

NNM10320402Q

CONTRACT/RFP

EXHIBIT NUMBER

J-2

ATTACHMENT NUMBER

Hydraulic Power Supply Station

PROJECT/SYSTEM

DATA PROCUREMENT DOCUMENT

Contractor

CONTRACTOR

January 4, 2010

DATE

National Aeronautics and
Space Administration

National Aeronautics and Space Administration					DATA PROCUREMENT DOC.	
DOCUMENT CHANGE LOG					NO. ISSUE	
					1335 RFQ	
INCORPORATED REVISIONS OUTSTANDING REVISIONS				AS OF: 01-04-10		SUPERSEDING:
						PAGE:
AUTHORITY (DPD Revision)	PORTION AFFECTED - PAGE NO./NO.				REMARKS	
	INTRO	SGR	DRL	DRD		

1.0 INTRODUCTION

1.1 Scope: Subject to the Rights in Data clause, this Data Procurement Document (DPD) sets forth the data requirements in each Data Requirements Description (DRD) and shall govern that data required by the DPD for the contract. The contractor shall furnish data defined by the DRDs listed on the Data Requirements List (DRL) by category of data, attached hereto, and made a part of this DPD. Such data shall be prepared, maintained, and delivered to NASA in accordance with the requirements set forth within this DPD. In cases where data requirements are covered by a Federal Acquisition Regulation (FAR) or NASA FAR Supplement (NFS) clause, that clause shall take precedence over the DPD, consistent with clause FAR 52.215-8.

1.2 DPD Description: This DPD consists of a Document Change Log, an Introduction, a Statement of General Requirements, DPD maintenance procedures, a DRL, and the DRDs.

1.2.1 General Requirements: The general requirements, as specified in paragraph 2.0 of this DPD, prescribe those requirements applicable to the preparation, maintenance, and delivery of data that are better defined in aggregate than in the individual DRDs.

1.2.2 Data Requirements List (DRL): Throughout the performance of the contract, the DRL provides a listing by data category of the data requirements of the DPD.

1.2.3 Data Requirements Descriptions (DRDs)

1.2.3.1 Each data requirement listed on the DRL is given complete definition by a DRD. The DRD prescribes content, format, maintenance instructions, and submittal requirements.

1.2.3.2 For the purpose of classification and control, DRDs of this DPD are grouped into the following broad functional data categories:

<u>CATEGORY SYMBOL</u>	<u>DESCRIPTION</u>
CD	Contractual Data
DE	Design and Development Engineering
LS	Logistics/Support
SA	Safety

1.2.3.3 The symbols representing these data categories form part of the prefix of the DRD identification number. The first numerical characters reflect the DPD number.

1.2.3.4 To facilitate the usage and maintenance of the DPD, the DRDs have been sectionalized in accordance with the above data categories.

1.2.3.5 The DRDs are filed by data category and are in alpha-numeric sequence as listed on the DRL page (or pages) that precedes the DRDs.

1.2.4 Document Change Log (DCL): The Document Change Log chronologically records all revision actions that pertain to the DPD.

1.2.5 DPD Maintenance Procedures: Maintenance procedures define the detailed methods to be employed in maintaining the DPD. Detailed maintenance procedures are specified in paragraph 3.0 of this DPD.

1.3 Data Types for Contractual Efforts: The types of data and their contractually applicable requirements for approval and delivery are:

<u>TYPE</u>	<u>DESCRIPTION</u>
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- 1* All issues and interim changes to those issues require written approval from the requiring organization before formal release for use or implementation.

- 2* NASA reserves a time-limited right to disapprove in writing any issues and interim changes to those issues. The contractor shall submit the required data to NASA for review not less than 45 calendar days** prior to its release for use. The contractor shall clearly identify the release target date in the "submitted for review" transmittal***. If the data is unacceptable, NASA will notify the contractor within 45 calendar days** from the date of submission, regardless of the intended release date***. The contractor shall resubmit the information for reevaluation if disapproved. The submittal is considered approved if the contractor does not receive disapproval or an extension request from NASA within 45 calendar days**.
- 3 These data shall be delivered by the contractor as required by the contract and do not require NASA approval. However, to be a satisfactory delivery, the data shall satisfy all applicable contractual requirements and be submitted on time.
- 4 These data are produced or used during performance of the contract and are retained by the contractor. They shall be delivered only when NASA requests in writing and shall be delivered in accordance with the instructions in the request. The contractor shall maintain a list of these data and shall furnish copies of the list to NASA when requested to do so.
- 5 These data are incidental to contract performance and are retained by the contractor in those cases where contracting parties have agreed that formal delivery is not required. However, the Contracting Officer or the Contracting Officer's Representative shall have access to and can inspect this data at its location in the contractor's or subcontractor's facilities, or in an electronic database accessible to the Government.
- * Note: Type 1 and Type 2 data may be placed under NASA configuration management control when designated by NASA. CM control requires the contractor to submit Type 1 and Type 2 data updates through Engineering Change Proposals (ECPs).
- ** Note: This time limit may be tailored for individual DRDs to meet the requirements of the procuring activity.
- *** Note: If the contractor does not identify a release target date or if the intended release date is shorter than 45 calendar days from the date of submission, the 45 calendar days review cycle stands (or the tailored Type 2 time limitation for the specific procurement).

2.0 STATEMENT OF GENERAL REQUIREMENTS

- 2.1 Applicable/Reference Documents: Documents included as applicable documents in this DPD are the issue specified in the Statement of Work, and form a part of the DPD to the extent specified herein. Applicable documents listed in Item 15.2 of a DRD are applicable only to the preparation of the deliverable documentation described by that DRD.

References to documents other than applicable documents in the data requirements of this DPD may sometimes be utilized, and shall be indicated in 13. Remarks of the DRD. These do not constitute a contractual obligation on the contractor. They are to be used only as a possible example or to provide related information to assist the contractor in developing a response to that particular data requirement.

2.2 Subcontractor Data Requirements

- 2.2.1 The contractor shall specify to subcontractors and vendors, if any, the availability source of all data required for the satisfactory accomplishment of their contracts. The contractor shall validate these requirements for documents when appropriate; where the requirement concerns other contractor data, the contractor shall provide his subcontractor or vendor with the necessary documents. All such requests shall be accomplished under the auspices of the contractor.
- 2.2.2 Reference to subcontractor data in the contractor's responses is permissible, providing the references are adequate and includes such identification elements as title, number, revision, etc., and a copy of the referenced data is supplied with the response document at time of delivery to NASA.

2.3 Data Distribution, Format, Data Restriction Marking, and Transmittal

2.3.1 Distribution: Distribution of required documentation shall be in quantities determined by the Contracting Officer. Recipient names and email (if applicable) addresses shall be noted on a separate distribution list to be furnished by the Contracting Officer. The Contracting Officer's letter may include other information pertinent to delivery of data, as required.

2.3.2 Format

2.3.2.1 Electronic Format: Electronic submission of data deliverables is preferred. Electronic deliverables shall be printable. Data deliverables shall be delivered to NASA in the format specified below unless a specific format is required by a DRD. Data submittals shall consist of a single Adobe Acrobat PDF file and the native format electronic file(s). The preferred native formats include Microsoft Word, Excel, PowerPoint or CAD drawing plot file, as appropriate. Where a single native format file is not possible, multiple files may be integrated into a single ZIP file for submission. The organization of the contents of the integrated ZIP file shall be made readily apparent to the reader, and each file within the integrated product shall be clearly identifiable and traceable within the organization of the integrated product. If files are fragmented, file names shall be labeled logically and contiguously, and the files shall be easily reassembled or merged (e.g. 1 filename, 2 filename, 2a filename, etc.). The software versions shall be confirmed prior to submittals.

2.3.2.2 Hardcopy Format: In addition to the electronic submittal, one hardcopy package of specific data deliverables shall be delivered to the NASA Contracting Officer for the Government contract file. This requirement is indicated in Item 15.4, Format of each DRD. The hardcopy package shall consist of the contractor's Transmittal Memo and one copy of the data deliverable.

2.3.3 Data Restriction Marking

2.3.3.1 Data Restriction Determination and Marking Requirements: The contractor shall determine the data restriction that applies to each data deliverable and mark the data restriction on the data coversheet, or indicate the data restriction in the data transmittal package if the data format precludes identification of data restriction directly in the data. The contractor shall make a determination for each individual data deliverable item, and shall not apply a default or blanket data restriction marking to all data deliverables (e.g., "data may be export restricted"). If NASA does not agree with the contractor applied data restriction, the NASA Contracting Officer shall return the data to the contractor, cancel the markings, or ignore the markings consistent with the procedures set forth in the "data rights" clause(s) contained in the contract.

2.3.3.2 Data Restriction Categories and Marking Statements: The contractor shall consider the following data restriction categories, as a minimum, and utilize specified marking statements.

If data delivered under this contract is subject to the International Traffic in Arms Regulations (ITAR), the data shall contain an "ITAR Notice" as follows:

International Traffic in Arms Regulations (ITAR) Notice

This document contains information which falls under the purview of the U.S. Munitions List (USML), as defined in the International Traffic in Arms Regulations (ITAR), 22 CFR 120-130, and is export controlled. It shall not be transferred to foreign nationals, in the U.S. or abroad, without specific approval of a knowledgeable NASA export control official, and/or unless an export license/license exemption is obtained/available from the United States Department of State. Violations of these regulations are punishable by fine, imprisonment, or both.

If data delivered under this contract is subject to the Export Administration Regulations (EAR), the data shall contain the “EAR Notice” as follows:

Export Administration Regulations (EAR) Notice

This document contains information within the purview of the Export Administration Regulations (EAR), 15 CFR 730-774, and is export controlled. It may not be transferred to foreign nationals in the U.S. or abroad without specific approval of a knowledgeable NASA export control official, and/or unless an export license/license exception is obtained/available from the Bureau of Industry and Security, United States Department of Commerce. Violations of these regulations are punishable by fine, imprisonment, or both.

If the contract contains FAR 52.227-14 *Alternate II*, the “Limited Rights Notice” may be applicable to data (other than computer software) delivered under this contract.

If the contract contains FAR 52.227-14 *Alternate III*, the “Restricted Rights Notice” may be applicable to computer software delivered under this contract.

If the contract contains FAR 52.227-20, the “SBIR Rights Notice” may be applicable to SBIR data delivered under this contract.

If the contract contains NFS 1852.237-73, a sensitive information legend may be applicable to information delivered under this contract

In accordance with the applicable data clause (e.g., FAR 52.227-14(c) or FAR 52.227-20(c)), the contractor may be able to assert a copyright claim in data delivered under this contract. When claim to copyright is made, the Contractor shall affix the applicable copyright notices of 17 U.S.C. 401 or 402 and acknowledgment of Government sponsorship (including contract number) to the data when such data are delivered to the Government.

2.3.4 Transmittal

2.3.4.1 Data shall be transmitted to NASA by email, CD or DVD, hardcopy, or other mechanism agreed to by the Contracting Officer, COTR, and Project representatives who are responsible to receive, index, and store the data deliverables.

2.3.4.2 If email is used to transmit data deliverables, the email size shall be 10 Megabytes or less to ensure receipt by the NASA email servers. Encrypted email format shall be used to transmit data which has been judged sensitive by the contractor (e.g., export controlled, limited rights data, SBIR, restricted computer software, copyrighted, etc.).

2.3.4.3 Data Transmittal Package: Each data transmittal package shall include:

a. Transmittal memorandum that specifies the meta-data below for each data transmittal:

1. Contract number.
2. Data Requirements Description (DRD) number.
3. DRD data type (specified in Item 3 on the DRD).
4. Submission date or milestone being satisfied.
5. Document number and revision.
6. Document title.
7. File names of all files being delivered; file naming convention shall clearly identify the document being delivered.
8. Distribution (as defined by the Contracting Officer’s letter).
9. Requested response date.
10. Contractor assigned data restriction (export controlled, limited rights data, SBIR, restricted computer software, copyrighted, etc.) if not marked on data.

11. NASA Records Retention Schedule (NRRS) number, if applicable. (See NPR 1441.1, NASA Records Retention Schedules)
- b. Printable electronic files or hardcopy data.
- 2.3.5 Electronic data deliverables should be transmitted directly to the MSFC Repository through the Digital Asset Manager web interface. Instructions for electronic data submittals can be found at <http://avmcc.msfc.nasa.gov/repository/index.php>. Document submitters must register for a Documentum user account through the [NASA Account Management System](#) (NAMS). Computer-Aided Design (CAD) drawings shall be submitted in the original native vector, Hewlett-Packard Graphic Language (HPGL), and raster image formats.
- 2.4 **Printing:** All printing, duplicating, or binding shall be in accordance with NFS 1852.208-81, Restrictions on Printing and Duplicating. Printing of formal reports and Type 1 and 2 data in book format shall be in accordance with the following general specifications:
- Method of reproduction – offset/xerography.
 - Finished size – 8 1/2” X 11”.
 - Paper – 20-pound opaque bond.
 - Cover – Litho cover stock.
 - Pages shall be printed on both sides; blank pages shall be avoided when possible.
 - Oversize pages shall be avoided when possible, but if necessary shall be folded to 8 1/2” X 11”.
 - Binding shall be the most economical method commensurate with the size of the report and its intended use.
- 2.5 **Contractor’s Internal Documents:** The contractor’s internal documents shall be used to meet the data requirements of this DPD unless a specific format is required by the applicable DRD.
- 2.6 **Document Identification:** Type 1 and 2 documents published by the contractor and submitted in response to the data requirements of this DPD shall be identified within an organized identification numbering system prescribed to NASA by the contractor and, if applicable, as approved by NASA. For all data types, the document number, change legend, date, and title constitute the minimum identification of the specific document and shall appear on the cover and title page. The contract number shall also appear on the cover and title page as separate markings. The originator and organization shall be included on the title page. The document number, change legend, and date shall appear on each page of the document. In the front matter of each document, identify the DPD number and applicable DRD number(s) required for document preparation. Successive issues or revisions of documents shall be identified in the same manner as the basic issue and shall have appropriate change identification. Drawings and ECP's are excluded from the marking provisions of this paragraph. All Type 1 documentation, excluding configuration management requirements, shall be marked “PRELIMINARY PENDING NASA APPROVAL,” and once approved shall be reissued with “APPROVED BY NASA” and the date and approval authority annotated on the cover.
- 2.7 **Reference to Other Documents and Data Deliverables in Data Submittals:** All referenced documents shall be made readily available to the cognizant NASA organization upon request. The contractor should make sure that the references are available to NASA in a manner which does not incur delays in the use of the response document. Reference may be made, within one data submittal, to other data submittals delivered in response to this DPD in those cases where the data required by one DRD may have been delivered by the contractor in response to another DRD. The reference to previously-submitted data shall include the applicable DRD number, data submittal version date, and location within the referenced document.
- 2.8 **Maintenance of Type 1 Document Submittals**
- 2.8.1 Revisions of Type 1 documentation may be accomplished either by individual page revision or by a complete reissue of the document identified in accordance with requirements of 2.6 above, with the exception of drawings (which shall be revised in accordance with contract configuration management requirements).
- 2.8.2 Individual page revisions shall be made as deemed necessary by the contractor or as directed by the Contracting Officer.

- 2.8.3 A Type 1 document shall be completely reissued when, in the opinion of the contractor and/or NASA, the document has been revised to the extent that it is unusable in its present state, or when directed by the Contracting Officer. When complete reissues are made, the entire contents of the document shall be brought up to date and shall incorporate revised pages. All revisions shall be recorded. A revision log shall identify complete reissues except for periodic reports and documents which are complete within themselves as final.
- 2.8.4 Changes of a minor nature to correct obvious typing errors, misspelled words, etc., shall only be made when a technical change is made, unless the accuracy of the document is affected.
- 2.8.5 All revised pages shall be identified by a revision symbol and a new date. Each document shall contain a log of revised pages that identify the revision status of each page with the revision symbol. This list shall follow the table of contents in each document. The line or lines revised on a given page shall be designated by the use of vertical line in the margin of the page, and the change authority shall be indicated adjacent to the change.
- 2.8.6 Contractor Type 1 document shall not be submitted containing pen and ink markups which correct, add to, or change the text, unless schedule problems exist and approval is obtained in writing from the Contracting Officer. Such markups, however, shall not exceed 20 percent of the page content and shall be acceptable provided that the reproduced copies are legible. In addition, hand-drawn schematics, block diagrams, data curves, and similar charts may be used in original reports in lieu of formally prepared art work, as long as legibility of copies is not impaired. Acceptability shall be determined by the Contracting Officer.
- 3.0 DPD MAINTENANCE PROCEDURES
- 3.1 NASA-Initiated Change: New and/or revised data requirements shall be incorporated by contract modification to which the new or revised portion of the DPD shall be appended. The contractor shall notify the Contracting Officer in the event a deliverable data requirement is imposed and is not covered by a DRD, or when a DRD is changed by a contract modification and for which no revision to DPD is appended. In such cases, the contractor shall submit the requested changes to NASA for approval. See paragraph 3.3.1 for change procedures.
- 3.2 Contractor-Initiated Change: Contractor-proposed data requirements or proposed changes to existing requirements shall be submitted to NASA for approval.
- 3.3 DPD Change Procedures
- 3.3.1 Changes to a contractual issue of this DPD shall be identified by NASA on the Document Change Log.
- 3.3.2 The date of the DPD shall be entered under the "as of" block of the Document Change Log. The date that was in the "as of" block shall be entered in the "Superseding" block.
- 3.3.3 The Document Change Log entitled "Incorporated Revisions" shall be changed to indicate the modification number, portions affected, and remarks. All changes to the DPD/DRDs shall be identified in the "Remarks" column.
- 3.4 DPD Reissues
- 3.4.1 When conditions warrant, the DPD shall be reissued by NASA for each contract modification that affects the DPD and shall supersede the existing DPD in its entirety. Reissues shall be issued by contractual direction.
- 3.4.2 All revision dates shall remain in the Date Revised block on all DRDs. The issue symbol, which shall commence with "A" and progress through "Z," shall be entered in the DPD identification block of each DRD page of the DPD.

Hydraulic Power Supply Station

Data Requirements List

<u>DRD</u>	<u>DATA TYPE</u>	<u>TITLE</u>	<u>OPR</u>
CD – Contractual Data 1335CD-001	3	Technology Reports	ED10
DE – Design and Development Engineering 1335DE-001	3	Structural Strength and Fatigue Analysis Reports	ER41
LS – Logistics Support 1335LS-001	2	Government Property Management Plan	AS41
MA – Management 1335MA-001	2/3	Major Review Documentation	ED11
SA – Safety 1335SA-001	3	Mishap and Safety Statistics Reports	QD12

DATA REQUIREMENTS DESCRIPTION (DRD)

- | | | |
|-------------------------|------------|--------------------------------------|
| 1. DPD NO.: 1335 | ISSUE: RFQ | 2. DRD NO.: 1335CD-001 |
| 3. DATA TYPE: 3 | | 4. DATE REVISED: |
| | | 5. PAGE: 1/3 |
6. **TITLE:** Technology Reports
7. **DESCRIPTION/USE:** Provides NASA with technical information concerning any invention, discovery, improvement, or innovation made by a contractor in the performance of work under this contract for the purpose of disseminating this information to obtain increased use. Also, to provide NASA with data to review for possible patentable items.
8. **OPR:** ED10 9. **DM:** ER35
10. **DISTRIBUTION:** Per Contracting Officer's letter
11. **INITIAL SUBMISSION:** Disclosure of Invention and New Technology (NASA Form 1679): Within 2 months of identification of subject invention.
Interim NASA New Technology Summary Report (NTSR) Form: 12 months from the date of the contract. Final NASA New Technology Summary Report (NTSR) Form: Immediately or within three months after completion of contracted work. Final payment is contingent upon submission of the Final NTSR.
Utilization Report: Upon Contracting Officer's request.
12. **SUBMISSION FREQUENCY:** Disclosure of Invention and New Technology (NASA Form 1679): For each subject invention.
Interim NASA New Technology Summary Report (NTSR) Form: Every 12 months.
Final NASA New Technology Summary Report (NTSR) Form: Immediately or within three months after completion of contracted work. Final payment is contingent upon submission of the Final NTSR.
Utilization Report: No more frequently than annually.
13. **REMARKS:** Copies of NASA Forms 1679 and the NASA New Technology Summary Report (NTSR) Form (Interim and Final) may be obtained and filled out electronically at: <http://entre.nasa.gov/>. These forms may also be obtained from the New Technology Representative ([mailto: Carolyn.E.McMillan@nasa.gov](mailto:Carolyn.E.McMillan@nasa.gov)).
14. **INTERRELATIONSHIP:** SOW paragraph 3
15. **DATA PREPARATION INFORMATION:**
- 15.1 **SCOPE:** The Technology Reports include technical detail as is necessary to identify and fully describe a "Subject Invention". Per FAR 52.227-11, "Subject Invention" means any invention of the contractor conceived or first actually reduced to practice in the performance of work under this contract.
- 15.2 **APPLICABLE DOCUMENTS:**
FAR 52.227-11 Patent Rights - Retention by Contractor (Short Form) (June 1997) - As modified by
NASA FAR Supplement 1852.227-11

DRD Continuation Sheet

TITLE: Technology Reports

DRD NO.: 1335CD-001

DATA TYPE: 3

PAGE: 2/3

15. **DATA PREPARATION INFORMATION (CONTINUED):**

15.3 **CONTENTS:** The Technology Reports consist of:

- a. Disclosure of Invention and New Technology (Including Software): In accordance with FAR 52.227-11(c), the disclosure to the agency shall be in the form of a written report and shall identify the contract under which the invention was made and the inventor(s). It shall be sufficiently complete in technical detail to convey a clear understanding to the extent known at the time of the disclosure, of the nature, purpose, operation, and the physical, chemical, biological or electrical characteristics of the invention. The disclosure shall also identify any publication, on sale or public use of the invention and whether a manuscript describing the invention has been submitted for publication and, if so, whether it has been accepted for publication at the time of disclosure. In addition, after disclosure to the agency, the Contractor shall promptly notify the agency of the acceptance of any manuscript describing the invention for publication or of any on sale or public use planned by the Contractor. This reporting requirement may be met by completing NASA Form 1679 (latest revision) in hardcopy or online at: <http://entre.nasa.gov/>. Use of this form or the online system is preferred; however, if the form is not used the following information should be provided in order to meet the reporting requirement:
 1. Descriptive title.
 2. Innovator(s) name(s), title(s), phone number(s), and home address(es).
 3. Employer when innovation made (name and division).
 4. Address (place of performance).
 5. Employer status (e.g., Government, college or university, non-profit organization, small business firm, large entity).
 6. Origin (e.g., NASA grant number, NASA prime contract number, subcontractor, joint effort, multiple contractor contribution, other).
 7. NASA Contracting Officer's Technical Representative (COTR).
 8. Contractor/grantee New Technology Representative.
 9. Brief abstract providing a general description of the innovation:
 - (a) Description of the problem or objective that motivated the innovation's development.
 - (b) Technically complete and easily understandable description of innovation developed to solve or meet the objective.
 - (c) Unique or novel features of the innovation and the results or benefits of its application.
 - (d) Speculation regarding potential commercial applications and points of contact (including names of companies producing or using similar products).
 10. Additional documentation.
 11. Degree of technological significance (e.g., modification of existing technology, substantial advancement in the art, major breakthrough).
 12. State of development (e.g., concept only, design, prototype, modification, production model, used in current work).
 13. Patent status.
 14. Dates or approximate time period during which this innovation was developed.
 15. Previous or contemplated publication or public disclosure including dates.
 16. Answers to the following questions (for software only):
 - (a) Using outsiders to beta-test code? If yes, done under beta-test agreement?
 - (b) Modifications to this software continue by civil servant and/or contractual agreement?
 - (c) Previously copyrighted (if so, by whom)?
 - (d) Were prior versions distributed (if yes, supply NASA or Contractor contract)?
 - (e) Contains or is based on code owned by a non-federal entity (if yes, has a license for use been obtained)?
 - (f) Has the latest version been distributed without restrictions as to use or disclosure for more than one year (if yes, supply date of disclosure)?
 17. Name(s) and signature(s) of innovator(s).

DRD Continuation Sheet**TITLE:** Technology Reports**DRD NO.:** 1335CD-001**DATA TYPE:** 3**PAGE:** 3/3**15. DATA PREPARATION INFORMATION (CONTINUED):**

- b. Interim NASA New Technology Summary Report: This report shall consist of a complete listing of subject inventions for the previous 12-month period or certification that there are none. Completion of Interim NASA New Technology Summary Report (NTSR) Form shall satisfy this reporting requirement. Use of the form utilizing the online system at <http://entre.nasa.gov/> is preferred; however an alternate format is acceptable provided all required information is provided.
 - c. Final NASA New Technology Summary Report: This report shall consist of a comprehensive list of all subject inventions for the duration of the contract or certification that there are none. Completion of Final NASA New Technology Summary Report (NTSR) Form shall satisfy this reporting requirement. Use of the form utilizing the online system at <http://entre.nasa.gov/> is preferred; however an alternate format is acceptable provided all required information is provided.
 - d. Report on utilization of subject inventions: This report provides information on the utilization of a subject invention or on efforts at obtaining such utilization that is being made by the contractor or its licensees or assignees. Per FAR 52.227-11, this report shall include information regarding the status of development, date of first commercial sale or use, gross royalties received by the contractor, and other data requested by the Contracting Officer.
- 15.4 **FORMAT:** The Disclosure of Invention and New Technology (Including Software) report may use NASA Form 1679 (latest revision) or the online system at: <http://entre.nasa.gov/>, or provide sufficient information to meet the reporting requirement.

The interim and final NASA New Technology Reports may use NASA NTSR Form, Interim or Final (whichever is applicable) utilizing the online system at: <http://entre.nasa.gov/>, or provide sufficient information to meet the reporting requirement.

- 15.5 **MAINTENANCE:** None required

DATA REQUIREMENTS DESCRIPTION (DRD)

- | | | |
|-------------------------|-------------------|--------------------------------------|
| 1. DPD NO.: 1335 | ISSUE: RFQ | 2. DRD NO.: 1335DE-001 |
| 3. DATA TYPE: 3 | | 4. DATE REVISED: |
| | | 5. PAGE: 1/1 |
6. **TITLE:** Structural Strength and Fatigue Analysis Reports
7. **DESCRIPTION/USE:** To provide component strength and fatigue analysis used for development of this deliverable.
8. **OPR:** ER41 9. **DM:** ER35
10. **DISTRIBUTION:** Per Contracting Officer's letter
11. **INITIAL SUBMISSION:** As part of the Critical Design Review (CDR) data package
12. **SUBMISSION FREQUENCY:** Final as part of Acceptance Review data package reflecting the as-built configuration
13. **REMARKS:**
14. **INTERRELATIONSHIP:** SOW paragraph 3.3.6.1
15. **DATA PREPARATION INFORMATION:**
- 15.1 **SCOPE:** The Structural Strength and Fatigue Analysis Reports provides a strength and fatigue analysis. Strength and fatigue analyses are documented to demonstrate that strength and fatigue requirements have been met. Preliminary strength and fatigue analyses shall assure the structural integrity of major structural elements and the credibility of weight calculations. Analyses provided in support of the CDR shall substantiate the structural integrity of detailed parts and provide the basis for approval of drawings. Analyses provided in support of certification shall fully substantiate the structural integrity of each detailed part in its final design configuration.
- 15.2 **APPLICABLE DOCUMENTS:** None
- 15.3 **CONTENTS:** The Structural Strength and Fatigue Analysis Reports shall document strength and fatigue analyses for structural components. These analyses shall verify the capability of the hardware to withstand worst case design loads. The strength and fatigue analyses reports shall identify such items as geometric description of each component, drawing or part number, identification of all applied loads, type of material and applicable strength and fatigue allowables, environments and effects, proper identification of reference inputs into the analyses, and a summary of calculated margins of safety and life predictions. Effects of structural design changes shall be incorporated into this procedure so that margins of safety for the "as-built" configuration may be accurately calculated.
- When computer analyses, including finite element analyses are used, deliverable information shall include a description of the analyses with applicable geometry, dimensions, loads, other boundary conditions, annotated input data file(s), plots of model geometry, and results. This information shall be sufficient to recreate the analysis if necessary. Computer programs, data inputs, and data outputs utilized in these analyses must be documented and available to the Government upon request.
- 15.4 **FORMAT:** Contractor format is acceptable. Reports shall be available in an electronic format.
- 15.5 **MAINTENANCE:** Changes shall be incorporated by change page or complete reissue.

DATA REQUIREMENTS DESCRIPTION (DRD)

1. **DPD NO.:** 1335 **ISSUE:** RFQ
2. **DRD NO.:** **1335LS-001**
3. **DATA TYPE:** 2
4. **DATE REVISED:**
5. **PAGE:** 1/1
6. **TITLE:** Government Property Management Plan
7. **DESCRIPTION/USE:** To describe the method of controlling and managing Government property.
8. **OPR:** AS41 9. **DM:** ER35
10. **DISTRIBUTION:** Cognizant property administrator
11. **INITIAL SUBMISSION:** Preliminary with proposal. Final two months after Authority to Proceed (ATP).
12. **SUBMISSION FREQUENCY:** Revise as required
13. **REMARKS:** This document shall be the official contract requirements document for the control and identification of all Government property.
14. **INTERRELATIONSHIP:** SOW paragraph 3.3.4
15. **DATA PREPARATION INFORMATION:**
- 15.1 **SCOPE:** The Government Property Management Plan defines the contractor's methods of care, accounting, and control of Government property.
- 15.2 **APPLICABLE DOCUMENTS:**

FAR	<i>Federal Acquisition Regulation, Part 45</i>
FAR	<i>Federal Acquisition Regulation, Part 52.245</i>
NFS 1852.245	<i>NASA/FAR Supplement and latest revisions thereto</i>
NFS 1852.245-80	<i>NASA FAR Supplement, Government Property Management Information (PIC 07-09)</i>
NPR 4100.1	<i>Supply Support and Material Management Policy</i>
NPR 4200.1	<i>Equipment Management</i>
NPR 4300.1	<i>NASA Personal Property Disposal Policy</i>
NPR 5100.4	<i>Federal Acquisition Regulation Supplement (NASA/FAR Supplement) [48 CFR 1800-1899] (REVALIDATED 9/16/2008)</i>
- 15.3 **CONTENTS:** The Government Property Management Plan shall satisfy the requirements of the documents listed in 15.2, and the contract. This plan shall consist of those procedures which constitute the contractor's property management system and shall include the following categories:

a. Property management.	i. Reports.
b. Acquisition.	j. Consumption.
c. Receiving.	k. Utilization.
d. Identification.	l. Maintenance.
e. Records.	m. Subcontractor control.
f. Movement.	n. Disposition.
g. Storage.	o. Contract close-out.
h. Physical inventories.	
- 15.4 **FORMAT:** Contractor format is acceptable.
- 15.5 **MAINTENANCE:** Changes shall be incorporated by change page or complete reissue.

DATA REQUIREMENTS DESCRIPTION (DRD)

- | | |
|--------------------------|--------------------------------------|
| 1. DPD NO.: 1335 | 2. DRD NO.: 1335MA-001 |
| 3. DATA TYPE: 2/3 | 4. DATE REVISED: |
| | 5. PAGE: 1/3 |
6. **TITLE:** Major Review Documentation
7. **DESCRIPTION/USE:** To conduct formal technical reviews to evaluate design and status, document baselines, and monitor disposition of action items.
8. **OPR:** ED11 9. **DM:** ER35
10. **DISTRIBUTION:** See Attachment 2
11. **INITIAL SUBMISSION:** See Attachment 2
12. **SUBMISSION FREQUENCY:** Per technical review
13. **REMARKS:**
14. **INTERRELATIONSHIP:** SOW paragraph 3.1.1
15. **DATA PREPARATION INFORMATION:**
- 15.1 **SCOPE:** Major Review Documentation contains all of the required documentation necessary to support major technical reviews.
- 15.2 **APPLICABLE DOCUMENTS:** None
- 15.3 **CONTENTS:** Major Review Documentation required for the following technical reviews shall be provided as described in Attachment 1. Additional documentation to be provided are:
- a. Agenda - The agenda shall specify the time and place for the scheduled review, specific review items, supporting documentation, and key participants. Submit approved copies at the review. See Attachment 2.
 - b. Presentation Charts - Presentation charts shall be submitted at the review. They shall summarize the details contained in the data package and shall identify compliance with the contract requirements. See Attachment 2 for distribution and availability of data.
 - c. Minutes - The minutes shall contain a description of the review with sufficient detail to enable the review to be made a matter of record. The minutes shall include the presentation charts, action items with actionee and suspense (closure) data. See Attachment 2 for distribution and availability of data.
- 15.4 **FORMAT:** Contractor format is acceptable.
- 15.5 **MAINTENANCE:** As required to correct errors and to maintain current.

ATTACHMENT 1

Page: 2/3

1. Critical Design Review (CDR)
Preliminary Structural Strength and Fatigue Analysis Reports (DRD 1335DE-001)
Preliminary Hazard Analysis report

2. Acceptance Review (AR)
Final Structural Strength and Fatigue Analysis Reports (DRD 1335DE-001)
Provide final as-built drawings and a Bill of Materials
Final Hazard Analysis report reflecting the as-built configuration

ATTACHMENT 2

Technical Review Documentation
Distribution and Availability of Data

Document	Type	Critical Design Review (CDR) (Copies/Availability)	AR (Copies/Availability)
Agenda	2	One/7 days prior to review Approved copies at review	One/7 days prior to review Approved copies at review
Data Package	3	10/One weeks prior to review	10/One weeks prior to review
Presentation Charts	3	One to each attendee at review	One to each attendee at review
Minutes	2	One to each attendee/ Within two weeks after review	One to each attendee/ Within two weeks after review

DATA REQUIREMENTS DESCRIPTION (DRD)

- | | | |
|-------------------------|------------|--------------------------------------|
| 1. DPD NO.: 1335 | ISSUE: RFQ | 2. DRD NO.: 1335SA-001 |
| 3. DATA TYPE: 3 | | 4. DATE REVISED: |
| | | 5. PAGE: 1/3 |
6. **TITLE:** Mishap and Safety Statistics Reports
7. **DESCRIPTION/USE:** To provide reporting of metrics, mishaps, close calls, and serious non-occupational injuries or illnesses.
8. **OPR:** QD12 9. **DM:** ER35
10. **DISTRIBUTION:** Per Contracting Officer's letter
11. **INITIAL SUBMISSION:**
- a. **Safety Statistics** for the previous month shall be submitted by the 10th of each month after contract award to the MSFC Industrial Safety Branch. Safety statistics for work performed at Michoud Assembly Facility (MAF) shall be submitted to the MSFC Safety and Mission Assurance (S&MA) representative located at MAF.
 1. Safety statistics shall be reported using MSFC Form 4371 or an equivalent electronic notification system.
 2. Safety statistics reports shall include: contract number, subcontractors, NAISC codes, number of employees, number of supervisors, hours worked, and number of injuries including days away from work and/or first-aid cases, number of incidents involving equipment or property damage, and number of supervisors and employees up-to-date with required MSFC Safety, Health, and Environmental (SHE) Training. (SHE training is only applicable to onsite contracts.)
 - b. **Initial reporting for Type A, Type B, and Type C that involves a lost time injury or illness, and any High-Visibility Close Calls** for ALL contractors working **onsite** shall be reported to MSFC Industrial Safety Branch as soon as possible after initiating emergency response, but **no later than 1 hour** of occurrence or awareness. For these types of mishaps the initial notification can be made by calling the Safety Hotline (256) 544-0046 then followed up within 24 hours with an entry into the NASA Incident Reporting Information System (IRIS) by the contractor designated IRIS representative. At MAF call (504) 257-2526.
 - c. **Initial reporting for Type C that does not involve a lost time injury or illness, Type D, and Low-Visibility Close Calls** for ALL contractors working **onsite** shall be reported to the MSFC Industrial Safety Branch as soon as possible after initiating emergency response, but **no later than 4 hours** of occurrence or awareness by:
 1. Direct input through the "SHE Report" located on the Safety, Health & Environmental (SHE) webpage located on "Inside Marshall." On the SHE webpage select the "Mishaps, Questions and Concerns" pull-down menu, then select "Report Mishaps/Close Calls/Concerns." (At MSFC this is the preferred method of reporting), or
 2. Calling the Safety Hotline (256) 544-0046, [at MAF call (504) 257-2526] or
 3. Direct input into the NASA Incident Reporting Information System (IRIS) by the contractor designated IRIS representative. Access to IRIS database can be obtained from the MSFC S&MA IRIS administrator located in the MSFC Industrial Safety Branch after contract award.
 - d. **Initial reporting for Type A and B mishaps and High-Visibility Close Calls** for contractors working **offsite** shall be reported to MSFC Industrial Safety Branch as soon as possible after initiating emergency response, but **no later than 1 hour** of occurrence or awareness by calling the Safety Hotline (256) 544-0046 then followed up within 24 hours with an entry into the NASA Incident Reporting Information System (IRIS) by the contractor designated IRIS representative.
 1. If a contractor employee has any type mishap while visiting a MSFC controlled site, they shall report immediately to their site sponsor in addition to other reporting requirements.
 - e. **Initial reporting for Type C and D and Low-Visibility Close Calls** for contractors working **offsite** shall be reported via the Safety Statistics Report submitted monthly.

DRD Continuation Sheet

TITLE: Mishap and Safety Statistics Reports

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11. **INITIAL SUBMISSION (CONTINUED):**

- f. **Initial reports for all mishaps and Close Calls** shall provide as much information as possible, but at a minimum include the following: location and time of incident, number of fatalities, number hospitalized, type of damage, estimated cost, brief description, and contact person's name and phone number in accordance with MWI 8621.1 and NPR 8621.1.
- g. **Reporting of a non-work-related fatality or serious injury or illnesses that occur to contractor employee while working onsite shall be within 24 hours** of occurrence or awareness of injury by:
 - 1. Notifying the Contracting Officer and MSFC Industrial Safety Branch. (For contractors working offsite reporting of a non-work-related injury or illness notification is at the discretion of the family.)
- h. **Follow-up reporting for ALL contractors:**
 - 1. **Type A or B mishaps, Type C that involves a lost time injury or illness, or High-Visibility Close Calls:** Follow-up report **within 24 hours** after the initial notification through IRIS entry by the contractor designated IRIS representative, or electronic submittal to MSFC Industrial Safety Branch.
 - 2. **Type C that does not involve a lost time injury or illness, or D mishaps, or Low-Visibility Close Calls:** Follow-up report or update **within 6 days** after the initial notification through IRIS entry by the contractor designated IRIS representative, or electronic submittal to MSFC Industrial Safety Branch.
 - 3. **Type A, B, and Close Calls with High-Visibility Type A or B potential Investigation Mishap Board Report:** submitted after completion of investigation. Corrective Action Plan submitted upon Endorsing Official approval.
 - 4. **All Mishaps:** Follow-up Corrective Action Plan/Status 30 days after first mishap.
- i. **Safety Concerns, Hazards, and non-reportable mishaps** for contractors working **onsite** shall be reported per MPR 8715.1 and MWI 8715.13.
- j. Mishaps and Close Calls that occur at MAF shall be reported within the times specified in sections a thru g to the MSFC S&MA representative located at MAF by calling (504) 257-2526.
- k. Follow-up reporting for mishaps and Close Calls reported at MAF shall be reported within the times specified in section h to the MSFC S&MA representative located at MAF.

12. **SUBMISSION FREQUENCY:** Safety Statistics (MSFC Form 4371, IRIS entry, or an equivalent electronic submittal) - By the 10th of each month to MSFC Industrial Safety Branch or for work performed at MAF to the MSFC S&MA representative located at MAF. All Mishaps: Monthly Follow-up Corrective Action Plan/Status until corrective actions implemented and closure received by updating record in IRIS data base (preferred) or electronic submittal to MSFC Industrial Safety Branch or for work performed at MAF to the MSFC S&MA representative located at MAF.

13. **REMARKS:**

14. **INTERRELATIONSHIP:** SOW paragraph 3.3.8

15. **DATA PREPARATION INFORMATION:**

15.1 **SCOPE:** The Mishap and Safety Statistics Reports document all mishaps and close calls as required in NPR 8621.1.

15.2 **APPLICABLE DOCUMENTS:**

NPR 8621.1	<i>NASA Procedural Requirements for Mishap and Close Call Reporting, Investigating, and Recordkeeping</i>
MPR 8715.1	<i>Marshall Safety, Health, and Environmental (SHE) Program</i>
MWI 8621.1	<i>Mishap and Close Call Reporting and Investigation Program</i>
MWI 8715.13	<i>Safety Concerns Reporting System (SCRS)</i>

15.3 **CONTENTS:** The Mishap and Safety Statistics Reports shall contain the information required by NPR 8621.1 and MWI 8621.1.

DRD Continuation Sheet

TITLE: Mishap and Safety Statistics Reports

DRD NO.: 1335SA-001

DATA TYPE: 3

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15. **DATA PREPARATION INFORMATION (CONTINUED):**

15.4 **FORMAT:** The following formats or electronic equivalent shall be submitted:

- a. MSFC Form 4371, "MSFC Contractor Accident and Safety Statistics" or an equivalent electronic notification system that provides all necessary information listed in a.2.
- b. Mishap Board Report using the format provided in NPR 8621.1.
- c. Additional Information Submittal per MWI 8621.1.

15.5 **MAINTENANCE:** None required

15.6 **DEFINITIONS:** NASA Mishap. An unplanned event that results in at least one of the following:

- a. Injury to non-NASA personnel, caused by NASA operations.
- b. Damage to public or private property (including foreign property), caused by NASA operations or NASA-funded development or research projects.
- c. Occupational injury or occupational illness to NASA personnel.
- d. NASA mission failure before the scheduled completion of the planned primary mission.
- e. Destruction of, or damage to, NASA property except for a malfunction or failure of component parts that are normally subject to fair wear and tear and have a fixed useful life that is less than the fixed useful life of the complete system or unit of equipment, provided that the following are true: 1) there was adequate preventative maintenance; and 2) the malfunction or failure was the only damage and the sole action is to replace or repair that component.

Close Call. An event in which there is no injury or only minor injury requiring first aid and/or no equipment/property damage or minor equipment/property damage (less than \$1000), but which possesses a potential to cause a mishap.

High Visibility (Mishaps or Close Calls). Those particular mishaps or close calls, regardless of the amount of property damage or personnel injury, that the Administrator, Chief/OSMA, CD, AA/OIA, or the Center SMA director judges to possess a high degree of programmatic impact or public, media, or political interest including, but not limited to, mishaps and close calls that impact flight hardware, flight software, or completion of critical mission milestones.

Type A Mishap. A mishap resulting in one or more of the following: (1) an occupational injury or illness resulting in a fatality, a permanent total disability, or the hospitalization for inpatient care of 3 or more people within 30 workdays of the mishap; (2) a total direct cost of mission failure and property damage of \$1 million or more; (3) a crewed aircraft hull loss; (4) an occurrence of an unexpected aircraft departure from controlled flight (except high performance jet/test aircraft such as F-15, F-16, F/A-18, T-38, OV-10, and T-34, when engaged in flight test activities).

Type B Mishap. A mishap that caused an occupational injury or illness that resulted in a permanent partial disability, the hospitalization for inpatient care of 1-2 people within 30 workdays of the mishap, or a total direct cost of mission failure and property damage of at least \$250,000 but less than \$1,000,000.

Type C Mishap. A mishap resulting in a nonfatal occupational injury or illness that caused any days away from work, restricted duty, or transfer to another job beyond the day or shift on which it occurred, or a total direct cost of mission failure and property damage of at least \$25,000 but less than \$250,000.

Type D Mishap. A mishap that caused any nonfatal OSHA recordable occupational injury and/or illness that does not meet the definition of a Type C mishap, or a total direct cost of mission failure and property damage of at least \$1,000 but less than \$25,000.

Offsite. Location or facility **not** owned or controlled by MSFC.

Onsite. Location or facility owned or controlled by MSFC.