRR-522</b>			<b>2112</b> <b>\$73,000</b>		
HRR-523	3 a	ATSAT	1802		LOE, monthly/quarterly progress updates, Proctoring/data collection, Electronic Questionnaire Design
HRR-523	3 b	FFI	24		LOE, monthly/quarterly progress updates, Data entry and QA
HRR-523	3 c, d, e	ATCS Biodata & Interview ATCS Strategic Job Analysis ATSS Interview	2214		LOE, monthly/quarterly progress updates, Interview Transcription and content coding, JAIDB prototype development and JAIDB report design
<b>Total for HRR-523</b>			<b>4040</b> <b>\$140,000</b>		
HRR-524	4 a	AAM-500 Division Pop-up Support	403		LOE, technical editing, software support, shredding, scanning/copying, relocation of equipment and setup to CAMI Bldg
HRR-524	4 b	ECG Survey	106		LOE, data reduction & documentation, advertisement, web survey design, survey distribution/log in tech
<b>Total for HRR-524</b>			<b>509</b> <b>\$20,000</b>		
<b>Overall Totals</b>			<b>15,895</b> <b>\$593,000</b>	<b>\$10,000.00</b>	

**5.2 Technical Support Project Requirements by Task/Sub number and Subtitle:**

**5.2.1 a. AME AMC Customer Satisfaction Survey** - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in: development of a "comment" report (or appendix for the overall report), and the generation of an overall report and regional reports as necessary.

**5.2.1 b. PASEL Survey** - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel for: distribution of survey, process/scan of paper surveys, data reduction and documentation, overall and regional report generation.

**5.2.1 c. Pilot AMC Customer Satisfaction Survey**- Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel for: distribution of survey, processing/scanning paper surveys, web survey distribution and login tech, data reduction and documentation, design and generation of an overall item report, and subgroup item report.

**5.2.1 d. Synthetic Vision Study** - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to manage study participants' scheduling/coordination/documentation.

**5.2.1 e. Reference Manager Databases** - - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the maintenance and management of a centralized Reference Manager database. Upon request, the contractor shall provide personnel to conduct literature searches, make additions to the centralized database, extract topic databases, and provide supporting documentation within 10 business days.

**5.2.1 f. Human Factors Accident Classification System (HFACS)** - - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the downloading of NTSB accident reports, assimilation of the data, hiring and training of pilot subject matter experts and maintenance subject matter experts, coordination and assimilation of SME analysis data, technical support in data conversion, verification, and drafting summary reports.

**5.2.1 g. Mx HF DVD Distribution** - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with logging requests for DVDs and distribution.

6/9/09

**5.2.1 h. Aircraft/Airport Lighting Study** - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the color vision test design/development, color sample data entry and QA, data reduction, documentation, analysis, and report writing. Some travel will be necessary to support this data collection and study effort.

**5.2.1 i. Color Vision/Hypoxia Study** - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to support color vision data reduction, documentation, analysis, and report writing. Associated study pulse oximetry data reduction and analysis will also be required.

**5.2.1 j. Ultra Long Range (ULR) Flight Study**- Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the Ultra Long Range (ULR) Flight Operations Study—primarily with WAM downloads, reduction/analysis, management; transcription of logbook entries, database reduction/analysis management; and the input of appropriate WAM data into a performance prediction model (e.g., FAST).

**5.2.1 k. Unmanned Aircraft Systems** - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The contractor shall provide personnel to assist with study participant scheduling/coordination/documentation.

**5.2.1F a. Flight Attendant Fatigue Survey** - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in: the distribution of the paper-copy version of the survey, processing/scanning the paper surveys as they return, web survey distribution and login technology, data reduction and documentation, transcription and QA of survey comments, drafting an overall item report and a comment report (or appendix).

**5.2.1F b. Flight Attendant International Fatigue Policy Study** - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the inquiry, via email/phone interviews of international commercial airlines regarding FA scheduling policies and practices, development of a database, and assistance with report writing.

**5.2.1F c. Flight Attendant Fatigue Field Study** - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

6/9/09

The Contractor shall provide personnel to assist with the test equipment distribution and instruction, management/reduction/analysis of some of the data acquired from flight attendant field study and the input of appropriate data into the performance prediction model. Some travel will be necessary to support this study effort.

---

5.2.1W a. Wx Training Aids - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with study participant scheduling and documentation, demographic questionnaire development and item reporting, training questionnaire development and data reduction.

5.2.2 a. ATCARS - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the testing of new ATC simulation scenarios (workload calibration), train and serve as ghost-pilots during simulation participation.

5.2.3 a. ATSAT - Level of Effort (LOE) from date of award through 11 July 2009, Increased Labor requirements necessary, but not to exceed obligated funding on the modified Designated Contract Line Item.

The Contractor shall provide personnel to assist with the electronic questionnaire design, proctoring class testing; scanning, processing, management and QA of rosters, ATSAT data, and RNO. ...

5.2.3 b. FFI - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to construct a database, enter, QA and management of those data.

5.2.3 c. ATCS Biodata & Interview - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with multi-year interview transcription, content coding, QA, analysis and drafting comments reports.

5.2.3 d. ATCS Strategic Job Analysis - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with updating the Job Analysis data base (JAIdB) for NextGen, JAIdB prototype development, data reduction processing, QA of data and JAIdB report design.

5.2.3 e. ATSS Interview - Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with multi-year interview transcription, content coding, QA, analysis and drafting comments reports.

6/9/09

**5.2.4 a. AAM-500 Div. Pop-up Support Activities**-Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item. Activities will include the following:

*Relocation to CAMI building* – The contractor will be required to relocate office supplies and supporting equipment back into the remodeled AAM-500 space on the second floor of the main CAMI building. During this time a temporary lapse will occur in the research supporting activities listed above until equipment and office supplies are physically relocated and are brought back on-line.

*Reproduction of Research Materials* -The Contractor shall provide upon request, hard copies and/or electronic reproductions of books, journal articles, and other customer research materials. These products will be requested and delivered within 2 business days for each item in need of reproduction up to 84,000 unbound pages for photocopying or 6,300 bound pages for scanning or an equivalent combination of bound and unbound pages photocopied and/or scanned.

*Shredding of Research Data/Materials* - The Contractor shall provide upon request, shredded research materials (if necessary, up to 20,000 pages within 2 business days).

*Software Testing and Support* - The Contractor shall provide upon request, personnel to assist in writing, setting up, and testing software programs designed for training, data collection, and/or data analysis.

*Technical Editing* - The Contractor shall provide upon request, personnel to proofread, edit, and/or co-author 1 technical manuscript.

**5.2.4 b. ECG Survey** – Level of Effort (LOE) from date of award through 11 July 2009, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with web survey design, advertisement, distribution and login tech, data reduction and documentation.

- 6.0 ACCEPTANCE:** Contract progress and deliverables associated with these tasks will be reviewed and accepted/rejected by each CAMI Principle Investigator requesting the contract support and by the COTR in accordance with monthly progress and delivery of pertinent products.



AMENDMENT OF SOLICITATION/MODIFICATION		CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES	
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. AC-09-00738		1 6	
6. ISSUED BY AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125		CODE AMQ0310-ARC		7. ADMINISTERED BY (If other than Item 6) AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125		CODE AMQ310-ARC	

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) XYANT TECHNOLOGY INC 2600 VAN BUREN DRIVE STE 2624 NORMAN OK 73072		(x) 9A. AMENDMENT OF SOLICITATION NO.	
CODE 100197007		9B. DATED (SEE ITEM 11)	
FACILITY CODE		(x) 10A. MODIFICATION OF CONTRACT/ORDER NO. DTFAC-05-D-00070 0003	
		10B. DATED (SEE ITEM 13) 07/12/2007	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended.  is not extended.  
Offers 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 number. FAILURE OF YOUR ACKNOWLEDGEMENT 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.)  
See Schedule Net Decrease: \$-87,946.71

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(x)	<input type="checkbox"/>	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.
	<input checked="" type="checkbox"/>	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.
	<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF:
	<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not.  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.)

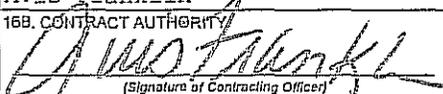
Mod 0002

MOD 002 LIST OF CHANGES:

Total Amount for this Modification: -\$87,946.71  
 New Total Amount for this Version: \$527,776.47  
 New Total Amount for this Award: \$527,776.47  
 Obligated Amount for this Modification: -\$87,946.71  
 New Total Obligated Amount for this Award: \$527,776.47

Continued ...

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)	
		Avis Franklin	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. CONTRACT AUTHORITY	16C. DATE SIGNED
(Signature of person authorized to sign)			Feb. 20, 2009

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0003/0002

PAGE OF  
2 6

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>CHANGES FOR LINE ITEM NUMBER: 1</p> <p>Total Amount changed from \$603,723.18 to \$522,993.24</p> <p>Obligated Amount for this modification: -\$80,729.94</p> <p>CHANGES FOR DELIVERY LOCATION: A6973DQM</p> <p>Amount changed from \$603,723.18 to \$522,993.24</p> <p>CHANGES FOR ACCOUNTING CODE: 1298800070.2007.7R4N8AA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000</p> <p>Amount changed from \$276,421.13 to \$247,153.43</p> <p>Percent changed from 45.78607 to 47.25748</p> <p>CHANGES FOR ACCOUNTING CODE: 1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000</p> <p>Amount changed from \$46,321.65 to \$14,780.83</p> <p>Percent changed from 8.48975 to 2.8262</p> <p>CHANGES FOR ACCOUNTING CODE: 1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000</p> <p>Amount changed from \$47,879.70 to \$47,834.24</p> <p>Percent changed from 7.93074 to 9.14624</p> <p>CHANGES FOR ACCOUNTING CODE: 1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000</p> <p>Amount changed from \$208,949.03 to \$189,075.05</p> <p>Percent changed from 38.29582 to 36.15248</p> <p>CHANGES FOR ACCOUNTING CODE: 1270100070.2007.7O26420000.ACB0860000.25305.61006600.0000000000.0000000000.0000000000 .0000000000</p> <p>Amount changed from \$24,151.67 to \$24,149.69</p> <p>Percent changed from 6.25926 to 4.61759</p> <p>CHANGES FOR LINE ITEM NUMBER: 2</p> <p>Total Amount changed from \$12,000.00 to \$4,783.23</p> <p>Obligated Amount for this modification: -\$7,216.77</p> <p>CHANGES FOR DELIVERY LOCATION: A6973DQM</p> <p>Amount changed from \$12,000.00 to \$4,783.23</p> <p>CHANGES FOR ACCOUNTING CODE: 1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000</p> <p>Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0003/0002

PAGE OF  
3 6

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Amount changed from \$10,000.00 to \$4,301.40 Percent changed from 100 to 89.92668				
	CHANGES FOR ACCOUNTING CODE: 1298800070.2008.7R4N8AA000.ACB3600000.25305.61006600.000000000000.0000000000.0000000000 .0000000000 Amount changed from \$2,000.00 to \$481.83 Percent changed from 20 to 10.07332				
	***** Program Manager changed from: Tom Nesthus to: Bob C Link  Mod 0001  ***** This modification is issued to increase funding for new tasks required to support CAMI Human Factors Research. The modification incorporates Xyant email dated 4/29/06 by reference, acknowledging concurrence of tasks, increased support, and estimates.  FIRST: The tasked services are described in the PWS revision 01 (see attached 8 pages) for support of the following CAMI Tasks:  ASEL Survey (AFS-650 Task) (increase by 813 est. hours) USAF Color Study (new task 1544 est, hours) HF MX DVD Distribution (new task 166 est. hours) ATSAT (increase by 1007 est. hours)  Second: The additional tasks and increase requirements (hours) are applicable to CLIN 0001 and increase the estimate by \$68,104.  From: 535,618.38 To: 603,723.18  CHANGES FOR LINE ITEM NUMBER: 1 Obligated Amount for this modification: \$68,104.80  CHANGES FOR DELIVERY LOCATION: A6973DQM Amount changed from \$535,618.38 to \$603,723.18  CHANGES FOR ACCOUNTING CODE: 1298800070.2007.7R4N8AA000.ACB3600000.25305.61006600.000000000000.0000000000.0000000000 .0000000000 Amount changed from \$219,839.23 to \$276,421.13 Percent changed from 40.29176 to 45.78607  CHANGES FOR ACCOUNTING CODE: 1298800070.2007.7R4N8AA000.ACB3600000.25305.61006600.000000000000.0000000000.0000000000 .0000000000 Continued ...				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0003/0002

PAGE OF  
4 6

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Amount changed from \$36,356.80 to \$47,879.70 Percent changed from 6.66341 to 7.93074				
	Third: The requirements also impact CLIN 0002 travel requirements (when requested and authorized in advance) by \$2000.00  From: \$10,000.00 To: 12,000.00 CHANGES FOR LINE ITEM NUMBER: 2 Obligated Amount for this modification: \$2,000.00  CHANGES FOR DELIVERY LOCATION: A6973DQM Amount changed from \$10,000.00 to \$12,000.00  NEW ACCOUNTING CODE ADDED: Account code: 1298800070.2008.7R4N8AA000.ACB3600000.25305.61006600.000000000000.0000000000 .0000000000 FUND 1298800070 BUDGET YEAR 2008 BPAC 7R4N8AA000 ORGANIZATION ACB3600000 Quantity: 0 Amount: \$2,000.00 Percent: 20 Subject To Funding: N Payment Address:  Fourth: As a result of Paragraph 2 and 3 above (increased support tasks and related travel), the total estimated value is increased by \$70,104.80  FROM: \$557,618.38 TO: \$627,723.18  FIFTH: All other provisions remain unchanged and in full force and effect. ***** This modification is issued to fund Option Year II Technical Services as described in the TPWS requirements for Option 2 incorporated and attached (9 pages). Alt. COR/COTR: TOM NESTHUS DISTR: T Delivery: 07/11/2008 Discount Terms: PROMPT NET 30 Delivery Location Code: A6973DQM A6973DQM 6973DQ FAA AERO CENTER, AAM-500 HUMAN RES RESEARCH DIV, RM-270 CAMI PO BOX 25082 OKLAHOMA CITY OK 731250082 US  Continued ...				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0003/0002

PAGE OF  
5 6

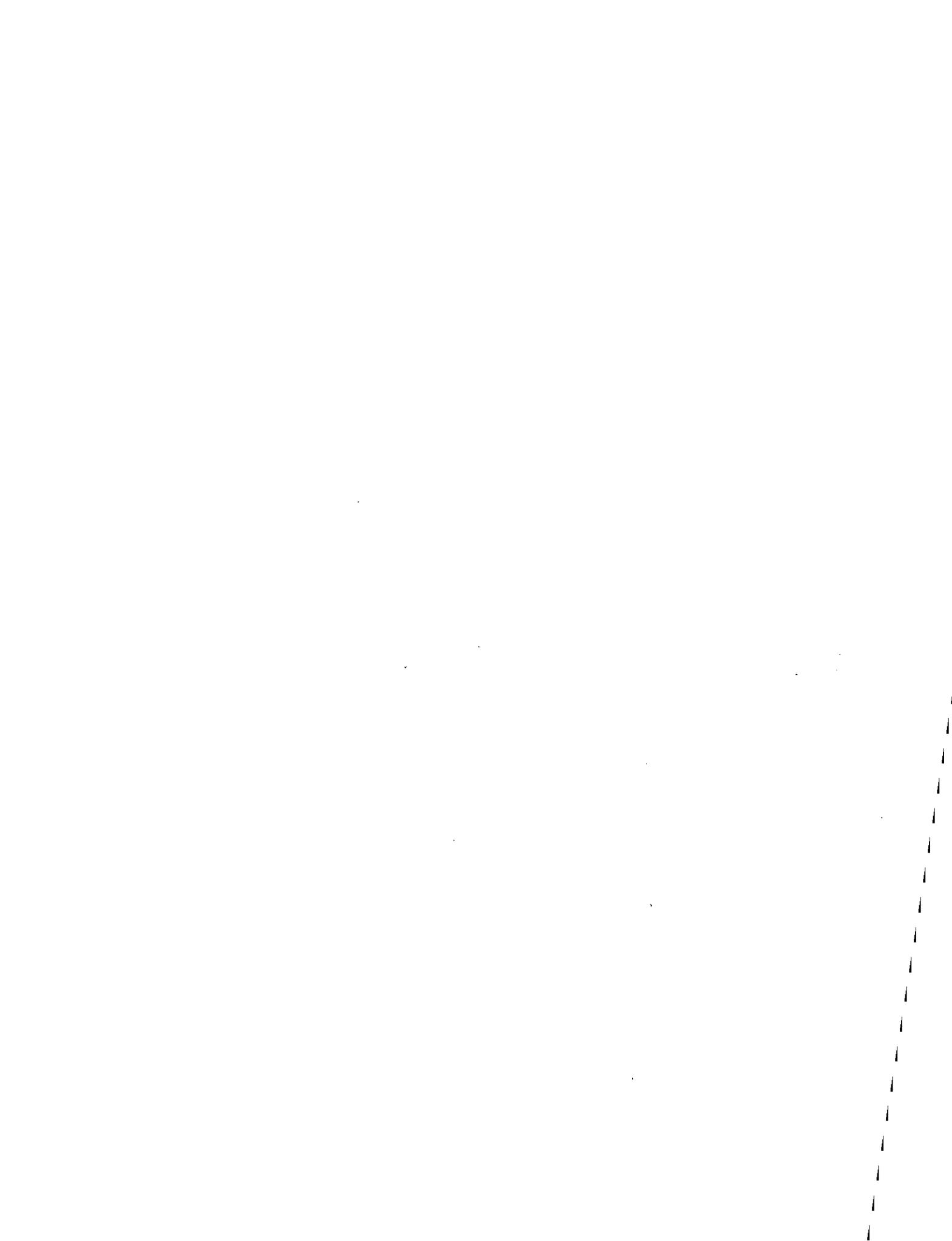
NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment: FAA AC ACCTG OFC DOT/FAA AMZ-110 PO BOX 25710 OKLAHOMA CITY OK 73125 FOB: Destination Period of Performance: 07/12/2007 to 07/11/2008  Change Item 0001 to read as follows (amount shown is the obligated amount):  ++++++ OPTION YEAR 2 ++++++  010 TOTAL ESTIMATED DOLLARS \$ 603,723.18				
0001	1. Research Technical Support as requested to meet TPWS requirements attached herein (for Option 2). Deobligate funds left on the contract. ISO9000: N Electronic & IT: 03  Project Data: 1207AC081110.AHRR521.AV9500.ACB3600000.25305.07/11/2007.1298800070.8AA000 Accounting Info: 1298800070.2007.7R4N8AA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8AA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: -\$29,267.70  Project Data: 1207AC082110.BHRR522.AV9200.ACB3600000.25305.07/11/2007.1298800070.8BA000 Accounting Info: 1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: -\$31,540.82  Project Data: 1207AC082110.BHRR523.AV9300.ACB3600000.25305.07/11/2007.1298800070.8BA000 Accounting Info: 1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: -\$45.46  Project Data: 1207AC082110.BHRR524.AV9400.ACB3600000.25305.07/11/2007.1298800070.8BA000 Accounting Info: 1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: -\$19,873.98 Continued ...				-80,729.94

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Project Data: 12XXFAARCERT.TN0200.ACB0860000.25305.07/11/2007.1270100070.420000</p> <p>Accounting Info: 1270100070.2007.7026420000.ACB0860000.25305-61006600-000000000000-00000000000-000000000000 .0000000000 acct1: 1270100070 acct2: 2007 acct3: 7026420000 acct4: ACB0860000 acct 5: 25305 acct6: 61006600 Funded: -\$1.98</p> <p>Increased Rates based upon DOL WD 2005-2431 dated 5/29/2007</p> <p>Labor Categories-----Est. Hrs.---(\$ Fixed Hourly Rate Project Supervisor-----1880----- Research Assistant-----2526----- Computer Programmer-----470----- Research Technician-----5640----- General Clerk II-----2820----- Air Traffic Control (SME)-----650----- Pilot (SME)-----650----- Airframe/Power Plant Mech(SME)--650-----</p> <p>Change Item 0002 to read as follows (amount shown is the obligated amount): 0010 TOTAL NOT TO EXCEED (NTE) COST \$12,000.00 (ESTIMATED)</p>				
0002	<p>1. Travel Costs in accordance with FAA Travel Policy and provisions of the Contract. ISO9000: N Electronic &amp; IT: 03</p> <p>Project Data: 1207AC082110.BHRR524.AV9400.ACB3600000.25305.07/11/2007.1298800070.8BA000</p> <p>Accounting Info: 1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.000000000000.00000000000.00000000000 .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: -\$5,698.60</p> <p>Project Data: 1207AC081110.AHRR521.AV9500.ACB3600000.25305.04/08/2008.1298800070.8AA000</p> <p>Accounting Info: 1298800070.2008.7R4N8AA000.ACB3600000.25305.61006600.000000000000.00000000000.00000000000 .0000000000 acct1: 1298800070 acct2: 2008 acct3: 7R4N8AA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: -\$1,518.17</p>				-7,216.77

*CRP 4*



AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES	
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE		1 5	
0001		See Block 16C		5. PROJECT NO. (If applicable)	
6. ISSUED BY		CODE		7. ADMINISTERED BY (If other than Item 6)	
AMQ-310 CONTRACTING TEAM		AMQ0310-ARC		CODE	
FAA AERONAUTICAL CENTER				AMQ310-ARC	
PO BOX 25082					
MPB ROOM 380					
OKLAHOMA CITY OK 73125					

8. NAME AND ADDRESS OF CONTRACTOR (No, street, county, State and ZIP Code)		(X) 9A. AMENDMENT OF SOLICITATION NO.	
KYANT TECHNOLOGY INC			
2600 VAN BUREN DRIVE STE 2624		9B. DATED (SEE ITEM 11)	
NORMAN OK 73072			
		(X) 10A. MODIFICATION OF CONTRACT/ORDER NO.	
		DTFAAC-05-D-00070	
		0003	
		10B. DATED (SEE ITEM 13)	
CODE 100197007		04/29/2008	
FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended. Offers 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 number. FAILURE OF YOUR ACKNOWLEDGEMENT 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.) Net Increase \$70,104.80  
See Schedule

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(a) <input type="checkbox"/>	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.
<input type="checkbox"/>	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.
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF:
<input checked="" type="checkbox"/>	D. OTHER (Specify type of modification and authority) Requirements AMS 3.2.4-19 and Ordering AMS 3.2.4-16

E. IMPORTANT: Contractor  is not  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)  
This modification is issued to increase funding for new tasks required to support CAMI Human Factors Research. The modification incorporates Xyant email dated 4/29/06 by reference, acknowledging concurrence of tasks, increased support, and estimates.

FIRST: The tasked services are described in the FWS revision 01 (see attached 8 pages) for support of the following CAMI Tasks:

- ASEL Survey (AFS-650 Task) (increase by 813 est. hours)
- USAF Color Study (new task 1544 est, hours)
- HF MX DVD Distribution (new task 166 est. hours)
- ATSAT (increase by 1007 est. hours)

Continued ...

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)	
		Avis Franklin	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. CONTRACT AUTHORITY	16C. DATE SIGNED
		<i>Avis Franklin</i>	4/29/08
(Signature of person authorized to sign)		(Signature of Contracting Officer)	

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0003/0001

PAGE OF  
2 5

NAME OF OFFEROR OR CONTRACTOR

KYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Second: The additional tasks and increase requirements (Hours) are applicable to CLIN 0001 and increase the estimate by \$68,104.</p> <p>From: 535,618.38 To: 603,723.18</p> <p>CHANGES FOR LINE ITEM NUMBER: 1 Obligated Amount for this modification: \$68,104.80</p> <p>CHANGES FOR DELIVERY LOCATION: A6973DQM Amount changed from \$535,618.38 to \$603,723.18</p> <p>CHANGES FOR ACCOUNTING CODE: 1298800070.2007.7R4NBAA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000.0000000000 .0000000000 Amount changed from \$219,839.23 to \$276,421.13 Percent changed from 40.29176 to 45.78607</p> <p>CHANGES FOR ACCOUNTING CODE: 1298800070.2007.7R4NBAA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000.0000000000 .0000000000 Amount changed from \$36,356.80 to \$47,879.70 Percent changed from 6.66341 to 7.93074</p> <p>Third: The requirements also impact CLIN 0002 travel requirements (when requested and authorized in advance) by \$2000.00</p> <p>From: \$10,000.00 To: 12,000.00 CHANGES FOR LINE ITEM NUMBER: 2 Obligated Amount for this modification: \$2,000.00</p> <p>CHANGES FOR DELIVERY LOCATION: A6973DQM Amount changed from \$10,000.00 to \$12,000.00</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 1298800070.2008.7R4NBAA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000.0000000000 .0000000000 FUND 1298800070 BUDGET YEAR 2008 BPAC 7R4NBAA000 ORGANIZATION ACB3600000 Quantity: 0 Amount: \$2,000.00 Percent: 20 Subject To Funding: N Payment Address:</p> <p>Fourth: As a result of Paragraph 2 and 3 above (increased support tasks and related Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0003/0001

PAGE OF  
3 5

NAME OF OFFEROR OR CONTRACTOR  
KYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	travel), the total estimated value is increased by	\$70,104.80			
	FROM: \$557,618.38 TO: \$627,723.18				
	FIFTH: All other provisions remain unchanged and in full force and effect. ***** This modification is issued to fund Option Year II Technical Services as described in the TPWS requirements for Option 2 incorporated and attached (9 pages). Alt. COR/COTR: TOM NESTRUS DISTR: T				
	Delivery: 07/11/2008 Discount Terms: PROMPT NET 30 Delivery Location Code: A6973DQM A6973DQM 6973DQ FAA AERO CENTER, AAM-500 HUMAN RES RESEARCH DIV, RM-270 CAMI PO BOX 25082 OKLAHOMA CITY OK 731250082 US				
	Payment: FAA AC ACCTG OFC DOT/FAA AMZ-110 PO BOX 25710 OKLAHOMA CITY OK 73125				
	FOB: Destination Period of Performance: 07/12/2007 to 07/11/2008				
	Change Item 0001 to read as follows (amount shown is the obligated amount): +++++ OPTION YEAR 2 +++++				
	010 TOTAL ESTIMATED DOLLARS \$ 603,723.18				
0001	1. Research Technical Support as requested to meet TPWS requirements attached herein (for Option 2). ISO9000: N Electronic & IT: 03  Project Data: 1207AC081110.AHRR521.AV9500.ACB3600000.25305.07/11/2007.1298800070.8BA000 Accounting Info: 1298800070.2007.7R4N8AA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8AA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$56,581.90 Project Data: 1207AC082110.BHRR522.AV9200.ACB3600000.25305.07/11/2007.1298800070.8BA000 Continued ...				68,104.80

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0003/0001

PAGE OF  
4 5

NAME OF OFFEROR OR CONTRACTOR

XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Accounting Info: 1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$0.00 Project Data: 1207AC082110.BHRR523.AV9300.ACB3600000.25305.07/11/2007.1298800070.8BA000				
	Accounting Info: 1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$11,522.90 Project Data: 1207AC082110.BHRR524.AV9400.ACB3600000.25305.07/11/2007.1298800070.8BA000				
	Accounting Info: 1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$0.00 Project Data: 12XXFAARCERT.TN0200.ACB0860000.25305.07/11/2007.1270100070.420000				
	Accounting Info: 1270100070.2007.7026420000.ACB0860000.25305.61006600.0000000000.0000000000 .0000000000 acct1: 1270100070 acct2: 2007 acct3: 7026420000 acct4: ACB0860000 acct 5: 25305 acct6: 61006600 Funded: \$0.00				
	Increased Rates based upon DOI WD 2005-2431 dated 5/29/2007				
	Labor Categories-----Est. Hrs.---(\$ )Fixed Hourly Rate Project Supervisor-----1680----- Research Assistant-----2526----- Computer Programmer-----470----- Research Technician-----5640----- General Clerk II-----2820----- Air Traffic Control (SME)-----650----- Pilot (SME)-----650----- Airframe/Power Plant Mech(SME)--650-----				
	Change Item 0002 to read as follows (amount shown is the obligated amount):  0010 TOTAL NOT TO EXCEED (NTE) COST \$12,000.00 (ESTIMATED)				
0002	1. Travel Costs in accordance with FAA Travel Policy and provisions of the Contract. ISO9000: N Electronic & IT: 03  Project Data: Continued ...				2,000.00

*Exp 4*

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0003/0001

PAGE OF  
5 5

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	1207AC082110.BHRR524.AV9400.ACB3600000.25305.07/11/2007.1298800070.8BA000 Accounting Info: 1298800070.2007.7R4N8BA000.ACB3600000-25305.61006600.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$0.00 Project Data: 1207AC081110.AHRR521.AV9500.ACB3600000.25305.04/08/2008.1298800070.8BA000 Accounting Info: 1298800070.2008.7R4N8AA000.ACB3600000.25305.61006600.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2008 acct3: 7R4N8AA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$2,000.00				

**TASKED PERFORMANCE WORK STATEMENT**  
for  
**Contract No. DTFAAC-05-D-00070**  
**Kyant Technology, Inc.**  
for  
**Option Year 2, Modification 01**

**1. INTRODUCTION:**

This effort requires contract support to provide the CAMI Aerospace Human Factors Research Division with administrative and technical support to assist in the conduct of research necessary to meet mission requirements. The administrative and technical support shall include the conduct and assistance with many tasks associated with database development and administration, software revision and maintenance, survey development, distribution, transcription, scanning paper returns, data analysis, quality control, and report generation, as well as assisting in laboratory and field experiments regarding AAM-500s Human Factors missions requirements. The contract support shall be responsible for management and supervision of all contract personnel (including subject matter experts) who are assigned to complete tasks issued within the scope of the technical requirements of the Division.

**2. APPLICABLE ORDERS, REGULATIONS, FORMS AND MANUALS:**

The applicable documentation is identified

**3. ADMINISTRATION:**

Requiring Office: AAM-500 Human Factors Research Division

Period of Performance: Date of Award through July 11, 2008

Place of Performance: Contract services will be conducted at the CAMI Aerospace Human Factors Research Division (AAM-500).

COTR for this work will be:

Thomas E. Nesthus, Ph.D.  
Aerospace Human Factors Research Division, AAM-510  
6500 MacArthur Blvd  
Oklahoma City, OK 73125  
Phone: (405) 954-6297

**4. GOVERNMENT FURNISHED PROPERTY**

All resources for conducting Delivery Order requirements will be provided by the government. Including facilities, office work space, general office equipment, phones, PCs, etc.

**5. SCOPE OF WORK:** The contractor shall provide quality technical, analytical, planning, and administrative support. The contractor shall furnish and make available all personnel, and services necessary to assist AAM-500 in accomplishing its mission. As directed by the FAA, the contractor may also be required to interface with various FAA and U.S. Government organizations.

CAMI-500-PWS  
Kyant Technology, Inc.  
TNesthus

4/29/08

**5.1 Technical Support Project Requirements**

The contractor shall provide all of the necessary technical operations and administrative support such as: planning, organizing, managing, coordinating, and tracking (e.g., report management, cost/schedule/performance measurement, risk management, component procurement management, system engineering management, resource management, data management) required to perform all of the project tasks successfully as required in accordance with this SOW.

Project Accounting Codes	Project/Task No.	Task Names associated with Projects 1, 2, 3, 4	Total EST Hrs and Costs	EST Travel Costs	SUPPORT PROGRESS & DELIVERABLES
HRR-521A	1 A a	ASEL Survey (AFS-650 Task)	813 \$24,151.67		LOE, monthly/quarterly progress updates, assist in survey development, administration, data management, analysis and summary report writing
<b>Total for HRR-521A</b>			813 \$24,151.67		
HRR-521	1 a, b, c, d	Nat'l Pilot Survey EDT Survey HFACS Maint ASI Survey	2405 \$91,107.03		LOE, monthly/quarterly progress updates, assist in survey development, administration, data management, analysis and summary report writing
HRR-521	1 e	Wx Training Aids	61 \$2,116.01		LOE, monthly/quarterly progress updates, database
HRR-521	1 f, g, h	Color Vision/Hypoxia ASRS Color Vision Coding PAPI/Alt Study	1266 \$42,035.82		LOE, monthly/quarterly progress updates, scanned references, database
HRR-521	1 i	Rudder Skills Survey	529 \$22,152.37		LOE, monthly/quarterly progress updates, aggregate reports
HRR-521	1 j, k, l, m, n	ANAM-Hypoxia FA Survey FA Field Study Int'l FA Policies ULR Fit Ops	1810 \$62,428		LOE, monthly/quarterly progress updates, assist in survey development, administration, data management, analysis and summary report writing
HRR-521	o	USAF Color vision Study	New Task 1544 \$54,020.50	\$2,000.00	Set-up/proctor data collection, data entry, reduction, QA,

4/29/08

					analysis/reporting support
HRR-521	p	HF MX DVD Distribution	New Task 166 \$4,561.40		Packaging/labeling/mailing DVDs
Total for HRR-521			Increase to 7781 \$278,421.13		
HRR-522	2 a	ATCARS-Pseudo pilot SMEs	1597 \$46,321.65		LOE, monthly/quarterly progress updates, scenario-test feedback
Total for HRR-522			1597 \$46,321.65		
HRR-523	3 a	ATSAT	Increased to 1007 \$28,250.25		Proctoring/data collection, progress updates, tabulate database
HRR-523	3 b, c	16PFs MMPI	600 \$19,629.45		LOE, monthly/quarterly progress updates, develop procedures for scoring test, database design and update
Total for HRR-523			Increase to 1607 \$47,879.70		
HRR-524	4 a, b, c, d, e	Separation Survey AME Customer Controller DB ATC Interview EAS Handoff	3150 \$110,131.34		LOE, monthly/quarterly progress updates, print packages, coded database, report macros/templates, draft reports
HRR-524	4 f	NAS Data Reduction	394 \$16,424.41		
HRR-524	4 g, h, i	OED JANUS Merge Temporal Markers FSAS Coding	421 \$18,889.01		LOE, monthly/quarterly progress updates, Access database, draft reports, discrepancy reports (as needed), observational code database, transcription reports
HRR-524	4 j	ATC/Pilot Communication	1142 \$58,997.04	\$10,000	LOE, monthly/quarterly progress updates, transcription reports, database
HRR-524	4 k, l	Div Pop-up	467		LOE, edited reports,

4/29/08

		Support Ref Mgr DB	\$14,507.23		reference database
Total for HRR-524			5574 \$218,949.03	\$10,000	
<b>Overall Adjusted Totals</b>			<b>Increase to 17,372 \$615,723.18</b>	<b>Increase to \$12,000.00</b>	

## 5.2 Technical Support Project Requirements by Task/Sub number and Subtitle:

**5.2.1A a. ASEL Survey (AFS-650 Task)** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in: distribution of Airplane Single Engine Land surveys, process and scan survey data, coding/transcription, and summarizing results of analysis for development of reports (overall and regional)

**5.2.1 a. ASEL Survey (AAM-500 Task)** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in: distribution of surveys, process and scan survey data, coding/transcription, and summarizing results of analysis for development of reports. The contractor will scan returned surveys into a database through the use of SNAP software. Summary reports will be created for each region that has at least eight respondents. In addition, an overall report will be created.

**5.2.1 b. EDT Survey-** Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the report development/production, and comment sanitizing.

**5.2.1 c. Human Factors Accident Classification System (HFACS)** -The Contractor shall provide personnel to assist with the downloading of NTSB accident reports, assimilation of the data, hiring and training of pilot subject matter experts and maintenance subject matter experts, coordination and assimilation of SME analysis data, technical support in data conversion, verification, and drafting summary reports.

**5.2.1 d. Maintenance ASI Survey-** Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the survey design and the content of the survey and, web hosting, sampling and online distribution, data handling/analysis, report development/production, and comment sanitizing.

**5.2.1 e. Wx Training Aids** -The Contractor shall provide personnel to assist with development of a demographic survey, scanning and processing and development of databases and supporting documentation and coordination and scheduling of participant arrivals.

4/29/08

**5.2.1 f. Color Vision/Hypoxia** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to proctor and monitor the experimental testing in the altitude chamber, data entry and Q&A, data reduction and compilation, analysis and report writing support.

**5.2.1 g. ASRS Color Vision Coding** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to support database analysis and report writing.

**5.2.1 h. PAPI/Alt Study** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the analysis of data from this study and report writing support.

**5.2.1 i. Rudder Skills Survey**- Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the Data preparation of the rudder skills survey (QA, cleaning, and aggregation), report template design (multiple groups and levels of aggregation), and report production (including automation if required)

**5.2.1 j. ANAM CV/Hypoxia** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in ANAM test data acquisition, data management, reduction, analysis, and report writing assistance.

**5.2.1 k. FA Survey** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the development, distribution, management, reduction, and analysis of a major survey of flight attendants regarding current scheduling practices and their influence on perceived fatigue

**5.2.1 l. FA Field Study** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the management/reduction/analysis of data acquired from a flight attendant field study—specifically data from wrist activity monitors (WAM), transcription of logbook entries into a database, assistance in reduction/analysis management of these data, and the input of appropriate data into the performance prediction models

**5.2.1 m. International FA Policies** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

4/29/08

The Contractor shall provide personnel to assist with the inquiry, via email/phone interviews of international commercial airlines regarding FA scheduling policies and practices, development of a database, and assistance with report writing.

**5.2.1 n. ULR Flt Ops** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the Ultra Long Range (ULR) Flight Operations Study—primarily with WAM downloads, reduction/analysis, management; transcription of logbook entries, database reduction/analysis management; and the input of appropriate WAM data into a performance prediction model (e.g., FAST).

**5.2.1 o. USAF Color vision Study** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The contractor shall provide personnel to assist with a new start experimental set-up and proctoring the data collection effort, as well as data entry, data reduction, QA of acquired data, data analysis and reporting support. Some travel will be necessary to support this study effort.

**5.2.1 p. HF MX DVD Distribution Support** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The contractor shall provide personnel to assist with packaging/labeling/mailing of an Airline Maintenance Human Factors DVD.

**5.2.2 a. ATCARS** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the testing of new ATC simulation scenarios, train and serve as ghost-pilots during simulation participation.

**5.2.3 a. ATSAT**- Level of Effort (LOE) from date of award through 11 July 2008, Increased Labor requirements necessary, but not to exceed obligated funding on the modified Designated Contract Line Item.

The Contractor shall provide personnel to assist with the information packets for classes; proctoring class testing; scanning, processing, and quality assurance of ATSAT written data and development of automated questionnaires..

**5.2.3 b. 16PF** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to enter the backlog of forms and construct database to manage those data.

**5.2.3 c. MMPI**- Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

4/29/08

The Contractor shall provide personnel to assist with the development of data collection/processing/storage procedures and methods for the ATCS pre-employment Minnesota Multi-phasic Personality Inventory (MMPI) assessment. This task also includes scoring/reporting, input of scores, and update of the database for approximately 7,500 tests.

**5.2.4 a. Separation Survey** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with survey scanning/processing, QA of data; database analyses, drafting comments reports, comments analyses, and assistance in summary report drafting.

**5.2.4 b. AMIE Customer Survey** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with survey scanning/processing, QA of data; database analyses, drafting comments reports, comments analyses, and assistance in summary report drafting.

**5.2.4 c. Controller DB** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to develop a database for this effort, as well as the development of an automated update procedure from multiple sources with data reduction and output ready for analysis/evaluation.

**5.2.4 d. ATC Interview** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to transcribe ACTS interviews, develop a dictionary of coding entries, code the transcripts and enter into a database.

**5.2.4 e. EAS Handoff** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to locate and deliver process files/documents to AHR.

**5.2.4 f. SAR Tape conversion and data reduction** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to conduct the conversion and transfer of NAS SAR data (specifically, Data Analysis and Reduction Tool [DART] and National Track Analysis Program [NTAP] reports) into a format and platform conducive to statistical analysis.

**5.2.4 g. OED JANUS Merge** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to merge and verify database elements from the FAA's Operational Error database and three JANUS OED studies.

4/29/08

**5.2.4 h. Temporal Markers** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to code temporal marker events of operational errors acquired from ZID and enter those events into a database for analysis.

**5.2.4 i. FSAS Coding** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to code JANUS category data into SMS orders and to enter data for data comparison and analysis.

**5.2.4 j. ATC/Native-Foreign Pilot Communications** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to transcribe 2 additional pilot group interviews, enter questionnaire data, field interviews, and provide data reduction, QA, analysis, and results for reports.

**5.2.4 k. AAM-500 Div. Pop-up Support Activities** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item. Activities will include the following:

*Reproduction of Research Materials* - The Contractor shall provide upon request, hard copies and/or electronic reproductions of books, journal articles, and other customer research materials. These products will be requested and delivered within 2 business days for each item in need of reproduction up to 84,000 unbound pages for photocopying or 6,300 bound pages for scanning or an equivalent combination of bound and unbound pages photocopied and/or scanned.

*Shredding of Research Data/Materials* - The Contractor shall provide upon request, shredded research materials (if necessary, up to 20,000 pages within 2 business days).

*Software Testing and Support* - The Contractor shall provide upon request, personnel to assist in writing, setting up, and testing software programs designed for training, data collection, and/or data analysis.

*Technical Editing* - The Contractor shall provide upon request, personnel to proofread, edit, and/or co-author 1 technical manuscript.

**5.2.4 l. Reference Manager Databases** - The Contractor shall provide personnel to assist in the maintenance and management of a centralized Reference Manager database. Upon request, the contractor shall provide personnel to conduct literature searches, make additions to the centralized database, extract topic databases, and provide supporting documentation within 10 business days.

**6.0 ACCEPTANCE:** Contract progress and deliverables associated with these tasks will be reviewed and accepted/rejected by each CAMI Principle Investigator requesting the contract support and by the COTR in accordance with monthly progress and delivery of pertinent products.



SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS DIFFER TO COMPLETE BLOCKS 12, 16, 22, 23, & 27		1. REQUISITION NUMBER AC-07-03877	PAGE OF 1   12
--	--	--------------------------------------	-------------------

2. CONTRACT NO. DTFAAC-05-D-00070	3. AWARD EFFECTIVE DATE 07/12/2007	4. ORDER NUMBER 0003	5. SOLICITATION NUMBER	6. SOLICITATION ISSUE DATE
--------------------------------------	---------------------------------------	-------------------------	------------------------	----------------------------

7. FOR SOLICITATION INFORMATION CALL	8. NAME Arlis Franklin	9. TELEPHONE NUMBER (No collect calls) 405-954-7836	10. OFFER OUR DATE/LOCAL TIME
--------------------------------------	---------------------------	--	-------------------------------

11. ISSUED BY AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125	12. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED <input type="checkbox"/> SET ASIDE <input type="checkbox"/> SMALL BUSINESS	13. DELIVERY FOR FOR IDENTIFICATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SRS SCHEDULE	14. DISCOUNT TERMS PROMPT NET 30
--	--	---	-------------------------------------

15. DELIVER TO A6973DQM 6973DQ FAA AERO CENTER, AAM-500 HUMAN RES RESEARCH DIV, RM-270 CAMI PO BOX 25082 OKLAHOMA CITY OK 731250082 US	16. ADMINISTERED BY AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125
---	--

17a. CONTRACTOR/ OFFEROR XYANT TECHNOLOGY INC 2600 VAN BUREN DRIVE STE 2624 NORMAN OK 73072	17b. PAYMENT WILL BE MADE BY FAA AC ACCTG OFC DOT/FAA AMZ-110 PO BOX 25710 OKLAHOMA CITY OK 73125
--	---

18. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER	19. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 17b UNLESS BLOCK BELOW IS CHECKED. <input type="checkbox"/> SEE APPROPRIATE
--	---

20. ITEM NO.	21. SCHEDULE OF SUPPLIES/SERVICES	22. QUANTITY	23. UNIT	24. UNIT PRICE	25. AMOUNT
	This modification is issued to fund Option Year II Technical Services as described in the RFWS requirements for Option 3 incorporated and attached (9 pages). ALT. COR/COTR: TOM NESTROS DISTR: T Continued ...				

26. ACCOUNTING AND APPROPRIATION DATA See schedule	27. TOTAL AWARD AMOUNT (For Contract Authority Use Only) \$545,618.36
---	--

28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN <u>1</u> COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL MEMO SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.	29. AWARD OF CONTRACT REFERENCE OFFER <input type="checkbox"/> DATED _____ YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:
---	---

30a. SIGNATURE OF OFFEROR/CONTRACTOR <i>R. Greenivasan</i>	30b. CONTRACT AUTHORITY SIGNATURE OF CONTRACTING OFFICER <i>Arlis Franklin</i>
---	---

31. NAME AND TITLE OF SIGNER (Type or Print) GREENIVASAN RAJAPPA, PRESIDENT	32. DATE SIGNED 07/11/07	33. NAME OF CONTRACTING OFFICER (Type or Print) Arlis Franklin	34. DATE SIGNED 07/12/07
--	-----------------------------	---	-----------------------------

35. QUANTITY IN COLUMN 20 (AS SET) <input type="checkbox"/> RECEIVED <input type="checkbox"/> INSPECTED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED	36. SHIP NUMBER	37. VOUCHER NUMBER	38. AMOUNT VERIFIED CORRECT FOR
---	-----------------	--------------------	---------------------------------

39. SIGNATURE OF AUTHORIZED CONTRACT AUTHORITY REPRESENTATIVE	40. DATE	41. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	42. CHECK NUMBER
---	----------	--	------------------

43. CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT	44. DATE	45. SA ACCOUNT NUMBER	46. SA VOUCHER NUMBER	47. PAID BY
--	----------	-----------------------	-----------------------	-------------

48. SIGNATURE AND TITLE OF CERTIFYING OFFICER	49. DATE	49a. RECEIVED BY (Print)	49b. RECEIVED AT (Location)	49c. DATE RECEIVED (YYYYMMDD)	49d. TOTAL CONTAINERS
---	----------	--------------------------	-----------------------------	-------------------------------	-----------------------

NAME OF OFFEROR OR CONTRACTOR

XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
0001	<p>Delivery: 07/11/2008                      Period of Performance: 07/12/2007 to 07/11/2008</p> <p>++++                      OPTION YEAR 2                      ++++</p> <p>010 TOTAL ESTIMATED DOLLARS \$ 535,618.00</p> <p>1. Research Technical Support as requested to meet TPWS requirements attached herein (for Option 2).                      ISO9000: N Electronic &amp; IT: 03</p> <p>Project Data:                      1207AC081110.AHRR521.AV9500.ACB3600000.25305.07/11/2007.1298800070.8AA000                      Accounting Info:                      1298800070.2007.7R4N8AA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000                      .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8AA000 acct4: ACB3600000 acct                      5: 25305 acct6: 61006600                      Funded: \$219,839.23</p> <p>Project Data:                      1207AC082110.BHRR522.AV9200.ACB3600000.25305.07/11/2007.1298800070.8BA000                      Accounting Info:                      1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000                      .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8BA000 acct4: ACB3600000 acct                      5: 25305 acct6: 61006600                      Funded: \$46,321.65</p> <p>Project Data:                      1207AC082110.BHRR523.AV9300.ACB3600000.25305.07/11/2007.1298800070.8BA000                      Accounting Info:                      1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000                      .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8BA000 acct4: ACB3600000 acct                      5: 25305 acct6: 61006600                      Funded: \$36,356.80</p> <p>Project Data:                      1207AC082110.BHRR524.AV9400.ACB3600000.25305.07/11/2007.1298800070.8BA000                      Accounting Info:                      1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000                      .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8BA000 acct4: ACB3600000 acct                      5: 25305 acct6: 61006600                      Funded: \$208,949.03</p> <p>Project Data:                      12XXFAARCERT.TN0200.ACB0860000.25305.07/11/2007.1270100070.420000                      Accounting Info:                      1270100070.2007.7026420000.ACB0860000.25305.61006600.0000000000.0000000000.0000000000                      .0000000000 acct1: 1270100070 acct2: 2007 acct3: 7026420000 acct4: ACB0860000 acct                      Continued ...</p>				535,618.38

CONTINUATION SHEET

REFERENCE NO. OF DO. INT BEING CONTINUED  
DTFAAC-05-D-00070/0003

PAGE OF  
3 12

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	5: 25305 acct6: 61006600 Funded: \$24,151.67  Increased Rates based upon DOL WD 2005-2431 dated 5/29/2007  Labor Categories-----Est. Hrs.---(\$ Fixed Hourly Rate Project Supervisor-----1880----- Research Assistant-----2526----- Computer Programmer-----470----- Research Technician-----5640----- General Clerk II-----2820----- Air Traffic Control (SME)-----650----- Pilot (SME)-----650----- Airframe/Power Plant Mech (SME)--650-----  0010 TOTAL NOT TO EXCEED (NTE) COST \$10,000.00 (ESTIMATED)				
0002	1. Travel Costs in accordance with FAA Travel Policy and provisions of the Contract. ISO9000: N Electronic & IT: 03  Project Data: 1207AC082110.BHRR524.AV9400.ACB3600000.25305.07/11/2007.1298800070.8BA000 Accounting Info: 1298800070.2007.7R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1298800070 acct2: 2007 acct3: 7R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$10,000.00				10,000.00
	The total amount of award: \$545,618.38. The obligation for this award is shown in box 25.				

*Exp 4*

**TASKED PERFORMANCE WORK STATEMENT**  
for  
Contract No. DTFAAC-05-D-00070  
Xyant Technology, Inc.  
for  
Option Year 2

**1. INTRODUCTION:**

This effort requires contract support to provide the CAMI Aerospace Human Factors Research Division with administrative and technical support to assist in the conduct of research necessary to meet mission requirements. The administrative and technical support shall include the conduct and assistance with many tasks associated with database development and administration, software revision and maintenance, survey development, distribution, transcription, scanning paper returns, data analysis, quality control, and report generation, as well as assisting in laboratory and field experiments regarding AAM-500s Human Factors missions requirements. The contract support shall be responsible for management and supervision of all contract personnel (including subject matter experts) who are assigned to complete tasks issued within the scope of the technical requirements of the Division.

**2. APPLICABLE ORDERS, REGULATIONS, FORMS AND MANUALS:**

The applicable documentation is identified

**3. ADMINISTRATION:**

Requiring Office: AAM-500 Human Factors Research Division

Period of Performance: Date of Award through July 11, 2008

Place of Performance: Contract services will be conducted at the CAMI Aerospace Human Factors Research Division (AAM-500).

COTR for this work will be:

Thomas E. Nesthus, Ph.D.  
Aerospace Human Factors Research Division, AAM-500  
6500 MacArthur Blvd  
Oklahoma City, OK 73125  
Phone: (405) 954-6297

**4. GOVERNMENT FURNISHED PROPERTY**

All resources for conducting Delivery Order requirements will be provided by the government. Including facilities, office work space, general office equipment, phones, PCs, etc.

**5. SCOPE OF WORK:** The contractor shall provide quality technical, analytical, planning, and administrative support. The contractor shall furnish and make available all personnel, and services necessary to assist AAM-500 in accomplishing its mission. As directed by the FAA, the contractor may also be required to interface with various FAA and U.S. Government organizations.

### 5.1 Technical Support Project Requirements

The contractor shall provide all of the necessary technical operations and administrative support such as: planning, organizing, managing, coordinating, and tracking (e.g., report management, cost/schedule/performance measurement, risk management, component procurement management, system engineering management, resource management, data management) required to perform all of the project tasks successfully as required in accordance with this SOW.

Project Accounting Codes	Project/ Task No.	Task Names associated with Projects 1, 2, 3, 4	Total EST Hrs and Costs	EST Travel Costs	SUPPORT PROGRESS & DELIVERABLES
HRR-521A	1A a	ASEL Survey (AFS-650 Task)	813 Hrs estimated  \$24,151.67		LOE, monthly/quarterly progress updates, assist in survey development, administration, data management, analysis and summary report writing
<b>Total for HRR-521A</b>			<b>\$24,151.67</b>		
HRR-521	1 a, b, c, d	ASEL Survey (AAM-500 Task) EDT Survey HFACS Maint ASI Survey	2405 Hrs estimated  \$91,107.03		LOE, monthly/quarterly progress updates, assist in survey development, administration, data management, analysis and summary report writing
HRR-521	1 e	Wx Training Aids	61 Hrs estimated  \$2,116.01		LOE, monthly/quarterly progress updates, database
HRR-521	1 f, g, h	Color Vision/Hypoxia ASRS Color Vision Coding PAPI/Alt Study	1266 Hrs estimated  \$42,035.82		LOE, monthly/quarterly progress updates, scanned references, database
HRR-521	1 i	Rudder Skills Survey	529 Hrs estimated  \$22,152.37		LOE, monthly/quarterly progress updates, aggregate reports
HRR-521	1 j, k, l, m, n	ANAM-Hypoxia FA Survey FA Field Study	1810 Hrs estimated		LOE, monthly/quarterly progress updates,

		Int'l FA Policies ULR Flt Ops	\$62,428.00		assist in survey development, administration, data management, analysis and summary report writing
<b>Total for HRR-521</b>			6071 Total Hrs estimated \$219,839.23		
HRR-522	2 a	ATCARS-Pseudo pilot SMEs	1597 Hrs estimated \$46,321.65		LOE, monthly/quarterly progress updates, scenario-test feedback
<b>Total for HRR-522</b>			1597 Total Hrs estimated \$46,321.65		
<b>Project Accounting Codes</b>	<b>Project/ Task No.</b>	<b>Task Names associated with Projects 1, 2, 3, 4</b>	<b>Total EST Hrs and Costs</b>	<b>EST Travel Costs</b>	<b>SUPPORT PROGRESS &amp; DELIVERABLES</b>
HRR-523	3 a	ATSAT	567 Hrs estimated \$16,727.35		LOE, monthly/quarterly progress updates, tabulated database
HRR-523	3 b, c	16PFs MMPI	600 Hrs estimated \$19,629.45		LOE, monthly/quarterly progress updates, develop procedures for scoring test, database design and update
<b>Total for HRR-523</b>			1167 Total Hrs. estimated \$36,356.80		

Project Accounting Codes	Project/ Task No.	Task Names associated with Projects 1, 2, 3, 4	Total EST Hrs and Costs	EST Travel Costs	SUPPORT PROGRESS & DELIVERABLES
HRR-524	4 a, b, c, d, e	Separation Survey AME Customer Controller DB ATC Interview EAS Handoff	3150 Hrs estimated  \$110,131.34		LOE, monthly/quarterly progress updates, print packages, coded database, report macros/templates, draft reports
HRR-524	4 f	NAS Data Reduction	394 Hrs estimated  \$16,424.41		
HRR-524	4 g, h, i	OED JANUS Merge Temporal Markers FSAS Coding	421 Hrs estimated  \$18,889.01		LOE, monthly/quarterly progress updates, Access database, draft reports, discrepancy reports (as needed), observational code database, transcription reports
HRR-524	4 j	ATC/Pilot Communication	1142 Hrs estimated  \$58,997.04	\$10,000	LOE, monthly/quarterly progress updates, transcription reports, database
HRR-524	4 k, l	Div Pop-up Support Ref Mgr DB	467 Hrs estimated  \$14,507.23		LOE, edited reports, reference database
<b>Total for HRR-524</b>			<b>5574 Total hours Estimated</b>  <b>\$218,949.03</b>	<b>\$10,000</b>	
<b>Overall Estimated Totals</b>			<b>15222 Total Hours Estimated</b>  <b>\$545,618.38</b>	<b>\$10,000</b>	

## 5.2 Technical Support Project Requirements by Task/Sub number and Subtitle:

5.2.1A a. ASEL Survey (AFS-650 Task) - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in: distribution of Airplane Single Engine Land surveys, process and scan survey data, coding/transcription, and summarizing results of analysis for development of reports (overall and regional)

5.2.1 a. ASEL Survey (AAM-500 Task) - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in: distribution of surveys, process and scan survey data, coding/transcription, and summarizing results of analysis for development of reports. The contractor will scan returned surveys into a database through the use of SNAP software. Summary reports will be created for each region that has at least eight respondents. In addition, an overall report will be created.

5.2.1 b. EDT Survey- Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the report development/production, and comment sanitizing.

5.2.1 c. Human Factors Accident Classification System (HFACS) -The Contractor shall provide personnel to assist with the downloading of NTSB accident reports, assimilation of the data, hiring and training of pilot subject matter experts and maintenance subject matter experts, coordination and assimilation of SME analysis data, technical support in data conversion, verification, and drafting summary reports.

5.2.1 d. Maintenance ASI Survey- Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the survey design and the content of the survey and, web hosting, sampling and online distribution, data handling/analysis, report development/production, and comment sanitizing.

5.2.1 e. Wx Training Aids -The Contractor shall provide personnel to assist with development of a demographic survey, scanning and processing and development of databases and supporting documentation.

5.2.1 f. Color Vision/Hypoxia - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to proctor and monitor the experimental testing in the altitude chamber, data entry and Q&A, data reduction and compilation, analysis and report writing support.

5.2.1 g. ASRS Color Vision Coding - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to support database analysis and report writing.

**5.2.1 h. PAFI/Alt Study** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the analysis of data from this study and report writing support.

**5.2.1 i. Rudder Skills Survey**- Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the Data preparation of the rudder skills survey (QA, cleaning, and aggregation), report template design (multiple groups and levels of aggregation), and report production (including automation if required)

**5.2.1 j. ANAM CV/Hypoxia** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in ANAM test data acquisition, data management, reduction, analysis, and report writing assistance.

**5.2.1 k. FA Survey** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the development, distribution, management, reduction, and analysis of a major survey of flight attendants regarding current scheduling practices and their influence on perceived fatigue

**5.2.1 l. FA Field Study** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the management/reduction/analysis of data acquired from a flight attendant field study—specifically data from wrist activity monitors (WAM), transcription of logbook entries into a database, assistance in reduction/analysis management of these data, and the input of appropriate data into the performance prediction models

**5.2.1 m. International FA Policies** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the inquiry, via email/phone interviews of international commercial airlines regarding FA scheduling policies and practices, development of a database, and assistance with report writing.

**5.2.1 n. ULR Flt Ops** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the Ultra Long Range (ULR) Flight Operations Study—primarily with WAM downloads, reduction/analysis, management; transcription of logbook entries, database reduction/analysis management; and the input of appropriate WAM data into a performance prediction model (e.g., FAST).

**5.2.2 a. ATCARS** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the testing of new ATC simulation scenarios, train and serve as ghost-pilots during simulation participation.

**5.2.3 a. ATSAT**- Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the information packets for classes; proctoring class testing; scanning, processing, and quality assurance of ATSAT written data.

**5.2.3 b. 16PF** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to enter the backlog of forms and construct database to manage those data.

**5.2.3 c. MMPI**- Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the development of data collection/processing/storage procedures and methods for the ATCS pre-employment Minnesota Multi-phasic Personality Inventory (MMPI) assessment. This task also includes scoring/reporting, input of scores, and update of the database for approximately 7,500 tests.

**5.2.4 a. Separation Survey** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with survey scanning/processing, QA of data; database analyses, drafting comments reports, comments analyses, and assistance in summary report drafting.

**5.2.4 b. AME Customer Survey** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with survey scanning/processing, QA of data; database analyses, drafting comments reports, comments analyses, and assistance in summary report drafting.

**5.2.4 c. Controller DB** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to develop a database for this effort, as well as the development of an automated update procedure from multiple sources with data reduction and output ready for analysis/evaluation.

**5.2.4 d. ATC Interview** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to transcribe ACTS interviews, develop a dictionary of coding entries, code the transcripts and enter into a database.

**5.2.4 e. EAS Handoff** –Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to locate and deliver process files/documents to AHR.

**5.2.4 f. SAR Tape conversion and data reduction** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to conduct the conversion and transfer of NAS SAR data (specifically, Data Analysis and Reduction Tool [DART] and National Track Analysis Program [NTAP] reports) into a format and platform conducive to statistical analysis.

**5.2.4 g. OED JANUS Merge** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to merge and verify database elements from the FAA's Operational Error database and three JANUS OED studies.

**5.2.4 h. Temporal Markers** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to code temporal marker events of operational errors acquired from ZID and enter those events into a database for analysis.

**5.2.4 i. FSAS Coding** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to code JANUS category data into SMS orders and to enter data for data comparison and analysis.

**5.2.4 j. ATC/Native-Foreign Pilot Communications** - Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to transcribe 2 additional pilot group interviews, enter questionnaire data, field interviews, and provide data reduction, QA, analysis, and results for reports.

**5.2.4 k. AAM-500 Div. Pop-up Support Activities**-Level of Effort (LOE) from date of award through 11 July 2008, Labor not to exceed obligated funding on the Designated Contract Line Item. Activities will include the following:

*Reproduction of Research Materials* -The Contractor shall provide upon request, hard copies and/or electronic reproductions of books, journal articles, and other customer research materials. These products will be requested and delivered within 2 business days for each item in need of reproduction up to 84,000 unbound pages for photocopying or 6,300 bound pages for scanning or an equivalent combination of bound and unbound pages photocopied and/or scanned.

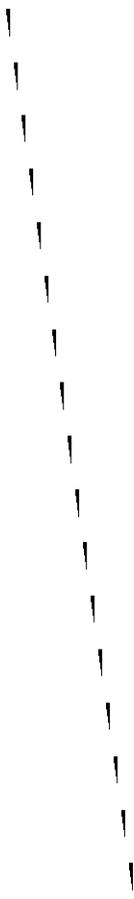
*Shredding of Research Data/Materials* - The Contractor shall provide upon request, shredded research materials (if necessary, up to 20,000 pages within 2 business days).

*Software Testing and Support* - The Contractor shall provide upon request, personnel to assist in writing, setting up, and testing software programs designed for training, data collection, and/or data analysis.

*Technical Editing* - The Contractor shall provide upon request, personnel to proofread, edit, and/or co-author 1 technical manuscript.

**5.2.4 I. Reference Manager Databases** - The Contractor shall provide personnel to assist in the maintenance and management of a centralized Reference Manager database. Upon request, the contractor shall provide personnel to conduct literature searches, make additions to the centralized database, extract topic databases, and provide supporting documentation within 10 business days.

**6.0 ACCEPTANCE:** Contract progress and deliverables associated with these tasks will be reviewed and accepted/rejected by each CAMI Principle Investigator requesting the contract support and by the COTR in accordance with monthly progress and delivery of pertinent products.



AMENDMENT OF SOLICITATION/MODIFICATION ( CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 5	
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REC. NO. AC-08-01833	
5. PROJECT NO. (if applicable)		7. ADMINISTERED BY (if other than item 5)		CODE AMQ310-ARC	
E. ISSUED BY AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125		CODE AMQ310-ARC		7. ADMINISTERED BY (if other than item 5) AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125	
B. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) KYANT TECHNOLOGY INC 2600 VAN BUREN DRIVE STE 2624 NORMAN OK 73072		(x) 9A. AMENDMENT OF SOLICITATION NO.		9B. DATED (SEE ITEM 11)	
CODE 100197007		FACILITY CODE		10A. MODIFICATION OF CONTRACT/ORDER NO. DTFAAC-05-D-00070 0002	
				10B. DATED (SEE ITEM 13) 03/21/2008	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offers  is extended.  is not extended. Offers 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 number. FAILURE OF YOUR ACKNOWLEDGEMENT 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.)

Net Decrease \$-92,793.71

See Schedule

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(a) <input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF:
<input checked="" type="checkbox"/>	D. OTHER (Specify type of modification and authority) mutual agreement of both parties for task orders

E. IMPORTANT: Contractor  is not  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.)

Mod 002

This modification is issued to deobligate funding from the Contract CLIN 6 research support and Contract CLIN 7 Travel Expenses for Order 0002 period of performance Option Year 1.

For purposes of this modification, the research support and travel are identified as CLIN 001 and 0002 respectively.

\*\*\*\*\*

Mod 001

This modification is issued to increase funding required for increased requirements.

Continued ...

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)	
		Avis Franklin	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. CONTRACT AUTHORITY	16C. DATE SIGNED
(Signature of person authorized to sign)		<i>Avis Franklin</i>	3/21/08
		(Signature of Contracting Officer)	

CONTINUATION SHEET

REFERENCE NO. OF DOCU. BEING CONTINUED  
DTFAAC-05-D-00070/0002/0002

PAGE OF  
2 5

NAME OF OFFEROR OR CONTRACTOR

XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Mod 0002</p> <p>First: The Order Total Amount is decreased by \$92,793.71</p> <p>FROM: TO: \$591,833.42</p> <p>Second: This decrease reduces CLIN 0001 obligation by \$88,231.40</p> <p>CHANGES FOR LINE ITEM NUMBER: 1 Reseach Support</p> <p>Total Amount changed</p> <p>from \$671,627.13 to \$583,395.73</p> <p>Obligated Amount for this modification: -\$88,231.40</p> <p>CHANGES FOR DELIVERY LOCATION: A6973DQM</p> <p>Amount changed from \$671,627.13 to \$583,395.73</p> <p>CHANGES FOR ACCOUNTING CODE:</p> <p>1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000</p> <p>.0000000000</p> <p>Amount changed from \$429,617.36 to \$365,328.39</p> <p>Percent changed from 75.20365 to 62.62103</p> <p>CHANGES FOR ACCOUNTING CODE:</p> <p>1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000</p> <p>.0000000000</p> <p>Amount changed from \$54,192.05 to \$53,120.89</p> <p>Percent changed from 4.36357 to 9.10546</p> <p>CHANGES FOR ACCOUNTING CODE:</p> <p>1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000</p> <p>.0000000000</p> <p>Amount changed from \$27,061.49 to \$10,372.91</p> <p>Percent changed from 1.90134 to 1.77802</p> <p>CHANGES FOR ACCOUNTING CODE:</p> <p>1288800000.2007.6R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000</p> <p>.0000000000</p> <p>Amount changed from \$58,137.70 to \$51,955.01</p> <p>Percent changed from 8.65625 to 8.90562</p> <p>Third: This decrease reduces CLIN 0002 obligation by \$4,562.31</p> <p>CHANGES FOR LINE ITEM NUMBER: 2 Travel</p> <p>Total Amount changed</p> <p>from \$13,000.00 to \$8,437.69</p> <p>Obligated Amount for this modification: -\$4,562.31</p> <p>CHANGES FOR DELIVERY LOCATION: A6973DQM</p> <p>Amount changed from \$13,000.00 to \$8,437.69</p> <p>CHANGES FOR ACCOUNTING CODE:</p> <p>Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0002/0002

PAGE OF  
3 5

NAME OF OFFEROR OR CONTRACTOR

KYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.000000000000.0000000000 .0000000000 Amount changed from \$13,000.00 to \$8,437.69  Fourth: All other provisions of the contract remain unchanged. Delivery: 07/12/2006 Discount Terms: STANDARD NET 30 Delivery Location Code: A6973DQM A6973DQM 6973DQ FAA AERO CENTER, AAM-500 HUMAN RES RESEARCH DIV, RM-270 CAMI PO BOX 25082 OKLAHOMA CITY OK 731250082 US  Mark For: Tom Nesthus 6500 S. Macarthur Blvd. Oklahoma City OK 73169  Payment: FAA AC ACCTE OFC DOT/FAA AMZ-110 PO BOX 25710 OKLAHOMA CITY OK 73125  FOB: Destination Period of Performance: 07/12/2006 to 07/11/2007  Change Item 0001 to read as follows (amount shown is the obligated amount):  CLIN 006 Total Estimated Research Support = \$ 671,627.13  CLIN 6 Technical support supporting CAMI Human Research Division as identified in the TPWS requirements (Option 1) attached herein (7 pages). for Contract No. DTFAAC-05-D-00070 Kyant Technology, Inc. Option Year 1 ISO9000: N Electronic & IT: 03  Project Data: 1206AC082110.BHRR524.AV9400.ACB3600000.25305.07/11/2006.1288800000.8BA000 Accounting Info: 1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.000000000000.0000000000 .0000000000 acct1: 1288800000 acct2: 2006 acct3: 6R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: -\$64,288.97 Project Data: 1204AC081110.AHRR521.AV9500.ACB3600000.25305.07/11/2006.1268800000.8AA000 Accounting Info: Continued ...				
0001					-88,231.40

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0002/0002

PAGE OF  
4 5

NAME OF OFFEROR OR CONTRACTOR

KYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	1268800000.2006.4R4NBAA000.ACB3600000.25305.61006600.0000000000.0000000000 .0000000000 acct1: 1268800000 acct2: 2006 acct3: 4R4NBAA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$0.00 Project Data: 1206AC082110.BHRR522.AV9200.ACB3600000.25305.07/11/2006.1288800000.8BA000 Accounting Info: 1288800000.2006.6R4NBBA000.ACB3600000.25305.61006600.0000000000.0000000000 .0000000000 acct1: 1288800000 acct2: 2006 acct3: 6R4NBBA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: -\$1,071.16 Project Data: 1206AC082110.BHRR523.AV9300.ACB3600000.25305.07/11/2006.1288800000.8BA000 Accounting Info: 1288800000.2006.6R4NBBA000.ACB3600000.25305.61006600.0000000000.0000000000 .0000000000 acct1: 1288800000 acct2: 2006 acct3: 6R4NBBA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: -\$16,688.58 Project Data: 1206AC081110.AHRR521.AV9500.ACB3600000.25305.03/09/2007.1288800000.8AA000 Accounting Info: 1288800000.2007.6R4NBAA000.ACB3600000.25305.61006600.0000000000.0000000000 .0000000000 acct1: 1288800000 acct2: 2007 acct3: 6R4NBAA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: -\$6,182.69  Labor Categories----- (\$) Fixed Hourly Rate Project Supervisor----- ██████████ Research Assistant----- ██████████ Computer Programmer----- ██████████ Research Technician----- ██████████ General Clerk II----- ██████████ Air Traffic Control (SME)----- ██████████ Pilot (SME)----- ██████████ Airframe/Power plant mech (SME)----- ██████████  Change Item 0002 to read as follows (amount shown is the obligated amount):  TOTAL ESTIMATED \$13,000.00				
0002	CLIN 7 Travel and subsistence costs as defined and allowable in accordance with FAA Travel policy and provisions of the Contract. Request for travel will be requested in advance by the Contracting Officer or delegated representative, and authorized by concurrence of estimated funding. Xyant Technology, Inc. Option Year 1 ISO9000: N Electronic & IT: 03  Continued ...				-4,562.31

*Exp 4*

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0002/0002

PAGE OF  
5 5

NAME OF OFFEROR OR CONTRACTOR

KYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Project Data: 1206AC082110.BHRR524.AV9400.ACB3600000.25305.07/11/2006.1288800000.8BA000 Accounting Info: 1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.0000000000000000.00000000000000000000 .0000000000 acct1: 1288800000 acct2: 2006 acct3: 6R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: -\$4,562.31				



AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 5
2. AMENDMENT/MODIFICATION NO. 0001	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO. AC-D7-02180	8. PROJECT NO. (if applicable)
5. ISSUED BY AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125	6. CODE AMQ0310-ARC	7. ADMINISTERED BY (if other than item 5) AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125	CODE AMQ310-ARC
9. NAME AND ADDRESS OF CONTRACTOR (No, street, county, State and ZIP Code) MYANT TECHNOLOGY INC 2600 VAN BUREN DRIVE STE 2624 NORMAN OK 73072		(a)	10A. AMENDMENT OF SOLICITATION NO.
CODE 731473121 FACILITY CODE		(b)	10B. DATED (SEE ITEM 11)
		(c)	10A. MODIFICATION OF CONTRACT ORDER NO. DTPAAC-05-D-00070 0002
			10B. DATED (SEE ITEM 13) 08/11/2006

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended or deleted in item 14. The hour and date specified for receipt of offers  is extended.  is not extended. Offers must be received no later than 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; (ii) by acknowledging receipt of this amendment on each copy of the offer submitted; or (b) by separate letter or telegram which includes a reference to the solicitation and amendment number. FAILURE OF YOUR ACKNOWLEDGEMENT 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)

Net Increase \$120,873.48

See Schedule

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT ORDERS. IT MODIFIES THE CONTRACT ORDER NO. AS DESCRIBED IN ITEM 14.

<input type="checkbox"/>	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.
<input type="checkbox"/>	B. THE ABOVE NUMBERED CONTRACT ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14.
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF:
<input checked="" type="checkbox"/>	D. OTHER (Specify type of modification and authority) mutual agreement of both parties for task orders

E. IMPORTANT: Contractor  is not.  is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where applicable.)

Mod. 001

This modification is issued to increase funding required for increased requirements.

MOD 001 LIST OF CHANGES:

First: The PWS revision (dated 12 March 2007) is hereby incorporated and attached:

Second: The total obligation for this order is hereby increased by \$120,873.48

FROM: \$ 563,753.65 TO: \$684,627.13

Third: As a result of tasks identified in the PWS revision, the total estimated amounts for

Continued ...

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as hereinafter changed, remain unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) SRINIVASAN ANJAPPA, PRESIDENT	15B. CONTRACT OFFEROR R. Srinivasan (Signatures of person authorized to sign)	15C. DATE SIGNED 04/23/07	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Avis Franklin	16B. CONTRACT AUTHORITY (Signature of Contracting Officer)	16C. DATE SIGNED 4/23/07
--	---	------------------------------	---	---	-----------------------------

NAME OF OFFEROR OR CONTRACTOR

XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>the Contract Line Item Numbers (CLINs) are revised as follows:</p> <p>CHANGES FOR LINE ITEM NUMBER: 1 CLIN 001 increased by \$117,873.48 From: \$553,753.65 To: \$671,627.13</p> <p>CHANGES FOR DELIVERY LOCATION: A6973DQM Amount changed from \$553,753.65 to \$671,627.13</p> <p>CHANGES FOR ACCOUNTING CODE: 1288800000.2006.6RAN8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000.0000000000 .0000000000 Amount changed from \$416,442.93 to \$429,617.36</p> <p>CHANGES FOR ACCOUNTING CODE: 1288800000.2006.6RAN8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000.0000000000 .0000000000 Amount changed from \$24,163.45 to \$54,192.05</p> <p>CHANGES FOR ACCOUNTING CODE: 1288800000.2006.6RAN8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000.0000000000 .0000000000 Amount changed from \$10,528.74 to \$27,061.49</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 1288800000.2007.6RAN8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000.0000000000 .0000000000 FUND 1288800000 BUDGET YEAR 2007 BFAC 6RAN8BA000 ORGANIZATION ACB3600000 Quantity: 0 Amount: \$58,137.70 Percent: 8.65625 Subject To Funding: N Payment Address:</p> <p>CHANGES FOR LINE ITEM NUMBER 2 CLIN 002 increased by \$3,000.00 From:\$10,000.00 To:\$ 13,000.00</p> <p>CHANGES FOR DELIVERY LOCATION: A6973DQM Amount changed from \$10,000.00 to \$13,000.00</p> <p>CHANGES FOR ACCOUNTING CODE: 1288800000.2006.6RAN8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000.0000000000 .0000000000 Amount changed from \$10,000.00 to \$13,000.00 Continued ...</p>				

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>FOURTH: All other provisions of the contract remain unchanged and in full force and effect.            Delivery: 07/12/2006            Discount Terms: STANDARD NET 30            Delivery Location Code: A6973DQM            A6973DQM            6973DQ FAA AERO CENTER, AAM-500            HUMAN RES RESEARCH DIV, RM-270 CAMI            PO BOX 25082            OKLAHOMA CITY OK 731250082 US</p> <p>Mark For:            Tom Nesthus            6500 S. Macarthur Blvd.            Oklahoma City OK 73169</p> <p>Payment:            FAA AC ACCTG OFC            DOT/FAA AMZ-110            PO BOX 25710            OKLAHOMA CITY OK 73125</p> <p>FOB: Destination            Period of Performance: 07/12/2006 to 07/11/2007</p> <p>Change Item 0001 to read as follows (amount shown is the obligated amount):</p> <p>CLIN 005 Total Estimated Research Support = \$ 671,527.13</p>				
0001	<p>CLIN 6 Technical support supporting CAMI Human Research Division as identified in the TPWS requirements (Option 1) attached herein (7 pages).            for Contract No. DTFAAC-05-D-00070            Xyant Technology, Inc. Option Year 1            ISO9000: N Electronic &amp; IT: 03</p> <p>Project Data:            1206AC082110.BHRR524.AV9400.ACB3600000.25305.07/11/2006.1288800000.8BA000</p> <p>Accounting Info:            1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000            .0000000000 acct1: 1288800000 acct2: 2006 acct3: 6R4N8BA000 acct4: ACB3600000 acct            5: 25305 acct6: 61006600            Funded: \$13,174.43</p> <p>Project Data:            1204AC081110.AHRR521.AV9500.ACB3600000.25305.07/11/2006.1268800000.8AA000</p> <p>Accounting Info:            1268800000.2006.4R4N8AA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000            .0000000000 acct1: 1268800000 acct2: 2006 acct3: 4R4N8AA000 acct4: ACB3600000 acct            5: 25305 acct6: 61006600            Continued ...</p>				117,873.48

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0002/0001

PAGE OF  
4 5

NAME OF OFFEROR OR CONTRACTOR

XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Funded: \$0.00</p> <p>Project Data: 1206AC082110.BHRR532.AV9200.ACB3600000.25305.07/11/2006.1288800000.8BA000</p> <p>Accounting Info: 1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1288800000 acct2: 2006 acct3: 6R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600</p> <p>Funded: \$30,028.60</p> <p>Project Data: 1206AC082110.BHRR523.AV9300.ACB3600000.25305.07/11/2006.1288800000.8BA000</p> <p>Accounting Info: 1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1288800000 acct2: 2006 acct3: 6R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600</p> <p>Funded: \$16,532.75</p> <p>Project Data: 1206AC081110.AHRR521.AV9500.ACB3600000.25305.03/09/2007.1288800000.8AA000</p> <p>Accounting Info: 1288800000.2007.6R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1288800000 acct2: 2007 acct3: 6R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600</p> <p>Funded: \$58,137.70</p> <p>Labor Categories-----(\$ Fixed Hourly Rate Project Supervisor----- Research Assistant----- Computer Programmer----- Research Technician----- General Clerk II----- Air Traffic Control (SME)----- Pilot (SME)----- Airframe/Power plant mech(SME)-----</p> <p>Change Item 0002 to read as follows (amount shown is the obligated amount):</p> <p>TOTAL ESTIMATED \$13,000.00</p>				
0002	<p>CLIN 7 Travel and subsistence costs as defined and allowable in accordance with FAA Travel policy and provisions of the Contract. Request for travel will be requested in advance by the Contracting Officer or delegated representative, and authorized by concurrence of estimated funding.</p> <p>Xyant Technology, Inc. Option Year 1 ISO9000: N Electronic &amp; IT: 03</p> <p>Project Data: 1206AC082110.BHRR524.AV9400.ACB3600000.25305.07/11/2006.1288800000.8BA000</p> <p>Accounting Info: Continued ...</p>				3,000.00

*EXP*

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0002/0001

PAGE OF  
5 5

NAME OF OFFEROR OR CONTRACTOR

KYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600 .0000000000 acct1: 1288800000 acct2: 2006 acct3: 6R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$3,000.00				

**TASKED PERFORMANCE WORK STATEMENT**  
for  
**Contract No. DTFAAC-05-D-00070**  
**Xyant Technology, Inc.**  
**Option Year 1**  
**(revision 1)**

**1. INTRODUCTION:**

This effort requires contract support to provide the CAMI Aerospace Human Factors Research Division with administrative and technical support to assist in the conduct of research necessary to meet mission requirements. The administrative and technical support shall include the conduct and assistance with many tasks associated with database development and administration, software revision and maintenance, survey development, distribution, transcription, scanning paper returns, data analysis, quality control, and report generation, as well as assisting in laboratory and field experiments regarding AAM-500s Human Factors missions requirements. The contract support shall be responsible for management and supervision of all contract personnel (including subject matter experts) who are assigned to complete tasks issued within the scope of the technical requirements of the Division.

**2. APPLICABLE ORDERS, REGULATIONS, FORMS AND MANUALS:**

The applicable documentation is identified

**3. ADMINISTRATION:**

Requiring Office: AAM-500 Human Factors Research Division

Period of Performance: Date of Award through July 11, 2007

Place of Performance: Contract services will be conducted at CAMI Human Factors Research Lab.

COTR for this work will be:

Thomas E. Nesthus, Ph.D.  
Human Factors Research Lab, AAM-500  
6500 MacArthur Blvd  
Oklahoma City, OK 73125  
Phone: (405) 954-6297

**4. GOVERNMENT FURNISHED PROPERTY**

All resources for conducting Delivery Order requirements will be provided by the government. Including facilities, office work space, general office equipment, phones, PCs, etc.

**5. SCOPE OF WORK:** The contractor shall provide quality technical, analytical, planning, and administrative support. The contractor shall furnish and make available all personnel, and services necessary to assist AAM-500 in accomplishing its mission. As directed by the FAA, the contractor may also be required to interface with various FAA and U.S. Government organizations.

4/23/07

**5.1 Technical Support Project Requirements**

The contractor shall provide all of the necessary technical operations and administrative support such as: planning, organizing, managing, coordinating, and tracking (e.g., report management, cost/schedule/performance measurement, risk management, component procurement management, system engineering management, resource management, data management) required to perform all of the project tasks successfully as required in accordance with this SOW.

Project Accounting Codes	Project/Task No.	Task Names associated with Projects 1, 2, 3, 4	TOTAL EST HRS	EST Travel Costs	SUPPORT PROGRESS & DELIVERABLES
HRR-521	1 a, b, c, d	Nat'l Pilot Survey DPE Oversight TAA HFACS	1589		LOE, monthly/quarterly progress updates, database, summary reports
HRR-521	1 e	ASRS HFACS	305		LOE, monthly/quarterly progress updates, database
HRR-521	1 f	Color Vision II	760 hrs		LOE, monthly/quarterly progress updates, scanned references, database
HRR-521	1 g	Rudder Skills Survey	390		LOE, monthly/quarterly progress updates, aggregate reports
HRR-521	1h	EDT Survey	681 hrs		LOE, monthly/quarterly progress updates, assist in survey development, administration, data management, analysis and summary report writing
HRR-521	1i	Maint ASI Survey	779 hrs		LOE, monthly/quarterly progress updates, assist in survey development, administration, data management, analysis and summary report writing
Total for HRR-521			<i>TTL 4504</i>		

4/23/07

HRR-522	2 a	ATCARS	274		LOE, monthly/quarterly progress updates, scenario-test feedback
HRR-522	2 b, c	Color Vision I Display Complexity	500		LOE, monthly/quarterly progress updates, database output, edited reports
HRR-522	2 d	Flight Strip	1076 hrs		LOE, monthly/quarterly progress updates, process development, transcription & QA
Total for HRR-522			1850 hrs		
HRR-523	3 a, b	ATSAT 16 PFs	412		LOE, monthly/quarterly progress updates, tabulated database
HRR-523	3 c	MMPI	455 hrs		LOE, monthly/quarterly progress updates, develop procedures for scoring test, database design and update
Total for HRR-523			867 hrs		
HRR-524	4 a	Radar SA Analysis	84		LOE, monthly/quarterly progress updates, coded data
HRR-524	4 b, c, d, e	EAS '06 EAS '07 Follow-up Separation Survey Pilot Satisfaction	6105	\$2,000	LOE, monthly/quarterly progress updates, print packages, coded database, report macros/templates, draft reports
HRR-524	4 f, g, h, i, j, k	eJANUS Supervisor Trng NATPRO OE DB App/Mgt Historic 7210-3 Temporal Markers	2821	\$3,000	LOE, monthly/quarterly progress updates, Access database, draft reports, discrepancy reports (as needed), observational code database, transcription reports
HRR-524	4 l	ATC/Pilot Communication	2493	\$8,000	LOE, monthly/quarterly progress updates, transcription reports, database
HRR-524	4 m, n	Div Pop-up Support Reference Mgr DB	722		LOE, edited reports, reference database
HRR-524	4 p	SAR Tape Download Project	320 hrs		LOE, monthly/quarterly progress updates, conversion and transfer of

4/23/07

					NAS SAR data for analysis
<b>Total for HRR-524</b>			<i>12,545 hrs</i>		

## 5.2 Technical Support Project Requirements by Task/Sub number and Subtitle:

**5.2.1 a. National Pilot Survey** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

Newly certified GA ASEL private pilots from all Flight Standards District Offices (FSDOs) across FAA regions will receive an anonymous and voluntary survey to complete and return by mail. Contract support will mail traditionally registered GA ASEL pilots a survey to their home addresses. In an attempt to maximize response rates, the survey will have an attached cover letter explaining the purpose of the survey asking for their feedback regarding their flight training and testing experiences. The Contractor shall provide personnel to assist in: distribution of surveys, process and scan survey data, coding/transcription, and summarizing results of analysis for development of reports. The contractor will scan returned surveys into a database through the use of Teleform software. Summary reports will be created for each region that has at least eight respondents. In addition, an overall report will be created.

**5.2.1 b. Designated Pilot Examiner Survey** - Level of Effort (LOE) From date of award through 11 July 2007; Labor not to exceed obligated funding on the Designated Contract Line Item.

A Designated Pilot Examiner survey will be administered to all Designated Pilot Examiners across the United States. There are approximately 1,066 private persons designated as pilot examiners by the FAA Administrator. Contract support will mail all DPEs a survey with a postage-paid return envelope. Returned surveys will be scanned into a database through the use of Teleform software. Summary data reports (i.e., item by item frequency distributions) for each region with at least eight respondents will be developed. The Contractor shall provide personnel to assist in: distribution of surveys, process and scan survey data, and summarizing results of analysis for development of reports. The contractor will also provide an overall data summary report.

**5.2.1 c. Technically Advanced Aircraft (TAA) Surveys** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in: distribution surveys; test data entry, processing and summarizing results of analysis for development of reports.

**5.2.1 d. Human Factors Accident Classification System (HFACS)** -The Contractor shall provide personnel to assist with the downloading of NTSB accident reports, assimilation of the data, hiring and training of pilot subject matter experts, coordination and assimilation of SME analysis data, technical support in data conversion, verification, and drafting summary reports.

**5.2.1 e. ASRS HFACS** -The Contractor shall provide personnel to assist with processing methodological development and testing of ASRS data utilizing HFACS procedures; developing

4/23/07

databases, along with supporting documentation associated with those functions. A copy of the database will then form the deliverable.

**5.2.1 f. Color Vision II-** Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to prepare a "Test Administrator's handbook," prepare 90 subject file portfolios which includes ID-labeled forms, answer sheets, questionnaires, etc., and to prepare a software--command file to run the Color Weather Radar Test (CWRT) bypassing the original operating program.

**5.2.1 g. Rudder Skills Survey-** Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the in the production of reports for the Rudder Skills survey (10-20 reports at 2-3 levels of aggregation on a single report template).

**5.2.1 h. EDT Survey-** Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the survey design and the content of the survey and, web hosting, sampling and online distribution, data handling/analysis, report development/production, and comment sanitizing.

**5.2.1 i. Maintenance ASI Survey-** Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the survey design and the content of the survey and, web hosting, sampling and online distribution, data handling/analysis, report development/production, and comment sanitizing.

**5.2.2 a. ATCARS -** Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the testing of new ATC simulation scenarios, train and serve as ghost-pilots during simulation participation.

**5.2.2 b. ATC Color Vision I-** Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in running color vision experiments, performing data entry, assist in development and editing of scientific reports.

**5.2.2 c. Display Complexity in ATC s-** Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in running cognitive and visual experiments, performing data entry, assist in development and editing of scientific reports.

4/23/07

**5.2.2 d. Flight Strip Study-** Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in development of a data collection process, transcription and time extraction of 20 test scenarios, QA of transcription data and data entry.

**5.2.3 a. ATSAT-** Pre-employment Psych/Med data input - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the preparation of information packets for classes; proctoring class testing; scanning, processing, and quality assurance of ATSAT written data.

**5.2.3 b. 16 PFs-** Pre-employment Psych/Med data input - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the development of a tabulation database, and the inputting of data from the 16-Personality Factor survey.

**5.2.3 c. MMPI-** Level of Effort (LOE) from date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the development of data collection/processing/storage procedures and methods for the ATCS pre-employment Minnesota Multi-phasic Personality Inventory (MMPI) assessment. This task also includes scoring/reporting, input of scores, and update of the database.

**5.2.4 a. Radar Display Situation Awareness OEs-** Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in SATORI analysis and coding of data pertinent to OE events; coordination of analysis of ATC-SME observational data.

**5.2.4 b. EAS 2006** -Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with paper and on-line survey development, distribution of survey packages, scanning paper returns, transcribing and sanitizing paper and on-line comments, combining & coding comments, combining response data & QA, developing data aggregation, developing databases, developing report macros & templates, generating draft reports, quality checking reports, and delivering reports, QA of briefing materials along with supporting documentation associated with those functions.

**5.2.4 c. EAS 2007 Follow-up** -Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with QA of briefing materials; development and transcribing of coded comments data files; comment summary report development; data report development and templates; print packaging; and follow-up survey data file management.

4/23/07

**5.2.4 d. Separation Survey** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with survey scanning/processing, QA of data; database analyses, drafting comments reports, comments analyses, and assistance in *summary* report drafting.

**5.2.4 e. Pilot Satisfaction Survey** -Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with snap design of paper survey; print packaging and distribution of surveys; pre- and post survey postcard distribution; scanning and processing of paper returns; transcribing and sanitizing paper and on-line comments, combining & coding comments, item report design; generating draft reports and quality assessment of those reports.

**5.2.4 f. eJANUS** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the development of a complex Access database, management and maintenance of this database, merging and verifying database elements, directed analysis of these data, entry of JANUS survey feedback data, and draft summary report development. Specific tasks include: Merged database of causal factors; entry of database survey responses; draft report writing assistance.

**5.2.4 g. Supervisor Training** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with creating, updating, and maintaining a relational database regarding recommendations for ATC supervisory training practices and to develop periodic summary reports. Specific activities include: Database of training packages; Database of supervisory expectations; Discrepancy analysis; Discrepancy report – draft; Database of journal entries; Database of observational codes; Draft report of journal entries; Draft report of observational codes

**5.2.4 h. NATPRO** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to, assist in periodic database extraction and analysis, and assistance in report writing.

**5.2.4 i. OE Database Application & Mgt** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in establishing a relational database of ATC Operational Errors (OE), shall merge and update the database as data becomes available from the field, maintain and verify data entry, create data subset for analysis and report writing; Update database; Draft report writing assistance.

4/23/07

**5.2.4 j. Historic 7210-3 Documentation & Database Documentation** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in establishing, maintaining, merging, updating and verifying data entry, as well as creating data subsets for analysis and report writing. Other specific activities shall include: Database - fields on historic form; Database - historical OE data; Database - cleaned historical OE data; Report on comparison of form fields; Report on comparison of historical data; Summary report of form and data comparisons.

**5.2.4 k. Temporal Markers** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in ATC voice transcription, coordination of research materials, analysis of data and report writing. Other task activities shall include: Design, testing, and deployment of data collection interface, transcription of voice tapes; data coding package development; database entry of temporal markers; reports from database analysis.

**5.2.4 l. ATC/Native-Foreign Pilot Communications** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in ATC/Pilot voice tape transcription and data base construction; transcription of native/foreign pilot interviews and entry into data base format; coordination of coding and analysis, SMEs to assist with interviewing participants, and assistance in report writing.

**5.2.4 m. AAM-500 Div. Pop-up Support Activities**-Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item. Activities will include the following:

*Reproduction of Research Materials* -The Contractor shall provide upon request, hard copies and/or electronic reproductions of books, journal articles, and other customer research materials. These products will be requested and delivered within 2 business days for each item in need of reproduction up to 84,000 unbound pages for photocopying or 6,300 bound pages for scanning or an equivalent combination of bound and unbound pages photocopied and/or scanned.

*Shredding of Research Data/Materials* - The Contractor shall provide upon request, shredded research materials (if necessary, up to 20,000 pages within 2 business days).

*Software Testing and Support* - The Contractor shall provide upon request, personnel to assist in writing, setting up, and testing software programs designed for training, data collection, and/or data analysis.

*Technical Editing* - The Contractor shall provide upon request, personnel to proofread, edit, and/or co-author 1 technical manuscript.

**5.2.4 n. Reference Manager Databases** - The Contractor shall provide personnel to assist in the maintenance and management of a centralized Reference Manager database. Upon request, the

4/23/07

contractor shall provide personnel to conduct literature searches, make additions to the centralized database, extract topic databases, and provide supporting documentation within 10 business days.

**5.2.4 o. AME Survey - Level of Effort (LOE)** From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with survey scanning/processing, QA of data; database analyses, drafting comments reports, comments analyses, and assistance in summary report drafting.

**5.2.4 p. SAR-Tape Download Project - Level of Effort (LOE)** From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to conduct the conversion and transfer of NAS SAR data (specifically, Data Analysis and Reduction Tool [DART] and National Track Analysis Program [NTAP] reports) into a format and platform conducive to statistical analysis.

**6.0 ACCEPTANCE:** Contract progress and deliverables associated with these tasks will be reviewed and accepted/rejected by each CAMI Principle Investigator requesting the contract support and by the COTR in accordance with monthly progress and delivery of pertinent products.



SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS OFFEROR TO COMPLETE BLOCKS 12, 16, 22, 23, & 28		1. REQUISITION NUMBER AC-06-03542		PAGE OF 1 3	
2. CONTRACT NO. DTFAAC-05-D-00070		3. AWARD/EFFECTIVE DATE 08/11/06		4. ORDER NUMBER 0002	
7. FOR SOLICITATION INFORMATION CALL		a. NAME Avis Franklin		b. TELEPHONE NUMBER (No collect calls) 405-954-7836	
9. ISSUED BY AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125		10. THIS ACQUISITION IS <input checked="" type="checkbox"/> UNRESTRICTED <input type="checkbox"/> SET ASIDE % FOR <input type="checkbox"/> SMALL BUSINESS SIC: 541710 SIZE STANDARD: 500		5. SOLICITATION NUMBER	
14. DELIVER TO A6973DQM 6973DQM FAA AERO CENTER, AAM-500 HUMAN RES RESEARCH DIV, RM-270 CAMI PO BOX 25082 OKLAHOMA CITY OK 731250082 US		15. ADMINISTERED BY AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125		8. OFFER DUE DATE/LOCAL TIME See Schedule	
16a. CONTRACTOR/OFFEROR XYANT TECHNOLOGY INC. 2500 VAN BUREN DRIVE STE 2624 NORMAN OK 73072 TELEPHONE NO. 405-447-8337		17a. PAYMENT WILL BE MADE BY FAA AC ACCTG OFC DOT/FAA AMZ-110 PO BOX 25710 OKLAHOMA CITY OK 73125		11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE	
<input type="checkbox"/> 16b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER		<input type="checkbox"/> 17b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 17a. UNLESS BLOCK BELOW IS CHECKED. <input type="checkbox"/> SEE ADDENDUM		12. DISCOUNT TERMS See Schedule	
18. ITEM NO.		19. SCHEDULE OF SUPPLIES/SERVICES		20. QUANTITY	
		Delivery: 07/12/2006 Discount Terms: STANDARD NET 30 Continued ...		21. UNIT	
				22. UNIT PRICE	
				23. AMOUNT	
24. ACCOUNTING AND APPROPRIATION DATA See schedule				25. TOTAL AWARD AMOUNT (For Contract Authority Use Only) \$563,753.65	

26. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.		27. AWARD OF CONTRACT: REFERENCE OFFER <input checked="" type="checkbox"/> DATED _____ YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:			
28a. SIGNATURE OF OFFEROR/CONTRACTOR		29a. CONTRACT AUTHORITY (SIGNATURE OF CONTRACTING OFFICER) <i>Avis Franklin</i>			
28b. NAME AND TITLE OF SIGNER (Type or Print)		28c. DATE SIGNED		29b. NAME OF CONTRACTING OFFICER (Type or Print) Avis Franklin	
30a. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> RECEIVED <input type="checkbox"/> INSPECTED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED		31. SHIP NUMBER		32. VOUCHER NUMBER	
32a. SIGNATURE OF AUTHORIZED CONTRACT AUTHORITY REPRESENTATIVE		32c. DATE		33. AMOUNT VERIFIED CORRECT FOR	
39a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT		39c. DATE		34. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	
39b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		40a. RECEIVED BY (Print)		35. CHECK NUMBER	
		40b. RECEIVED AT (Location)		36. PAID BY	
		40c. DATE RECD (YY/MM/DD)		40d. TOTAL CONTAINERS	

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0002

PAGE 2 OF 3

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Mark For: Tom Nesthus 6500 S. Macarthur Blvd. Oklahoma City OK 73169 Period of Performance: 07/12/2006 to 07/11/2007  CLIN 006 Total Estimated Research Support = \$ 535,753.65				
0001	CLIN 6 Technical support supporting CAMI Human Research Division as identified in the TPWS requirements (Option 1) attached herein (7 pages). for Contract No. DTFAAC-05-D-00070 Xyant Technology, Inc. Option Year 1 ISO9000: N Electronic & IT: 03 Project Data: 1206AC082110.BHRR524.AV9400.ACB3600000.25305.07/11/2006.1288800000.8BA000 Accounting Info: 1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1288800000 acct2: 2006 acct3: 6R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$416,442.93 Project Data: 1204AC081110.AHRR521.AV9500.ACB3600000.25305.07/11/2006.1268800000.8AA000 Accounting Info: 1268800000.2006.4R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1268800000 acct2: 2006 acct3: 4R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$102,618.53 Project Data: 1206AC082110.BHRR522.AV9200.ACB3600000.25305.07/11/2006.1288800000.8BA000 Accounting Info: 1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1288800000 acct2: 2006 acct3: 6R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$24,163.45 Project Data: 1206AC082110.BHRR523.AV9300.ACB3600000.25305.07/11/2006.1288800000.8BA000 Accounting Info: 1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1288800000 acct2: 2006 acct3: 6R4N8BA000 acct4: ACB3600000 acct 5: 25305 acct6: 61006600 Funded: \$10,528.74  Continued ...				553,753.65

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0002

PAGE OF  
3 3

NAME OF OFFEROR OR CONTRACTOR  
KYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Labor Categories-----(\$ Fixed Hourly Rate Project Supervisor----- Research Assistant----- Computer Programmer----- Research Technician----- General Clerk II----- Air Traffic Control (SME)----- Pilot (SME)----- Airframe/Power plant mech(SME)-----				
0002	CLIN 7 Travel and subsistence costs as defined and allowable in accordance with FAA Travel policy and provisions of the Contract. Request for travel will be requested in advance by the Contracting Officer or delegated representative, and authorized by concurrence of estimated funding. Kyant Technology, Inc. Option Year 1 ISO9000: N Electronic & IT: 03 Project Data: 1206AC082110.BHRR524.AV9400.ACB3600000.25305.07/11/2006.1288800000.8BA000 Accounting Info: 1288800000.2006.6R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000 .0000000000 acct1: 1288800000 acct2: 2006 acct3: 6R4N8BA000 acct4: ACB3600000 acct5: 25305 acct6: 61006600  Total amount of award: \$563,753.65.				10,000.00

**TASKED PERFORMANCE WORK STATEMENT**

for

Contract No. DTFAAC-05-D-00070

Kyant Technology, Inc.

Option Year 1

**1. INTRODUCTION:**

This effort requires contract support to provide the CAMI Aerospace Human Factors Research Division with administrative and technical support to assist in the conduct of research necessary to meet mission requirements. The administrative and technical support shall include the conduct and assistance with many tasks associated with database development and administration, software revision and maintenance, survey development, distribution, transcription, scanning paper returns, data analysis, quality control, and report generation, as well as assisting in laboratory and field experiments regarding AAM-500s Human Factors missions requirements. The contract support shall be responsible for management and supervision of all contract personnel (including subject matter experts) who are assigned to complete tasks issued within the scope of the technical requirements of the Division.

**2. APPLICABLE ORDERS, REGULATIONS, FORMS AND MANUALS:**

The applicable documentation is identified

**3. ADMINISTRATION:**

Requiring Office: AAM-500 Human Factors Research Division

Period of Performance: Date of Award through July 11, 2007

Place of Performance: Contract services will be conducted at CAMI Human Factors Research Lab.

COTR for this work will be:

Thomas E. Nesthus, Ph.D.  
Human Factors Research Lab, AAM-500  
6500 MacArthur Blvd  
Oklahoma City, OK 73125  
Phone: (405) 954-6297

**4. GOVERNMENT FURNISHED PROPERTY**

All resources for conducting Delivery Order requirements will be provided by the government. Including facilities, office work space, general office equipment, phones, PCs, etc.

**5. SCOPE OF WORK:** The contractor shall provide quality technical, analytical, planning, and administrative support. The contractor shall furnish and make available all personnel, and services necessary to assist AAM-500 in accomplishing its mission. As directed by the FAA, the contractor may also be required to interface with various FAA and U.S. Government organizations.

7/12/06

**5.1 Technical Support Project Requirements**

The contractor shall provide all of the necessary technical operations and administrative support such as: planning, organizing, managing, coordinating, and tracking (e.g., report management, cost/schedule/performance measurement, risk management, component procurement management, system engineering management, resource management, data management) required to perform all of the project tasks successfully as required in accordance with this SOW.

Project Accounting Codes	Project/Task No.	Task Names associated with Projects 1, 2, 3, 4	Total EST Hrs and Costs	EST Travel Costs	SUPPORT PROGRESS & DELIVERABLES
HRR-521	1 a, b, c, d	Nat'l Pilot Survey DPE Oversight TAA HFACS	1589		LOE, monthly/quarterly progress updates, database, summary reports
HRR-521	1 e	ASRS HFACS	305		LOE, monthly/quarterly progress updates, database
HRR-521	1 f	Color Vision II	500		LOE, monthly/quarterly progress updates, scanned references, database
HRR-521	1 g	Rudder Skills Survey	390		LOE, monthly/quarterly progress updates, aggregate reports
HRR-521			2784 Hrs \$102,618.53		
HRR-522	2 a	ATCARS	274		LOE, monthly/quarterly progress updates, scenario-test feedback
HRR-522	2 b, c	Color Vision I Display Complexity	500		LOE, monthly/quarterly progress updates, database output, edited reports
HRR-522			774 Hrs \$24,163.45		
HRR-523	3 a, b	ATSAT 16 PFs	412		LOE, monthly/quarterly progress updates, tabulated database
HRR-523			412 Hrs \$10,528.74		
HRR-524	4 a	Radar SA Analysis	84		LOE, monthly/quarterly progress updates, coded data
HRR-524	4 b, c, d, e	EAS '06 EAS '07 Follow-up Separation Survey Pilot Satisfaction	6105	\$2,000	LOE, monthly/quarterly progress updates, print packages, coded database, report macros/templates, draft reports
HRR-524	4 f, g, h, i, j, k	eJANUS Supervisor Trng NATPRO OE DB App/Mgt	2821		LOE, monthly/quarterly progress updates, Access database, draft reports, discrepancy reports (as

7/12/06

		Historic 7210-3 Temporal Markers			needed), observational code database, transcription reports
HRR-524	4 i	ATC/Pilot Communication	2493	\$8,000	LOE, monthly/quarterly progress updates, transcription reports, database
HRR-524	4 m, n	Div Pop-up Support Reference Mgr DB	722		LOE, edited reports, reference database
HRR-524			12,225 Hrs \$426,442.93	\$10,000	

## 5.2 Technical Support Project Requirements by Task/Sub number and Subtitle:

**5.2.1 a. National Pilot Survey** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

Newly certified GA ASEL private pilots from all Flight Standards District Offices (FSDOs) across FAA regions will receive an anonymous and voluntary survey to complete and return by mail. Contract support will mail traditionally registered GA ASEL pilots a survey to their home addresses. In an attempt to maximize response rates, the survey will have an attached cover letter explaining the purpose of the survey asking for their feedback regarding their flight training and testing experiences. The Contractor shall provide personnel to assist in: distribution of surveys, process and scan survey data, coding/transcription, and summarizing results of analysis for development of reports. The contractor will scan returned surveys into a database through the use of Teleform software. Summary reports will be created for each region that has at least eight respondents. In addition, an overall report will be created.

**5.2.1 b. Designated Pilot Examiner Survey** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

A Designated Pilot Examiner survey will be administered to all Designated Pilot Examiners across the United States. There are approximately 1,066 private persons designated as pilot examiners by the FAA Administrator. Contract support will mail all DPEs a survey with a postage-paid return envelope. Returned surveys will be scanned into a database through the use of Teleform software. Summary data reports (i.e., item by item frequency distributions) for each region with at least eight respondents will be developed. The Contractor shall provide personnel to assist in: distribution of surveys, process and scan survey data, and summarizing results of analysis for development of reports. The contractor will also provide an overall data summary report.

**5.2.1 c. Technically Advanced Aircraft (TAA) Surveys** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in: distribution surveys; test data entry, processing and summarizing results of analysis for development of reports.

7/12/06

**5.2.1 d. Human Factors Accident Classification System (HFACS)** -The Contractor shall provide personnel to assist with the downloading of NTSB accident reports, assimilation of the data, hiring and training of pilot subject matter experts, coordination and assimilation of SME analysis data, technical support in data conversion, verification, and drafting summary reports.

**5.2.1 e. ASRS HFACS** -The Contractor shall provide personnel to assist with processing methodological development and testing of ASRS data utilizing HFACS procedures; developing databases, along with supporting documentation associated with those functions. A copy of the database will then form the deliverable.

**5.2.1 f. Color Vision II**- Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in running color vision experiments and performing data entry; data processing; report writing; scanning reference publications and providing database updates.

**5.2.1 g. Rudder Skills Survey**- Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in the in the production of reports for the Rudder Skills survey (10-20 reports at 2-3 levels of aggregation on a single report template).

**5.2.2 a. ATCARS** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the testing of new ATC simulation scenarios, train and serve as ghost-pilots during simulation participation.

**5.2.2 b. ATC Color Vision I**- Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in running color vision experiments, performing data entry, assist in development and editing of scientific reports.

**5.2.2 c. Display Complexity in ATC s**- Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in running cognitive and visual experiments, performing data entry, assist in development and editing of scientific reports.

**5.2.3 a. ATSAT**- Pre-employment Psych/Med data input - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the preparation of information packets for classes; proctoring class testing; scanning, processing, and quality assurance of ATSAT written data.

**5.2.3 b. 16 PFs**- Pre-employment Psych/Med data input - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the development of a tabulation database, and the inputting of data from the 16-Personality Factor survey.

5.2.4 a. Radar Display Situation Awareness OEs- Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in SATORI analysis and coding of data pertinent to OE events; coordination of analysis of ATC-SME observational data.

5.2.4 b. EAS 2006 -Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with paper and on-line survey development, distribution of survey packages, scanning paper returns, transcribing and sanitizing paper and on-line comments, combining & coding comments, combining response data & QA, developing data aggregation, developing databases, developing report macros & templates, generating draft reports, quality checking reports, and delivering reports, QA of briefing materials along with supporting documentation associated with those functions.

5.2.4 c. EAS 2007 Follow-up -Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with QA of briefing materials; development and transcribing of coded comments data files; comment summary report development; data report development and templates; print packaging; and follow-up survey data file management.

5.2.4 d. Separation Survey - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with survey scanning/processing, QA of data; database analyses, drafting comments reports, comments analyses, and assistance in summary report drafting.

5.2.4 e. Pilot Satisfaction Survey -Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with snap design of paper survey; print packaging and distribution of surveys; pre- and post survey postcard distribution; scanning and processing of paper returns; transcribing and sanitizing paper and on-line comments, combining & coding comments, item report design; generating draft reports and quality assessment of those reports.

5.2.4 f. eJANUS - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with the development of a complex Access database, management and maintenance of this database, merging and verifying database elements, directed analysis of these data, entry of JANUS survey feedback data, and draft summary report development.

7/12/06

Specific tasks include: Merged database of causal factors; entry of database survey responses; draft report writing assistance.

**5.2.4 g. Supervisor Training** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist with creating, updating, and maintaining a relational database regarding recommendations for ATC supervisory training practices and to develop periodic summary reports. Specific activities include: Database of training packages; Database of supervisory expectations; Discrepancy analysis; Discrepancy report – draft; Database of journal entries; Database of observational codes; Draft report of journal entries; Draft report of observational codes

**5.2.4 h. NATPRO** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to, assist in periodic database extraction and analysis, and assistance in report writing.

**5.2.4 i. OE Database Application & Mgt** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in establishing a relational database of ATC Operational Errors (OE), shall merge and update the database as data becomes available from the field, maintain and verify data entry, create data subset for analysis and report writing; Update database; Draft report writing assistance.

**5.2.4 j. Historic 7210-3 Documentation & Database Documentation** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in establishing, maintaining, merging, updating and verifying data entry, as well as creating data subsets for analysis and report writing. Other specific activities shall include: Database - fields on historic form; Database - historical OE data; Database – cleaned historical OE data; Report on comparison of form fields; Report on comparison of historical data; Summary report of form and data comparisons.

**5.2.4 k. Temporal Markers** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in ATC voice transcription, coordination of research materials, analysis of data and report writing. Other task activities shall include: Design, testing, and deployment of data collection interface, transcription of voice tapes; data coding package development; database entry of temporal markers; reports from database analysis.

**5.2.4 l. ATC/Native-Foreign Pilot Communications** - Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item.

The Contractor shall provide personnel to assist in ATC/Pilot voice tape transcription and data base construction; transcription of native/foreign pilot interviews and entry into data base format;

7/12/06

coordination of coding and analysis, SMEs to assist with interviewing participants, and assistance in report writing.

5.2.4 m. AAM-500 Div. Pop-up Support Activities-Level of Effort (LOE) From date of award through 11 July 2007, Labor not to exceed obligated funding on the Designated Contract Line Item. Activities will include the following:

*Reproduction of Research Materials* -The Contractor shall provide upon request, hard copies and/or electronic reproductions of books, journal articles, and other customer research materials. These products will be requested and delivered within 2 business days for each item in need of reproduction up to 84,000 unbound pages for photocopying or 6,300 bound pages for scanning or an equivalent combination of bound and unbound pages photocopied and/or scanned.

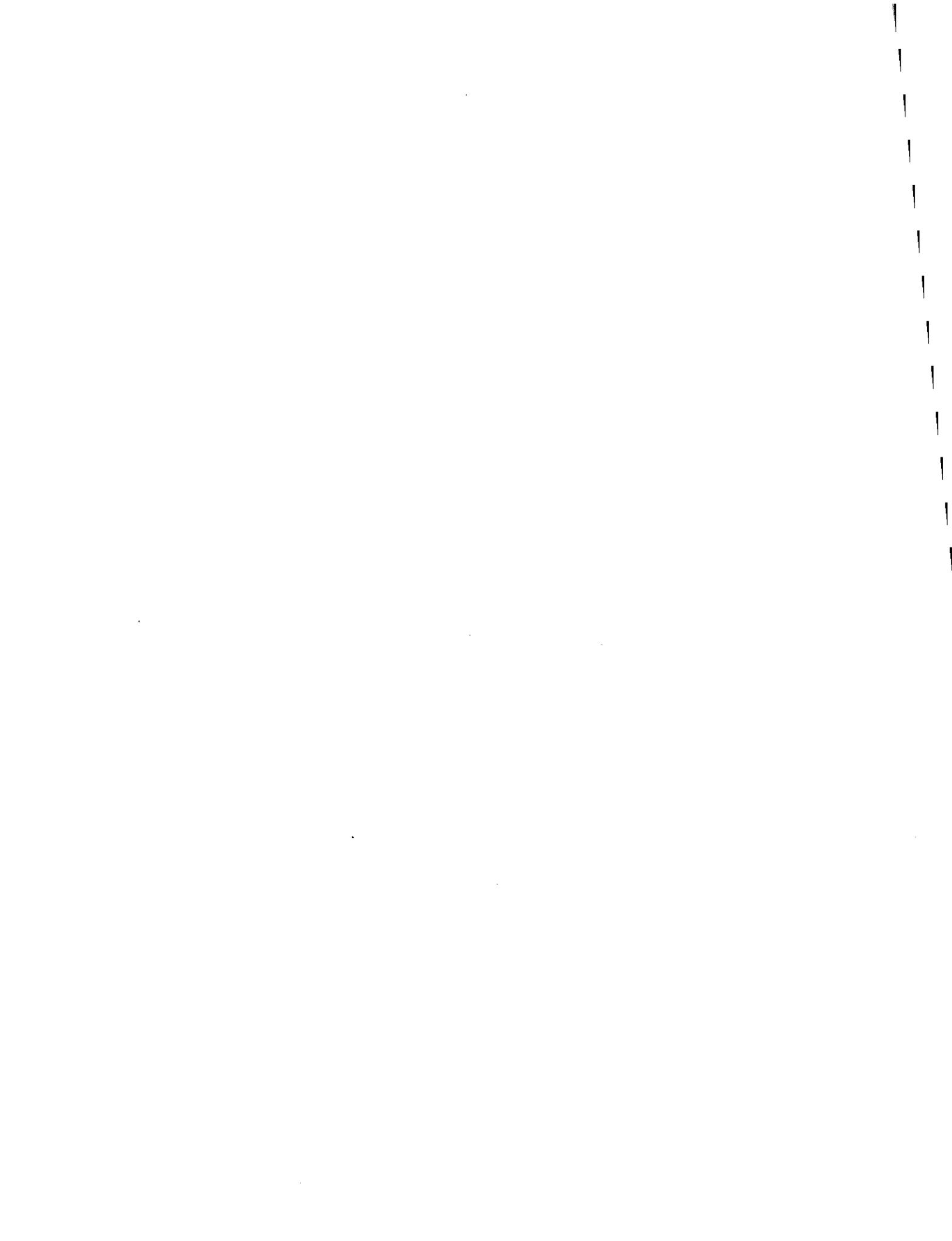
*Shredding of Research Data/Materials* - The Contractor shall provide upon request, shredded research materials (if necessary, up to 20,000 pages within 2 business days).

*Software Testing and Support* - The Contractor shall provide upon request, personnel to assist in writing, setting up, and testing software programs designed for training, data collection, and/or data analysis.

*Technical Editing* - The Contractor shall provide upon request, personnel to proofread, edit, and/or co-author 1 technical manuscript.

5.2.4 n. Reference Manager Databases - The Contractor shall provide personnel to assist in the maintenance and management of a centralized Reference Manager database. Upon request, the contractor shall provide personnel to conduct literature searches, make additions to the centralized database, extract topic databases, and provide supporting documentation within 10 business days.

6.0 **ACCEPTANCE:** Contract progress and deliverables associated with these tasks will be reviewed and accepted/rejected by each CAMI Principle Investigator requesting the contract support and by the COTR in accordance with monthly progress and delivery of pertinent products.



2. AMENDMENT/MODIFICATION NO. 0007	3. EFFECTIVE DATE 08/25/2008	4. REQUISITION/PURCHASE REQ. NO. AC-08-02683	5. PROJECT NO. (if applicable)
6. ISSUED BY AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125	CODE AMQ0310-ARC	7. ADMINISTERED BY (If other than Item 6) AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125	CODE AMQ310-ARC

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)  XYANT TECHNOLOGY INC 2600 VAN BUREN DRIVE STE 2624 NORMAN OK 73072	(x) 9A. AMENDMENT OF SOLICITATION NO.
	9B. DATED (SEE ITEM 11)
	x 10A. MODIFICATION OF CONTRACT/ORDER NO. DTFAAC-05-D-00070 0001 10B. DATED (SEE ITEM 13) 07/22/2005
CODE 100197007	FACILITY CODE

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  is not extended.  
 Offers 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 number. FAILURE OF YOUR ACKNOWLEDGEMENT 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.) Net Decrease: \$-130,762.51  
 See Schedule

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(b) <input type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF:
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not,  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.)

Mod 0007 This modification is issued to decrease remaining funds from the base year as requested by AAM-500 Program Office.  
 \*\*\*\*\*  
 Modification 0006 is issued to acknowledge the increased wages based upon incorporation of the applicable Wage determination in the Contract by mutual agreement.  
  
 FIRST: The revised composite rates of Part 1 - Schedule B are identified as below based upon Wage Determination 94-2431 rev 24 dated 6/24/2005 applicable to the Contract base year 7/12/2005 through 7/11/2006.

LABOR	HRS	RATE	OT
-------	-----	------	----

Continued ...  
 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) Avis Franklin
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED
15B. CONTRACTOR/OFFEROR	16B. CONTRACT AUTHORITY  (Signature of Contracting Officer)
	16C. DATE SIGNED

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Project Supervisor 1880				<i>Exp 4</i>
	Research Assistant 3760				
	Computer Programmer 470				
	Research Technician 5640				
	General Clerk II 2820				
	Air Traffic Control (SME) 650				
	Pilot (SME) 650				
	Airframe/Power plant Mech(SME) 650				
<p>Research Assistant, and research Technician are conformed positions, increased by 1.79%, the average escalation of all positions listed under Technical Operations.</p>					
<p>All other positions subject to the Act increased by Health and Welfare (H&amp; W) increase from 2.59 to 2.87.</p>					
<p>SECOND: This modification hereby acknowledges as a result of the Wage determination 94-2431 the increase to the base year for the total amount due \$13,895.00, for the period 12 July 2005 to the present (11 July 2006), for categories identified above. No other charges are due based upon the wage determination 94-2431 rev. 24.</p>					
<p>THIRD: There is no obligation of funds associated with this modification, only the total estimated value increases from \$ 660, 600.97 to \$674,496.00 (base year).</p>					
<p>FOURTH: All other terms and conditions remain unchanged and in full force and affect.</p>					
<p>***** Modification 005 adds funding to facilitate support services through the end of the performance period (07/11/2006). Mutual agreement acknowledged by Xyant response to AMQ/ACO email dated 4/12/06 incorporated by reference).</p>					
<p>This modification increases funding for line item 0001 Research Technical Support to facilitate the continued services described in the revised PWS dated 4/11/2006 hereby incorporated and attached. The anticipated increase in hours for performance of AAM-510 HRR521 projects (identified in PWS paragraphs 2a, 2b, and 3a) have been estimated as follows:</p>					
<p>CHANGES FOR LINE ITEM NUMBER: 001 increased by \$25,031.57 from: \$625,569.00 to: \$650,600.57</p>					
<p>CHANGES FOR LINE ITEM NUMBER: 002 REMAINS UNCHANGED Obligated amount is \$10,000.00</p>					
<p>Continued ...</p>					

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Total obligated amount for this modification: \$25,031.57 New Total obligated Amount for this Award: \$660,600.97				
	CHANGES FOR DELIVERY LOCATION: A6973DQM Amount changed from \$625,569.40 to \$650,600.97				
	CHANGES FOR ACCOUNTING CODE: 1278800000.2006.5R4N8AA000.ACB3600000.25305.61006600.000000000000.0000000000.0000000000 .0000000000 Amount changed from \$38,688.50 to \$63,720.07 Percent changed from 7.1169 to 10.18593				
	All other provisions of the contract remain unchanged and in full force and effect.				
	***** * This modification (004) supercedes and replaces modification 003 (dated 2/15/06) in its' entirety to facilitate correction of an internal administrative/system error. Xyant agreement to the revised TPWS requirements (email dated 01/06/06 from Xyant/R. Vaada) is hereby incorporated by reference. This modification increases funding to support AAM-500 mission requirements as defined in the revised TPWS dated 12/20/2005, and corrects administrative errors in the original order.  The acquired services are identified in the Task Performance Work Statement attached herein and the deliverables are defined per project.  Alt. COR/COTR: TOM NESTHUS DISTR: T MOD 0007 LIST OF CHANGES:  FIRST: CLIN 0001 total estimate is hereby decreased by 120,701.50 from \$650,600.97 to \$526,899.47  CHANGES FOR DELIVERY LOCATION: A6973DQM Amount changed from \$650,600.97 to \$526,899.47  CHANGES FOR ACCOUNTING CODE: 1278800000.2005.5R4N8BA000.ACB3600000.25305.61006600.000000000000.0000000000.0000000000 .0000000000 Amount changed from \$11,503.55 to \$4,938.66 Percent changed from 2.11612 to .93731  CHANGES FOR ACCOUNTING CODE: 1278800000.2006.5R4N8BA000.ACB3600000.25305.61006600.000000000000.0000000000.0000000000 .0000000000 Continued ...				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0001/0007

PAGE OF  
4 6

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Amount changed from \$43,266.75 to \$23,149.30 Percent changed from 7.95909 to 4.39349  CHANGES FOR ACCOUNTING CODE: 1278800000.2006.5R4N8AA000.ACB3600000.25305.61006600.000000000000.000000000000.0000000000 .0000000000 Amount changed from \$63,720.07 to \$60,402.08 Percent changed from 10.18593 to 11.46368  CHANGES FOR ACCOUNTING CODE: 1278800000.2005.5R4N8BA000.ACB3600000.25305.61006600.000000000000.000000000000.0000000000 .0000000000 Amount changed from \$460,689.80 to \$366,988.63 Percent changed from 84.74573 to 69.6506  SECOND: CLIN 0002 total estimate is hereby decreased by \$7,601.01  FROM: \$10,000.00 TO: \$2,938.99 Obligated Amount for this modification: -\$7,061.01  CHANGES FOR DELIVERY LOCATION: A6973DQM Amount changed from \$10,000.00 to \$2,938.99  CHANGES FOR ACCOUNTING CODE: 1278800000.2005.5R4N8BA000.ACB3600000.25305.61006600.000000000000.000000000000.0000000000 .0000000000 Amount changed from \$10,000.00 to \$2,938.99  THIRD: As a result of part "FIRST" and "SECOND" above the total estimated value for the order is 529,838.46  Program Manager changed from Tom E Nesthus to Bob C Link Delivery: 07/25/2005 Discount Terms: STANDARD NET 30 Delivery Location Code: A6973DQM A6973DQM 6973DQ FAA AERO CENTER, AAM-500 HUMAN RES RESEARCH DIV, RM-270 CAMI PO BOX 25082 OKLAHOMA CITY OK 731250082 US  Payment: FAA AC ACCTG OFC DOT/FAA AMZ-110 PO BOX 25710 OKLAHOMA CITY OK 73125  Continued ...				

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
0001	<p>FOB: Destination                      Period of Performance: 07/25/2005 to 07/11/2006                       Change Item 0001 to read as follows (amount shown is the obligated amount):                      *****                      TOTAL ESTIMATED DOLLARS \$625,569.40                       Research Technical Support as identified in the attached revised PWS.                       ISO9000: N Electronic &amp; IT: 03                       Project Data:                      1205AC082110.BHRR524.AV9400.ACB3600000.25305.07/22/2005.1278800000.8BA000                      Accounting Info:                      1278800000.2005.5R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000                      .0000000000 acct1: 1278800000 acct2: 2005 acct3: 5R4N8BA000 acct4: ACB3600000 acct                      5: 25305 acct6: 61006600                      Funded: -\$93,701.17                      Project Data:                      1205AC082110.BHRR522.AV9200.ACB3600000.25305.07/22/2005.1278800000.8BA000                      Accounting Info:                      1278800000.2005.5R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000                      .0000000000 acct1: 1278800000 acct2: 2005 acct3: 5R4N8BA000 acct4: ACB3600000 acct                      5: 25305 acct6: 61006600                      Funded: -\$6,564.89                      Project Data:                      1205AC082110.BHRR523.AV9300.ACB3600000.25305.07/22/2005.1278800000.8BA000                      Accounting Info:                      1278800000.2005.5R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000                      .0000000000 acct1: 1278800000 acct2: 2005 acct3: 5R4N8BA000 acct4: ACB3600000 acct                      5: 25305 acct6: 61006600                      Funded: \$0.00                      Project Data:                      1205AC081110.AHRR521.AV9500.ACB3600000.25305.07/22/2005.1278800000.8AA000                      Accounting Info:                      1278800000.2005.5R4N8AA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000                      .0000000000 acct1: 1278800000 acct2: 2005 acct3: 5R4N8AA000 acct4: ACB3600000 acct                      5: 25305 acct6: 61006600                      Funded: \$0.00                      Project Data:                      1205AC082110.BHRR523.AV9300.ACB3600000.25305.02/22/2006.1278800000.8BA000                      Accounting Info:                      1278800000.2006.5R4N8BA000.ACB3600000.25305.61006600.0000000000.0000000000.0000000000                      .0000000000 acct1: 1278800000 acct2: 2006 acct3: 5R4N8BA000 acct4: ACB3600000 acct                      5: 25305 acct6: 61006600                      Funded: -\$20,117.45                      Project Data:                      Continued ...</p>				-123,701.50





AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 3
2. AMENDMENT/MODIFICATION NO. 0006	3. EFFECTIVE DATE 07/25/2006	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125	CODE AMQ0310-ARC	7. ADMINISTERED BY (If other than Item 6) AMQ-310 CONTRACTING TEAM FAA AERONAUTICAL CENTER PO BOX 25082 MPB ROOM 380 OKLAHOMA CITY OK 73125	CODE AMQ310-ARC
8. NAME AND ADDRESS OF CONTRACTOR (Name, street, county, State and ZIP Code) XYANT TECHNOLOGY INC 2600 VAN BUREN DRIVE STE 2624 NORMAN OK 73072		(X) 9A. AMENDMENT OF SOLICITATION NO.	9B. DATED (SEE ITEM 11)
CODE		FACILITY CODE	10A. MODIFICATION OF CONTRACT ORDER NO. DTFAC-05-D-00070 0001 10B. DATED (SEE ITEM 11) 07/22/2005

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of offers  is extended.  is not extended. Offers 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 number. FAILURE OF YOUR ACKNOWLEDGEMENT 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)

\$0.00

See Schedule

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

<input type="checkbox"/>	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.
<input type="checkbox"/>	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 11.
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO THE AUTHORITY OF: AMS Clause 3.10.1-14 Changes time and materials or labor hour
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor  is not.  is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

Modification 0006 is issued to acknowledge the increased wages based upon incorporation of the applicable Wage determination in the Contract by mutual agreement.

FIRST: The revised composite rates of Part 1 - Schedule B are identified as below based upon Wage Determination 94-2431 rev 24 dated 6/24/2005 applicable to the Contract base year 7/12/2005 through 7/11/2006.

LABOR	HRS	RATE	OT
Project Supervisor	1880	<del>██████████</del>	<del>██████████</del>
Research Assistant	3760	<del>██████████</del>	<del>██████████</del>
Computer Programmer	470	<del>██████████</del>	<del>██████████</del>

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as hereof are changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) SREENIVASAN RAJAPPA, PRESIDENT	15B. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Avis Franklin
15B. CONTRACTOR/OFFEROR R. Sreenivasan (Signature of person authorized to sign)	15C. DATE SIGNED 07/26/06
15B. CONTRACT AUTHORITY	15C. DATE SIGNED 7/26/06

EXPY

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED  
DTFAAC-05-D-00070/0001/0006

PAGE 2 OF 3

NAME OF OFFEROR OR CONTRACTOR  
XYANT TECHNOLOGY INC

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Research Technician 5640				<b>CRP 4</b>
	General Clerk II 2820				
	Air Traffic Control (SME) 650				
	Pilot (SME) 650				
	Airframe/Power plant Mech(SME) 650				
<p>Research Assistant, and research Technician are conformer positions, increased by 1.79%, the average escalation of all positions listed under Technical Operations.</p> <p>All other positions subject to the Act increased by Health and Welfare (H&amp;W) increase from 2.59 to 2.87.</p> <p>SECOND: This modification hereby acknowledges as a result of the Wage determination 94-2431 the increase to the base year for the total amount due \$13,895.00, for the period 12 July 2005 to the present (11 July 2006), for categories identified above. No other charges are due based upon the wage determination 94-2431 rev. 1A.</p> <p>THIRD: There is no obligation of funds associated with this modification, only the total estimated value increases from \$ 660, 600.97 to \$674,496.00 (base year).</p> <p>FOURTH: All other terms and conditions remain unchanged and in full force and affect.</p> <p>*****</p> <p>Modification 005 adds funding to facilitate support services through the end of the performance period (07/11/2006). Mutual agreement acknowledged by Xyant response to AMQ/ACD email dated 4/12/06 incorporated by reference).</p> <p>This modification increases funding for line item 0001 Research Technical Support to facilitate the continued services described in the revised WBS dated 4/11/2006 hereby incorporated and attached. The anticipated increase in hours for performance of AAM-510 HRR521 projects (identified in PWS paragraphs 2a, 2b, and 3a) have been estimated as follows:</p> <p>CHANGES FOR LINE ITEM NUMBER: 001 increased by \$25,031.57 From: \$625,569.00 to: \$650,600.57</p> <p>CHANGES FOR LINE ITEM NUMBER: 002 REMAINS UNCHANGED Obligated amount is \$10,000.00</p> <p>Total obligated amount for this modification: \$25,031.57 New Total obligated Amount for this Award: \$660,600.97</p> <p>Continued ...</p>					