<u>Broad Agency Announcement:</u> FA2391-23-S-2403
Pioneering Aerospace Capabilities, Engineering and Research (PACER)

<u>CALL Name:</u> Optimized Propulsion Technologies for Intended Mission Life (OPTIML)

27 October 2023

OVERVIEW INFORMATION

Broad Agency Announcement Type: This is a Two-Step Call against the PACER BAA FA2391-23-S-2403. The First Step is a Call for White Papers only. Offerors should monitor SAM.gov for any additional notices or modifications to this Call announcement.

NAICS Code: The NAICS Code for this acquisition is 541715 (Research and Technology in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology) (with Aircraft, Aircraft Engine, and Engine Parts exception), and the small business size standard is 1,500 employees.

Federal Agency Name: Air Force Research Laboratory, Aerospace Systems Directorate, AFRL/RQ

Moratorium on White Papers: Beginning from the date of publication of this Call and continuing until six months after the due date for Proposals, no White Papers submitted during the PACER BAA Open Period covering the topic specified in this Call, "RQT Topic 13 – Affordability" will be reviewed.

DUE DATE AND TIME:

<u>First Step:</u> WHITE PAPER DUE DATE AND TIME: **12 December 2023, 3:00 P.M**. local time, Wright-Patterson AFB, OH. <u>Only White Papers are due at this time.</u>

NOTE: White Paper receipt after the due date and time shall be governed by the provisions of FAR 52.215-1(c)(3). Early proposal submission is encouraged.

<u>Second Step:</u> PROPOSAL DUE DATE AND TIME: To be provided in the Request for Proposal (RFP) sent to offerors that submit White Papers considered to meet the needs of the Air Force. Only White Papers are due at this time.

Submission: White Papers must be submitted to the Primary Contracting Point of Contacts (POCs): Katherine Ryan, Contracting Officer, AFRL/RQKPB, katherine.ryan.2@us.af.mil; Megan Wetzel, Contract Specialist, AFRL/RQKPB, megan.wetzel@us.af.mil. ***Electronic submission is required.*** White Papers can be submitted by email to Katherine.Ryan.2@us.af.mil or offerors may request a DoD Safe Drop-Off link by email to Katherine.Ryan.2@us.af.mil at least 4 calendar days prior to White Paper due date.

Type of Contract/Instrument: The Air Force reserves the right to award the instrument best suited to the nature of research proposed. Accordingly, the Government may award any

appropriate contract type under the FAR or Other Transaction (OT) for Prototype, grant, cooperative agreement, or OT for Research. The Air Force may also consider award of an appropriate technology transfer mechanism if applicable. **It is anticipated that awards under this Call will be "C" type contracts with Cost Plus Fixed Fee (CPFF) and/or Cost Share (at the discretion of the offeror) CLINs anticipated.** Cost reimbursement contracts require successful offerors to have an accounting system considered adequate for tracking costs applicable to the contract.

Estimated Total Program Cost: The estimated total program cost is $15,200,000.00. This amount is estimated to cover all awards made under this Call and is not the amount estimated to be awarded per contract award.

Anticipated Number of Awards: The Air Force anticipates one or more awards for this Call. However, the Air Force reserves the right to award zero, one, or more contracts for all, some or none of the solicited efforts based on the offeror's ability to perform desired work and funding fluctuations.

Brief Program Summary:
Meet the desire to rapidly acquire engine technologies that are low-cost and sufficiently durable for risk-tolerant, unmanned/autonomous systems. Develop and apply innovative technologies and approaches to provide an engine that sufficiently meets the performance and durability requirements at the lowest cost for an accepted risk. Apply and demonstrate rules and tools to a risk-tolerant, unmanned/autonomous engine that is scalable to 5000 pound thrust and has a nominal service life of 1000 hours. It is expected some rules and tools will be robust enough to apply to expendable and man-rated engine design as well. Demonstrate and validate technologies through appropriate methods to include analysis and/or testing such as bench, component, rig, and/or core and engine demonstration.

Offerors will select Statement of Objective (SOO) Topics 3.1-3.5 in part or in entirety. For each individual selected topic (3.1-3.5) chosen, Demonstration Testing and Validation (SOO Topic 3.6) AND Update Design Criteria and Models (SOO Topic 3.7) are required to be addressed. White Papers/proposals should have these required activities (3.6 and 3.7) clearly defined for each individual selected topic (3.1-3.5).

For topics 3.1, 3.3, and 3.4, prospective offerors shall have a DoD-coordinated Advanced Turbine Technologies for Affordable Mission-capability (ATTAM) Advanced Turbo Propulsion Plan (ATPP) or shall have a documented working relationship with a company with a DoD-coordinated ATTAM ATPP. A list of current ATPP holders can be provided upon request.

Topic List:
- SOO Topic 3.1 Tailorable Design Criteria
- SOO Topic 3.2 As-is Component Acceptance Criteria
- SOO Topic 3.3 Sufficiently Durable Predictive Tools
- SOO Topic 3.4 Digital Engineering for Fast, Low-Cost Design/Assessment
- SOO Topic 3.5 Innovative Design/Manufacture for Low-Cost

- SOO Topic 3.6 Demonstration Testing and Validation
- SOO Topic 3.7 Update Design Criteria and Models

Communication Between Prospective Offerors and Government Representatives: All communication prior to and after the White Paper deadline shall be directed to the Contracting POCs listed below.

Contracting POCs:
Katherine Ryan
Contracting Officer
AFRL/RQKPB
E-mail address: katherine.ryan.2@us.af.mil

Megan Wetzel
Contract Specialist
AFRL/RQKPB
E-mail address: megan.wetzel@us.af.mil

FULL TEXT ANNOUNCEMENT

I. Program Description: Air Force Research Laboratory, AFRL/RQT, Turbine Engine Division, is soliciting White Papers on the following research effort: ***Optimized Propulsion Technologies for Intended Mission Life (OPTIML)***

1. **Statement of Objectives:**
   See Attachment 1 for the Statement of Objectives (SOO). This effort falls within the PACER BAA (FA2391-23-S-2403), Technical Objective Area RQT Topic 13 – Affordability.

   RQT Topic 13 – Affordability: Research, development, demonstration, and validation of technologies or approaches that increase cost effectiveness and reduce development timelines for turbine engine-related applications. This could include, but is not limited to, new design approaches, novel manufacturing techniques, innovative component design and material application, and reduced logistics support.

2. **Within Scope Modification:** Potential offerors are advised that due to the inherent uncertainty of research and development efforts, awards resulting from this announcement may be modified during performance to make within scope changes, to include but not limited to, modifications which increase overall contract ceiling amount and modifications under authority of DFARS 235.006-71.

3. **Deliverable Items:**
   a. Data Items:
      Contract Data Requirements List (CDRL):

Data Item	Title	Frequency
A001	Scientific and Technical Reports	One/R
A002	Funds and Man-hour Expenditure Report	Monthly
A003	Contractor Spend and Expenditure Plan	Monthly
A004	Contract Funds Status Report	Quarterly
A005	Status Report	Monthly
A006	Presentation Material	As Required
A007	Test Plan	As Required
A008	System Safety Hazard Analysis Report	Once
A009	Digital Imaging	As Generated
A010	Operations Security Plan	As Required
A011	Technical Information Report (SF 424)	Annually/R
A012	Technical Data Package	As Generated
A013	Acquisition and Sustainment Data Package (ASDP)	Annually

   See Attachment 2 for the Contract Data Requirements List.

   b. **Hardware:** Engine hardware, tooling, geometry data. Hardware will be managed with a contract line item number.
   c. **Software:** Design tools, lifing tools, cost modeling. Software will be managed with a contract line item number.

d. **Anticipated Deliverables Summary:**

Topic	Title	Data	Hardware	Software
3.1	Tailorable Design Criteria	Geometry, Experimental Test	N/A	N/A
3.2	As-is Component Acceptance Criteria	Geometry, Experimental Test, Inspection	Engine/component hardware, tooling, test equipment	Design/lifing tools, cost modeling
3.3	Sufficiently Durable Predictive Tools	Geometry, Experimental Test	N/A	Design/lifing tools
3.4	Digital Engineering for Fast, Low-cost Design and Assessment	Project management data	N/A	Design tools, process modeling
3.5	Innovative Design and Manufacturing for Low-cost	Geometry, Experimental Test, Build Parameters	Engine/component hardware, tooling, test equipment	Design/lifing tools, cost/supply chain modeling

4. Schedule:

- Overall OPTIML PoP:
  - Overall PoP: 45 months
  - Technical Period of Performance: 42 months
  - Reporting: 3 months

- SOO Topic 3.1 – Tailorable Design Criteria PoP:
  - Overall PoP: 45 months
  - Technical Period of Performance: 42 months
  - Reporting: 3 months

- SOO Topic 3.2 – As-is Component Acceptance Criteria PoP:
  - Overall PoP: 33 months
  - Technical Period of Performance: 30 months
  - Reporting: 3 months

- SOO Topic 3.3 – Sufficiently Durable Predictive Tools PoP:
  - Overall PoP: 36 months
  - Technical Period of Performance: 33 months
  - Reporting: 3 months

- SOO Topic 3.4 – Digital Engineering for Fast, Low-Cost Design and Assessment PoP:
  - Overall PoP: 45 months
  - Technical Period of Performance: 42 months
  - Reporting: 3 months

- SOO Topic 3.5 – Innovative Design and Manufacturing for Low-Cost PoP:
  - Overall PoP: 45 months
  - Technical Period of Performance: 42 months
  - Reporting: 3 months

- SOO Topic 3.6 – Demonstration Testing and Validation
  - Required to be addressed in each individual selected Topic 3.1-3.5

- SOO Topic 3.7 – Update Design Criteria and Models
  - Required to be addressed in each individual selected Topic 3.1-3.5

5. Other Requirements:

a. Program Security Classification: Unclassified/CUI

b. OPSEC: Operations Security (OPSEC) requirements, per the PACER BAA, FA2391-23-S-2403, I. (page 9), will be incorporated into the Statements of Work.

c. Export Control: Information involved in this research effort is subject to Export Control (International Traffic in Arms Regulation (ITAR) 22 CFR 120-131, or Export Administration Regulations (EAR) 15 CFR 710-774). A Certified DD Form 2345, Military Critical Technical Data Agreement, is required to be submitted with the First Step – White Paper.

d. Export-Controlled Items: As prescribed by DFARS 225.7901-4, DFARS 252.225-7048, "Export-Controlled Items (JUN 2013)" shall be contained in ALL resulting contracts.

e. Contractor Performance Assessment Reporting System (CPARS): Not Applicable.

f. Science and Technology (S&T) Protection: In accordance with Air Force Research Laboratory Instruction (AFRLI) 61-113, *"Science and Technology (S&T) Protection for the Air Force Research Laboratory"*, offerors are required to submit the following as part of their Proposal (Second-Step):

   1) A completed initial Standard Form (SF) 424, *Research and Related Senior/Key Person Profile (Expanded) Form*, (PACER BAA Attachment 9) for all Senior/Key Personnel proposed in support of the AFRLI 61-113 Personnel Risk Assessment requirement.

   2) Documentation of a Security Program Plan in support of the AFRLI 61-113 Initial Institution S&T Protection Program Review requirement. This must include, at a minimum, a completed Security Program Questionnaire (PACER BAA Attachment 10). Submittal may also include a pre-existing plan that the offeror uses as a matter of course or plan developed specifically for this acquisition. The purpose of requesting the plan is to assess the offeror's capacity for protection of the Government's S&T. Failure to demonstrate a plan adequate to meet the needs of the requirements, as determined by the Government in its sole discretion, may be grounds for considering the proposal unawardable.

Government Procedures

The Government will review the submitted S&T protection documentation only for those proposals categorized as Selectable and selected for funding and negotiations.

S&T Protection Initial Risk Review:

- Personnel Risk Assessment: The Government will review non-government research key/senior performers identified by the offeror on the initial SF 424 for workload conflicts and conflicts of interest.
- Initial Institution S&T Protection Program Review: The Government will review the offeror's security program information submitted in accordance with paragraph 2 of this section (above) to identify any potential risks and ensure appropriate measures are in place to protect S&T information.

The Government may require the offeror to submit additional information and/or a mitigation plan for any identified S&T protection risks. If the Government determines the offeror failed to provide adequate additional information; or an acceptable mitigation plan; or it is determined the offeror's S&T protection approach is high risk and does not provide adequate protection of S&T information, the Government may reject the proposal and withdraw it from consideration for award.

S&T Protection Annual Risk Review: In accordance with PACER BAA Attachment 8 (SOW Supplemental Requirements), the Contractor shall provide an SF 424 with the following information: 1) an initial report of all Senior/Key Personnel at the time of award; 2) an annual report of all Senior/Key Personnel providing support; 3) a report for any new Senior/Key Personnel who join the contract, agreement, grant, or OT. Any updated SF 424s for new Senior/Key Personnel supporting the award require coordination from the Government prior to the contractor employee receiving access to S&T information. The purpose of this report is oversight and should not be construed as relieving the contractor/recipient of any S&T Protection requirements within the contract, grant, agreement, or OT.

6. Other Information:

a. Government Furnished Property (GFP), Government Furnished Information (GFI) and/or Software, or Contractor Acquired Property: Not Anticipated. If required must be identified in White Paper.

b. Base Support/Network Access: Not Applicable. If required must be identified in White Paper.

c. Data Rights:
   1) Technical Data: Unlimited
   2) Non-Commercial Software (NCS): Unlimited

3) NCS Documentation: Unlimited
4) Commercial Computer Software Rights: Customary License

Unlimited rights is desired. Other than unlimited rights, must be identified in the White Paper in accordance with PACER BAA and as required by DFARS 252.227-7017, Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software. See PACER BAA I.6.c.

II. Award Information

1. Anticipated Award Date: Anticipated contract award date is approximately May-June 2024.

2. Anticipated Funding: A contract type with Cost Plus Fixed Fee and/or Cost Share CLINs are anticipated in accordance with the anticipated funding set forth below.
The budget for the program, subject to availability, is anticipated to be as follows:

Notional Funding:

Topic	Title	FY24 ($k)	FY25 ($k)	FY26 ($k)	FY27 ($k)	Total ($k)
3.1	Tailorable Design Criteria	547	820	740	1050	3157
3.2	As-is Component Acceptance Criteria	968	1025	925	0	2918
3.3	Sufficiently Durable Predictive Tools	585	410	370	0	1365
3.4	Digital Engineering for Fast, Low-cost Design and Assessment	1080	1025	925	1400	4430
3.5	Innovative Design and Manufacturing for Low-cost	720	820	740	1050	3330
	Total	**3900**	**4100**	**3700**	**3500**	**15200**

III. Eligibility Information: See PACER BAA FA2391-23-S-2403

IV. White Paper/Proposal Submission Information

Overview: This Call is a Two-Step Call. For a Two-Step Call, White Papers will be solicited, and subsequent RFPs may follow after White Paper Reviews.

1. FIRST STEP - White Paper Instructions

a. General: The FIRST STEP requests a White Paper and a rough order of magnitude (ROM) cost. The White Paper shall include a discussion of the nature and scope of the research and the offeror's proposed technical approach. The Government will review the White Papers in accordance with the FIRST STEP White Paper Review Criteria, set forth in Section IV.3.a. below. Based on this review, the Government will determine whether the White Paper has the potential to best meet the Air Force's needs. Those offerors submitting White Papers assessed as meeting Air Force needs will be asked to submit a Technical and Business/Cost proposal. An offeror submitting a Proposal without first submitting a White Paper **will not** be eligible for an award. The cost of preparing White Papers in response to this Solicitation is not considered an allowable direct charge to any resulting or any other contract; however,

it may be an allowable expense to the normal bid and proposal indirect cost as specified in FAR 31.205-18.

Electronic submission is required. White Papers can be submitted by email to Katherine.Ryan.2@us.af.mil or offerors may request a DoD Safe Drop-Off link by email to Katherine.Ryan.2@us.af.mil at least 4 calendar days prior to White Paper due date.

b. Page Limitation: The White Paper shall be limited to **6 pages.** Offerors are permitted **5 pages** for each individual SOO Topic 3.1-3.5 selected with an additional **1 page** to address SOO Topics 3.6 and 3.7. SOO Topics 3.6 and 3.7 are required to be addressed for each SOO Topic 3.1-3.5 selected. White Papers shall be prepared and submitted in Word format. Font shall be standard 10-point business font Arial. Character spacing must be "normal," not condensed in any manner. Pages shall be double-spaced (must use standard double-space function in Microsoft Word), 8.5 by 11 inches, with at least one-inch margins on both sides, top and bottom. All text, including text in tables and charts, must adhere to all font size and line spacing requirements listed herein. Font and line spacing requirements **do not** have to be followed for illustrations, flowcharts, drawings, diagrams, cover page, table of contents, and restrictive/proprietary markings (in header or footer). These exceptions shall not be used to circumvent formatting requirements and page count limitations by including lengthy narratives in such items. Pages shall be numbered starting with the cover page being **Page 1**, and the last page being no greater than **Page 6**. The page limitation covers all information including indices, photographs, foldouts (counted as 1 page for each 8.5 by 11 portion) tables, charts, appendices, attachments, resumes, etc. The Government will not consider pages in excess of these limitations.

c. Format: The white paper will be formatted as follows:
   1) Section A: BAA Number, Title of Program, Topic Number, Name of Company, Business Size, Company's Commercial and Government Entity (CAGE) number, Dun & Bradstreet (D&B) Data Universal Numbering System (DUNS) number, Unique Entity Identifier (UEI) number, Contracting POC and Technical POCs with appropriate telephone numbers, and email addresses for the POCs. For submissions that will result in classified work, add the following information: Classified level at which company is cleared, contractor address for forwarding classified material (name, address, zip code), cognizant security office (name, address, zip code), and offeror's security officer's name and telephone number).
   2) Section B: Period of Performance and Task Objectives;
   3) Section C: Technical Summary and Proposed Deliverables; and
   4) Section D: Cost of Task (Rough Order of Magnitude (ROM))
   5) Section E: A Certified DD Form 2345, Military Critical Technical Data Agreement. This does not count towards page count limitations.

d. Technical Portion: The technical portion of the White Paper shall include a discussion of the nature and scope of the research and the offeror's proposed technical approach/solution. It may also include any proposed deliverables. Resumes,

descriptions of facilities and equipment, and a proposed Statement of Work are not required at this point.

e. Cost Portion: The cost portion of the White Paper shall include a ROM cost estimate. No detailed price or cost support information should be included; only a time-phased bottom line figure should be provided.

f. Other Information: If the offeror wishes to restrict its White Papers, they must be marked with the restrictive language stated in FAR 52.215-1(e).

g. White Paper Content Summary: You may be ineligible for award if all requirements of this solicitation are not met on the due date.

2. **SECOND STEP - Proposal Instructions**
   a. **General Instructions:**
      1) The SECOND STEP consists of offerors submitting Technical and Cost/Business Proposals within 45 calendar days of an RFP. After receipt, Proposals will be evaluated in accordance with the award criteria in Section IV.3.b. below. Proposals will be categorized and subsequently selected for negotiations.

      2) Offerors should apply the restrictive notice prescribed in FAR 52.215-1(e) Instructions to Offerors—Competitive Acquisition. Offerors should consider proposal instructions contained in the Broad Agency Announcement (BAA) Guide for Industry, which can be accessed on line at https://www.afrl.af.mil/Portals/90/Documents/HQ/BAA%20Ind%20Guide%202020.pdf?ver=7AivkWvoUoptKgypgCuIvw%3d%3d. This guide is specifically designed to assist the offeror in understanding the BAA proposal process.

      3) Technical/Management and Cost/Business volumes should be submitted in separate volumes and must be valid for at least 180 days. Offerors must state this on the cover page of each volume of their proposal.

      4) Proposals must reference the announcement number FA2391-23-S-2403, Call Name, and the relevant Topic Number.

      5) Offerors must submit one electronic copy of their Proposals per the directions in the Request for Proposal. Please contact the Contracting POC identified in the RFP if there are any issues submitting an electronic copy.

         a. The cost file(s) spreadsheets must be in Microsoft Excel and include the formulas for calculating cost element bases (i.e., G&A, O/H, etc.)

      6) Offerors are advised that only Contracting Officers are legally authorized to contractually bind or otherwise commit the Government.

7) The cost of preparing Proposals in response to this BAA is not considered an allowable direct charge to any resulting or any other contract; however, it may be an allowable expense to the normal bid and proposal indirect cost as specified in FAR 31.205-18.

8) **No classified technical proposals or cost volumes are expected. Offerors are encouraged to keep all elements of the proposal package unclassified.** In the rare case where an offeror has a need to submit a classified appendix, please contact the Technical POC identified in the RFP for delivery instructions.

b. **Technical/Management Proposal:**

1) Page Limitations: The following describes proposal page limitations:

a. The Technical/Management Proposal shall be limited to TBD (page count will be provided in the RFP). Technical/Management proposals and Statements of Work must be provided in Microsoft Word. Signed pages may be submitted in Adobe.

b. Font shall be standard 10-point business font Arial.

c. Character spacing must be "normal," not condensed in any manner.

d. Pages shall be double-spaced (must use standard double-space function in Microsoft Word), double sided (each side counts as one page), 8.5 by 11 inches, with at least one-inch margins on both sides, top and bottom.

e. All text, including text in tables and charts, must adhere to all font size and line spacing requirements listed herein. Font and line spacing requirements **do not** have to be followed for illustrations, flowcharts, drawings, diagrams, cover page, table of contents, and restrictive/proprietary markings (in header or footer). These exceptions shall not be used to circumvent formatting requirements and page count limitations by including lengthy narratives in such items.

f. Pages shall be numbered starting with the cover page being Page 1, and the last page being no greater than TBD (page count will be provided in the RFP). The page limitation covers all information including indices, photographs, foldouts (counted as 1 page for each 8.5 by 11 portion) tables, charts, appendices, attachments, resumes, etc.

g. The proposal page limit does not include the offeror's proposed Statement of Work (SOW); however, the same formatting rules apply to the SOW, which is limited to **10** pages.

h. **Please Note: The Government will check the Proposal and SOW for conformance to the stated requirements. Any pages in excess of the**

stated page limitation after the format check will not be considered for review purposes.

2) The Technical/Management proposal(s) shall include a discussion of the nature and scope of the research and the technical approach. Additional information on prior work in this area, descriptions of available equipment, use of base support (if requested), data and facilities and resumes of personnel who will be participating in this effort should also be included as attachments to the technical proposal. These volumes shall include a SOW detailing the technical tasks proposed to be accomplished under the proposed effort and suitable for contract incorporation. ***Do not include any proprietary information in the SOW.*** Refer to the BAA Guide for Industry referenced above to assist in SOW preparation. In addition to the contractor proposed SOW, a Government generated Supplemental SOW containing additional contracting requirements will be included in any resulting contracts (See PACER BAA Attachment 8).

3) Any questions concerning the technical proposal or SOW preparation shall be referred to the Technical POCs listed in the RFP.

c. **Cost/Business Proposal:**

1) Separate the Proposal into a business section and cost section. If adequate price competition does not exist, and the threshold for a negotiated contract is equal to or expected to exceed $2,000,000.00, submission of certified cost or pricing data may be required.

   a. See PACER BAA Attachment 2 for the Model Contract. Note that the document awarded may include contract line items (CLINs)/clauses/articles in addition to those in the model, and/or some of the CLIN/clauses/articles in the model may be deleted, depending on the specific circumstances of the individual award. Any additions or deletions will be negotiated with the offeror prior to award.

   b. The business section should contain all business aspects to the proposed contract, such as type of contract, any exceptions to terms and conditions of the announcement including the model contract, any information not technically related, etc. Provide rationale for exceptions.

   c. Associate Contractor Agreements: Associate Contractor Agreements (ACAs) are agreements between contractors working on Government contracts that require them to share information, data, technical knowledge, expertise, or resources. The contracting officer may require ACAs when contractors working on separate Government contracts must cooperate, share resources or otherwise jointly participate in working on contracts or projects. Prime contractor to subcontractor relationships do not constitute ACAs. For each award, the contracting officer will identify associate contractors with whom agreements are required.

d. Identify any technical data that will be delivered with less than unlimited rights.

e. Subcontracting Plans: For efforts to exceed $750,000, Subcontracting Plans shall be submitted in the cost/business proposal. Reference FAR 19.704 and DFARS 219.704 for subcontracting plan requirements. Small business concerns are exempt from this requirement. If an IDIQ contract arrangement is anticipated, the basis for the subcontracting plan should reflect the entire ceiling amount.

f. Limitations on Pass-Through Charges: As prescribed in FAR 15.408(n)(1) & 15.408(n)(2), provisions 52.215-22, "Limitations on Pass Through Charges- Identification of Subcontract Effort (Oct 2009)," apply.

g. Completed Certifications and Representations (Section K) are due with the Proposal. Certifications and Representations (Section K) can be found in PACER BAA Attachment 3. Offerors may also be required to submit updated or supplemental Certifications and Representations based on the specifics of their proposal.

h. If an offeror proposes the use of GFP, the offer must specifically identify each piece of GFP in the Cost/Business Proposal and propose and substantiate a rental cost for evaluation purposes in accordance with FAR 45.202. Include the following information in the proposal:

   i. A list describing all Government property that the offeror or its subcontractors propose to use on a rent-free basis. The list shall identify the accountable contract under which the property is held and the authorization for its use (from the contracting officer having cognizance of the property);
   ii. The dates during which the property will be used and, for any property that will be used concurrently in performing two or more contracts, the amounts of the respective uses in sufficient detail to support prorating the rent;
   iii. The amount of rent that would otherwise be charged in accordance with FAR 52.245-9, Use and Charges; and
   iv. The voluntary consensus standard or industry leading practices and standards to be used in the management of Government property, or existing property management plans, methods, practices, or procedures for accounting for property.

2) **Cost Element Breakdown:** Clear, concise, and accurate cost proposals reflect the offeror's financial plan for accomplishing the effort contained in the technical proposal. As a part of its cost proposal, the offeror shall submit the information outlined below, together with supporting breakdowns. All direct costs (labor,

material, travel, computer, etc.) as well as labor and overhead rates should be provided by contractor fiscal year (CFY). Detailed cost element breakdowns by Government Fiscal Year or calendar year are not required. The supporting schedules may include summary level estimating rationale used to generate the proposed costs. The cost element breakdown should include the following if applicable.

a. **Direct Labor**: Direct labor should be detailed by number of labor hours by category of labor.

b. **Labor and Overhead Rates**: Direct labor hours, with their applicable rates, must be broken out and the bases used clearly identified. The source of labor and overhead rates and all pricing factors should be identified. For instance, if a Forward Pricing Rate Agreement (FPRA) is in existence, that should be noted, along with the Administrative Contracting Officer's (ACO's) name and telephone number. If the rates are based on current experience in your organization, provide the historical base used and clearly identify all escalation, by year, applied to derive the proposed rates. If computer usage is determined by a rate, identify the basis used and rationale used to derive the rate.

c. **Material/Equipment**: List all material/equipment items by type and kind with associated costs and advise if the costs are based on vendor quotes, data and/or engineering estimates; provide copies of vendor quotes and/or catalog pricing data.

d. **Subcontractor Costs**: Submit all subcontractor proposals and analyses with your cost proposal (See FAR 15.404-3(b)). If the subcontractor will not submit cost and pricing information to the offeror, this information must be submitted directly to the Government for analysis. On all subcontracts and interdivisional transfers, provide the method of selection used to determine the subcontractor and the proposed contract type of each subcontract. An explanation shall be provided if the offeror proposes a different amount than that quoted by the subcontractor. The offeror's proposal must:

    i. Identify principal items/services to be subcontracted.
    ii. Identify prospective subcontractors and the basis on which they were selected. If non-competitive, provide selected source justification.
    iii. Identify the type of contractual business arrangement contemplated for the subcontract and provide rationale.
    iv. Identify the basis for the subcontract costs (e.g., firm quote or engineering estimate, etc).
    v. Identify the cost or pricing data submitted by the subcontractor.
    vi. Provide an analysis of the proposed subcontract in accordance with FAR 15.404-3(b). Provide an analysis concerning the reasonableness,

realism and completeness of each subcontractor's proposal. If the analysis is based on comparison with prior prices, identify the basis on which the prior prices were determined to be reasonable. The analysis should include, but not be limited to, an analysis of: materials, labor, travel, other direct costs and proposed profit or fee rates.

e. **Special Tooling or Test Equipment:** When special tooling, and/or test equipment is proposed, attach a brief description of items and indicate if they are solely for the performance of this particular contract or project and if they are or are not already available in the offeror's existing facilities. Indicate quantities, unit prices, whether items are to be purchased or fabricated, whether items are of a severable nature and the basis of the price. These items may be included under Direct Material in the summary format.

f. **Consultants**: When consultants are proposed to be used in the performance of the contract, indicate the specific project or area in which such services are to be used. Identify each consultant, number of hours or days to be used and the consultant's rate per hour or day. State the basis of said rate and give your analysis of the acceptability of the consultant's rate.

g. **Travel**: Travel costs must be justified and related to the needs of the project. Identify the number of trips, the destination and purpose. Travel costs should be broken out by trip with number of travelers, airfare, per diem, lodging, etc.

h. **Computer Use**: Detail the amount and kind of computer usage, the cost, and how the costs were derived.

i. **Facilities Capital Cost of Money**: If Facilities Capital Cost of Money is proposed, a properly executed DD Form 1861 is required.

j. **Project Funding Profile**: Offerors should include a project funding profile by Government Fiscal Year (GFY) (1 Oct through 30 Sept) for budgetary purposes. This will enable the Government to easily identify program funding needs by GFY.

k. If an offeror takes exceptions to the requirements called out in the announcement (e.g., base support, GFP, CDRLs), the exceptions should be clearly stated in the cost proposal.

l. **Forward Pricing Rate Agreements**: Offerors who have forward pricing rate agreements (FPRA's) and forward pricing rate recommendations (FPRR's) should submit them with their proposal.

m. Cost/Business proposals have no page/formatting limitations.

3) **Proposal Content Summary**: You may be ineligible for award if all requirements of this solicitation are not met on the proposal due date.

3. **White Paper/ Proposal Review Information**

a. **<u>FIRST STEP</u> - White Paper Peer or Scientific Review Criteria**: Those offerors submitting White Papers as assessed as meeting Air Force needs will be asked to submit a Proposal (Second Step). Offerors not selected to proceed will be notified of the disposition of their White Paper. The Government will review White Papers to determine which of them have the potential to best meet the Air Force's needs based on the following criteria, which are listed in **descending** order of importance:

1) Unique and innovative approach proposed to accomplish the technical objectives. New and creative solutions and/or advances in knowledge, understanding, technology, and the state of the art.

2) The offeror's understanding of the scope of the technical effort.

3) Soundness of the offeror's technical approach.

4) Affordability (Proposed ROM Cost Estimate).

b. **<u>SECOND STEP</u> - Proposal Peer or Scientific Review Criteria**: Proposals will be reviewed through a Peer or Scientific Review process.

The following are the standard Proposal Peer or Scientific Review Criteria. The technical aspect, which is ranked as the first order of priority, shall be reviewed based on the following criteria that are of **descending** order of importance:

(1) **Technical:**

(a) Unique and innovative approach proposed to accomplish the technical objectives. New and creative solutions and/or advances in knowledge, understanding, technology, and the state of the art.

(b) The offeror's understanding of the scope of the technical effort.

(c) Soundness of the offeror's technical approach including whether the proposal identifies major technical risks, clearly defines feasible mitigation efforts, and demonstrates related experience and qualifications of technical personnel.

(d) The potential to transition the research and development deliverables to future Government needs. Any proposed restriction on technical data or computer software will be considered.

(2) **Cost/Price:** The cost evaluation includes the realism of the proposed cost. Cost/Price is a substantial factor, but ranked as the second order of priority. (If an offeror proposes the use of GFP other than any GFP identified in this BAA, and that proposed GFP provides the offeror an unfair competitive advantage, then FAR 45.202 requires rental equivalent be applied to the Cost Factor for evaluation purposes only).

c. **<u>SECOND STEP</u> – Proposal Review and Selection Process**

1) **Categories:** Based on the Peer or Scientific Review, Proposals will be categorized as Selectable, or Not Selectable (see definitions below). The selection of one or more sources for award will be based on the Peer or Scientific Review, as well as importance to agency programs and funding availability.

(a) **Selectable:** Proposals are recommended for acceptance if sufficient funding is available.

(b) **Not Selectable:** Even if sufficient funding existed, the proposal should not be funded.

Note: The Government reserves the right to award some, all, or none of the proposals. When the Government elects to award only a part of a proposal, the selected part may be categorized as Selectable, though the proposal as a whole may not merit such a categorization.

2) No other evaluation criteria will be used.

3) Prior to award of a potentially successful offer, the Contracting Officer will make a determination regarding price reasonableness.

4) As indicated in Section I.5.f. above, the Government will conduct a S&T Protection Initial Risk Review only for those Proposals categorized as Selectable and selected for funding and negotiations.

5) Additional terms, conditions, and instructions applicable to the Second Step – Proposal will be sent with the RFP.

6) **Section K**: A completed Section K will be required to be completed with the Proposal requested in the Second Step.

7) **Model Contract**: The BAA contains a model contract as an example only. Applicable Clauses, terms, and conditions may vary per contractor and per proposal and will be addressed during potential negotiations.

4. **Award Administration Information**

   1) **Award Notices:** Offerors will be notified whether their Proposal is recommended for award by e-mail. The notification is not to be construed to mean the award of a contract is assured, as availability of funds and if necessary, successful negotiations are prerequisites to any award.

V. **Other Information**

1. **BAA terms, conditions, and instructions:** All BAA terms, conditions, and instructions contained in BAA FA2391-23-S-2403 shall be considered applicable to this Call and First Step - White Papers/Second Step - Proposals shall be in accordance with the BAA, unless deviations are authorized in this call.

2. **Availability of Funds:** Funds are not presently available for this contract. The Government's obligation under this contract is contingent upon the availability of appropriated funds from which payment for contract purposes can be made. No legal liability on the part of the Government for any payment may arise until funds are made available to the Contracting Officer for this contract and until the Contractor receives notice of such availability, to be confirmed in writing by the Contracting Officer.

3. **White Paper/ Proposal Reminders:** You may be ineligible for award if all requirements of this solicitation are not met.
   a. White Papers are due no later than the due date and time specified in the Call.
   b. If selected to provide a Proposal, Proposals are due no later than the due date and time specified in the RFP.
   c. White Paper and Proposal Page limits are strictly enforced.
   d. White Papers and Proposals must be submitted in the format specified.
   e. White Papers are due to the Contracting POCs identified in the Call.
   f. Offerors other than small businesses must include a subcontracting plan.

<u>Attachments:</u>
1. Statement of Objectives (SOO) dated 18 October 2023
2. Contract Data Requirements List (CDRLs)

CALL: Optimized Propulsion Technologies for Intended Mission Life

Statement of Objectives (SOO)

18 October 2023

BACKGROUND:

The Department of the Air Force (DAF) is currently assessing various options of risk-tolerant unmanned aircraft, which fall between unmanned vehicles and missiles relative to life and cost. In order to realize reductions in lifecycle cost and development schedule, it is envisioned that multiple approaches must be taken; all of which present themselves as higher risk than approaches typically accepted today. Examples include, but are not limited to, replacing physical engine validation testing with virtual validation, improved design processes, and innovative manufacturing approaches. State of the art engine design processes are composed of analytical and empirical methods intended to achieve the required performance, reliability, and cost goals of weapon system programs. While these processes have developed world-leading military engines, they are not without limitations. Identifying additional capability requires development of new design criteria for non-traditional engine usage, higher fidelity analytical tools to reduce overdesign, and improved experimental approaches for assuring engine capability. Advancement in all three areas is necessary to develop the broad range of engine concepts of interest to the DAF.

1.0 OBJECTIVES:

Meet the desire to rapidly acquire engine technologies that are low-cost and sufficiently durable for risk-tolerant, unmanned/autonomous systems. Develop and apply innovative technologies and approaches to provide an engine that sufficiently meets the performance and durability requirements at the lowest cost for an accepted risk. Apply and demonstrate rules and tools to a risk-tolerant, unmanned/autonomous engine that is scalable to 5000 pound thrust and has a nominal service life of 1000 hours. It is expected some rules and tools will be robust enough to apply to expendable and man-rated engine design as well. Demonstrate and validate technologies through appropriate methods to include analysis and/or testing such as bench, component, rig, and/or core and engine demonstration.

2.0 APPLICABLE DOCUMENTS:

2.1 Air Breathing Turbine Engine Aircraft and Missile Propulsion Security Classification Guide (SCG), dated 6 Jan 97, revised 5 Nov 20, or current version.

2.2 Technology Demonstrator Systems Engineering Best Practice, revised 24 Jan 18.

2.3 Test Planning Best Practice, dated 1 Oct 17.

The below tasks are to be completed and priced separately (per task) in accordance with paragraph 3.0, including paragraphs 4, 5, 6, 7 and 8:

3.0 TASKS:

3.1 Tailorable Design Criteria:
Define a spectrum of component design criteria as a function of risk. Choosing an appropriate level of risk for a low-cost unmanned/autonomous engine, select components for criteria application and develop component models. Estimate the level of savings in terms of reduced criteria, reduced cost, reduced manpower and reduced schedule as a result of tailored approach. Plan for testing in Task 3.6. (CDRLS A001, A002, A005, A006, A009, A011, A012, A013) (ATPP Partners Only)

3.2 As-is Component Acceptance Criteria:
Investigate and determine approaches that enable the maximum use of as-manufactured and non-conforming components; approaches include, but are not limited to: M&S, Digital Engineering, inspection, manufacturing process control and *in situ* life prediction. Consider non-aerospace-traditional manufacturing approaches and supply chains. Select traditionally high-cost component(s), define and document acceptance criteria to enable max usage for agreed upon risk, demonstrate approach(s) on component, estimate production cost savings and schedule savings obtained. Plan for testing in Task 3.6. (CDRLS A001, A002, A005, A006, A009, A011, A012, A013) (OPEN)

3.3 Sufficiently Durable Predictive Tools:
Develop advanced predictive analysis tools to increase accuracy of component life prediction. Develop approaches to enable rapid, accurate life assessment for all components. Select component for demonstration and determine improvements on prediction variability and cost, schedule, and manpower savings. Plan for testing in Task 3.6. (CDRLS A001, A002, A005, A006, A009, A011, A012, A013) (ATPP Partners Only)

3.4 Digital Engineering for Fast, Low-Cost Design/Assessment:
Develop processes to collect and exploit digital data available during development, manufacturing, and operations. Define approaches to use data to increase speed, lower cost and support life assessment as related to all phases of development, manufacturing, and operations. Define and execute method to validate models, processes, and approaches. Estimate schedule and cost savings that result from digital process. Plan for testing in Task 3.6. (CDRLS A001, A002, A005, A006, A009, A011, A012, A013) (ATPP Partners Only)

3.5 Innovative Design/Manufacture for Low Cost:
Develop and demonstrate innovative component/engine designs to reduce development time and life cycle cost. Examples include, but are not limited to, reduced part counts, advanced manufacturing techniques, non-aerospace vendors, etc. Demonstrate cost & schedule savings while meeting durability requirements for agreed upon risk. Plan for testing. (CDRLS A001, A002, A005, A006, A009, A011, A012, A013) (OPEN)

3.6 Demonstration Testing and Validation:
Write a test plan for bench, component, rig and/or core and engine demonstration, as appropriate. Engine test plan shall be in accordance with the AFRL test planning best practice. Execute planned tests and correlate test results with pre-test predictions for Tasks 3.1-3.5, as applicable. (CDRLS A001, A002, A005, A006, A007, A009, A011, A012)

3.7 Update Design Criteria and Models:
Using test results from Task 3.6, validate design criteria and durability models, and modify/update criteria used in tasks 3.1-3.5 as required. (CDRLS A001, A002, A005, A006, A009, A011, A012)

4.0 ENVIRONMENTAL PROTECTION:
The contractor shall assess the environmental consequences of the technology being developed from the standpoint of the project itself and from the standpoint of future scale-up for larger quantity production. If the technology has adverse environmental effects, the contractor shall develop suggestions for making the technology environmentally acceptable and indicate what impact the suggestions will have on the technology from an economic standpoint. The contractor shall document the findings. (CDRLs A001, A007)

5.0 RELIABILITY, MAINTAINABILITY & SUPPORTABILITY (RM&S):
The contractor shall give specific consideration to RM&S during the execution of this program. These considerations shall be based on sound, practical engineering judgment, experience and available data. No separate reliability testing program shall be conducted as part of this program however, RM&S data shall be documented and shortcomings reported for consideration during future developments. Supportability considerations should be addressed at levels consistent with Applied Research (6.2) activities. The contractor shall document the findings. (CDRL A001)

6.0 SYSTEM SAFETY:
The contractor shall identify and document any safety hazards introduced during design,

fabrication and testing. The design goal shall be to eliminate all hazards. Any residual hazards and subsequent design risk shall be summarized and provide enough detail to support an informed program management decision with regard to the design's overall safety risk. The contractor shall address the identified hazards and recommend corrective actions. (CDRL A008)

7.0 OPERATIONS SECURITY (OPSEC)

7.1 Purpose

OPSEC must be an integral part of our daily activities. As we maintain security on our future technologies that are vital to national interest, we must recognize and prepare for the threat poised against our technology. Department of Defense policies mandate a high degree of security throughout the acquisition process. However, heightened security awareness and threat-based countermeasures are particularly essential during the research and development phase when our technology is most vulnerable to espionage, sabotage, or exploitation. It is the obligation of each employee or persons involved on this contract to be constantly aware of and strictly adhere to security requirements designed to protect sensitive unclassified and other information and resources produced by acquisition, research and development, and technological security efforts outlined in this SOW. The contractor shall ensure employees received training and follow appropriate OPSEC measures during the performance of this contract. (CDRL A010)

7.2 Coordination and Update

The contractor shall develop an OPSEC plan to protect classified and unclassified sensitive data from exploitation. The contractor shall be responsible to coordinate on all OPSEC requirements and the OPSEC plan. The contractor shall also update the OPSEC plan when updated critical or other information is received including, as appropriate, at the sub-task level. The OPSEC plan shall apply to the task order. In addition, the contractor shall submit an updated SF 424 annually, or when new senior/key personnel are added. (CDRL A010, A011)

7.3 Compliance

The contractor shall comply with the approved OPSEC plan. OPSEC surveys to measure the effectiveness of the OPSEC program may be conducted by the government. The contractor shall comply with these surveys. The contractor shall train personnel in, and follow appropriate OPSEC measures during, the performance of this contract. (CDRL A010)

8.0 PROGRAM & FINANCIAL MANAGEMENT:

The contractor shall exercise administration and management functions during this effort such as: scheduling of activities and milestones; describing status; outlining contractor activity and progress toward accomplishment of objectives; planning, forecasting, and making recommendations on funding and funding changes; program planning; and describing in detail the conduct and overall results of this effort. The contractor shall ensure the documentation of this program by timely digital / photographic coverage of significant events and milestones. The contractor shall conduct annual reviews of this effort. (CDRLs A001, A002, A003, A004, A005, A006, A007, A008, A009, A010, A011)

9.0 CDRL Requirements:

A001: Scientific and Technical Reports, Final Report (Once)
A002: Funds and Manhour Expenditure Report (Monthly)
A003: Contractor Spend and Expenditure Plan (Monthly)
A004: Contract Funds and Status Report (Quarterly)
A005: Status Report (Monthly)
A006: Presentation Material (As Required)
A007: Test Plan (As Required)
A008: System Safety Hazard Analysis Report (Once)
A009: Digital Imaging (As Generated)
A010: Operations Security Plan (As Generated)
A011: Technical Information Report (Annually)
A012: Technical Data Package (As Generated)
A013 Acquisition and Sustainment Data Package (ASDP) (Annually)

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

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OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER
0001	A	N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A001	SCIENTIFIC AND TECHNICAL REPORTS	Final Report	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-MISC-80711A/T	CSOW	AFRL/RQTI	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
XX	B	ONE/R	See Block 16*

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
A	End of Tech Effort	See Block 16*

16. REMARKS

Block 4: Document format shall minimally conform to guidance described in the attached ANSI-based AFRL Format Guidelines. Include a completed Standard Form (SF) 298. If the Final Report contains data that is being delivered with less-than-unlimited rights, the data shall be appropriately marked within the Final Report.

NOTE: When the sensitivity of STINFO in draft and final deliverable documents meets the requirements of Controlled Unclassified Information (CUI) as dictated by EO 13556, "Controlled Unclassified Information," contractors must properly mark pages of their submitted documents with the acronym “CUI” at the top and bottom of each page and include the CUI designation indicator on the title page.

BLOCK 9: B: Distribution authorized to US Government agencies only; 21 June 2023. Refer other requests for this document to AFRL/RQTI.

WARNING - This document contains technical data whose export is restricted by the Arms Export Control Act (Title 22, U.S.C., sec 2778 et seq., as amended) or the Export Administration Act of 1979, as amended, Title 50, U.S.C. App 2401 et seq. Violations of these export laws are subject to severe criminal penalties. Disseminate in accordance with provisions of DoD Directive 5230.25.

DESTRUCTION NOTE - Destroy by any method that...
(continued on next page)

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Casey M. Holycross AFRL/RQTI (937) 656-5530 Ext:	21-JUN-2023		

16. REMARKS *(Continued)*

will prevent disclosure of contents or reconstruction of the document.

NOTE: All digital files shall be encrypted or password protected in transmission; passwords shall be provided in a separate communication.

Block 10: The contractor shall deliver the Scientific and Technical Report, in final format, no later than the date specified in the Schedule. USAF will review and, if necessary, return the report with comments no later than the date specified in the Schedule. If the report is returned to the contractor with comments, the contractor shall deliver the publication-ready copy of the report no later than the date specified in the Schedule.

Block 11: End of Technical Effort.

Block 12. 30 days from Block 11. Approval/disapproval by letter from the Air Force Program Manager within 30 days after receipt. Disapproval requires correction/resubmission within 30 days after receipt of Air Force comments.

The contractor shall deliver a draft of the final report IAW the ANSI-based AFRL Format Guidelines (attached), in editable MS Word format and editable PDF on appropriately labeled CD-ROM or DVD (label to include report title, contract number, CUI markings as required, distribution statement, and any data rights and/or export control notices) via approved postal delivery service, or as an attachment on a secure e-mail or sharing through other secure network systems such as DoD SAFE within 30 calendar days after completion of the technical effort. The AFRL Program Manager will take no more than 30 calendar days after delivery to review the draft final report and return technical and STINFO comments to the contractor. The contractor shall incorporate the combined STINFO and technical comments.

Block 13: End of Contract, 90 days from Block 11. The contractor shall deliver the final version of the report in publication-ready condition within 60 calendar days after the date of the draft submission (date in Block 12). The final report shall be delivered as described in the instruction in Block 12 above.

NOTE: Submittal of DD Form 250Z, Final Receiving Report or WAWF prior to acceptance notification will result in rejection of the Final Receiving Report. Hard date indicating when final tech report is due can be found in Section F in the contract.

The report will be published with the Defense Technical Information center (DTIC) by the AFRL STINFO officer.

Under no circumstances shall the contractor submit any version of the scientific and technical report to DTIC.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved
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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER
0001	A	N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A002	FUNDS AND MAN-HOUR EXPENDITURE REPORT		

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-FNCL-80331A/T	CSOW	AFRL/RQTI	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	B	MTHLY	**

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
N/A	*	**

16. REMARKS

Tailored to allow contractor's format.

* At the close of the contractor's monthly accounting period.

** 25 days after Block 11 time.

Submit electronically. Electronic submittals shall be encrypted or password protected.

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AFRL/RQKPB	0	1	0
15. TOTAL →	0	4	0

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0001	A	N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A003	CONTRACTOR SPEND AND EXPENDITURE PLAN		

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-MGMT-82355/T	CSOW	AFRL/RQTI	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	B	MTHLY	**

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
N/A	*	**

16. REMARKS

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AFRL/RQKPB	0	1	0
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0001	A	N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A004	CONTRACT FUNDS STATUS REPORT (CFSR)		

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-MGMT-81468A/T	CSOW	AFRL/RQTI	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	B	QRTLY	**

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
N/A	*	***

16. REMARKS

Tailored to alow contractor's format. Tailored so that the report contains forecasts by month for the next six months, by quarter for the remaining fiscal year, and by year for the remaining fiscal years. CFSR data shall be reconciled to the Governments fiscal year end at 30 September if the contractor's fiscal year end does not coincide with the Government's fiscal year end.

* The last day of the contractor's monthly accounting period nearest the end of the governments fiscal year quarter.

** The initial submission shall be within 25 calendar days after the close of the contractor's monthly accounting period nearest the end of the first government fiscal year quarter after contract award.

***Subsequent submissions shall be 25 calendar days after Block 11 time.

Submit electronically. Electronic submittals shall be encrypted or password protected.

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AFRL/RQKPB	0	1	0
15. TOTAL →	0	4	0

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CONTRACT DATA REQUIREMENTS LIST

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0001	A	TDP _____ TM _____ OTHER N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A005	STATUS REPORT		

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-MGMT-80368A/T	CSOW	AFRL/RQTI	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	B	MTHLY	**

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
N/A	*	**

16. REMARKS

Tailored to allow contractor's format and to delete para 3.2.3.

Submit electronically, except when final report is due to be submitted, then omit this item.

* At the close of the contractor's monthly accounting period.

** 25 days after Block 11 time.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: B: Distribution authorized to US Government agencies only.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AFRL/RQTI	0	1	0
/ACO	0	1	0
AFRL/RQKPB	0	1	0
15. TOTAL →	0	3	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Casey M. Holycross AFRL/RQTI (937) 656-5530 Ext:	21-JUN-2023		

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Department of Defense, Executive Services and Communications Directorate (0704-0188). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. **Please do not return your form to the above organization. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.**

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER
0001	A	N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A006	PRESENTATION MATERIAL		

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-ADMN-81373/T	CSOW	AFRL/RQTI	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	B	ASREQ	*

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
N/A	*	

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AFRL/RQTI	0	1	1
15. TOTAL →	0	1	1

16. REMARKS

Tailored to require only view graphs and hard copy. Submittal of the actual viewgraph is not required if the presentation is computer generated.

ASREQ means as required to document topics under discussion at briefings and reviews.

* Submit at each briefing or review as appropriate.

Maximum # of view graphs shall not exceed 2,000 for this contract.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: B: Distribution authorized to US Government agencies only.

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Casey M. Holycross AFRL/RQTI (937) 656-5530 Ext:	21-JUN-2023		

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER
0001	A	N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A007	TEST PLAN		

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-NDTI-80566A/T	CSOW	AFRL/RQTI	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	B	ASREQ	*

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
A	N/A	**

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AFRL/RQTI	1	1	0
15. TOTAL →	1	1	0

16. REMARKS

Tailored to allow contractor's format.

ASREQ means as required to document plans for testing through out this effort.

*45 days prior to testing.

Approval/disapproval by letter from the Air Force Program Manager within 15 days after receipt.

**Disapproval requires correction/resubmission within 30 days after receipt of Air Force comments.

NOTE: Testing shall not begin until after contractor receipt of Air Force notice to proceed with testing.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: B: Distribution authorized to US Government agencies only.

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Casey M. Holycross AFRL/RQTI (937) 656-5530 Ext:	21-JUN-2023		

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER
0001	A	N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A008	SYSTEM SAFETY HAZARD ANALYSIS REPORT (SSHA)		

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-SAFT-80101B/T	CSOW	AFRL/RQTI	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	B	1TIME	ASGEN

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
N/A	N/A	N/A

16. REMARKS

Tailored to allow contractor's format and to require only the [PHA, the SHA, the SSHA or the O&SHA] report.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: B: Distribution authorized to US Government agencies only.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AFRL/RQTI	0	1	0
15. TOTAL →	0	1	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Casey M. Holycross AFRL/RQTI (937) 656-5530 Ext:	21-JUN-2023		

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER
0001	A	N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A009	DIGITAL IMAGING		

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-MISC-81579/T	CSOW	AFRL/RQTI	

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

16. REMARKS

Tailored to allow contractor's format.

Submit electronically.

* Submit as generated.

DO NOT SUBMIT CLASSIFIED PHOTOS OR NEGATIVES TO 88ABW/PAV, 255-3645.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AFRL/RQTI	1	1	0
15. TOTAL	1	1	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Casey M. Holycross AFRL/RQTI (937) 656-5530 Ext:	21-JUN-2023		

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER
0001	A	N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A010	OPERATIONS SECURITY (OPSEC) PLAN		

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-MGMT-80934/T	CSOW	AFRL/RQTI	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	B	ASGEN	ASGEN

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
N/A	N/A	ASGEN

16. REMARKS

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BLOCK 9: B: Distribution authorized to US Government agencies only.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AFRL/RQTI	0	1	0
15. TOTAL	0	1	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Casey M. Holycross AFRL/RQTI (937) 656-5530 Ext:	21-JUN-2023		

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER
0001	A	N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A011	TECHNICAL INFORMATION REPORT	SF 424 Annual Update	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-MISC-80652/T	CSOW	AFRL/RQTI	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	B	ANNLY	*

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
N/A	12MAC	** R/ASR

16. REMARKS

Tailored to allow for actual standard Form 424 Research and Related Senior Key Person Profile is preferred or Contractor Format is acceptable. Submit electronically in Microsoft Office Suite compatible format, PDF, or RTF as coordinated with the COTR. For email delivery include the contract number in the subject line.

Provide update and supplements to this document as appropriate during the period of performance. Identify changes from previous versions. Permanent change pages shall conform to the requirements, quality, style and format of the basic documentation.

* 30 days after Block 11.

** Every 12 months after Block 12 through out the technical effort.

R/ASR means revisions as required to keep the SF24 up to date, make changes or corrections; submit revisions as generated.

Submit reproducible on media compatible with MS-Office for Windows.

Submit classified Data (up to and including SECRET) via the SIPRNET or as coordinated with the requiring office. Submit Export Controlled Data as coordinated with the coordinating with the requiring office.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: B: Distribution authorized to US Government agencies only.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AFRL/RQ Security	0	1	0
AFRL/RQTI	0	1	0
15. TOTAL →	0	2	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Casey M. Holycross AFRL/RQTI (937) 656-5530 Ext:	21-JUN-2023		

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER
0001	A	N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A012	TECHNICAL DATA PACKAGE		

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-SESS-80776A/T	CSOW	AFRL/RQTI	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	B	ASGEN	ASGEN

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
N/A	N/A	ASGEN

16. REMARKS

Tailored to allow contractor's format.

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BLOCK 9: B: Distribution authorized to US Government agencies only.

Tailored to allow contractor's format.

Submit electronically.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AFRL/RQTI	0	1	0
15. TOTAL	0	1	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Casey M. Holycross AFRL/RQTI (937) 656-5530 Ext:	21-JUN-2023		

CONTRACT DATA REQUIREMENTS LIST
(1 Data Item)

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OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY: TDP ____ TM ____ OTHER
0001	A	N/A REF: DOD 5010.12-I AMSDL

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
	FA2391-23-S-2403	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
A013	ACQUISITION and SUSTAINMENT DATA PACKAGE (ASDP)		

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
DI-SESS-82361/T	CSOW	AFRL/RQTI	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION
LT	B	ANNLY	12MAC

8. APP CODE	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION
N/A	N/A	*

16. REMARKS

Tailored to allow for contractor format.

* Every 12 months through out the technical effort.

Submit electronically. Electronic submittals shall be encrypted or password protected.

BLOCK 9: B: Distribution authorized to US Government agencies only.

14. DISTRIBUTION

a. ADDRESSEE	b. COPIES Draft	Final Reg	Final Repro
AFRL/RQTI	0	1	0
15. TOTAL →	0	1	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Casey M. Holycross AFRL/RQTI (937) 656-5530 Ext:	21-JUN-2023		

INSTRUCTIONS FOR COMPLETING DD FORM 1423

(See DoD 5010.12-M for detailed instructions.)

FOR GOVERNMENT PERSONNEL

Item A. Self-explanatory.

Item B. Self-explanatory.

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

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

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

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

Item G. Signature of preparer of CDRL.

Item H. Date CDRL was prepared.

Item I. Signature of CDRL approval authority.

Item J. Date CDRL was approved.

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

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

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

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

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

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

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

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

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

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

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

Item 12. Specify when first submittal is required.

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

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

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

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

FOR THE CONTRACTOR

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

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

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

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

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

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

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

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

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

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