



Presented to:

RAM VIII Training Summit

*MIL-STD-11991A
Overview*



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Presented by:

**Electronic Parts/Processes Technology Team
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Development, and Engineering Center**

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- **General Standard for Parts, Materials, and Processes (PM&P)**
 - Reinstated 28 Aug 2015
 - Electronic and “Non-Electronic” PM&P
 - Addresses Commercial Off-The-Shelf assemblies
- **Incorporates General Requirements and Detailed Requirements**
 - General Requirements modeled after EIA-4899B and EIA-933B
 - Leveraged Missile Defense Agency PM&P Assurance Plan, and other industry and Defense standards
 - Structured so just General Requirements can be invoked and executed by detailed Plan
 - Detailed Requirements can be invoked at option of Procuring Activity, or as reference to develop detailed Plan
- **Data Item DI-STDZ-81993 for PM&P Plan and PM&P List**
- **Actively working Revision B requirements**
 - Emerging and evolving technology concerns
 - Revision A comments
 - Inadvertently left out MIL-STD-3018, so will be added

Provides Knowledge Base for PM&P Disciplines



MIL-STD-11991A Outline Summary



4. General Requirements

4.1 General

4.2 PM&P

4.3 PM&P Selection

4.4 Life Cycle Management

**4.5 Commercial Off-The-Shelf
Management**

4.6 Subcontractor Management

5. Detailed Requirements for PM&P

5.1 General

5.2 Parts Requirements

5.3 Materials Requirements

5.4 Processes Requirements

5.5 Prohibited PM&P

Appendix A, Derating

Appendix B, COTS Management

Appendix C, Prohibited PM&P

Appendix D, Radiation Hardness Assurance

Appendix E, Outgassing

Appendix F, Counterfeit Parts and Materials

Appendix G, Obsolescence

Appendix H, Incoming Inspection



- **Selection**
 - **PM&P must meet reliability requirements over the life cycle environmental and operating stress profile**
- **Life Cycle Management**
 - **Address obsolescence, counterfeit prevention, change control**
- **Subcontractor Management**
 - **Assure flow-down throughout the supply chain**
 - **Can leverage similar commercial aviation Parts requirements with mostly common supply chain**
- **Prohibited PM&P**
 - **Provides rationale for assessment in application and possible mitigations**
- **Derating**
 - **Leverages industry standards, such as GEIA-STD-0008 for commonality**
- **COTS: must meet system requirements proven with data**
- **Counterfeit Prevention: comply with industry best practices**



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