

**Parts Standardization and Management Committee (PSMC)  
Spring Session – April 24-27 2001  
Springfield, Virginia**

**Tuesday, April 24, 2001**

1. Sam Merritt, the PSMC Government Co-Chair, called the General Session meeting to order. He then gave a brief overview of the agenda for this session.
2. Introduction and Administrative Remarks: Sam Merritt asked each one in attendance to introduce themselves to the group at large.
3. Introduction of new committee chairs:  
  
Dan McLeod, Military Co-Chair; Jamie Gluza, Marketing Subcommittee Chair; Joseph Hartline, DMS Subcommittee Chair; Lee Gray, Charter Committee Chair (absent), Steve Parker, Industry Co-Chair (absent) and John Becker, Documentation Subcommittee Chair.
4. Reports from the Executive Steering Committee Meeting: An overview of the PSMC Executive Steering Committee held Monday afternoon (April 23,2001) was given. Minutes can be obtained through the PSMC website [www.dsccl.dla.mil/psmc](http://www.dsccl.dla.mil/psmc) or contact Sam Merritt for a copy.
  - a. Jamie Gluza gave a review of some of the marketing materials purchased which will be used to increase PSMC awareness among government and industry organizations.
  - b. Sam Merritt briefly discussed the new PSMC website and the improvements made, such as addition of subcommittee information to the website which include agenda and subcommittee items for review.
  - c. Sam Merritt announced that the next fall committee meeting would be October 29<sup>th</sup> through November 1, 2001 in San Diego, California.
5. Review/comments on last meeting minutes:  
  
Sam Merritt reviewed the action items from the last steering committee meeting.
6. Sam Merritt asked each subcommittee chair to briefly review their objectives and agenda for the subcommittee breakout sessions.
  - a. **PEMs/COTS (Plastic Encapsulated Microcircuits/ Commercial Off The Shelf) Subcommittee – Steve Parker** – In the absence of Steve Parker, Sam Merritt spoke briefly on the PEMs/COTS Subcommittee by referencing some of the general discussion issues from the last meeting. He also mentioned that a new chairman is needed for the PEMs/COTS subcommittee. Issues discussed at the previous meeting were the following:
    - Explore establishing a data exchange system for PEM/COTS qualifications and usage.
    - Include “lessons learned” on the use of PEMs on the PSMC website for collaborative reference by industry and government organizations.

- Establish working relationships with G-12 Committee (Electronic Industrial Association for Microcircuits). EIA
  - Research the possibility of publishing information on selecting, testing, qualification, and use of PEMS/COTS to PSMC website.
- b. **MPCASS (Modernized Parts Control Automated Support System) Subcommittee - Carl Muncy** - briefly discussed the Common Parts List. One of the objectives of the committee is promoting part process commonality and that could be achieved by using this Common Parts Listing. Also discussed was the need for industry to submit their corporate parts baselines, which would be used to increase and update the common parts database.
- They will also discuss the reference guide on how to gain access and log onto the Automated Support System that's been around since 1990. They would like to review a draft of the reference guide that the committee has been working on to get it ready for publishing. Carl invited any members that were interested to join in the committee meeting. Any members with question can e-mail him or view the information on the PSMC website.
- c. **Marketing subcommittee – Jamie Gluza** - solicited participation to rejuvenate the marketing subcommittee tasks. They will review and update the current PSMC Parts Management presentation and discuss areas/ways for marketing. They recently updated and created a mass mailing list in order to increase advance notification about meetings and to solicit more industry and government participation. She also mentioned some changes to the Web site and directed attendees to the site. Jamie also mentioned that a summary of our last meeting was published in the Defense Standardization Program journal. She asked the attendees to please fill out surveys and return them at the end of the meeting.
- d. **DMSMS (Diminishing Manufacturing Sources and Material Shortages) subcommittee – Joseph Hartline** - will have a discussion on the committee's philosophy and objectives. Form, Fit and Function, Interchangeable Item – mechanism to incorporate existing parts and utilizing parts available through a common parts stream. They will also review successes in the industry with this concept as well as target the problem areas such as the electronic parts industry.
- e. **Education/Certification subcommittee – Cindy Morrison** – They are continuing efforts to publish a training guide for education as well as reviewing the SD-19 (previously draft SD-7) documentation. They will revisit the direction of the training and if there is a need for certification. They will also look at adding Parts Management documents and "Parts Management Solutions" under their subcommittee website. She then invited interested attendees to join her committee.
- f. **PM Documentation subcommittee – John Becker**- explained that the documentation committee will work with the education committee on what was originally called an education document, but through the generations has turned into the "Life Cycle Cost Savings To Parts Management" and is being published by the OSD/DSPO as SD-19. This is a new PSMC subcommittee.

Other actions that will be covered is the business case for parts management and identifying cost savings that you would see through using a part management program or process for industry, or the Military. The SD-19 and IEC-AWG Electronic Component Management Plan document will be reviewed for incorporation into the MIL-HDBK-512 as references.

7. Open discussion and new business:

The question was asked if the MPCAGs still maintain and update the Government Furnished Baseline (GFB) Parts Lists? Sam Merritt said the MPCAGs still maintain the GFBs , but questions have arisen about who uses the parts lists.. Sam Merritt stated that the PSMC committee previously expressed an interest in the MPCAGs maintaining the GFBs. . This is something that the MPCAGs need to revisit.

John Becker commented that what was needed in addition to the GFB is a cross reference between all the canceled Military part numbers and industry part numbers. No resolution was offered.

Rick Chambers mentioned that the Navy has a problem with standardization actions that are being done. He said the the actions sometimes end up with items that are not interchangeable. Sam Merritt said this was probably an Item Reduction issue that he could probably track down or refer to the Joint DoD Interchangeability and Substitutability (I&S) and Item Reduction (IR) Team. Sam went through the IR coordination process and said that no action is completed without service approval on the recommendation. There could be a number of reasons why this is a problem. Rick was asked to provide Sam Merritt with specific examples so the problem could be researched. Glenna MacArthur mentioned that The I & S team has a website that list the points of contacts for I & S. The website is <http://www.dlis.dla.mil/is/>.

The DMS committee will develop the problem statement for follow-up action.

8. Presentations: All presentations will be included on the PSMC website at [www.dsccl.dla.mil/psmc](http://www.dsccl.dla.mil/psmc) for future reference and viewing.
  - a. **"Boeing A&M (Aircraft & Missile) St. Louis Parts Management Program"**  
Mr. Ron Froman, Boeing
  - b. **"Configuration Management"**  
Mr. Mervyn Leavitt, OSUD/(AT&L)
  - c. **"Obsolescence Management"**  
Mr. Neal Gorden, Raytheon
9. Speakers were presented with gifts of appreciation for their presentations.
10. The meeting was adjourned after the presentations were completed.

### **Wednesday and Thursday, April 25-26 2001**

11. The general session was called to order and Sam Merritt introduced the speakers for presentations. It was again mentioned that all presentations will be on the PSMC website at [www.dsccl.dla.mil/psmc](http://www.dsccl.dla.mil/psmc)
  - a. **"DOD DMS Initiatives"**  
Mr. Doug Casanova, Defense Microelectronics Activity DUSD(L&MR) /DMEA
  - b. **"Component Management Standards for Aerospace"**  
Mr. Lloyd Condra, Boeing Commercial Airplane Group
12. The speakers were presented with gifts of appreciation after their presentations.
13. Sam Merritt reminded the attendees to fill out and hand in the PSMC surveys. The survey is used to obtain feedback from the attendees and will be used to improve future meetings.

14. The subcommittee breakout rooms were assigned and the subcommittee chairmen were given instructions for the information needed for the closeout session. The subcommittees convened to their respective breakout sessions. Minutes of each of the subcommittee meetings will be submitted for inclusion into the overall session minutes.
15. **Subcommittee breakout session minutes:**

### **DMSMS (Diminishing Manufacturing Sources and Material Shortages) Subcommittee**

1. Establish a link Between the PSMC DMSMS subcommittee page and DMEA in Port Hueneme, CA and the DoD DMS Teaming Group.
2. Develop a matrix of available information:
  - DMSMS Management Tools
  - DMS Parts Databases
  - DMSMS Mgt Practice
  - Electronic
  - Hydro-Mechanical
  - Industry
  - Corporate
3. Establish pro/con criteria
4. Develop samples
5. Determine a synergistic center for DoD DMS
6. Initiate a business case for industry, type (elec/mech), or service advocacy
7. The subcommittee was requested to evaluate a requirement from the general meeting. The requirement is to determine if there is a cross-index of Military Specification (MILSPEC) part numbers to Non-Government Standard (NGS) part numbers. This is an impact of the Military Specifications and Standards Reform Program (MSSRP) which saw the wholesale transition and transfer of design responsibility from DoD to Industry. The discussion enveloped other problems noted with incorrect part numbering. Rick Chambers, NAVAIR, cited problems with the impact of the Item Reduction Program (IRP). This impact may be a result of the process noted in DoD 4120. 24-M Section 8, not being completed properly. Bill Finley, Raytheon, stated, they were not contacted for any of the part number interchangeability efforts conducted on their systems. Paul Carlton, Parker Aerospace, noted similar problems with the Interchangeability and Substitutability (I&S) process.

#### Recommendation:

1. Query the Defense Standardization Program (DSP) for a central point where a cross-index may already exist. Would it be a part of ASSIST? Would this be a function of DLSC Battlecreek?
2. Develop a process flowchart from 4120 Section 8 and identify POCs for all decision points and determine their coordination efforts. Suggest a modification to Section 8 to mandate contact with manufacturers for concurrence.
3. Develop a process flowchart for the I&S process and determine coordination efforts conducted.
4. Determine extent of problem not reported from field or depot operations. It was reported that technicians discard incorrect parts without recording problem.
5. Develop a business case for a part substitution website

8. The subcommittee discussed the requirements for a hardware database modeled on the DoD DMSMS Teaming Group. The discussion involved determining the least criteria required to match parts. No definite requirements were established, however, Joe Hartline (ARINC), Rick Chambers (NAVAIR), and Mike Amspacker (MTI) will collaborate on initial criteria. It was agreed that the database should select the smallest sample possible for a proof of concept.

9. The third discussion item concerned the requirement to establish a connection from the DLA SAMMS database to GIDEP to disseminate notification of unfulfilled solicitations ("obsolete" or "unsupported" parts). The time it takes for a failed solicitation to migrate through the acquisition process adds a time component to the lead-time for parts. It was thought that establishing an automated connection between SSAMMS and GIDEP would shorten this Administrative Lead Time (ALT) and reduce the quantity of backorders in DLA. The question of the definition of backorder identified the need for a further discrete redefinition to parse the number of backorders into a more realistic number.

## **Marketing Subcommittee Minutes**

### **Attendees**

Jamie Gluza (Chairperson)  
Mike King  
Kelvin DeWinter  
John Becker  
Cindy Morrison  
Sam Merritt  
Dan McLeod  
Joe Hartline  
Paul Carlton  
Neal Gorden  
Ron Froman  
Keith Meyer

The meeting began with an open discussion concerning ways to market the PSMC and Parts Management:

1. Several members either have already or are planning to link the PSMC website to their own Company websites: (Mike King, NGC, F/A-18 Program; John Becker, Honeywell intranet; Keith Meyer, Crane, link under DMS (<http://dmc-dms.crane.navy.mil>))
2. Putting ads or articles in Industry and Government publications/trade magazines were mentioned. Paul Carlton has an action to provide the committee with several Army publications and an Army Website (Army Logisitician Magazine; Assoc of United States Army Publications; DOD 101 website)
3. Attendance at expos (i.e. DMS). (Need to revise presentation for use.)
4. Also discussed funding for the committee. Sam mentioned that there are other ways to support the committee than \$\$\$\$. Joe Hartline saves us hundreds of dollars by bringing his video projector for our presentations. Members can host meetings (providing meeting spaces).

The committee spent the remainder of the time reviewing and updating the PSMC overview presentation. Dan has the action to revise the history & background slides as well as the benefits of parts mgt slide. Jamie will consolidate all the changes, add some graphics, etc. and email them to the subcommittee for review.

## **Education/Certification subcommittee Meeting:**

### **Attendees:**

Cindy Morrison (Co-Chairperson)  
John Becker (Co-Chairperson)  
Kelvin DeWinter  
Mike King  
Dan McLeod  
Jamie Gluza  
Sam Merritt  
Dell Hanks  
Ron Froman

The committee discussed the need for parts management training. It was determined that three levels of training are needed:

1. Top Management (Power point presentation)
  - a) What is Parts Management?
  - b) Benefits
  - c) Impact  
(Business Case)
2. Middle Management – Design Engineering (Power point presentation)
  - a) All of above
  - b) Stress - Subcontractor Flow Down
  - c) Stress - Adjust design to accommodate standard parts
3. Standards People (Text document with check lists)
  - a) Establishing an in-house Parts Management Board (King)
  - b) Developing a preferred parts list or corporate parts baseline (Hanks)
  - c) Parts selection and authorization process (Becker)
  - d) Part and supplier qualification process (Becker)
  - e) Equipment and equipment supplier management (King)
  - f) Obsolescence management and DMS (Froman)
  - g) Alternate or replacement part practice (DeWinter)
  - h) Parts Management through Integrated Product Teams (King)
  - i) Standardization effectiveness (metrics) (Hanks)
  - j) Parts Management Program Plan (Morrison)

Committee members will create a checklist for each of the above elements to highlight recommended guidelines/information.

Assignments are due to Cindy 15 June 01 by e-mail (cynthia\_morrison@uldp.com). She'll compile and coordinate.

The group also discussed adding training to include the necessity of Vendor Item Drawings and lessons learned. Pro's and con's will be identified.

### **Pro's:**

- Logistic support – captures the design intent
- 2 or more supplier's – provides competitive bidding
- Supplier changes part number – change on VID instead of many BOM's

## **Con's**

- Manpower to create VID
- May slow down BOM release

Because the Education Document (SD-19) is near completion, the group discussed new Education Subcommittee goals. Suggestions were:

1. Complete new training document
2. Develop requirements for an interactive web tool to select a Parts Management Plan through a series of questions.

## **Documentation Subcommittee**

### **Attendees**

John Becker (Chairperson)  
Cindy Morrison (Co-chairperson)  
Mike King  
Kelvin DeWinter  
Sam Merritt  
Dan McLeod  
Joe Hartline  
Paul Carlton  
Neal Gorden  
Ron Froman  
Keith Meyer  
David McIlhane  
Jamie Gluza

Reviewed existing business cases. John Becker to meld together the 2 cases and will send out for final comment. John to check with Carla Jenkins for publication. Final document will be completed by July.

Reviewed copies of SD-19 final draft against the MIL-HDBK-512 for harmonization. John to set up telecon with members to reconcile differences.

## **MPCASS/Industry & Corporate Business Sub-Committee Minutes**

**ATTENDEES:** Carl Muncy (Chairperson)  
Dave Fitzgerald  
Tom Kenney  
Glenna MacArthur

- The sub-committee meeting convened Wednesday afternoon and the following topics were discussed:
- The initial draft of the MPCASS Ready Reference Guide was reviewed. Additional changes were identified and the group also decided to redesign the document to make it more user friendly. The final draft of the document will be available for review at the fall PSMC meeting in San Diego.
- The group entertained questions concerning part submittal options and the current MPCASS system.

- The topic of the FSC listing that is currently in the proposed SD-19 was discussed. The majority of the committee decided to keep the FSC listing in the SD-19.
- During the General Session a request was made to provide the data elements from the Common Parts File. Listed below are the data elements for the Common Parts File:

Part Number  
 CAGE  
 Eval  
 EvalDt  
 FSC  
 RepIPN  
 RCAGE  
 EIC

**PEM/COTS Subcommittee:**

**Attendees:** Bob Lewsen (Chairperson) (Chaired the subcommittee in the absence of Steve Parker)  
 Dan Quearry  
 William Finley  
 Bradford Canney  
 Lourdes Castro  
 Rosalyn Huizar  
 Jim Kicklighter  
 Mike Amspacker  
 Bob Knop  
 Dell Hanks  
 Bob Karpen  
 Bill Pumford  
 Rick Chambers  
 David Mcilhaney  
 Mike Sampson

**Issues discussed:**

A. PEMS moisture

1. A contractor is doing testing on a set of 50 parts. Reports that of the first 21 tested, 2 have failed due to moisture believed absorbed in one or both possible means-osmosis (through the coating) or through bad/poor seals.
2. Some dissimilar metal problems; i.e., Aluminum to Gold.
3. Appears the thinner the package the more susceptibility to moisture problems.

Summary:

- There may come a time when and if ceramic parts are still required, they will have to be manufactured by a subsidized manufacturer.
- May have to reexamine sampling plan; methodologies for sampling PEMS/COTS will be necessarily different.

- May have to change maintenance/change on cycles due to expected different life cycles.
- Recommend review PEM database being setup by Tactical Missile PEO at AMCOM, Huntsville, Alabama.

B. Recommend a DoD activity/agency such as Defense Microelectronics Activity (DMEA) have their charter expanded to include collecting and being a repository for PEMS data including testing, packaging, long term storage, etc.

Further recommend that this data be available initially distributed through the Government Industry Data Exchange Program (GIDEP) with long term repository linked through the DMEA website ([www.dmea.osd.mil](http://www.dmea.osd.mil)).

C. Various points of interest in use of COTS

- Impacts examined in the ms & assessment up front.
- Not recommended in long term unattended items such as Patriot certified round.
- Examine methodologies in present risk assessments (maintenance and change outs might be different for all ceramics vs. mix of PEMS and ceramics vs. all PEMS); costs analysis and testing requirements (environs).

D. With the impending prediction of as much as 80% of military electronics being COTS in the near future there must be an immediate assessment of the need to safeguard (perhaps subsidizing) a U.S. government entity for producing certain military peculiar electronics. Problems (not all inclusive) to be considered are rad hardened temperature extreme uses (carefully examined and controlled in usage), and certain non atmosphere uses (chemical biological, nuclear, and/or space), etc.

E. How are adjustments in selection and "goodness" determined in source selection in evaluating replies to a government Statement Of Objectives (S00) for replies with an all military vs. all PEMS/COTS vs. a mixture.

No recommendations, but consideration should be enumerated in the source selection in pre-award, Possible use of performance bonds, and post awards performance fees and incremental funding, etc.

F. The following sources of PEM information were provided for review/usage (not meant to be all inclusive, please feel free to add new sources and comment on these):

- Raytheon (Fran Edwards) at Parts Engineering 978-440-1582.
- NAVSEA, Crane (Dan Quearry) 812-854-2443,
- CALCE Center, University of Maryland (DR. Michael Pecht),
- Georgia Tech. And the Research Institute,
- Authors with papers previously presented:
  - a) Jack Tucker, 256-842-0493
  - b) Mike Sandor, 818-354-0681
  - c) Joe Chapman, 915-697-9970

- AMCOM
  - a) L. Ricamore, LMMFC, ATACMS missile
  - b) Jack Tucker
- [HTTP://nepp.nasa.gov](http://nepp.nasa.gov)

There is also a subscriber network with some PEMS/COTS standards found through <http://www.stackinternational.com>

G. There was some discussion concerning reliability issues and failure rates to use with PEMS. Before the MIL-HDBK-217 was deleted, PEMS failure rates were to be reduced to a tenth (0.1) of ceramics. RAC is now using a reliability model called PRISM ( ? sp ).

H. Recommended that opposing views be requested to present at the next PSMC meeting this fall. Requests should be with government and industry as well as each of the services. Discussion should be also on harsh vs. benign environs and how failure rates degrade.

16. The ad-hoc Charter Subcommittee did not meet. Sam Merritt asked that any comments concerning Charter subcommittee should be forwarded to Lee Gray, Charter subcommittee chair.

17. The general session reconvened for post-subcommittee breakout discussions and wrap up. Each subcommittee briefly presented a synopsis of their sessions. Details of subcommittee meetings are provided in session minutes.

18. Glenna asked if any of the attendees were interested in getting a copy of the I &S/IR meeting minutes. Some expressed interest. Anyone interested may obtain a copy by sending Glenna an email at [gmcArthur@dscp.dla.mil](mailto:gmcArthur@dscp.dla.mil). Glenna also agreed to contact a speaker from DLIS to do a presentation on who they are and what services they offer for the October 2001 PSMC general session.

19. Dan McLeod will check to see if we can send out the EIC 107 documents.

20. All attendees were thanked for their participation and attendance. Surveys were collected. Thanks were given to John Becker who sat in as the Industry Co-chair in Steve Parker's absence. A special thanks was given to Bob Lewsen who filled in as the PEM/COTS chairman. Jamie Gluza was thanked for the excellent job and her efforts in setting up the meeting. There being no further business the general session was adjourned. Next meeting will be October 29th through November 2nd 2001.