



Strength through Industry & Technology



Joint Marking Qualification Working Group (JMQWG)

Mitch Kaarlela

Lockheed Martin Aeronautics Co.





JMQWG Mission Statement

Perform a common set of IUID direct 2D mark qualification, and output of subsequent report data for the following 3 criteria, that most of the DoD supplier base can use with little or no further effort required:

- (1) **IUID Marking Methods** (dot peen, laser/chem etch, direct ink, label, etc)
- (2) **Material Types & Finishes** (80% common to most of Industry)
- (3) **Environmental Criteria** (80% common to most of Industry or use worst case)

Goal is to capitalize on a “consortium approach” and use Qual data sharing to the maximum extent possible. This is not considered a competitive advantage item, since all DoD suppliers must comply with the IUID initiative.

JMQWG Communications



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PRESS RELEASE

For Immediate Release
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GEIA-SPONSORED WORKING GROUP MAKING NOTEWORTHY PROGRESS

Arlington, VA—The Joint Marking Qualification Working Group (JMQWG), established in July of 2005 and sponsored by the Government Electronics & Information Technology Association (GEIA), announced that it is making noteworthy progress in achieving its goals. The Group's objective is to provide valuable guidance on appropriate 2D marking methods for a 90% common solution set of standard material types and environments, to meet the Department of Defense's Unique Identification (UID) initiative. The backbone of the guidance is a comprehensive Marking Matrix backed-up by real world qualification test data for various marking scenarios. Proving the "jointness" of this activity, the GEIA's JMQWG Matrix is being prepared and populated by the University of Alabama – Huntsville, under funding from the DoD Office of Material Readiness & Sustainment Policies. This data enables companies to streamline and reduce material & process engineering qualification activities and allow design engineering to quickly focus on an optimum marking solution. Decision trees and other helpful guidance tools are also provided to aid both first time and experienced personnel sort through the realm of marking options and parameters.

The Working Group consists of Industry, Academia and Government personnel who have made "significant progress in creating a collaborative environment for sharing this specialized technical data that can help a large segment of companies doing business with the DoD," said Mitch Kaariela, one of the industry leaders of the Working Group. Approximately 20 high-level test summaries have been posted to-date, backed-up by over 90 detailed test reports. Additional 2D mark qualification test data is scheduled to be completed in the coming months and will be posted on the collaboration website being hosted by the Defense Acquisition University (DAU) and their Acquisition Community Connection.

To view the Working Group's technical data and the results achieved to-date, please logon to the DAU's ACC webpage at: https://acc.dau.mil/simplify/ev.php?ID=84767_201&ID2=DO_TOPIC

To become involved in the Working Group, or to share existing UID marking qualification data, or to simply ask a working group-related question, please contact one of the following:

Mitch Kaariela (Lockheed Martin) 817-935-3480
Chris Sautter (Univ Ala – Huntsville) 256-824-8147
Rob Leibrandt (DoD UID Office) 703-966-1099

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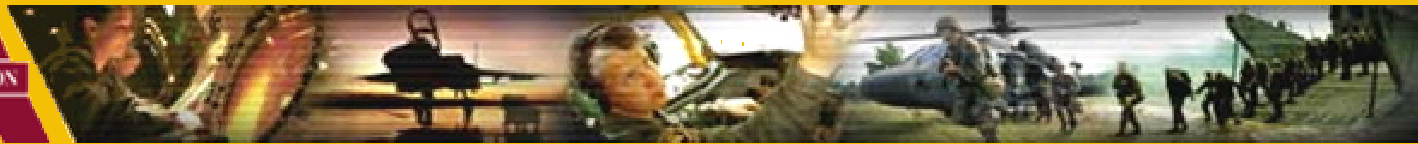
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About the Government Electronics and Information Technology Association (GEIA)
GEIA is a trade association representing the "high-tech" industry doing business with government. Our member companies are active in serving the electronics- and information technology-related needs of government customers. We connect industry to government through a unique forecasting process, conducting hundreds of customer interviews in which our companies directly participate. We analyze and issue reports on the federal market for IT solutions, technologies, and advanced electronics products and services of all kinds, producing: An annual 10-Year Defense Forecast; an annual 5-year Federal IT Forecast; and special market studies of the government market such as Services & Support, Homeland Security, etc. Details on GEIA may be found at <http://www.geia.org/>.

GEIA Sponsorship Achieved, Communications Successful

- ✓ Updated Press Release of Progress
- ✓ DAU Website - Test Data Vaulted
- ✓ Many Contributor Companies

- ✦ Honeywell
- ✦ Raytheon
- ✦ Lockheed Martin
- ✦ Boeing
- ✦ Rolls Royce
- ✦ Bell Helicopter
- ✦ Univ of Alabama-Huntsville
- ✦ Pratt & Whitney
- ✦ Northrop Grumman
- ✦ Hamilton Sundstrand



JMQWG MASTER ACTION PLAN SCHEDULE

Project/Event Name: JMQWG

Organizer's Name: Mitch Kaarlela

This Master Action Plan now takes into account that we have proven the feasibility of posting the GEIA Matrix and Test Reports on the DAU website. Our next big hurdle is concluding our testing and writing the summaries & reports. Our objective is to conclude the JMQWG activities in the 2Q of CY 2006. Additional teleconferences can be inserted, if needed.

PROJECT ACTION	STARTING	ENDING
Telecon 3.2	01/11/2006	01/11/2006
Companies Submit Test Parts & Coupons for Testing UA-H will Perform	01/16/2006	01/31/2006
Companies and UA-H Perform IUID Marking Method Testing	02/01/2006	02/28/2006
UID Forum , Seattle, WA	02/21/2006	02/22/2006
Telecon 3.3	02/08/2006	02/08/2006
Industry Translates Testing Performed into Test Data Summary Sheets	03/01/2006	03/31/2006
Telecon 3.4	03/08/2006	03/08/2006
Test Data Summary Sheets loaded into MS Access Database by UA-H	04/03/2006	04/14/2006
UID Forum , Providence, RI	04/19/2006	04/20/2006
Hotlinks to Database Posted on DAU ACC website	04/24/2006	04/26/2006
Telecon 3.5	04/26/2006	04/26/2006
JMQWG Main Activity Completed	04/28/2006	04/28/2006
Post-JMQWG Review & Wrap-Up of all Activities and Web-Posted Info	05/15/2006	05/19/2006
UID Forum , Dallas, TX	09/12/2006	09/13/2006

2006

January

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

February

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12	13	14	15	16	17	18
19	20	21	22	23	24	25
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March

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31							



DAU Website → 1,541 Total Hits as of 17 Apr 2006

ACC: Acquisition Community Connection Page 1 of 2

The screenshot shows the DAU website interface. At the top, there's a search bar and navigation links. The main content area displays search results for 'JMQWG Marking Qualification Data'. A blue circle highlights the 'public Topic' link, with a blue arrow pointing to it. Below the search results, there's a detailed description of the JMQWG project and instructions for users. The 'Knowledge' section lists various documents and reports with their view counts.

Acquisition Community Connection
 Home | DAU Resources | Contact Us | Site Map | Help

Special Interest Areas: unique identification (188) | unique identification (us) | engineering | jmqwg marking qualification data

JMQWG Marking Qualification Data
 Unique Identification (188) | What's New (6) | View All (32)

public Topic
 Viewed 1,541 times

YOU ARE NOT LOGGED IN

Username: _____
 Password: _____ Limited access is available for CoPs & SAs without login.

Log In

Participate

Options for this Topic: e-mail this Page

People

- Mr. Don Fuller (Viewed 428 times)
Continuity Facilitator
- Mr. Jill Garcia (Viewed 518 times)
Editor
- Mrs. Deborah Aceto-Nitso (Viewed 515 times)
Continuity Facilitator
- Mr. Nita K. Karstula (Viewed 7 times)
Editor

Most Visited (Last 13 Months)

- GDIA I&D Initiative (JMQWG Announcement) (Viewed 326 times)
- New I&D Marking Technology Ideas (Viewed 400 times)
- Step C - GDIA Marking Qual Matrix (Updated 21 Jan 2006) (Viewed 231 times)
- Step A - Generic Marking Guide (General) Version 0.2 - DRAFT (Viewed 161 times)
- Step B - I&D Decision Tree Flowchart (Updated 28 Dec 2005) (Viewed 155 times)

Knowledge

reference

- Example 1 - Test Data Summary Sheet (Viewed 10 times)
- Example 2 - Test Data Summary Sheet (Viewed 50 times)
- Example 3 - Qual Test Report (Viewed 12 times)
- Example 4 - Qual Test Data Sheet (Viewed 57 times)
- GDIA I&D Initiative (JMQWG Announcement) (Viewed 402 times)
- JMQWG Attendance Lists (Viewed 54 times)
- JMQWG Mentor Action Plan Schedule for CY 2006 (Viewed 12 times)
- JMQWG Meeting Notes & Charts (Viewed 33 times)
- JMQWG Progress Announcement (21 Mar 2006) (Viewed 15 times)

case studies

- Test Report - AIT and Tracking Technologies (Aug 2006) (Viewed 23 times)
- Test Report - Aircraft Flight Critical Part Verification System (Jan 1993) (Viewed 47 times)
- Test Report - AIT Marking Data on Multiple Materials (Aug 1992) (Viewed 47 times)
- Test Report - DPM Microscopy for Aging Landing Gear Life Extension Program (Jan 2004) (Viewed 39 times)
- Test Report - DPM on Aging Landing Gear Life Extension Program (Jan 2004) (Viewed 24 times)
- Test Report - DPM Reader 2 on Aging Landing Gear Life Extension Program (Apr 2006) (Viewed 23 times)
- Test Report - DPM Reader on Aging Landing Gear Life Extension Program (Apr 2006) (Viewed 32 times)
- Test Report - DPM Survivability for Normal Landing Gear Part Overhaul Conditions (Jan 2004) (Viewed 33 times)
- Test Report - High Cycle Fatigue Test on Selected Materials (Dec 1993) (Viewed 17 times)
- Test Report - Imp DPM Microscopy (Mar 2004) (Viewed 25 times)
- Test Report - Imp DPM Microscopy for Aging Landing Gear Life Extension Program (Mar 2006) (Viewed 22 times)
- Test Report - Imp DPM Microscopy for Normal Landing Gear Part Overhaul Conditions (Mar 2006) (Viewed 21 times)
- Test Report - Imp DPM Survivability on Aging Landing Gear Life Extension Program (Mar 2004) (Viewed 21 times)
- Test Report - Laser Marked T1-DAI-4V (Sep 1992) (Viewed 26 times)
- Test Report - Laser Marked Turbine Blade (Sep 1992) (Viewed 24 times)

Over 1,000
 Just Since
 mid-Jan 2006

JMQWG Status Summary

- ✓ **Industry & Gov't Participation in JMQWG is Good**
 - ✦ **Some Work Products Available Now! More Coming Over the Next 3-6 Months**
- ✓ **DoD Contracted With UA-H for 12 Month Support**
 - ✦ **Existing Data is Being Analyzed, Organized & Linked**
 - ✦ **Will be Incrementally Posted to Web w/Parallel Peer Review**
- ✓ **"Guidance Only" Deliverables (*a "path" to testing....*)**
- ✓ **Realizing DoD & Industry Association Support**
- ✓ **DAU Website is Working Well**