



GIDEP Program Summary

GIDEP is...

GIDEP is the Government-Industry Data Exchange Program, a Department of Defense program established to promote and facilitate the sharing of technical information between government agencies and industry partners to increase systems safety, reliability, and readiness and to reduce systems development, production, and ownership costs.

GIDEP is funded by the U.S. and Canadian governments. GIDEP membership is open and free to U.S./Canadian government agencies and their industry partners.

GIDEP is the resident centralized database designated by the Department of Defense for the timely distribution of Diminishing Manufacturing Sources and Material Shortages (DMSMS) Notices.

GIDEP is the government-wide, central system for the exchange of information about non-conforming parts and products.

GIDEP is composed of participating organizations, including the U.S. Army, the U.S. Navy, the U.S. Air Force, the Defense Logistics Agency, the National Aeronautics and Space Administration, the Department of Energy, the Department of Labor, the Department of Commerce, the General Services Administration, the Federal Aviation Administration, the U.S. Postal Service, the National Institute of Standards and Technology, and the National Security Agency, as well as the Canadian Department of Defence.

GIDEP is, in addition, proud to have hundreds of suppliers & industry organizations as members.

GIDEP Provides...

GIDEP provides an easy-to-use medium for exchanging technical information essential to the research, design, development, test, production, operation, and support phases of parts, equipment, facilities and weapons systems.

GIDEP provides participating members with full access, via computer and modem, to a wide range of technical reports and documents, organized into these general categories:

- ♦ ***Engineering Information:*** Engineering reports, Management reports, Nonstandard Parts reports, Computer Technology reports, Process Specifications reports, Test reports, Soldering Technology Library reports and related engineering data on parts, components, materials and processes, including significant amounts of energy and environmental information.
- ♦ ***Failure Experience Information:*** Text of objective failure reports notifying users of nonconforming parts, components, chemicals, processes, materials, safety and hazardous situations, lessons learned, along with failure analysis results and problem information data resulting from laboratory analyses.
- ♦ ***Metrology Information:*** Detailed calibration procedures for the periodic verification of performance of test, diagnostic, and measurement equipment; technical manuals providing detailed maintenance, repair, and/or operating instructions; and other documents containing metrology data or about measurement science-related topics.
- ♦ ***Product Information:*** Diminishing Manufacturing Sources & Material Shortages notices; notices about processes, parts, components and materials which are being discontinued or changed by the manufacturers; other product information, including alternate sources & after market suppliers.
- ♦ ***Reliability&Maintainability (R&M) Information:*** Documents and reports on the R&M of parts, components, assemblies, equipment, and systems based on operational field performance tests, accelerated laboratory life testing, and R&M demonstration tests plus R&M theories, methodologies, techniques, practices, and procedures such as prediction techniques, Failure Modes and Effects analyses, mathematical models, and reliability growth plans.
- ♦ ***Urgent Data Request:*** Direct queries from GIDEP members needing technical information or experiencing technical problems to the GIDEP community for suggestions and solutions.

GIDEP Offers...

GIDEP offers design, component and system engineers a ready source of parts and other technical information to significantly help shorten the time required for design and parts selection. Information about nonconforming products, suspect counterfeit items, product obsolescence, loss of sources, and guidance/findings on electronics and materials, can be used to avoid costly delays in the development of new or modified systems.

GIDEP offers production engineers information about new and innovative techniques to improve production processes and reduce production costs. Manufacturing practices data contains information on practices submitted and used by industry.

GIDEP offers reliability engineers valuable failure information for modeling and assessment studies which can help preclude system malfunctions and potential disasters at any point in the acquisition or operating processes.

GIDEP offers logisticians discontinued part notices, reports on components suspected of being counterfeit, and product change notices important in maintaining weapon systems that have been in use for decades. Logisticians can also access mean repair time data for use in projecting logistics support and supply requirements.

GIDEP offers management access to others' best practices such as cost estimating and cost studies, value engineering, soldering technology, facility management, and other management information.

GIDEP offers calibration laboratories access to many current calibration procedures and thousands of technical manuals for test and measurement equipment, many of which are now out of print.

GIDEP offers federal and military personnel access to Failure Experience data, including but not limited to, top level Agency Action Notices and Lessons Learned documents on a diverse variety of topics. These may even include "government only" accessible documents, often related to suspect counterfeit materials, for which the Defense Criminal Investigative Service may wish to limit distribution to protect potential litigation cases. For these documents, distribution is intentionally limited to ensure safety and critical information that may impact the war fighter (and other device end users) is distributed as soon as possible. In past cases, suspect counterfeit items have been pulled from inventory/stores at various agencies thereby minimizing or avoiding additional use and maximizing safety and the prevention of unplanned agency expenditures.

GIDEP offers all members the opportunity to benefit from a broad range of professional contacts representing almost every technical discipline and endeavor across the US and Canada. The Urgent Data Request is a tool used to communicate program materiel and supply needs across the network of GIDEP participants.

GIDEP Operates...

GIDEP operates on the philosophy of "Having the information waiting for the user, not the user waiting for the information." Since it's inception GIDEP has emphasized the rapid transmission of current information directly to its users. This emphasis has not changed.

GIDEP operates a modern document imaging system to process items submitted by participants in their original document format, including all graphics. All information is maintained in an on-line database which members can easily access, search for information needed, download desired documents to a personal computer, and print on a local printer or store for later use.

GIDEP operates to serve its members and at the same time depends on its participating members to regularly submit test reports, calibration procedures, reliability statistical data, failure analysis data, and other technical information related to parts, processes, equipment, software, systems, and issues of safety. With the exceptions of failure experience reports and product information notices, documents submitted to GIDEP by members are ones normally generated incidental to on-going tasks and contractual requirements. No extra document preparation is required.

GIDEP Requires...

GIDEP requires its members to -

- ♦ Exchange technical information with other GIDEP participants
- ♦ Abide by the Participation Requirements specified in the GIDEP Operations Manual
- ♦ Submit a GIDEP Utilization Report on an annual basis

GIDEP requires, finally, that its participating users have suitable technical equipment (computer, modem, printer, if desired) to access and use the database, as well as the means to disseminate information, upon request, in hard copy.

GIDEP Welcomes...

GIDEP welcomes any industrial organization or company supplying products or services to the U.S. Government, or to the Canadian Department of Defence, to request participation in GIDEP.

GIDEP welcomes any government activity which acquires supplies, items, services, facilities or equipment for the government to request participation in GIDEP. In fact, activities operating under the aegis of participating government departments and agencies automatically qualify as GIDEP participants.

GIDEP welcomes you to request an Application for Participation and/or additional information. Just contact the -

GIDEP Operations Center
P.O. Box 8000
Corona, CA 92878-8000

(951) 898-3207
(951) 898-3250 (FAX)

gidep@gidep.org
<http://www.gidep.org>



Failure Experience Data

SCOPE: Failure Experience Data contained in the Government-Industry Data Exchange Program (GIDEP) database applies to parts, components, fluids, materials, safety practices, health hazards, manufacturing processes, specifications and test instrumentation. Reports provided by GIDEP containing Failure Experience Data include:

- Alerts (AL)
- Safe-Alerts (SA)
- Problem Advisories (PA)
- Agency Action Notices (AN)
- Lessons Learned (LL)

PURPOSE: GIDEP provides its members with Failure Experience Data and related reports to assist users in improving the availability, reliability, maintainability, quality and safety of their systems and equipment. Timely Failure Experience information may result in significant prevention of unplanned expenditures to user organizations, and more importantly, reduced injuries and saved lives. The on-going availability of timely problem (failure) data can help preclude equipment / system malfunctions and help obviate the need for equipment redesign. Often, this information is not readily available or easily obtained from other sources.

OPERATION: Organizational failure experience reports that have been appropriately coordinated with the manufacturers are submitted to GIDEP for processing at the GIDEP Operations Center and are maintained in an on-line database in the original document format, including all graphics. GIDEP members may search the database for any submitted documents, view the documents on line, and / or download the documents to print to a local printer.

DISTRIBUTION: GIDEP documents are non-proprietary and unclassified. However, GIDEP participants may not redistribute GIDEP documents to non-members.

PARTICIPATION: Any organization which directly or indirectly provides products or services to the government, as well as any Government Activity, may participate in GIDEP and be authorized access to its database. (Some organizations have a contractual requirement to participate in GIDEP.) Participants, in addition to having the computer equipment to access GIDEP's database, must be willing to:

- Exchange technical information with other GIDEP participants.
- Abide by the Participants Requirements specified in the GIDEP Operations Manual.
- Submit a GIDEP Utilization Report on an annual basis.

Failure Experience Data Manager

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GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM

ALERT

| | | | |
|---|----------------------------------|--|--|
| 1. TITLE (Class, Function, Type, etc.) RF CONNECTORS, ELECTRICAL | | 2. DOCUMENT NUMBER X11-A-01-01 | |
| | | 3. DATE (DD-MMM-YY) 16 NOVEMBER 2002 | |
| 4. MANUFACTURER AND ADDRESS Big Connector Company (BCC) 123 Manufacturing Road MyTown, MyState, USA, 99999 | 5. PART NUMBER X1Z3Y3 | | 6. NATIONAL STOCK NUMBER NONE |
| | 7. SPECIFICATION NONE | | 8. TYPE DESIGNATOR NONE |
| | 9. LOT DATE CODE START 33-316 | | 10. LOT DATE CODE END 33-320 |
| 11. MANUFACTURER'S POINT OF CONTACT Joseph Qualifications | | 12. CAGE X1234 | 13. MANUFACTURER'S FAX (999) 111-1110 |
| 14. MFR. POC PHONE (999) 111-1111 | | 15. MANUFACTURER'S E-MAIL rfconnectors@big.com | |
| 16. CROSS REFERENCE VENDOR NONE | | 17. CROSS REFERENCE CAGE NONE | 18. CROSS REFERENCE PART NONE |
| 19. PROBLEM DESCRIPTION / DISCUSSION / EFFECT BIG CONNECTOR COMPANY HAS EXPERIENCED TWO FAILURES OF A SURFACE MOUNT, PRECISION CHIP RESISTOR, SIZE 1505, 5.23K OHMS +/- 0.01% TOLERANCE, PART NUMBER 585858-00T, GENERIC P/N DFML404-300. SEE BCC'S RELIABILITY ANALYSIS LABORATORY FAILURE ANALYSIS REPORT F02264 ATTACHED TO THIS ALERT. (NOTE: BCC HAS EXPERIENCED OTHER FAILURES OF THIS SAME TYPE OF RESISTOR, DIFFERENT ALUMINA SUBSTRATE CODES. BOTH RESISTORS EXHIBITED AN OPEN CRACK CONDITION. VISUAL INSPECTION REVEALED AN EXCESSIVE GAP OF 0.001" BETWEEN ONE OF THE CAPS THAT WRAP THE ALUMINA SUBSTRATES. | | | |
| 20. ACTION TAKEN/PLANNED BCC WILL PERFORM 100% VISUAL INSPECTION AT 40X TO 50X MAGNIFICATION ON ALL 93079 SERIES CHIP RESISTORS AFTER SOLDER MOUNTING ON BOARDS, AND WILL REJECT ANY DEVICE WITH A GREATER THAN 50% VOID OR "NECK DOWN" CONDITION. IN ADDITION, ORBITAL WILL ENSURE THAT THE SOLDER FILLET HEIGHTS ARE NO GREATER THAN 85% OF THE THICKNESS OF THE CHIP RESISTOR PER MANUFACTURERS RECOMMENDATIONS. | | | |
| 21. DATE MFR. NOTIFIED 19 November 2002 | | 22. MANUFACTURER'S RESPONSE <input checked="" type="checkbox"/> REPLY ATTACHED <input type="checkbox"/> NO REPLY | |
| | | 23. ORIGINATOR ADDRESS/POINT OF CONTACT I.M.A Representative Your Street Your City, Your State, USA, 12345 | |
| 24. GIDEP REPRESENTATIVE I.M.A. Representative | | 25. SIGNATURE | |
| | | 26. DATE 19 Nov 2002 | |

SAMPLE



Suspect Counterfeit Reporting

SCOPE: Reports about suspect counterfeit products are contained in the Government-Industry Data Exchange Program (GIDEP) database. (Counterfeit products could likely add risk if they are use in sophisticated Government and military systems. GIDEP collects and distributes reports on their occurrence.) The type of issue involving a suspect counterfeit item can vary. The counterfeit report is typically reported on one of the standard GIDEP documents, such as:

- ALERT's (AL)
- SAFE-ALERT's (SA)
- Problem Advisories (PA)
- Agency Action Notices (AN)
- Lessons Learned (LL)
- Urgent Data Request (UDR)

PURPOSE: Suspect counterfeit reports are provided to GIDEP members to assist them in mitigating the risk of using these items in their systems and equipment. Timely notification may result in significant prevention of unplanned expenditures to user organizations, and more importantly, reduce injuries and save lives. The ongoing availability of timely problem data can help preclude equipment / system malfunctions, support risk mitigate problems, and help obviate the need for equipment redesign. Often, this information is not readily available or easily obtained from other sources.

OPERATION: Suspect Counterfeit reports are coordinated with the supplier, and when required, with internal legal/investigative functions prior to release to GIDEP. The reports are maintained in an on-line database in the original document format, including all graphics and attachments. GIDEP members may search the database, using "SUSPECT COUNTERFEIT" as a keyword, to get a list of all suspect documents, view the documents on line, and / or download the documents to print to a local printer. GIDEP members may also choose the "Suspect Counterfeit" button from the GIDEP Database Report Selection page.

DISTRIBUTION: GIDEP documents are non-proprietary and unclassified. However, GIDEP participants may not redistribute GIDEP documents to non-members.

PARTICIPATION: Any organization which directly or indirectly provides products or services to the government, as well as any Government Activity, may participate in GIDEP and be authorized access to its database. (Some organizations may have a contractual requirement to participate in GIDEP.) Participants, in addition to having the computer equipment to access GIDEP's database, must be willing to:

- Exchange technical information with other GIDEP participants.
- Abide by the Participants Requirements specified in the GIDEP Operations Manual.
- Submit a GIDEP Utilization Report on an annual basis.

Failure Experience Data Manager

GIDEP Operations Center P.O. Box 8000 Corona, CA 92878-8000
(951) 898-3207 (951) 736-4091 (FAX)
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GIDEP Alert Example

Use existing GIDEP Form as appropriate...
This example shows the use of the Alert form.

| GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM | | |
|---|--|---|
| ALERT | | |
| 1. TITLE <i>(Class, Function, Type, etc.)</i> | | 2. DOCUMENT NUMBER |
| <p>Add "SUSPECT COUNTERFEIT" to the Title block.</p> | | 3. DATE <i>(DD-MMM-YY)</i> |
| 4. MANUFACTURER AND ADDRESS | 5. PART NUMBER | 6. NATIONAL STOCK NUMBER |
| <p>Put the name of the impacted manufacturer in the 'Manufacturer' block. (To facilitate BOM search... not intended to impugn the impacted manufacturer.)</p> | 7. SPECIFICATION | <p>Put the part identifier, as marked on the product, in the 'Part Number' block.</p> |
| | 9. LOT DATE CODE START | |
| 11. MANUFACTURER'S POINT OF CONTACT | 12. CAGE | 13. MANUFACTURER'S FAX |
| 14. MFR. POC PHONE () | 15. MANUFACTURER'S | <p>Put the CAGE code of the impacted manufacturer in the 'CAGE' block.</p> |
| 16. SUPPLIER | 17. SUPPLIER ADDRESS | 18. SUPPLIER CAGE |
| 19. PROBLEM DESCRIPTION / DISCUSSION / EFFECT | | |
| <p>Clarify in the DISCUSSION block the difference between the source (broker or supplier) and maker (name or logo) identified on the product. GIDEP needs to be able to distinguish for its users the difference. The source is important for the acquisition process whereas the part marking is important to the logistics community. If approved by legal and investigative organizations, put the name of the source (e.g. broker or supplier) in the 'DISCUSSION' block.</p> | | |
| 20. ACTION TAKEN/PLANNED | | |
| <p>Submit draft copies of documents for comment to:</p> <ul style="list-style-type: none"> • Company supplying suspect product (Required) • Impacted manufacturer (<i>Recommended</i>) <p>Allow up to 15 working days for supplier to reply. Attach any relevant responses when submitting report to GIDEP.</p> | | |
| 21. DATE MFR. NOTIFIED/ SUPPLIER NOTIFIED | 22. MFR./SUPPLIER RESPONSE | 23. ORIGINATOR ADDRESS/POINT OF CONTACT |
| | <input type="checkbox"/> REPLY ATTACHED <input type="checkbox"/> NO REPLY | |
| 24. GIDEP REPRESENTATIVE | 25. SIGNATURE | 26. DATE |



Product Information Data

SCOPE: The Product Information database is designed to support multiple types of users, including Systems Commands, Logistic Activities, In-service Engineering Activities, and support contractors. Product Information reports include:

- Product Change Notices
- Product Information Notices

PURPOSE: GIDEP has been designated as the centralized database for the timely distribution of product information through Product Information and Change Notices. Product Change Notices and Product Information Notices are used to inform product users of changes in technical characteristics or parameters in items/materials. The intent of these notices is to provide Government Activities with advanced notice of product changes in order to allow these Activities maximum lead time to make decisions among using alternate source, redesigning affected components of a system.

OPERATION: Manufacturers/vendors can submit data on product change or product information to GIDEP by means of e-mail, fax, or U.S. mail. GIDEP processes these Product Change/Product Information Notices on a modern document imaging system and maintains the information in an on-line database.

A manufacturer does not have to be a member of GIDEP to submit data to the program. In fact, GIDEP encourages anyone who is aware of any items or materials which manufacturers have changed to report this information to GIDEP using Product Change Notice. Blank forms for Product Change Notice and Product Information Notice are available off the GIDEP web site or by contacting the GIDEP Help Desk.

DISTRIBUTION: GIDEP electronically distributes via the GIDEP database these Product Change, and Product Information Notices, making the manufacturers' information and the government's responses immediately available to over 1,500 GIDEP Program participants. GIDEP users may retrieve PID data by accessing the GIDEP database on the World Wide Web (WWW).

PARTICIPATION: Any organization which directly or indirectly provides products or services to the government, as well as any Government Activity, may participate in GIDEP and be authorized access to its database. (Some organizations have a contractual requirement to participate in GIDEP.) Participants, in addition to having the computer equipment to access GIDEP's database, must be willing to:

- Exchange technical information with other GIDEP participants.
- Abide by the Participants Requirements of the GIDEP Operations Manual.
- Submit a GIDEP Utilization Report on an annual basis.

Product Information Data Manager

GIDEP Operations Center P.O. Box 8000 Corona, CA 92878-8000

(951) 898-3207 (951) 898-3250 (FAX)

gidep@gidep.org <http://www.gidep.org>

PRODUCT CHANGE NOTICE

| | | | |
|-----------------------------|-------------------|-----------------------------------|--|
| 1. TITLE | | 2. DOCUMENT NUMBER | |
| | | 3. DATE | |
| 4. MANUFACTURER AND ADDRESS | | 5. MANUFACTURER PART NUMBER | |
| | | 6. BASE PART | |
| | | 7. NATIONAL STOCK NUMBER (NSN) | |
| 8. CAGE | 9. EFFECTIVE DATE | 10. GOVERNMENT NUMBER | |
| 11. POINT OF CONTACT | | 12. DRAWING NUMBER | |
| | | 13. SPECIFICATION NUMBER | |
| 14. PRODUCT CHANGE | | | |
| 15. APPROVAL DATE | | 16. APPROVING GOVERNMENT ACTIVITY | |
| 17. GIDEP REPRESENTATIVE | | 18. SIGNATURE | |
| | | 19. DATE | |



Diminishing Manufacturing Sources Data

SCOPE: The Diminishing Manufacturing Sources database is designed to support multiple types of users, including Systems Commands, Logistic Activities, In-service Engineering Activities, and support contractors. Product Information reports include:

- Diminishing Manufacturing Sources and Material Shortages (DMSMS) Notices
- Product Change Notices
- Product Information Notices

PURPOSE: GIDEP has been designated as the centralized database for the timely distribution of Diminishing Manufacturing Sources and Material Shortages (DMSMS) data, distributed through DMSMS Notices. In addition, GIDEP distributes Product Change Notices and Product Information Notices which are used to inform product users of changes in technical characteristics or parameters in items/materials. The intent of these notices is to provide Government Activities with advanced notice of product discontinuance or product changes in order to allow these Activities maximum lead time to make decisions among using alternate source, redesigning affected components of a system, or making life-of-type buys.

OPERATION: Manufacturers/vendors can submit data on product discontinuance, product change or product information to GIDEP by means of e-mail, fax, or U.S. mail. GIDEP processes these DMSMS/Product Change/Product Information Notices on a modern document imaging system, maintaining the information in an on-line database with indexes to the full text of all notices and images of non-text pages.

A manufacturer does not have to be a member of GIDEP to submit data to the program. In fact, GIDEP encourages anyone who is aware of any items or materials which manufacturers have changed or discontinued to report this information to GIDEP using Product Change Notice or DMSMS Notice forms. Blank forms for DMSMS Notice, Product Change Notice, and Product Information Notice are available off the GIDEP web site or by contacting the GIDEP Help Desk.

DISTRIBUTION: GIDEP electronically distributes via the GIDEP database these DMSMS, Product Change, and Product Information Notices, making the manufacturers' information and the government's responses immediately available to over 1,500 GIDEP Program participants. GIDEP users may retrieve Product Information Data (PID) by accessing the GIDEP database on the World Wide Web (WWW).

PARTICIPATION: Any organization which directly or indirectly provides products or services to the government, as well as any Government Activity, may participate in GIDEP and be authorized access to its database. (Some organizations have a contractual requirement to participate in GIDEP.) Participants, in addition to having the computer equipment to access GIDEP's database, must be willing to:

- Exchange technical information with other GIDEP participants.
- Abide by the Participants Requirements specified in the GIDEP Operations Manual.
- Submit a GIDEP Utilization Report on an annual basis.

Diminishing Manufacturing Sources Data Manager
GIDEP Operations Center P.O. Box 8000 Corona, CA 92878-8000
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gidep@gidep.org <http://www.gidep.org>

GOVERNMENT - INDUSTRY DATA EXCHANGE PROGRAM

DMSMS NOTICE

DIMINISHING MANUFACTURING SOURCES AND MATERIAL SHORTAGES

| | | | |
|---|--|--|--|
| 1. TITLE XYZ Manufacturing Corporation, Discontinuance Notification Number 1 | | X11-D-01-04 | |
| | | 3. DATE (Year, Month, Date) 16 November 2002 | |
| 4. MANUFACTURER NAME AND ADDRESS XYZ Manufacturing Corporation 123 SunnySide Street Anytown, AnyState, USA, 12345-0000 | | 5. MANUFACTURER POINT OF CONTACT (NAME) John Q. Public | |
| | | 6. MANUFACTURER POINT OF CONTACT TELEPHONE (999) 999-9999 | |
| 7. CAGE CODE (H4) 99999 | 8. MANUFACTURER FINAL ORDER DATE 2 December 2003 | 9. MANUFACTURER PART NUMBER XXXX-9999 | 10. BASE PART 54LS |
| 11. DOCUMENT ORIGINATOR Ann E. Engineer 777 Dix Ave Somewhere, A State, USA, 222222 | | 12. GOVERNMENT PART NUMBER NONE | 13. SPECIFICATION NUMBER MIL-PRF-35535 |
| | | 14. TYPE DESIGNATOR NONE | 15. MODEL NUMBER NONE |
| | | 16. NATIONAL STOCK NUMBER (NSN) 1111-11-111-1111 | 17. DRAWING NUMBER 5962-88787 |
| 18. COMMENTS XYZ MANUFACTURING CORP WISHES TO INFORM YOU THAT THE DEVICES LISTED IN THIS DOCUMENT ARE BEING DISCONTINUED. THE DECISION TO COMPLETE THESE PRODUCTS WAS PRIMARILY DUE TO LOW VOLUME OR MINIMAL DEMAND FROM OUR CUSTOMER BASE. FINAL ORDER DATE FOR THESE PRODUCTS IS DECEMBER 2, 2003. | | | |
| SAMPLE | | | |
| FOR GOVERNMENT AGENCIES USE ONLY | | | |
| 19. FEDERAL GOVERNMENT NAME AND ADDRESS For example: Defense Supply Center Columbus (DSCC) 3990 Broad St Columbus, OH 43216-5000 | | 20. FEDERAL GOVERNMENT POINT OF CONTACT NAME John Q. Public | |
| | | 21. FEDERAL GOVERNMENT POINT OF CONTACT TELEPHONE (999) 999-9999 | |
| 22. CASE NUMBER 2003-nnn | 23. USER RESPONSE DEADLINE DATE 25 November 2002 | 24. ROUTING IDENTIFIER CODE See database | |
| 25. SOLUTION /STATUS CODE In process | 26. USERS See database | | |



Engineering Data

SCOPE: Engineering Data is one type of data distributed by the Government-Industry Data Exchange Program (GIDEP). It has information about research materials, quality assessments, engineering tests, evaluation and qualification tests, parts and materials specifications, manufacturing, design, business practices, process controls, solder-ability, and other related engineering data on parts, components, materials, and processes. This data pertains to both commercial applications and military applications generated during research, development, testing, production, procurement and logistical operations - all phases of the acquisition life cycle. The data found in the GIDEP database is collected, organized and categorized according to these seven Document Designator descriptors:

- Engineering Reports (ER)
- Management Reports (MR)
- Process Specifications (PS)
- Test Reports (TR)
- Soldering Technology Library (STL)
- Facilities Documents (FD)
- Computer Technology Documents (CTD)

PURPOSE: GIDEP provides a useful, easy-to-access medium for the exchange of engineering and technical data to its government and industry members. GIDEP Engineering information, in particular, is intended to help contractors and government agencies reduce or eliminate duplicative and unnecessary costs associated with the production and support of parts, materials, components, equipment, and weapons systems.

OPERATION: Engineering documents submitted to GIDEP are processed at the GIDEP Operations Center on a modern document imaging system and maintained in an on-line database in the original document format, including all graphics. GIDEP members may search the database for any submitted documents, view the documents on line, and/or download the documents to print on a local printer. Members benefit from immediate access to the entire database and the capability of producing the best possible copy for organizational use.

DISTRIBUTION: GIDEP electronically distributes Engineering reports to its members via the GIDEP database. The data collected by GIDEP prior to November 1994 is archived and is available to members upon request to the GIDEP Operations Center

PARTICIPATION: Any organization which directly or indirectly provides products or services to the government, as well as any Government Activity, may participate in GIDEP and have access to GIDEP database. (Some organizations have a contractual requirement to participate in GIDEP.) Participants, in addition to having the computer equipment to access GIDEP's database, must be willing to:

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Engineering Data Manager

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(951) 898-3207 (951) 898-3250 (FAX)
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ENGINEERING REPORTS (ER):

Engineering Reports are conceptual design studies, developmental papers, manufacturing methods reports, technical studies, and parts and components applications documents covering all engineering disciplines. They include theoretical papers and practical applications of engineering techniques and mathematics and physics developed by private companies and government institutions.

MANAGEMENT REPORTS (MR):

Management Reports are total quality management reports, program plans, decision analysis reports, information management papers, risk assessment studies, manufacturing management reports, and cost analysis and life cycle studies. They also include GIDEP documentation to how GIDEP representatives manage and apply GIDEP data within the context of their own organizations. GIDEP data utilization reports are management reports which provide examples of applications of GIDEP data to solve specific technical problems.

PROCESS SPECIFICATIONS (PS):

Process Specifications include part, process, procurement, and material specifications. They are specification control drawings, source control drawings, selected item drawings, missile command specifications, and standard military drawings. This subject area also includes reports on process control, statistical process control, design of experiments, manufacturing methods, repair procedures, and environmental simulation procedures.

TEST REPORTS (TR):

Test Reports contain test procedures, test results, trend descriptions, analysis, conclusions, and summaries of tests performed on parts and systems. These test reports include the complete spectrum of types of tests performed in government and industry. Quality and qualification tests, developmental tests, first article tests, evaluation tests, and shock tests are in this subject area. GIDEP also contains test procedures and plans. Other types of tests in GIDEP are burn-in, accelerated life, and nondestructive test reports.

SOLDERING TECHNOLOGY LIBRARY (STL):

Soldering Technology Library includes reports with complete descriptions of soldering processes and printed circuit board design considerations. Surface mounted technology is included in this group. Microelectronic packaging and solder joint analysis are to be found here also.

FACILITIES DOCUMENTS (FD):

Facilities Documents include requirements for standards or testing laboratories, or similar facilities. Requirements include selection, design, layout, implementation, environmental controls, management, responsibilities, analysis or specifications.

COMPUTER TECHNOLOGY DOCUMENTS (CTD):

General documents on computer software or hardware. These include qualification and design. Such topics as computer aided design, computer algorithms, computer code, integrated manufacturing, computer interfaces, network, procurement, computer programs, computer resources, computer science, computer simulation, and system.



Reliability-Maintainability Data

SCOPE: Reliability-Maintainability Information found in the Government-Industry Data Exchange Program (GIDEP) database is collected, organized and categorized this way:

- Reliability-Maintainability Methodologies (RM)
- Reliability-Maintainability Predictions (RP)
- Reliability-Maintainability Statistics (RS)
- Failure Analyses (FA)

Documents and reports on the reliability / maintainability of parts, components, assemblies, equipment, sub-systems and systems are based on submitted results from operational field performance tests, from accelerated laboratory life testing, and from reliability / maintainability demonstration tests. The subjects of these tests and reports are mechanical, electronic, electro-mechanical, hydraulic and pneumatic items.

In addition to test reports, other R&M documents included in the database cover reliability / maintainability theories, methodologies, techniques, practices, and procedures such as prediction techniques, reliability improvement warranty studies, Failure Modes and Effects Analyses, mathematical models, and reliability growth plans.

PURPOSE: The Reliability-Maintainability Information available to users from the GIDEP database can help improve organizational R&M efficiency, help conserve valuable labor resources by eliminating duplicative efforts, and contribute positively to cost avoidance. Summarized failure and replacement rates and repair time data from actual field operations, as well as demonstration test results and laboratory accelerated-life tests, are immediately available to members to improve the accuracy of their R&M predictions.

OPERATION: Unclassified and non-proprietary documents containing Reliability-Maintainability Information submitted to GIDEP are processed at the GIDEP Operations Center on a modern document imaging system and maintained in an on-line database in the original document format, including all graphics.

DISTRIBUTION: Members may access all R&M information / documents found in the GIDEP database. If desired, members may print documents directly to a local printer.

PARTICIPATION: Any organization which directly or indirectly provides products or services to the government, as well as any Government Activity, may participate in GIDEP and be authorized access to its database. (Some organizations have a contractual requirement to participate in GIDEP.) Participants, in addition to having the computer equipment to access GIDEP's database, must be willing to:

- Exchange technical information with other GIDEP participants.
- Abide by the Participants Requirements specified in the GIDEP Operations Manual.
- Submit a GIDEP Utilization Report on an annual basis.

Reliability-Maintainability Data Manager

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GIDEP RELIABILITY-MAINTAINABILITY DATA

EXAMPLES OF R&M DATA IN THE GIDEP DATA BASE

R&M Models, Methods and Tools

1. R&M: A Conceptual Design Model
2. Reliability Block Diagrams and Math Models For Ejection Seat
3. Reliability Information Manual For Navy Electronic Equipment
4. Reliability Improvement Warranty, Terms and Conditions
5. System Reliability Determined From Component Reliability
6. Maintainability Methodology and Procedures

R&M Predictions

1. Reliability Prediction Models For Mechanical Equipment
2. Reliability Prediction - General Requirements
3. Reliability Prediction For Spacecraft (Satellite Reliability)
4. Maintainability Prediction Procedure

Training, Indoctrination and Related Studies

1. Reliability Design Guidelines
2. Reliability Handbook - Application of Monolithic Microcircuits
3. Reliability Growth Testing Effectiveness

Proposals, Surveys and Development

1. Reliability Plan and Product Improvement Program
2. R&M Growth and Comparative Evaluation
3. R&M Notebook For Acquisition Managers

R&M Reports

1. Test and Evaluation of System R-A-M
2. Aircraft Engine Case Study Reliability Report
3. Reliability Test Report For Radio Receiver
4. Reliability Demonstration Report on Data Processing Set

Typical R&M Data Computer Search

- * Failure Rate Data on Flip-Flops
- * Replacement Rate Data by Part Number
- * Seals Data by Manufacturer
- * Failure Mode Data on Helium Bottles
- * Reliability or Maintainability Guidelines
- * Mean-Repair-Time Data on Generators, Alternating Current: Portable



Metrology Data

SCOPE: Metrology information is a major component of the Government-Industry Data Exchange Program (GIDEP). In fact, “new metrology document” cost avoidance for GIDEP participants is in the millions of dollars every year.

While Metrology covers a wide range of measurement-related subjects, the major emphasis for GIDEP, is on Calibration Procedures and Technical Manuals. Metrology Information is submitted to GIDEP by participants from industry, government organizations and activities, and professional groups from the metrology community. The Army, Navy, and Air Force Metrology Centers are the major contributors of Calibration Procedures to the GIDEP database. Major test and measurement equipment manufacturers also participate in GIDEP and contribute significantly to the Technical Manuals found in the GIDEP Database. About 2,000 new entries are added each year. The Metrology database is organized as follows:

- Calibration Procedures - Detailed procedures for the periodic performance verification of test, diagnostic, and measurement equipment.
- Technical Manuals - Documents providing detailed maintenance, repair, and/or operating instruction. Many Technical Manuals for older equipment are found exclusively in the GIDEP database.
- Metrology Documents - Documents about measurement science-related topics that are not Calibration Procedures or Technical Manuals as described above.

PURPOSE: The GIDEP Metrology database was started in 1972 to provide broad government and industry exchange of information within the metrology community for U.S. and Canada. It now contains over 70,000 calibration procedures, instrument operation and maintenance manuals, and general metrology documents.

DISTRIBUTION: Metrology data is now available via subscription on DVD. Metrology data updates are provided on DVD and are distributed to subscribers on a regularly scheduled basis. Metrology information is also directly available to users via the GIDEP Internet database. The most up to date information can be found on the web not the DVDs. GIDEP participants can access Calibration Procedures and modify them as needed to save significant dollars and time compared to writing original procedures.

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Metrology Data Manager

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Metrology Data: There are two specific types: **Calibration Procedures (CP)** and **Technical Manuals (TM)**; and a general data type called **Metrology Documents (MD)**.

Most Calibration Procedures are written to calibrate specific test instruments; and the two primary ways of locating them in the GIDEP Database are as follows:

Browsing on test instrument information.

Use this method when Calibration Procedures are needed for various test instruments; e.g., Fluke Multimeter, Model 83

Searching on specific information.

Use this method when looking for a specific document; e.g., NA17-20MH-15.

The following are sample documents from the GIDEP data base:

Sample Calibration Procedures by Title

| DD | DOC | TITLE |
|----|-----------------|-------------------------|
| CP | 33K5-4-236-1 | ICE POINT REFERENCE |
| CP | EL-75-001/REV 1 | LOW RESISTANCE OHMMETER |
| CP | NA17-20AW-229 | OSCILLOSCOPES |
| CP | 33K6-4-730-1 | SCALES |

Sample Metrology Documents by Title

| AC | DOC | TITLE |
|-----------|----------------------|---|
| U97001E26 | NIST HANDBOOK 150-16 | COMMERCIAL PRODUCTS TESTING |
| U97028J20 | FCP-002/REV A | FIELD CALIBRATION PROCEDURE PYROMETERS |
| U97046G06 | V6-7133-01 | METROLOGY BULLETIN |
| U96073E01 | A73C-7 | RECALL AND PROCESSING OF MEASURING AND TEST EQUIPMENT |

Sample Technical Manuals by Title

| DD | AC | TITLE |
|----|----------|---|
| TM | V1750A-6 | PGA-TO-MINIDIP ADAPTER INSTRUCTIONS |
| TM | V1750A-1 | SOFTWARE INTEGRATION SYS USER'S INSTALLATION MANUAL |
| TM | V1750A-5 | TLD-TO-V1750 INTERFACE USER'S MANUAL |
| TM | 4208-35 | TOUCH SCREEN USERS SUPPLEMENT |
| TM | 1240-44 | Z80 MNEMONICS ROM PACK SN B0200000 & UP ONLY INSTR |

Where does the information come from?

The broad spectrum of participating activities throughout the U.S. and Canada provide Metrology Data. The Army, Navy, Air Force Metrology Centers are the major contributors of Calibration Procedures.

If you have any Metrology Data related reports, send them to GIDEP to be included in the data base.