

Government-Industry Data Exchange Program (GIDEP) and NASA Advisories

Policy to Practice

Presentation for NASA Supply Chain 2010

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Overview

- Purpose of the Government-Industry Data Exchange Program (GIDEP)
- NASA and GSFC Documentation
- NASA Advisories, differences from GIDEP
- GIDEP Distribution by Originator
- New Interim GIDEP Policy for Suspect Counterfeits
- NASA and Suspect Counterfeits
- Threats to GIDEP
- Conclusions and Contact Information



Lunar Reconnaissance Orbiter (LRO), Built at GSFC, Launched with LCROSS, June 18,2009



GIDEP Purpose



PURPOSE: Reduce or eliminate unnecessary resource expenditures by sharing existing information between government and industry participants.

NASA Documentation

- **NPR 8735.1B** Procedures for Exchanging Parts, Materials, and Safety Problem Data Utilizing the Government-Industry Data Exchange Program and NASA Advisories.
 - Requires ALL NASA Centers Participate in GIDEP
 - AND Have a Process to Issue NASA Advisories
 - AND Have a Closed Loop Disposition Process
 - AND Program and Project Managers shall ensure all significant parts, material and safety problems of general concern are identified and communicated via GIDEP documents or NASA Advisories
- **GPG 5340.3F** Preparation and Handling of Alerts, Safe-Alerts and Advisories.
 - Implements NPR 8735.1 at GSFC



Solar
Dynamics
Observatory
(SDO).





NASA Advisory

- NASA Advisories differ from GIDEPs
 - Intended for use by NASA and its contractors
 - May reflect space flight unique issues
 - Can be for information only
 - May cover NASA-specific lessons learned
- Each Center and HQ issue their own Advisories
- GSFC Advisories
 - Less restrictive distribution statement than other Centers'
 - Cleared by GSFC legal for public domain (in US)
 - Reviewed by Export Control so they can be shared with foreign partners





GSFC Examples

NA-GSFC-

2010-02 ESD Flooring

2010-01 Vinyl Grounding Boots for Cleanroom ESD Groundable Garments

2009-01 Vibration Overtest During Sine Burst

2008-02 Diode Availability Issues

2008-01 Compact Peripheral Interconnect (cPCI) Backplane: Avoidance of Tantalum Capacitors in Hot Swap Circuitry to Prevent Unnecessary Failures

2007-01 Metallized Plastic Film Capacitors – Things You Should Know

2006-01 DPAs on Field Programmable Gate Arrays (FPGAs) and Non-Volatile Memory Devices, Failure Reports, and Lessons Learned

2005-05 Latent Damage: Test and Analysis Practice for Managing Risks

2005-04 Application of Hitachi 1-Mbit Die Based EEPROM Technology to Space Applications



Distribution by Originator

- Per the GIDEP Manual,
“Distribution beyond participant’s organization must comply with GIDEP’s Distribution policy or be approved by the originator of the data.”
- The Alert Coordinator obtains Export Control authorization on GSFC initiated GIDEP documents; therefore, the Alert Coordinator has the capability of distributing these GIDEP documents, to international entities such as overseas manufacturing facilities.



New Interim GIDEP Policy (Suspect Counterfeit)



- “Reporting Suspect Counterfeit Parts and Materials”
 - Issued 9/15/10, Expires 12/15/10
- “This guidance is being provided to facilitate and encourage the reporting of suspect counterfeits ...”
- Eliminates requirement to identify supplier of the suspect counterfeit item in Alerts and Problem Advisories, avoiding legal concerns
- Allows “withheld” to be entered in boxes for “Supplier” information (16, 17 and 18)
- Requires category of supplier: Original Component Manufacturer, Franchised Distributor etc., be recorded in Box 19. Problem Description
- An initial list of 153 Alerts has been captured in NA-JSC-2011-01, to reduce “closed loop” impact to NASA
- “This interim guidance will only be exercised where absolutely necessary ...”



NASA and Counterfeits

- **FY11 NASA Authorization Bill S.3729 –**
 - Express language to address counterfeit electronic parts
- “The Administrator shall plan, develop, and implement a program ...”
- Requires:
 - Coordination with other federal agencies
 - Database to document and track incidents (**GIDEP?**)
 - Relevant training for selection, procurement etc.
 - Public release of information on incidents
 - **“Amend existing acquisition and procurement policy to purchase electronic parts from trusted or approved manufacturers”**
 - A list and criteria to support previous bullet
- **Administrator to report out in one year**

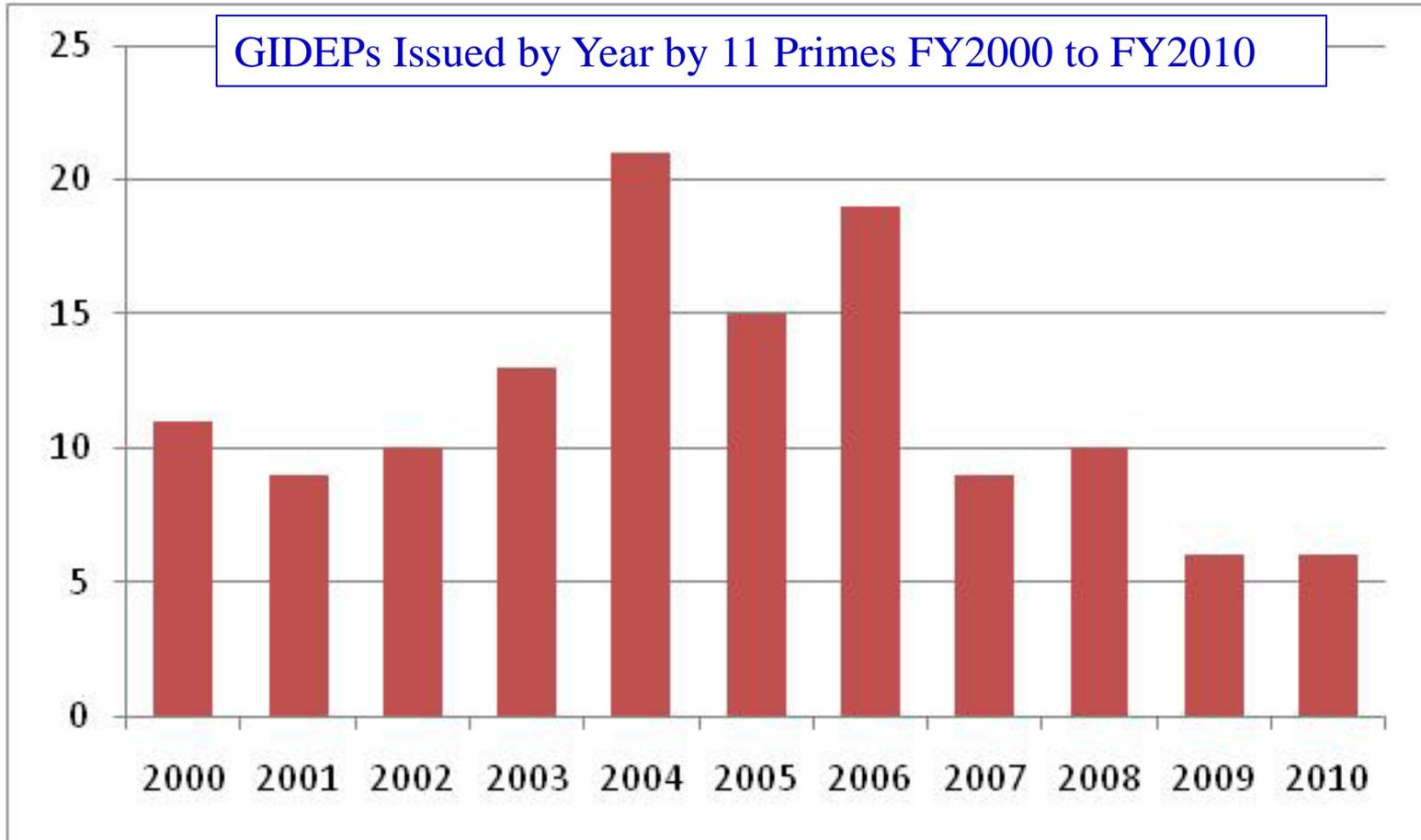


Threats to GIDEP

- Apathy and excuses
 - Legal concerns are unjustified
 - If it's a problem someone else will do an alert
- Internal alert processes
 - Preserve competitive advantage
 - Fulfill ethical obligation
 - Must be a process to transition some to GIDEP
- Manufacturer recall letter
 - Ineffective
- Letting the Supplier issue the alert
 - May never get around to it
 - May be weak

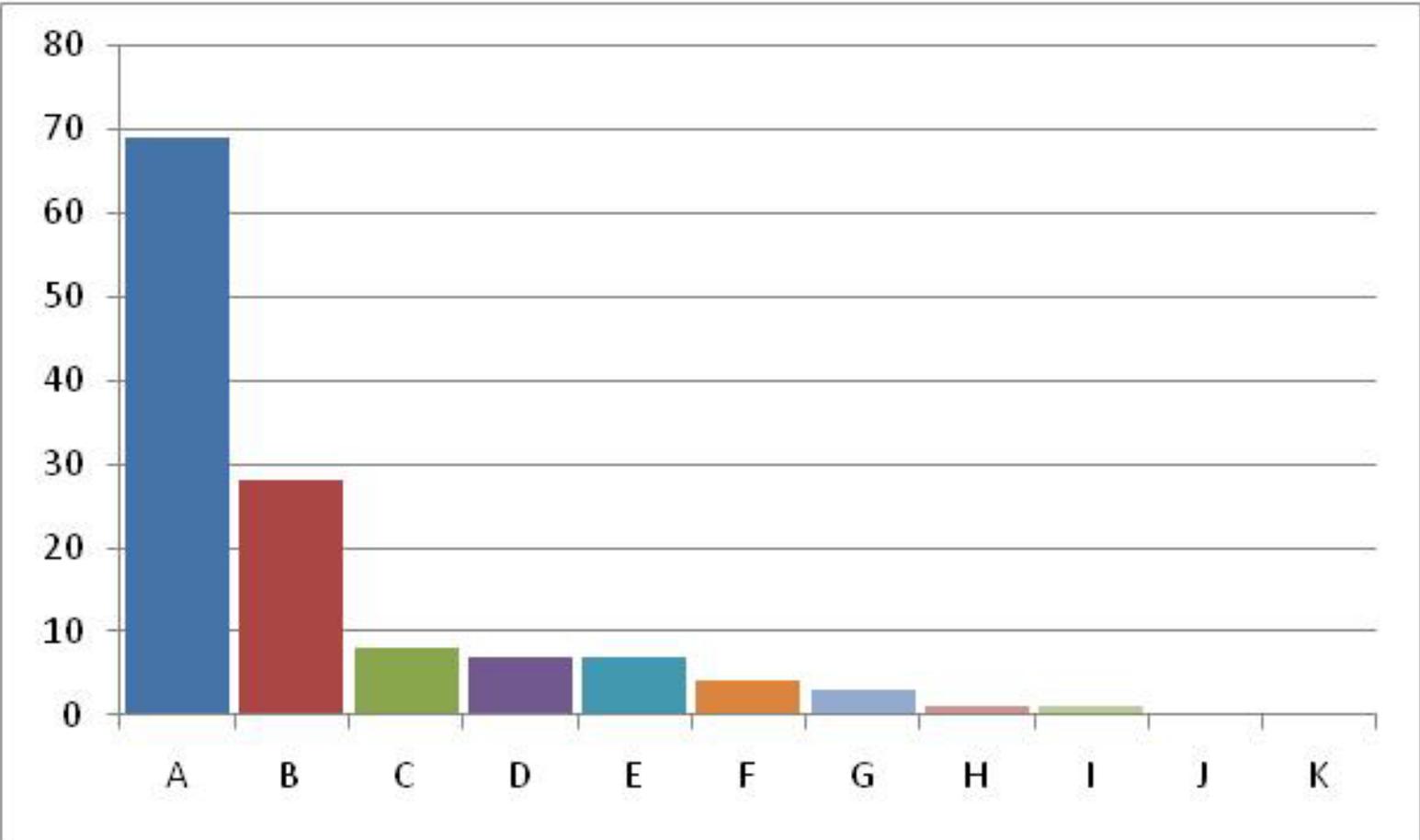


GIDEP Use in Decline?





GIDEP Activity for 11 Primes FY2000 to FY2010





In Conclusion, GIDEP is a Resource



- Alerts, Safe-Alerts, Advisories, and Agency Action Notices are free. These documents are very helpful in ensuring mission success
- **GSFC** NASA Advisories are freely distributed with no distribution restrictions.
GSFC NASA Advisories capture valuable Lessons Learned
- Obtain free calibration reports to maintain equipment calibration
- Engineering and Reliability-Maintainability reports are available
- Utilize Urgent Data Requests to locate surplus parts and materials
- Urgent Data Requests also can be used to request failure experience data
- Free reports are also available on Lessons Learned, DMSMS, and Product Change and Product Information Notices



The Alert Process is Two-Way



- Almost Every Project in NASA Will Benefit from the Information Provided by GIDEP Documents and NASA Advisories
- We Have A Legal and Ethical Requirement to Contribute Our Lessons Learned
- **So Please Do Your Part and Report Candidate Incidents or Experiences**
- **We Will Make it Easy**



Contact Us

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