



SD-19 PARTS MANAGEMENT GUIDE UPDATE

PSMC Spring 2014 Meeting
LMI, McLean, VA

LMI
IDA



Chapter 1



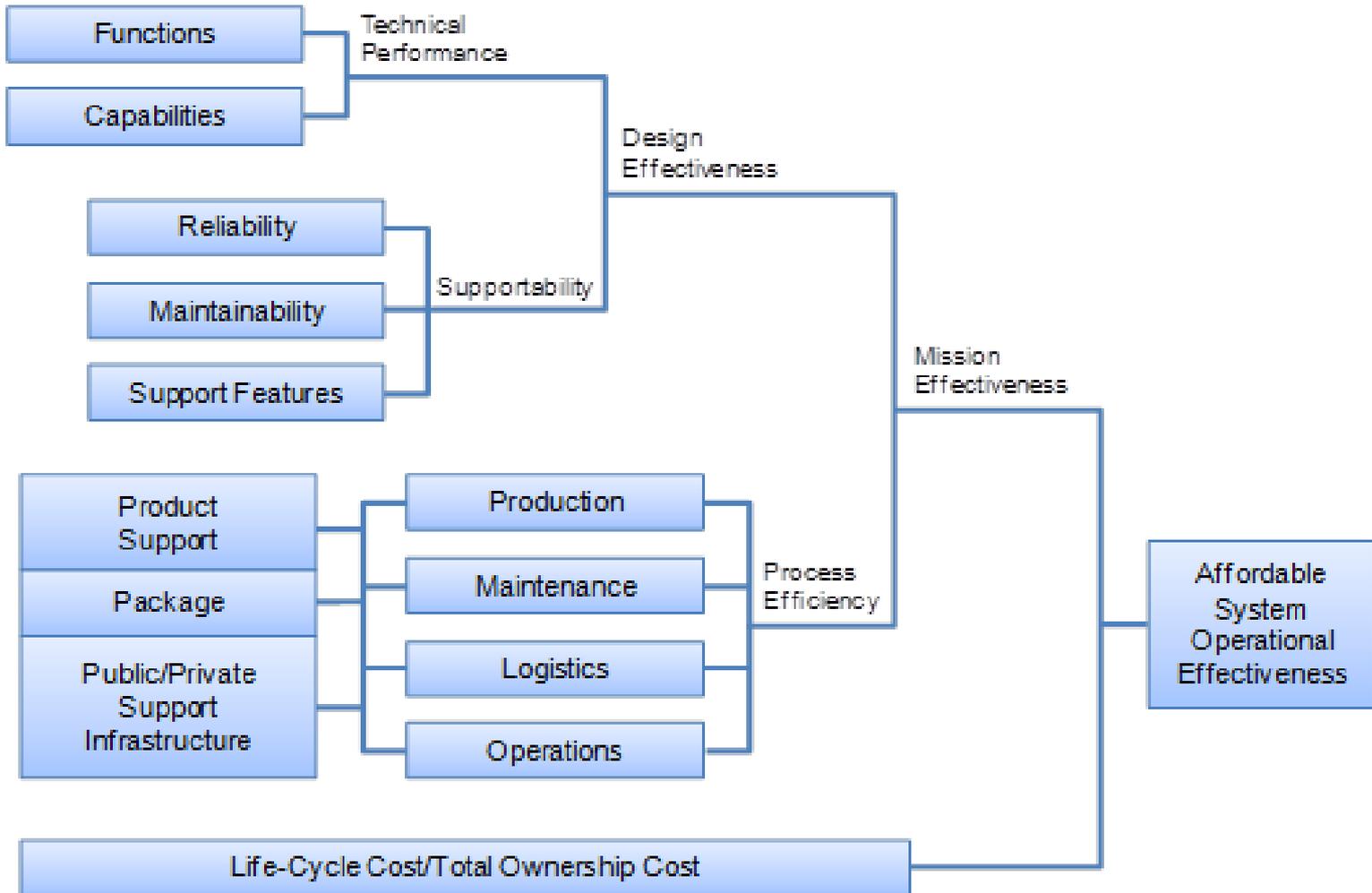
Reformatted SD-19 to describe parts management benefits, including the cost-benefit analysis, in the front section of the document.

Added sections concerning:

- Affordable Systems Operational Effectiveness
- Process Efficiency and Parts Management

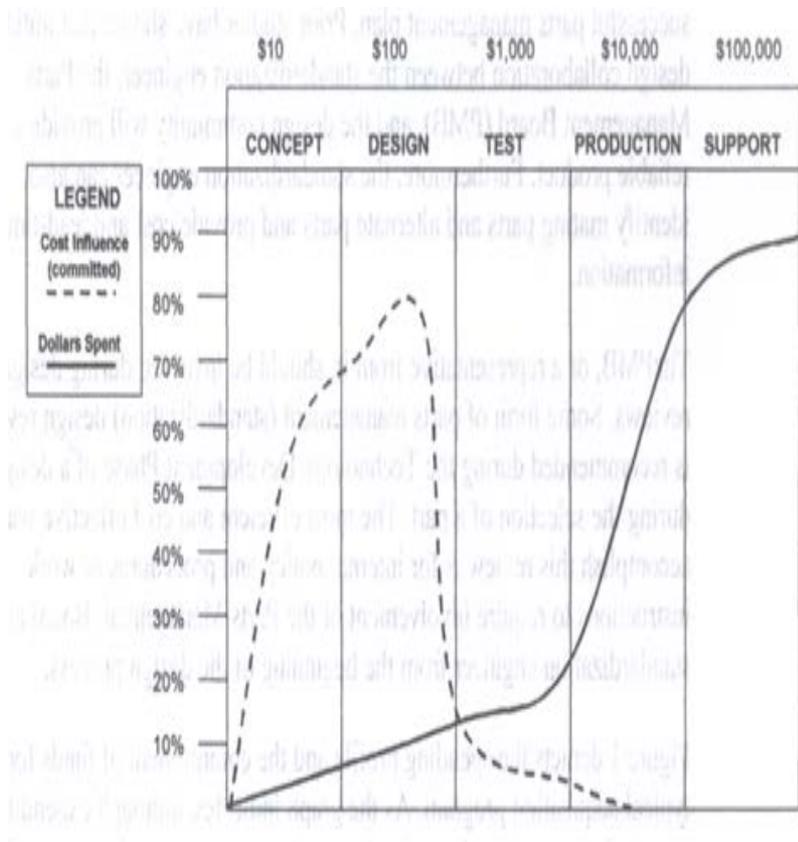


Affordable System Operational Effectiveness





Design Effectiveness and Parts Management



- Parts management contributes to design considerations
 - Reliability
 - Standardization
 - DMSMS
 - Part and supplier quality



Process Efficiency and Parts Management



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- Manufacturing readiness threads
 - Industrial base
 - Design
 - Cost and funding
 - Materials
 - Process capability and control
 - Quality management
 - Manufacturing management
 - Supply chain management
 - Reduced acquisition lead-time
 - Part and supplier quality
 - Enhanced logistics readiness and interoperability
 - Increased supportability and safety of systems and equipment
 - Product Support
 - DMSMS risk management
 - Lead-free electronics risk management



Chapter 2



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- Updated the “Defense Acquisition Management System” chart to reflect the latest DAG changes
 - Added responsibilities for the SE technical review and LA milestones concerning parts management checklist questions to be addressed throughout the acquisition life cycle. (New appendix contains parts management questions)



Chapter 3



Added two new parts management plan requirements for counterfeit parts and use of lead-free parts.

- Referenced use of SAE guidance AS5553 for counterfeit part detection, mitigation, and disposition
- Referenced use of guidance in TechAmerica GEIA-STD-0005-1 for process to manage the risk associated with using lead-free electronic parts



Chapter 4 & 5



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- Chapter 4 – Parts Management Boards and Integrated Product Teams (No changes)
 - Chapter 5 – Updated URLs in the “Tools Supporting Parts Management” section



Appendix B

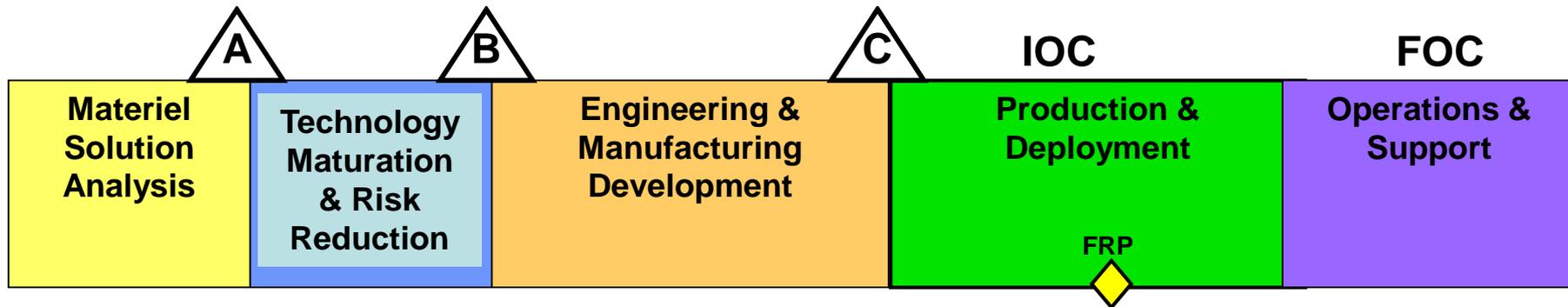


This new appendix contains a comprehensive list of examples of parts management questions to be addressed at different stages of the acquisition life cycle for SE technical review and LA milestones.

These questions are to be discussed prior to the review/milestone meetings to identify risk areas that need to be put on the agenda and addressed.



TECHNICAL REVIEWS & LOGISTICS ASSESSMENTS THROUGHOUT THE LIFE CYCLE



Technical Reviews



Logistical Assessments



ASR: Alternative Systems Review
SRR: System Requirements Review
SFR: System Functional Review

PDR: Preliminary Design Review
CDR: Critical Design Review
PRR: Production Readiness Review



PARTS MANAGEMENT STATUS AT SRR



-
- **MIL STD 3018 on contract**
 - **Requirement for BOM on contract**
 - **Substitute parts usage procedures established as configuration management requirement**
 - **Customer contractor teaming arrangements defined**
 - **Anti counterfeit requirements established**
 - **Lead free control requirements established**



PARTS MANAGEMENT STATUS AT SFR



-
- **Preliminary parts management plan developed**
 - **Corporate baseline parts selection list in place**
 - **Parts selection order of preference established**
 - **Obsolescence management risk assessment ongoing**
 - **Substitute parts usage procedures established**
 - **Customer contractor teaming ongoing**
 - **Preliminary anti counterfeit plan developed**
 - **Preliminary lead free control plan developed**



PARTS MANAGEMENT STATUS AT PDR



-
- **Parts management plan implemented**
 - **Corporate baseline parts selection list maintained**
 - **Parts selection process in place**
 - **Obsolescence management risk assessment ongoing**
 - **Parts management requirements being flowed down to subcontractors**
 - **Part and supplier quality established**
 - **Substitute parts usage procedures followed**
 - **Customer contractor teaming ongoing**
 - **Anti counterfeit plan implemented**
 - **Lead free control plan implemented**



PARTS MANAGEMENT STATUS AT CDR



-
- **Parts management plan approved**
 - **Corporate baseline parts selection list maintained**
 - **Parts selection process in place**
 - **Obsolescence management risk assessment ongoing**
 - **BOMs have been submitted**
 - **Parts management requirements being flowed down to subcontractors**
 - **Part and supplier quality established**
 - **Substitute parts usage procedures followed**
 - **Customer contractor teaming ongoing**
 - **Anti counterfeit plan being followed**
 - **Lead free control plan being followed**



PARTS MANAGEMENT STATUS AT PRR



-
- **Parts management plan approved**
 - **Corporate baseline parts selection list maintained**
 - **Parts selection process in place; all parts have been approved**
 - **Obsolescence management risk assessment ongoing**
 - **BOMs have been accepted**
 - **Parts management requirements being flowed down to subcontractors**
 - **Part and supplier quality established**
 - **Part documentation documents meet requirements**
 - **Substitute parts usage procedures followed**
 - **Customer contractor teaming ongoing**
 - **Anti counterfeit plan being followed**
 - **Lead free control plan being followed**



Appendix D



General guidelines for parts qualification approaches to verify that a part meets all requirements for a particular intended application.

- Highlights areas that must be considered when developing a part qualification approach