

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Public Works and Government Services Canada
Telus Plaza North/Plaza Telus Nord
10025 Jasper Ave./10025 ave. Jaspe
5th floor/5e étage
Edmonton
Alberta
T5J 1S6
Bid Fax: (780) 497-3510

SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Public Works and Government Services Canada
Telus Plaza North/Plaza Telus Nord
10025 Jasper Ave./10025 ave Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6

Title - Sujet Flight Test Support Services	
Solicitation No. - N° de l'invitation W2671-11E002/A	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client W2671-11-E002	Date 2012-10-17
GETS Reference No. - N° de référence de SEAG PW-\$EDM-607-9507	
File No. - N° de dossier EDM-1-34737 (607)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-11-13	Time Zone Fuseau horaire Mountain Standard Time MST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Jenkinson, Lorraine	Buyer Id - Id de l'acheteur edm607
Telephone No. - N° de téléphone (780) 497-3593 ()	FAX No. - N° de FAX (780) 497-3510
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

TITLE: TECHNICAL INVESTIGATION AND ENGINEERING SERVICES (TIES) FOR FLIGHT TEST SERVICES, AEROSPACE ENGINEERING TEST ESTABLISHMENT (AETE), 4 WING COLD LAKE

This amendment is to provide for clarifications regarding the Request for Proposal (RFP).

PART A: QUESTIONS/ANSWERS

Q.1. Are the services described in this RFP being provided (or have been provided in the past) by an incumbent? If yes, who is the incumbent and what is/was the duration and value of the contract?

A.1 No the services described in the RFP are not currently being provided by an incumbent contractor.

Q.2. Section 15 on Page 23 of 53 of the solicitation W2671-11E002/A addresses Insurance Requirements. "The Contractor must comply with the insurance requirements specified in Annex "D". The contractor must maintain the required insurance coverage for the duration of the contract. " Is it considered responsive if the insurance coverage is carried by a subcontractor, with the prime contractor listed as an additional insured?

A.2. No, it is the prime contractor who must maintain the insurance coverage.

Q.3. In Annex A, Statement of Work, Section 2.0 (page 25 of 53) lists Applicable Documents which can be provided upon request. Wyle respectfully requests a copy of the following documents:

- 2.1.1 1 Canadian Air Division Orders Vols 2 & 5
- 2.1.2 GPH204A
- 2.1.3 AETE Orders and Instructions (O&I) Manuals
- 2.1.4 AETE AF9000 procedures
- 2.1.5 C-05-005-001/AG-001, Canadian Forces Technical Airworthiness Manual (TAM)
- 2.1.6 Engineering Drawings and Associated Lists; see Appendix A and Appendix B to this SOW
- 2.1.7 C-01-100-100/AG-006, Specification - Writing, Format and Production of Technical Publications
- 2.1.8 Applicable Military Standards / Specifications
- 2.1.9 AETE Project Management Manual.

A.3. The following documents are publicly available:

2.1.2 GPH204A

http://www.icpschool.ca/Downloads/files/GPH%20204/204A/GPH204_A_en_20121115.pdf

2.1.6 Engineering Drawings and Associated Lists; see Appendix A and Appendix B to this SOW

Attached to this amendment.

2.1.8 Applicable Military Standards / Specifications.

There are numerous military specifications / standards that exist and are dependent on the particular project for the system under test. Some examples that may be available in the public internet are Aeronautical Design Standard 33 (ADS-33E) for helicopter control systems and handling qualities, or MIL-STD-3009 for Night Vision Goggle compatibility testing. Also the FAA Advisory Circulars have standards information that is often applied

to systems under test:

http://www.airweb.faa.gov/Regulatory_and_Guidance_Library/rgAdvisoryCircular.nsf/MainFrame?OpenFrameSet

The following documents are internal documents. These can be obtained from the Contracting Authority, Lorraine Jenkinson, telephone (780) 497-3593 or email lorraine.jenkinson@pwgsc-tpsgc.gc.ca.

- 2.1.1 1 Canadian Air Division Orders Vols 2 & 5
- 2.1.3 AETE Orders and Instructions (O&I) Manuals
- 2.1.4 AETE AF9000 procedures
- 2.1.5 C-05-005-001/AG-001, Canadian Forces Technical Airworthiness Manual (TAM)
- 2.1.7 C-01-100-100/AG-006, Specification - Writing, Format and Production of Technical Publications
- 2.1.9 AETE Project Management Manual.

Q.4. We request changes to the liability. We would like to limit first party liability to the contract value. No limit on 3rd party liability.

A.4 No. Canada will not limit first party liability to the contract value. The liability remains as stated in the terms and conditions and General Conditions.

Q.5 [Under PART 7 - RESULTING CONTRACT CLAUSES, article 1.2 Task Authorization, Page 14 of 23], Paragraph 1.2.3.1 discusses maximum contract value and defines the minimum contract value as 10% of the maximum. [...] the RFP mentions that \$100,000 is the maximum for each individual TA [paragraph 1.2.2, Page 14 of 23], but nowhere does it mention what the Maximum Contract Value is. Is there a Maximum Contract Value defined? The concern is that the company is exposed to a significant financial risk given that the minimum guarantee is 10% of an unknown value.

A.5. The \$100,000 mentioned in paragraph 1.2.2 is the maximum value of a Task Authorization that the Technical Authority may issue. There may be projects for more than this amount. Task Authorizations in excess of \$100,000 will be authorized by both the Technical Authority and Contracting Authority.

The Limitation of Expenditure is \$1,300,000.00 (GST/HST extra) over the entire period of contract (one year, plus two one-year option periods).

Q.6. [In the Statement of Work, Annex "A",] Page 27, para 3.3.3.1.3 talks about duties and responsibilities of the Officer-in-Charge of Fighter Evaluation Flight. Evidently this position does not exist at AETE as I can only find an Officer Commanding Eval (OC Eval), an Officer Commanding Evaluation Support (OC Eval Sp), an Officer-in-Charge of Fixed Wing Evaluation (OiC FW Eval) and an an Officer-in-Charge of Rotary Wing Evaluation (OiC RW Eval). Is the intention to have the Engineering Officer only assume other duties and responsibilities related to Fighter Evaluation or did they mean Fixed Wing Evaluation? If so, why the Rotary Wing sample task assignment?

A.6. There is an error in that paragraph.

DELETE: 3.3.3.1.3. Perform or assume other duties and responsibilities as may be assigned by the Officer-in-Charge of Fighter Evaluation Flight

INSERT: 3.3.3.1.3. Perform or assume other duties and responsibilities as may be assigned by the Officer Commanding Eval (OC Eval) or delegate.

Q.7. I question the requirement for C130J experience/qualifications (para 3.5.1.6, para 3.5.2.5 and qualifications B.2.1.d and B.2.2.d). My understand[ing] is that AETE does not possess C130J aircraft (only CF188, CT114 and CH146). As a recommendation potentially this requirement and evaluation criteria should be changed to reflect the AETE-operated aircraft to meet the training and proficiency tasks related in sub-section 3.3.6, specifically 3.3.6.5. Is the intention to qualify the QTP and FTE on the C130J and then keep them current on that aircraft iaw para 3.3.6.5? This incurs a significant expense as the C130J aircraft are located in Trenton, Ontario whereas AETE is located in Cold Lake, Alberta and will require significantly more travel to maintain a currency. In terms of the evaluation criteria, why is it so specific on the C130J? Would it make more sense to give the greatest credit for AETE-operated aircraft (CF18, CT114 and/or CH-146) and some credit for a qualification on a CF operational aircraft (ie CF18, C130H, C130J, C-17, CH146, CH124, etc)? At present the C130J qualification is excessively restrictive especially given the weight it is accorded in the evaluation criteria. Doing the math, 25 points effectively eliminates any FTE or FTP not having a C130J qualification as the maximum possible points is below the 70% cutoff individually. It doesn't seem to correlate with paras 3.5.1.6 and 3.5.2.5 which state "if possible," C130J qualification/experience.

A.7. The requirements for C130J experience/qualifications have changed.

Under Annex "A", Statement of Work:

DELETE: Paragraphs 3.5.1.6 (p.29)

DELETE: Paragraphs 3.5.2.5 (p.30)

Under Annex "G", Evaluation Criteria:

DELETE: Annex G, Part I, B.2.1 d) Experience: qualified C130J pilot

DELETE: Annex G, Part I, B.2.2 d) Experience: C130J engineering experience

Q.8. Suspect a typo on page 40 B2.2b, experience talks about experience as a test pilot, suspect it means Flight Test Engineer. Having said that, would AETE accept a Flight Test Pilot to fill the Flight Test Engineer position given the similarity in training? I would argue that a Flight Test Pilot has the training required to meet the requirements of a Flight Test Engineer position (in fact the way it's presently worded you need a Flight Test Pilot to meet the Flight Test Engineer requirement). Recommend para B2.2b be re-worded to say"....comprehensive experience conducting test programs as a test pilot or flight test engineer."

A.8. Yes, page 40 B2.2b has a typo.

DELETE: Annex G, Part I, B2.2 b) Experience: numbers of years working in the flight testing field where the member gained comprehensive technical and practical experience evaluating and/or designing equipment, and gaining comprehensive experience conducting test programs as a test pilot.

INSERT: Annex G, Part I, B2.2 b) Experience: numbers of years working in the flight testing field where the member gained comprehensive technical and practical experience evaluating and/or designing equipment, and gaining comprehensive experience conducting test programs as a test pilot or flight test engineer.

Q.9. [Page 30 of 53], Para 3.5.2.4 makes reference again to test pilot under the heading of Flight Test Engineer. Recommend it be re-worded to say "Flight Test Pilot or Flight Test Engineer."

A.9. Yes, Para 3.5.2.4 has been reworded to say "Flight Test Pilot or Flight Test Engineer".

Q.10. [Page 25 of 53], Para 3.1 refers to carrying out tasks on-site, at the contractor's facilities and at other deployed locations. Will Controlled Goods be expect[ed] to be maintained at the contractor's facility? Will the contractor be required to register the "other deployed locations" as contractor sites for the storage of controlled goods?

A.10 The Contractors will be required to follow all regulations regarding Controlled Goods. If there is a need to maintain Controlled Goods in a deployed location or at the contractor's facility, then the contractor must do so in accordance with the Controlled Goods regulations.

Q.11. Para 3.3.4 all the references seem to be out of order, but I was able to make sense of them (most are out by 2 numbers)

A.11 The Statement of Work, Annex "A", is revised as follows:

DELETE:

- 3.3.4.1. Provide engineering analyses in the form of technical notes (in accordance with SOW 2.1.1 and 2.1.2) in support of AETE Flight Test projects.
- 3.3.4.2. Prepare and review Canadian Forces modification leaflets in accordance with the Canadian Forces Technical Airworthiness Manual (SOW 2.1.3) and format of C-01-100-100/AG-006 (SOW 2.1.5);
- 3.3.4.3. Prepare and review Canadian Forces technical orders in accordance with format of C-01-100-100/AG-006 (SOW 2.1.5); and

INSERT:

- 3.3.4.1. Provide engineering analyses in the form of technical notes (in accordance with SOW 2.1.3 and 2.1.4) in support of AETE Flight Test projects.
- 3.3.4.2. Prepare and review Canadian Forces modification leaflets in accordance with the Canadian Forces Technical Airworthiness Manual (SOW 2.1.5) and format of C-01-100-100/AG-006 (SOW 2.1.7);
- 3.3.4.3. Prepare and review Canadian Forces technical orders in accordance with format of C-01-100-100/AG-006 (SOW 2.1.7); and

Q.12. [ANNEX A, STATEMENT OF WORK, Page 28 of 53], Para 3.3.6.5 talks about maintaining flying proficiency iaw AETE orders, etc. My understanding is that there are monthly flying requirements that need to be maintained. How will this be managed under a TA? My concern is that I'll have a pilot on contract, that needs to stay current and proficient, but with no means to keep him current unless there is a TA to keep him flying regularly. The same goes for the FTE who also has flying and currency requirements albeit less stringent than those of the pilot.

A.12 Based on the requirement for project work, AETE will provide a TA to either maintain currency on AETE aircraft or regain currency in the event that currency is lost. Any TA generated for projects will include the required proficiency flying on AETE aircraft.

COMMERCIAL ENGINEERING DRAWINGS
AND
ASSOCIATED LISTS
FOR
TECHNICAL INVESTIGATION AND
ENGINEERING SERVICES (TIES)
FOR
AEROSPACE ENGINEERING
TEST ESTABLISHMENT
CREW SYSTEMS' PROJECTS

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1 General:

Engineering Drawings, Associated Lists and Reference Documents shall be provided in accordance with the following requirements and in the final form specified below.

1.1 DSCO 5-3-2 Technical Data Action Notice (TDAN) Number:

The following number has been assigned to control the acquisition of all Engineering Drawings and Associated Lists produced under this contract:

TDAN Number: 08427XXXX

1.2 Applicable Documents:

D-01-400-002/SF-000 dated 83-11-30, Drawings, Engineering and Associated Lists.

D-LM-008-022/SG-000, Standard for Packaging of Documentation

ASME Y14.100, Engineering Drawing Practices

ASME Y14.24, Types and Applications of Engineering Drawings

ASME Y14.34M, Associated Lists

ISO 9660, Information Processing - Volume and File Structure of CDROM for Information Interchange

Z234.1-00, Canadian Metric Practices Guide

TIFF Revision 6, Adobe Systems Incorporated, dated June 3, 1992

1.3 New Drawings:

The contractor shall prepare and deliver Engineering Drawings and Associated Lists which meet the design disclosure and legibility requirements of the specified level as defined by the Canadian Forces Engineering Drawings and Associated Lists specification D-01-400-002/SF-000.

**1.3.1 Drawing Level: Level 2 Limited Production / Prototype
 Level 3 Production**

1.4 Drawing Practices:

Drawing practices shall be in accordance with ASME Y14.100.

2 Data Lists:

Data Lists complete with Cover Sheets are required and shall be prepared in accordance with ASME Y14.34M and supplied as part of the Engineering Drawings. Data Lists shall be prepared at the item level of assembly (and/or end item) declared for future production by the Technical Authority. Cover sheets shall be prepared as sheet one (1) of the Data List. Cover Sheets shall include the Contract Number and a note which details the **Intellectual Property Rights** that apply to the data identified on the Data List (see para 7).

3 Reference Documents:

Reference documents called up on the Engineering Drawings (excepting those, which are government, society and readily available industrial specifications or standards) shall be included as part of the Engineering Drawings and Associated Lists.

4 Contractor Drawings:

Existing Contractor Drawings being provided as part of the Engineering Drawing Package shall meet the requirements of paragraph 3.2 of D-01-400-002/SF-000. In the event that Contractor Drawings do not meet the specified requirements the contractor shall rework the drawings to ensure that the requirements are met.

5 Technical Data Action Notice (TDAN):

A TDAN shall be prepared listing all Drawings and Associated Lists delivered as a result of the contract. A sample TDAN can be provided upon request.

5.1 Drawing System:

The mono-detail drawing system shall be used.

5.2 Drawing Types:

The contractor shall provide the necessary types of drawings that will satisfy the sophistication of the specified drawing level. Drawing types selected shall be in accordance with ASME Y14.24. Type selection shall be subject to the approval of both the DND Technical Authority and DSCO 5-3-2.

5.3 Parts Lists:

Parts lists shall be prepared integral with the drawings. On multi-sheet drawings, the parts list shall be placed on sheet one (1).

5.4 Control Drawings:

Control Drawings as defined in ASME Y14.24 shall be prepared for commercial items approved for use in the design, which are not defined by Government or nationally recognized industrial specifications and standards.

5.5 Family-Tree Drawing(s):

The contractor shall prepare a Family-Tree Drawing(s) of the complete configuration of the Engineering Drawing Package and it shall be subject to the approval of both the DND Technical Authority and DSCO 5-3-2.

5.6 Units of Measure:

The DND Technical Authority will determine the units of measure (metric or Imperial). Metric drawings shall comply with Z234.1-00 Canadian Metric Practices Guide.

6 Integration:

The prime Contractor shall be fully responsible for the integration of the new and existing drawings to form a complete Engineering Drawing Package.

7 Data Rights:

The Government of Canada shall have rights in data as detailed in the Terms and Conditions of the contract.

7.1 Data Rights Legend:

The Contractor shall mark all Foreground & Background Engineering Drawings & Associated Lists delivered under this contract with a complete notation as detailed at “**Intellectual Property Rights**” and/or “**Data Rights**” clause(s) of the contract.

8 Quality Assurance Provisions:

Quality of the Engineering Drawings and Associated Lists delivered on this contract is the responsibility of the contractor and subject to the quality requirements of the contract.

8.1 Acceptance:

Acceptance of the Engineering Drawings, Associated Lists and Reference Documents for technical content requirements will be the responsibility of the DND Technical Authority. Acceptance of the Engineering Drawings, Associated Lists, Reference Documents and Electronic Data Deliverables for format requirements will be DSCO 5-3-2.

8.1.1 Interim Deliverables for Acceptance Purposes:

Two complete, full-size, print copy sets of the Engineering Drawings, Associated Lists and Reference Data shall be delivered in hard copy form for acceptance purposes (reduced size" print copies may be acceptable provided that they are legible). If the package cannot be accepted, for reasons of either technical content or format, it may be necessary to resubmit the print copy sets.

8.1.1.1 Level 1 - Design Concept:

The Level 1 Engineering Drawings, Associated Lists and Reference Documents shall be forwarded to the Technical Authority upon completion.

8.1.1.2 Level 2 - Prototype / Limited Production:

Following acceptance of the Level 1 Engineering Drawings, Associated Lists and Reference Documents, the Level 2 Engineering Drawings, Associated Lists and Reference Documents shall be forwarded to the Technical Authority.

8.1.1.3 Level 3 - Production:

Following acceptance of the Level 2 Engineering Drawings, Associated Lists and Reference Documents, the Level 3 Engineering Drawings, Associated Lists and Reference Documents shall be forwarded to DSCO 5-3-2.

9 Final Deliverables:

Upon acceptance, the Level 3 Engineering Drawings, Associated Lists and Reference Data shall be delivered in soft copy form as outlined herein.

9.1 Soft Copy Deliverables:

Soft copy deliverables shall include the Engineering Drawings, Associated Lists, Reference Data and the associated Metadata in electronic form.

9.1.1 Engineering Drawings:

Engineering Drawings shall be delivered as Raster files as detailed herein. Multi-sheet drawings shall be delivered one sheet per file.

9.1.2 Associated Lists:

Associated Lists shall be delivered as Raster files as detailed in herein. Multi-sheet lists shall be delivered one sheet per file.

9.1.3 Reference Documents:

Reference Documents shall be delivered as Raster files as detailed herein or in a format deemed acceptable by the DSCO 5-3-2.

9.1.4 TDAN:

The TDAN shall be delivered as Raster files as detailed in herein. Multi-sheet TDANs shall be delivered one sheet per file.

9.1.5 Metadata (Capture of Related Information):

Metadata (the data that describes data objects) shall be provided for all Engineering Drawings, Associated Lists and Reference Data deliverables. Metadata records shall contain the information in the order shown in Table 1. Metadata shall be delivered as a Microsoft Access 2000 database shown at Figure 1.

9.1.5.1 DATABASE TABLE:

Each delivered image shall have a corresponding database record. All records shall be entered into a single Microsoft Access 2000 database table. Fields without corresponding information shall remain blank. The Microsoft Access 2000 database file shall be named "metadata.mdb".

9.1.6 File Formats for Raster Data:

Raster data shall be Tagged Image File Format in accordance with Adobe Systems Inc. specification "TIFF Revision 6", compressed to CCITT Group 4. Files shall be UNTILED and be wholly raster (hybrid files shall not be delivered).

9.1.6.1 Pel Density:

Raster image pixel element (Pel) density shall be 200 dpi.

9.1.6.2 Position of Pels:

Position of Pels shall be as follows:

- i) Portrait Data: line progression 270 degrees, Pel path 0 degrees.
- ii) Landscape Data: line progression 270 degrees, Pel path 0 degrees.

9.1.6.3 Image Sizes:

Image sizes as outlined in Table 2 are provided as a guide and sizes may vary slightly, but no more than plus or minus one inch (25 mm) in either width or length.

9.1.6.4 Cropping:

Images shall be cropped such that the engineering drawing is free from extraneous information. For example, drawing formats having an inside and an outside border shall be cropped closely to the outside of the outside border. Drawing formats having only one border, where zone or quadrant identification is outside of that border shall be cropped such that the zone information is retained.

9.1.6.5 Skew Correction:

In general, skew correction is not required. If the Contractor deems it necessary, correction shall be done to 0 degrees and 90 degrees.

9.1.6.6 Despeckling:

If any despeckling is required, the Contractor shall ensure that data integrity is not compromised by this operation.

9.1.6.7 Image Foreground /Background:

Images shall be black on white background.

9.1.6.8 File Names/Batch Number Allocation:

File names and a batch number shall be requested in writing from DSCO 5-3-2. Quantity of file names required shall be specified at the time of the request.

9.1.7 Media of Delivery:

The media form for final delivery of electronic data shall be CD-ROM, written in accordance with ISO 9660. (File compression software shall not be used.) Each CD-ROM and its case shall be labeled or marked in a method of the contractor's choosing. Each label or marking shall display the Batch Number, Contract / Task number, TDAN number and the date the CD-ROM was created.

10 Packaging/Marking/Loss/Damage:

Reproducible and non-reproducible data shall be preserved packaged and marked in accordance with CF Standard D-LM-008-022/SG-000. Exterior shipping containers shall be marked with the contract and TDAN number and in the event of loss or damage while in shipment, the responsibility for replacement shall be that of the primary Contractor and shall be at the primary Contractor's expense.

11 Mail or Courier Deliveries:

DSCO 5-3-2 Deliverables shall be forwarded to:

Department of National Defence
National Defence Headquarters,
MGen George R. Pearkes Building,
OTTAWA ON K1A 0K2

Attention: **DSCO 5-3-2, 1 LSTL**

12 Inquiries or Visits:

After contract award, **DSCO 5-3-2** may be contacted at **(819) 994-9357**,
Fax **(819) 997-0302**. The address is:

Department of National Defence
Louis St. Laurent Building
555 boul de la Carriere,
GATINEAU QC J8Y 6R5

Attention: **DSCO 5-3-2**

TABLE 1 INDEX FIELDS

Order	Field Name	Max Field Length	Field Definition / Description	Example Entry
1	FILENAME <i>(all one word)</i>	12 (8.3)	Name of electronic file - unique filename for uploading in database. File names will be issued by DSCO 5-3-2. Alpha characters shall be uppercase.	AZ000235.TIF
2	BATCHNO <i>(all one word)</i>	8	Batch number - used for uploading files in database. Batch number will be assigned with filenames. Alpha characters shall be uppercase.	AZ001
3	DOCUMENTNO <i>(all one word)</i>	25	This field shall contain the document number.	9775458
4	REVISION	3	Letter or number indicating the revision level. If there is no rev, indicate with dash ("-")	B
5	SHEETNO <i>(all one word)</i>	3	Sheet number x of y. Enter the value of x.	1
6	NOOFSHEETS <i>(all one word)</i>	3	Sheet number x of y. Enter the value of y.	1
7	FRAMENO <i>(all one word)</i>	3	Frame number x of y. Enter the value of x. (This field is applicable only when capturing data from aperture cards.) When field is not applicable, leave blank.	
8	NOOFFRAMES <i>(all one word)</i>	3	Frame number x of y. Enter the value of y. (This field is applicable only when capturing data from aperture cards.) When field is not applicable, leave blank.	
9	NSCM	5	This field shall contain the NATO Supply Code for Manufacturers (NSCM) of the Owner of the data. (Also known as FSCM, CAGE or NCAGE code.)	36376
10	SIZE	2	This field contains the document size. -For imperial sizes use A, B, C, D, E, F, G, H, J, K and LE (for legal) -For metric sizes use A4, A3, A2, A1, A0 and B1.	A2
11	ADDITIONALIDENTIFIER <i>(all one word)</i>	10	This open field shall be used when two (2) or more documents have the same document number but are different documents. e.g. Document 12345, Document 12345 DCR 001, then "DCR 001" would be entered in this field. When field is not applicable, leave blank.	DCR 001

12	DATARIGHTS <i>(all one word)</i>	1	The data rights as specified in the contract. "L" for "LIMITED" or "U" for "UNLIMITED"	U
13	DOCUMENTTITLE <i>(all one word)</i>	240	Title of document. (i.e. Drawing title)	BRACKET ASSY
14	TDANNO <i>(all one word)</i>	12	This field shall be used to enter the TDAN number assigned for the project.	0842710XX
15	ERN	8	This field shall be used for the Equipment Registration Number. Information shall be provided if required, otherwise the field may be left blank.	
16	EAC	8	This field shall be used for the Equipment Application Code. Information shall be provided if required, otherwise the field may be left blank.	
17	EQUIPMENT	75	Name of the Equipment. Information shall be provided if required, otherwise the field may be left blank.	

TABLE 2 DRAWING SIZES

METRIC DRAWING SIZES			
Drawing Size	W x L (max) (mm)	Pels Per Line	Number of Lines
A4	210 X 297	1656	2344
A3	297 X 420	2344	3312
A2	420 X 594	3312	4680
A1	594 X 841	4680	6624
A0	841 X 1189	6624	9368
B1	707 X 1000	5567	7875
NORTH AMERICAN / IMPERIAL DRAWING SIZES			
Drawing Size	W x L (max) (inches)	Pels Per Line	Number of Lines
A	8.5 x 11	1704	2200
B	11 x 17	2200	3400
C	17 x 22	3400	4400
D	22 x 34	4400	6800
E	34 x 44	6800	8800
F	28 x 40	5600	8000
G	11 x 90	2200	18000
H	28 x 143	5600	28600
J	34 x 176	6800	35200
K	40 x 143	8000	28600
Legal	8.5 x 14	1704	2800

Sample record entries (Metadata) in database table:
(The following table is shown on two lines to suit page width.)

FILENAME	BATCHNO	DOCUMENTNO	REVISION	SHEETNO	NOOFSHEETS	FRAMENO	NOOFFRAMES
AZ000235.TIF	AZ001	9775458	B	1	1	1	1
AZ000236.TIF	AZ001	9775457	-	1	1		

NSCM	SIZE	ADDITIONALIDENTIFIER	DATARIGHTS	DOCUMENTTITLE	TDANNO	ERN	EAC	EQUIPMENT
36376	A2	DCR 001	U	BRACKET ASSY	0842710XX			
36376	A1		U	BRACKET	0842710XX			

FIGURE 1 Sample Metadata Records