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29 FEBRUARY 1976

MILITARY STANDARD

**GOVERNMENT/INDUSTRY DATA EXCHANGE PROGRAM
(GIDEP)**

CONTRACTOR PARTICIPATION REQUIREMENTS



AMSC NO. N3786

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MIL-STD-1556B

DEPARTMENT OF DEFENSE

WASHINGTON, DC 20301

GOVERNMENT/INDUSTRY DATA EXCHANGE PROGRAM (GIDEP), CONTRACTOR PARTICIPATION
REQUIREMENTS

1. This military standard is approved for use by all Departments and Agencies of the Department of Defense and the National Aeronautics and Space Administration.
2. This document should be selectively applied and tailored to the specific acquisition under consideration. See Appendixes A and B for information and guidelines.
3. Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to:
Commanding Officer, Naval Ordnance Station, Standardization/Documentation Division (524), Indian Head, MD 20640-5000 by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

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FOREWORD

Government-Industry Data Exchange Program (GIDEP) is a cooperative data interchange among Government and Industry participants seeking to reduce or eliminate expenditures of time and money by making maximum use of existing knowledge. GIDEP provides a means to exchange certain types of data essential during the life cycle of systems and equipment.

GIDEP was initially established to minimize duplicate testing of parts and materials through the interchange of environmental test data and technical information among contractors and Government agencies involved in design, development, and fabrication of Government-funded equipment. Information contained within the GIDEP storage and retrieval system includes environmental test reports and procedures, reliability specifications, failure analysis data, failure rate data, calibration procedures, and other technical information related to the application, reliability, quality assurance, and testing of parts and related materials. To enable immediate data access, all information is computer-indexed and recorded on microfilm. Unclassified and non-proprietary test reports and other technical information generated by a participant are submitted to the GIDEP Operations Center. This information is reviewed for program applicability, indexed for computer retrieval, processed for microfilming, and automatically distributed to qualified contractors and Government agencies participating in GIDEP.

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1. SCOPE

1.1 Scope. This standard establishes the requirements for contractor participation in the Government-Industry Data Exchange Program (GIDEP).

1.2 Application.

1.2.1 Participation. The contractor will be required to submit all appropriate data to the GIDEP, as it is generated in accordance with other contractual requirements. The contractor will have free access to the entire contents of the data interchanges. Participating contractors are not charged any fees for the data furnished to them by the GIDEP.

1.2.2 Utilization. Data from the GIDEP may be used during planning and performance of the contract in the areas of research, engineering, development design, testing, production, logistic support, and maintenance, to avoid duplication of effort and unnecessary expenditure of resources.

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2. REFERENCED DOCUMENTS

2.1 Government documents.

2.1.1 Handbook. Unless otherwise specified, the following handbook of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DODISS) specified in the solicitation forms a part of this standard to the extent specified herein.

HANDBOOK

MILITARY

MIL-HDBK-217 Reliability Prediction of Electronic Equipment

(Copies of the above handbook required by contractors in connection with specific acquisition functions should be obtained from the contracting activity or as directed by the contracting officer).

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3. DEFINITIONS

3.1 ALERT. A standardized report used to provide the GIDEP participant with identification and notification of actual or potential problems on parts, components, materials, manufacturing processes, test equipment, or safety conditions.

3.2 Contract Data Requirements List (CDRL) (DD Form 1423). A contract form which provides in one place in the contract a list of data items required to be delivered under the contract, with the exception of data specifically required by standard clauses of the Federal/Defense acquisition regulations.

3.3 GIDEP Operations Center. The Government activity that implements the GIDEP as directed by the GIDEP Program Manager. The address and telephone number(s) of the GIDEP Operations Center are as follows:

Program Director
GIDEP Operations Center
Corona, California 91720-5000

Phone: Area Code (714) 736-4677
Autovon: 933-4677

3.4 GIDEP Participant. An organization which participates in one or more of the GIDEP data interchanges described in paragraph 40.1 of Appendix A.

3.5 GIDEP Program Manager. The office established within the Department of the Navy for over-all technical direction and support of the GIDEP.

3.6 GIDEP Representative. An individual assigned by the GIDEP participant organization who is responsible for implementation and operation of one or more GIDEP data interchanges within the contractor's activity. The contractor may assign more than one GIDEP Representative when data banks are not co-located within the contractor's facility.

3.7 Microform format. The Engineering, Reliability-Maintainability and pre-1984 Metrology Data Interchanges are provided on 16mm format in microfilm cartridges or plastic reels, as required by the participant. The failure Experience and post-1983 Metrology Data Exchanges are provided only in 24X microfiche format.

3.8 SAFE-ALERT. An ALERT used to provide information about a safety condition (see 3.1).

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4. GENERAL REQUIREMENTS

4.1 Participation requirements. The contractor shall participate in one or more of the following GIDEP Data Interchanges, as specified in the contract:

- a. Engineering Data Interchange (EDI). (See 5.3.1).
- b. Failure Experience Data Interchange (FEDI). (See 5.3.2).
- c. Reliability-Maintainability Data Interchange (RMDI). (See 5.3.3).
- d. Metrology Data Interchange (MDI). (See 5.3.4).

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5. DETAILED REQUIREMENTS

5.1 Contractor responsibilities. The contractor shall:

- a. Application. Notify, upon contract award, the GIDEP Operations Center (see 3.3) of his requirement to participate, the applicable contract(s) or subcontract(s) and the designated data interchange(s) and GIDEP representative(s). Upon receipt of notification, the GIDEP Operations Center will provide the documentation and assistance necessary for the contractor to proceed with implementation of this standard.
- b. Policy. Establish, document, and implement an internal operation policy for the collection, dissemination, and utilization of GIDEP data by appropriate elements of its organization.
- c. Data submittal. Ensure that all data applicable to the GIDEP which are listed on the CDRL are submitted to the GIDEP Operations Center. The contractor shall not submit data to the GIDEP Operations Center which is proprietary or classified. Nothing in this standard shall be construed as requiring the generation of any technical data not otherwise required by the contract.
- d. GIDEP Representative(s). Designate one or more persons as GIDEP Representative for the receipt and distribution of data to other elements of the organization. (Multiple GIDEP Representatives may be appointed where it is desirable to have various Data Banks located closer to the using elements for the purpose of maximum utilization of the data.)
- e. Support requirement. Provide the GIDEP Representative with management support, staffing, facilities, and equipment to implement and maintain a cost effective program within the facility.
- f. Storage of GIDEP GFM. Provide for the adequate storage of microforms, indexes, and supporting documentation, provided as GIDEP Government Furnished Material (GFM).
- g. Return of GFM. Return all GIDEP materials (GFM) to the GIDEP Operations Center upon termination of contractor's participation in GIDEP.

5.2 GIDEP Representative's responsibilities. The contractor's GIDEP Representative shall:

- a. Control of materials. Maintain and control any assigned data, microforms, and indexes, in a safe and secure manner.
- b. Point-of-contact. Serve as point-of-contact with the GIDEP Operations Center and other GIDEP Representatives.
- c. Dissemination of information. Establish and maintain distribution lists for rapid dissemination of GIDEP data to the appropriate users.
- d. Submission of data. Submit copies of contractor generated data and documents to the GIDEP Operations Center, as specified on the CDRL. When submitting failure or reliability data, the system identification shall be deleted to preclude the possibility of compromising security information. In any case of doubt, the security classifying authority of the contracting activity must be consulted.

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e. Annual progress report. When specified on the CDRL, prepare and submit an Annual GIDEP Progress Report to the GIDEP Operations Center (see 6.2).

f. Annual workshops and seminars. Consider attending annual GIDEP workshops and seminars as scheduled.

5.3 GIDEP Data interchanges. The contractor shall participate in the designated GIDEP data interchange(s) (see 4.1) in accordance with the following provisions.

5.3.1 Engineering Data Interchange (EDI). The contractor shall utilize and submit data to the EDI as specified in the contract. (When the EDI is not contractually required, the contractor may voluntarily participate in the EDI.)

5.3.1.1 EDI Data utilization. The EDI may be searched for data that will be useful in the planning and conduct of all contractually required engineering effort such as engineering studies, testing, specifications preparation, data processing and analysis, manufacturing processes planning and selection, and quality assurance. When EDI data is found which the contractor believes will serve as a viable substitute for or adjunct to engineering data to be generated under the contract, the contractor may propose to and request approval of the contracting activity to use that EDI data.

5.3.1.2 Testing. The contractor may utilize test data and programs from the EDI in lieu of planning and conducting tests for qualification of parts/components or for determining the suitability of such items which are used in similar applications. The provision shall not be construed as limiting normal quality assurance testing and production acceptance testing to determine that performance requirements are met. When the contract requires preparation of a program test plan, this plan shall state which test requirements shall be met by test, by use of GIDEP data or by engineering analysis.

5.3.1.3 Value engineering. The contractor may utilize the EDI as part of the Value Engineering Program to optimize reliability/maintainability and performance. The EDI may be used to assist in the identification of alternate parts, components, materials, methods and manufacturing resources.

5.3.1.4 Specifications. The contractor should review and utilize specifications in the EDI in order to reduce the effort required to prepare the new specifications.

5.3.1.5 Automatic data processing. The EDI should be reviewed for data on computer hardware and software prior to initiating planning, programming, or design of computer systems and components.

5.3.1.6 Manufacturing processes. The contractor should review data on manufacturing technology and processes prior to planning and developing new processes and techniques.

5.3.1.7 Test procedures. The contractor should review plans, procedures, and methodology in the EDI prior to preparing such documents for engineering development or qualification testing or other forms of testing.

5.3.1.8 Test reports. The contractor shall submit copies of test reports (including qualification testing, engineering and development testing, first article testing, etc.) to EDI as specified on the CDRL. Test data which are generated as a normal part of the contractor's quality assurance program should be considered by the contractor for submission to EDI.

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5.3.1.9 Electrostatic discharge data (ESD). Contractor generated data involving ESD should be submitted to the EDI.

5.3.2 Failure Experience Data Interchange (FEDI). The contractor shall utilize and submit data to the FEDI in accordance with the contract and the following requirements of this Standard. (The contractor may participate in the FEDI voluntarily when participation is not required contractually.)

5.3.2.1 ALERTs/SAFE-ALERTs and responses. The contractor shall utilize and submit ALERTs and SAFE-ALERTs to FEDI as specified in the contract. An ALERT/SAFE-ALERT shall be generated by the contractor whenever an actual or potential problem is evident with respect to a part, component, material, test equipment, process or safety condition. In generating such ALERTs/SAFE-ALERTs, the following criteria shall be observed:

a. The ALERT/SAFE-ALERT shall define an actual or potential failure or problem which may have multiple applications. ALERTs shall not be prepared to report a random failure of a part, component, material, or equipment. Also, failures caused by intentional application outside of known design limitations shall not be reported as ALERTs.

b. Parts, components, or equipment are proper subject matter for an ALERT only when these parts, components, or equipment are utilized within their design environments.

When specified in the contract (see 6.2), the contractor shall also provide responses to ALERTs and SAFE-ALERTs.

5.3.2.2 Diminishing manufacturing sources and material shortages (DMSMS) reports. The contractor may utilize and submit DMSMS information to the FEDI.

5.3.3 Reliability-Maintainability Data Interchange (RMDI). The contractor shall utilize and submit data into the RMDI as specified in the contract. (The contractor may participate in the RMDI voluntarily when participation is not required contractually).

5.3.3.1 RMDI Data Utilization. The contractor may use the RMDI as one of the data sources for planning and conducting reliability, maintainability and logistics programs as specified in the contract. The RMDI may be searched for mathematical modeling and reliability-maintainability/logistics data and methods that would be useful in reducing contractual effort to develop new data or methodology in these areas. Upon approval by the contracting activity, the contractor shall supplement MIL-HDBK-217 failure rate data and contractually specified failure rate data used for developing equipment and system reliability prediction with RMDI data.

5.3.3.2 RMDI Data submittals. The contractor shall submit copies of data to the RMDI as specified on the CDRL. Field data on parts, components, assemblies, and subsystems shall be submitted as specified. Data from reliability and maintainability testing that provide piece part, standard electronic module (SEM) or building block failure rates should also be submitted.

5.3.4 Metrology Data Interchange (MDI). The contractor shall utilize and submit data to the MDI as specified in the contract. (The contractor may participate in the MDI voluntarily when participation is not required contractually).

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5.3.4.1 MDI Data utilization. The contractor may review and utilize MDI data and calibration procedures in lieu of generating new procedures, plans and methods. Calibration procedures received by the contractor from MDI shall be reviewed for technical adequacy and applicability prior to use.

5.3.4.2 MDI Data submittal. Whenever the contractor generates documents containing new metrology methods, plans, procedures and other measurement science data, the contractor shall submit copies of such documents to the MDI as specified on the CDRL.

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6. NOTES

6.1 Intended use. This standard is intended to be applied to prime contractors and certain major subcontractors actively engaged in research, engineering, development, design, testing, production, logistic support, and maintenance of equipment, systems, subsystems and end items for the Government, and who are users of parts, components and materials.

6.1.1 Restriction. This standard should not be applied to contracts with producers or distributors of parts, components, and materials.

6.1.2 Information and guidelines. The information and guidelines provided in Appendixes A and B should be reviewed by the contracting activity to assure the best utilization of GIDEP for the specific acquisition under consideration. This standard should be selectively applied and tailored to the specific type of acquisition by selecting the appropriate paragraphs and data requirements as indicated in Appendix B.

6.2 GIDEP Data requirements. When this standard is used in an acquisition which incorporates a DD Form 1423, Contract Data Requirements List (CDRL), the data requirements identified below shall be developed as specified by an approved Data Item Description (DD Form 1664) and delivered in accordance with the approved CDRL incorporated into the contract. When the provisions of DoD FAR Supplement, Part 27, Sub-Part 27.410.6 (DD Form 1423) are invoked and the DD Form 1423 is not used, the data specified below shall be delivered by the contractor in accordance with the contract or purchase order requirements. Deliverable data required by this standard are cited in the following paragraphs:

<u>Paragraph No.</u>	<u>Data Requirement Title</u>	<u>Applicable DID No.</u>
5.2.e	GIDEP Annual Progress Report	DI-QCIC-80127
5.3.2.1	ALERT/SAFE-ALERT	DI-QCIC-80125
5.3.2.1	Response To An ALERT/SAFE-ALERT	DI-QCIC-80126

(Data item descriptions related to this standard and identified in Section 6 will be approved and listed as such in DoD 5000.19-L, Vol.II, AMSDL. Copies of the data item descriptions (DIDs) required by contractors in connection with specific acquisition functions should be obtained from the Naval Publications and Forms Center, 5801 Tabor Avenue, Philadelphia, PA 19120 or as directed by the contracting officer.)

6.3 Statement of work. The contracting activity should include the following type of clause in the contract statement of work:

"(Government/Industry Data Exchange Program (GIDEP)

a. The contractor shall participate in the GIDEP data interchange(s) (indicate applicable interchange(s)) in accordance with the requirements of MIL-STD-1556B (date).

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b. The contractor may insert paragraph (a) of this clause in any subcontract when deemed necessary. When so inserted, the word "contractor" shall be changed to "subcontractor".

c. The contractor may, when it elects not to insert clause (b) in a subcontract, provide the subcontractor any GIDEP data which may be pertinent to items of its manufacture.

6.4 Changes from previous issue. Asterisks or vertical lines are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodians:

Army - AV
Navy - OS
Air Force - 10
DLA - DH

Preparing Activity

Navy - OS

(Project No. QCIC-0044)

Review Activities:

Army - AL, AM, AR, AT, CU, EA, ER, GL, MD, ME
MI, TE, SC, TM
Navy - AS, EC, SH, TD, OM
Air Force - 11, 13, 14, 15, 18, 19, 26

User Activities:

Army - CR

Civil Agencies Coordinating Activities:

NASA - NA

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APPENDIX A
GIDEP INFORMATION

10. SCOPE

10.1 Scope. This appendix provides information on the purpose, objectives, functions and implementation of the Government-Industry Data Exchange Program (GIDEP). This appendix is not a mandatory part of the standard. The material contained herein is intended for information only.

20. REFERENCED DOCUMENTS

20.1 Government documents. The following documents form a part of this appendix and are listed herein for the purpose of identifying the documents which implement GIDEP for the various DOD components and NASA.

DEPARTMENT OF DEFENSE

DODINST 4120.19	DOD Parts Control Program
DODDIR 4005.16	Diminishing Manufacturing Sources and Material Shortages

DEPARTMENT OF THE ARMY

AR 70-56	Government-Industry Data Exchange Program
AR 700-60	Parts Control Program

DEPARTMENT OF THE NAVY

NAVMATINST 4800.40	Diminishing Manufacturing Sources and Material Shortages
ONASINST 5200.1	Government-Industry Data Exchange Program; Participation in
NAVELEXINST 5200.20	Government-Industry Data Exchange Program; Implementation of
NAVSEAINST 5200.7	Government-Industry Data Exchange Program; NAVSEA Implementation of

DEPARTMENT OF THE AIR FORCE

AFR 78-13	Diminishing Manufacturing Sources and Material Shortages
AFR 80-10	Government-Industry Data Exchange Program
AFR 800-20	Defective Parts and Components Control Program

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AFR 800-24	Parts Control Program
AFSC/AFLCR 800-20	Defective Parts and Components Control Program

DEFENSE LOGISTICS AGENCY

DLAR 4005.6	Diminishing Manufacturing Sources and Material Shortages
DLAR 4155.31	DLA Participation in the Government-Industry Data Exchange Program

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NMI 5310.1C	Alert-Reporting of NASA Parts, Materials and Safety Problems
NMI 5310.2B	Participation in Government/Industry Data Exchange Program (GIDEP)

30 GENERAL INFORMATION

30.1 Purpose of GIDEP. Government-Industry Data Exchange Program (GIDEP) is a cooperative activity between Government and Industry participants seeking to reduce or eliminate expenditure of time and money by making maximum use of existing knowledge. The program provides a means to exchange certain types of technical data essential to the acquisition phases of the life cycle of systems and equipment.

30.2 Benefits of GIDEP. The benefits of GIDEP participation are derived through the efforts to:

- a. Reduce or eliminate duplicate expenditures for test or parts.
- b. Increase systems quality and reliability by providing reliable information on parts, materials and processes.
- c. Provide advance notification of possible part/component failures and potential problem areas.
- d. Provide a source of parts/materials test data for use during research, design, development, qualification and production of equipment.
- e. Provide a communication network among technical personnel working on related problems.
- f. Identify alternate manufacturing sources for parts/materials procurements.
- g. Reduce or eliminate duplicate expenditures for preparation of test equipment calibration procedures.

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h. Provide for the exchange of information relating to diminishing manufacturing sources and material shortages.

i. Accelerate parts specifications writing and test planning.

j. Increase standardization of parts and parts testing.

k. Enable more realistic bid proposals to be submitted.

40. DETAILED INFORMATION

40.1 Data interchanges. GIDEP participants are provided access to the four major data interchanges listed below. The proper utilization of the data within these data interchanges can materially improve performance, reliability and maintainability and reduce costs during development, manufacture, testing and maintenance of complex systems and equipment.

40.1.1 Engineering Data Interchange (EDI). EDI contains engineering evaluation and qualification test reports, nonstandard parts justification data, parts and materials specifications, manufacturing processes and other related engineering data on parts, components, materials and processes. This data interchange also includes a section of reports on specific engineering methodology and techniques, air and water pollution reports, alternate energy sources and other diverse subjects.

40.1.2 Reliability-Maintainability Data Interchange (RMDI). RMDI contains failure rate/mode and replacement rate data on parts, components assemblies, subsystems and materials based on field performance information and reliability test of equipment, subsystems and systems. This data interchange also contains reports on theories, methods, techniques and procedures related to reliability and maintainability practices.

40.1.3 Metrology Data Interchange (MDI). MDI contains metrology related engineering data on test systems, calibration systems, and measurement technology and testing equipment calibration procedures. GIDEP has also been designated as a data repository for the National Bureau of Standards (NBS) data.

40.1.4 Failure Experience Data Interchange (FEDI). FEDI contains objective information generated when significant problems are identified on parts, components materials, equipment, processes or safety conditions. This data interchange includes the ALERT and SAFE-ALERT data, failure analysis and problem information, as well as, the diminishing manufacturing sources and material shortages data required by DOD Directive 4005.16.

40.2 Special services. Three special services are provided within GIDEP. The Alert system which notifies the participant of problem areas; the Urgent Data Request (UDR) system, which allows a GIDEP participant to query all other GIDEP participant on specific problems; and the Metrology Information Service (MIS), which provides rapid response to GIDEP participants on queries related to test equipment and measurement services.

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40.2.1 ALERT System. The ALERT System provides the GIDEP participant with identification and notification of actual or potential problems on parts, components, materials, manufacturing processes, equipment or safety conditions. The initiator of the ALERT coordinates the ALERT with the manufacturer (vendor) when applicable, then forwards it to the GIDEP Operations Center for distribution to all participants. Information on diminishing manufacturing sources and material shortages is also distributed by this system.

40.2.2 UDR System. The UDR System permits any participant with a technical problem to rapidly query the scientific and engineering expertise of all participant organizations. A UDR Form is initiated by the member and sent to the GIDEP Operations Center for distribution to all participants. Responses are provided directly to the person making the query and also incorporated into the appropriate data interchange.

40.3 Levels of participation. There are two levels of participation in GIDEP: full or partial, depending upon the organizations needs.

40.3.1 Full participation. This level is intended for organizations which require frequent and immediate access to all current data in one or more GIDEP Data Interchanges. They receive complete files of the Interchange(s) including indexes, and microforms.

40.3.2 Partial participation. This level is intended for organizations which require infrequent access to GIDEP data and can tolerate some delay. They are provided all program materials except the microforms for the interchange(s) of interest. Access for partial participation is achieved by means of index searches followed by requests to the GIDEP Operations Center for specific selected items of interest. Partial participants may convert to full participation status when the degree of utilization justifies the maintenance of microfilm data bank.

40.4 Data submission. Each participant, depending upon the data interchanges that are involved, submits test reports, calibration procedures, failure rate/mode data, failure experience data and related technical information to the GIDEP Operations Center. These documents are normally generated incident to ongoing tasks and contractual requirements and are not prepared solely for GIDEP. The GIDEP Operations Center reviews, processes, computer indexes and microfilms such documents for distribution to participants.

40.5 Manufacturers data. A manufacturer may submit certifiable test reports detailing test results and qualification of devices and equipment of their manufacture as part of the GIDEP data base. The testing can be conducted at the manufacturer's facilities, government facilities or independent laboratories. The test data furnished by manufacturers will afford an opportunity to make test and reliability data available to a broad base of prospective "users" in Government and Industry.

40.6 Data retrieval. GIDEP has a rapid data retrieval system which makes the microfilmed information in the data banks immediately accessible to all participants through the use of remote computer terminal search.

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40.6.1 Indexes. Participants can use hard-copy indexes to retrieve specific data from the microfilm cartridges. Hardcopy indexes are prepared in various formats depending upon anticipated usage.

40.6.2 Remote terminal equipment. Participants having remote terminal equipment that has teletype compatible, ASCII Character Set, half-duplex or batch mode, 300 or 1200 baud, and even parity, may be authorized direct access to the GIDEP data banks. Data searches and other assistance in use of the program is always available by contacting the GIDEP Operations Center.

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APPENDIX B
GUIDELINES FOR THE SELECTIVE APPLICATION AND TAILORING
OF GIDEP PARTICIPATION REQUIREMENTS

10. SCOPE

10.1 Scope. This appendix identifies the data interchanges and the types of data that should be considered for each phase of the life cycle of equipment acquisition and the specific type of contractual effort. This appendix is not a mandatory part of the standard. The information contained herein is intended for guidance only in the selective application and tailoring of GIDEP participation requirements.

20. REFERENCED DOCUMENTS

20.1 Government document. The following document forms a part of this appendix to the extent specified herein.

STANDARD

MILITARY

MIL-STD-1388-1 Logistic Support Analysis

30. GENERAL GUIDELINES

30.1 Selection of data interchanges. The following guidance is provided for determining the appropriate GIDEP data interchange(s) for contractor participation (see 4.1 of basic standard).

30.1.1 Acquisition phases. The following subparagraphs provide guidance for the selection of GIDEP data interchanges based upon consideration of the established acquisition phases in the life cycle of equipments/systems. These phases are defined in MIL-STD-1388-1.

30.1.1.1 Concept exploration. The EDI will provide the most data during this phase. If reliability or maintainability programs are required during this phase, then the RMDI may provide significant cost avoidance.

30.1.1.2 Demonstration and validation. The EDI, FEDI, and RMDI are most likely to provide the most significant cost avoidance for this phase. Part and component tests may be reduced or eliminated by using test data generated on other major developments. DMSMS data may assist in ensuring parts availability.

30.1.1.3 Full scale development. All data interchanges should be considered in this phase. EDI to reduce documentation and test; FEDI to eliminate problem parts and components, and to support parts control, logistics planning and standardization; RMDI during the reliability-maintainability programs and for logistics planning; MDI to avoid generation of duplicate calibration procedures and maintenance manuals.

30.1.1.4 Production and deployment. All data interchanges should be considered for this phase. During this phase, costly testing may be reduced or eliminated, problem parts and components eliminated, and metrology cost may be reduced by utilizing vital reliability-maintainability data previously generated.

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30.1.1.5 Post production. MDI should be considered for this phase to eliminate the necessity of maintaining costly calibration procedure files and maintenance manual sources. Important and vital reliability data is collected and submitted to GIDEP during this time.

30.1.2 Using disciplines. Table I provides a guide to the engineering and the manufacturing disciplines which should benefit from utilizing the GIDEP data, and identifies the data interchanges pertinent to such using disciplines.

30.1.3 Contract work task/data requirements. The contracting officer, program manager, and cognizant data manager should review the work tasks/data requirements of the contract with the contracting activity's GIDEP representative to determine which GIDEP data interchanges may be applicable to the proposed acquisition with respect to such work tasks/data requirements.

30.2 Selection of data for GIDEP data submittals. The cognizant data manager and the contracting activity's GIDEP representative should review the data items specified on the CDRL of the contract and provide for submittal of copies of such items to the GIDEP Operations Center, as deemed appropriate to the data interchanges selected for contractor participation. In addition, the data items listed in 6.2 of the basic standard should be selected for inclusion on the CDRL, as appropriate to the contractor's participation in GIDEP. The contracting officer should ensure that copies of data intended for GIDEP are submitted, accordingly.

30.2.1 Cost impact of GIDEP data. It is noted that the GIDEP Annual Progress Report is not considered a significant cost item. Similarly, the ALERTs/SAFE-ALERTs are produced so infrequently as to be considered, in general, of insignificant cost.

30.3 GIDEP Application matrix. The matrix (Table II) provided in this appendix should be used by the contracting officer and the GIDEP representative to tailor the application of this standard to the specific type of acquisition in accordance with the guidance provided in section 6 of the basic standard and this appendix. Only those requirements which are likely to provide significant benefits should be applied to the acquisition under consideration. The applicable requirements are indicated on the matrix with respect to the following considerations:

a. Acquisition phase. The acquisition phase columns indicate the minimum level of requirements recommended for imposition in the contract in order to provide for meaningful contractor participation in GIDEP during the respective phases.

b. Associated detailed implementation. Whenever the requirements of paragraph 4.1, items a, b, c or d are invoked in the contract, the associated detailed implementing requirements of paragraphs and subparagraphs of 5.3.1, 5.3.2, 5.3.3 or 5.3.4, respectively, should be required to the full extent of the coverage specified in this standard in order to provide meaningful contractor participation in the selected GIDEP data interchange(s).

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TABLE I. GIDEP Utilization

<u>Types of Data</u>	<u>Data Interchanges</u>	<u>Using Disciplines</u>
Technical Reports Research Engineering Production Methodology	EDI	Research, Engineering, Design, Production, Consulting, Industrial Engineering
Energy Data Solar Coal Nuclear Petroleum Wind Hydroelectric Geotherm	EDI	Energy Research, Development, Design, Production, Nuclear Consulting
Quality Data Plans, Specifications, Test data, QA Plans, Storage life data, First article tests, Failure analysis data	EDI FEDI	Engineering, Quality Assurance, Purchasing, Test Engineers, Industrial Engineers
Test and Evaluation Qualification tests, Development tests, Production test methods, Evaluation tests, Demonstration tests, Test plans, Part justification tests	EDI RMDI	Test Engineers, Quality Assurance, Reliability, Maintainability, Product Engineers, Human Engineering, Industrial Engineering, Components Engineering
Nonstandard Parts Justification	EDI	Design, Quality Assurance, Printed Circuit Boards, Components Reliability, Purchasing, Engineering
Calibration Procedures Measurement technology Precision measurement	MDI	Calibration Technicians Industrial, Test and Maintenance Engineers, Metrologists
Maintenance Manuals Test Equipment	MDI	Test, Logistics Engineering, Maintenance and Calibration Technicians
Failure Experience Data ALERTs, SAFE-ALERTs, Problem information, Failure analysis, Diminishing manufacturing resources and material shortages information	FEDI	All disciplines

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TABLE I. GIDEP Utilization-(Continued)

<u>Types of Data</u>	<u>Data Interchanges</u>	<u>Using Disciplines</u>
Failure Rate/Failure Mode Environmental Stress	RM DI	Reliability, Maintainability, Logistics, and Maintenance
Reliability/Maintainability Plans, Specifications, Models, Statistics, Prediction techniques	RM DI ED I	Reliability, Maintainability Logistics Engineers
Computers Hardware, Peripherals, Storage devices, Software	ED I RM DI MD I	Engineers, Programmers, Systems Analysis, Test Programmers

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TABLE II. GIDEP Application matrix.

Paragraph Number	Title	Acquisition Phase				
		CONCEPT	VALID	FSED	PROD	POST PROD
4.1	Participation requirement	G	G	G	G	G
4.1.a	Engineering Data Interchange (EDI)	G	G	G	G	G
4.1.b	Failure Experience Data Interchange (FEDI)	S	G	G	G	G
4.1.c	Reliability-Maintainability Data Interchange (RMDI)	S	G	G	G	G
4.1.d	Metrology Data Interchange (MDI)	N/A	S	G	G	G
5.1	Contractor responsibilities	G	G	G	G	G
5.2	GIDEP Representative's responsibilities	G	G	G	G	G

Code DefinitionsAcquisition Phase

CONCEPT - Concept Exploration
 VALID - Demonstration & Validation
 FSED - Full Scale Development
 PROD - Production & Development
 POST PROD - Post Production

Applicability

G - Generally
 S - Selectively
 N/A - Not Applicable

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STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

(See Instructions - Reverse Side)

1. DOCUMENT NUMBER MIL-STD-1556B	2. DOCUMENT TITLE Government/Industry Data Exchange Program (GIDEP) Contractor Participation Requirements
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3a. NAME OF SUBMITTING ORGANIZATION

4. TYPE OF ORGANIZATION (Mark one)

VENDOR

USER

MANUFACTURER

OTHER (Specify): _____

b. ADDRESS (Street, City, State, ZIP Code)

5. PROBLEM AREAS

a. Paragraph Number and Wording:

b. Recommended Wording:

c. Reason/Rationale for Recommendation:

6. REMARKS

7a. NAME OF SUBMITTER (Last, First, MI) - Optional

b. WORK TELEPHONE NUMBER (Include Area Code) - Optional

c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional

8. DATE OF SUBMISSION (YYMMDD)