

Space and Missile Systems Center Compliance Specifications and Standards

15 August 2008

Brian E. Shaw
Systems Engineering and Software Directorate
Engineering and Integration Division

and

Joseph Meltzer
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Space Systems Group

Prepared for:

Space and Missile Systems Center
Air Force Space Command
483 N. Aviation Blvd.
El Segundo, CA 90245-2808

Contract No. FA8802-04-C-0001

Authorized by: Space Systems Group

Approved for public release; distribution unlimited.

AEROSPACE REPORT NO.
TOR-2008(8583)-8215

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Approved by:

A handwritten signature in black ink, reading "Frank Knight", written over a horizontal line.

Frank L. Knight, Systems Director
Systems Engineering and Software Directorate
Engineering and Integration Division
Space Systems Group

Acknowledgment

The authors would like to sincerely thank the Aerospace subject matter experts who are responsible for the development of the specifications and standards cited in this document. Without their diligent efforts and extensive technical background, much of this effort could not be accomplished.

Special thanks are expressed to Jason Lavine (Aerospace Summer Hire – University of Texas, Austin), Wynn Rowell (SAIC), and Ramona Abeyta (SMC/EAB) for their efforts to collect and catalogue the data items associated with the standards in the SMC Compliance Standards list.

The Space and Missile Systems Center (SMC) Specs and Standards Working Group was established in 2003 under the leadership of Mr. Dave Davis. The strong direction and vision provided by Mr. Davis and that original effort has allowed the SMC Specs and Standards activity to effectively evolve in a manner that is certain to be reducing space system acquisition risk and increasing effective mission operations.

It is also important to acknowledge the recently-established standards coordination efforts of the National Security Space (NSS) specifications and standards community and the Aerospace Engineering and Technology Group (ETG) Specifications and Standards Advisory Panel and Community of Practice, each of which contributes to the effective selection and implementation of the specifications and standards required to provide mission assurance and acquisition success.

Finally, thanks are expressed to the space system development industry who has participated in this process as part of their corporate commitments to the Space Industrial Base Council, AIAA/GEIA/ISO/INCOSE committees, Space Quality Improvement Council, Mission Assurance Improvement Workshop, and AFSO21 efforts.

Foreword

The Aerospace Corporation, in support of the SMC Chief Engineer (SMC/EA), has prepared this Technical Operating Report (TOR) to document the most recent update of the SMC compliance standards for SMC acquisitions.

The SMC Systems Engineering Revitalization (SER) effort and the associated Specifications and Standards Revitalization have reintroduced specifications and standards into the acquisition process at SMC. These efforts have also been leading the development of updated specifications and standards to address known acquisition issues experienced by SMC programs. Coordination with other agencies involved in space systems is being done to disseminate and coordinate the updating of space acquisition-related documents.

The SMC EAE Specifications and Standards Working Group include:

- Mr. Dave Davis, SMC/EA, Working Group Chair
- Mr. Brian Shaw, The Aerospace Corporation
- Dr. Joseph Meltzer, The Aerospace Corporation
- Mr. Frank Knight, The Aerospace Corporation

This TOR contains the August 2008 SMC/EA-approved revision to the SMC compliance standards list. An accompanying Aerospace report, TOR-2008(8583)-8216 (published as a Compact Disc), contains all of the compliance documents that are not restricted by copyright or license restrictions.

This document and its accompanying CD supersede all previous Aerospace reports on this subject, including:

- TOR-2003(8583)-2 and its four (4) revisions
- TOR-2006(8583)-5661 and an accompanying CD, TOR-2006(8583)-5662.

TOR-2007(8583)-6475 and an accompanying CD, TOR-2007(8583)-6491

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1 Systems Engineering Revitalization (SER)

As part of Systems Engineering Revitalization, Space and Missile Systems Center (SMC) reintroduced the use of specifications and standards in 2003 to define program technical baselines.

1.1 *Specifications and Standards Policy*

The SMC Commander, Lt Gen Michael Hamel, issued a policy letter on 11 July 2006 (Appendix A), The "Initial Policy on Specifications and Standards Usage at SMC." This policy letter supersedes the 2003 policy letter signed by Lt Gen Brian Arnold.

The policy letter on specifications and standards established the following requirements:

- Inclusion of specifications and standards on all SMC/PEO solicitations for prime contracts with promulgation throughout the supplier chain
- Responsibility of the SMC Chief Engineer for the master list of compliance documents
- Responsibility of the SPO to enforce the specifications and standards baseline that is placed on contract
- Institutionalization of this practice/intent of the policy via a SMC Instruction to be developed by the SMC Chief Engineer

1.2 *SMC Specifications and Standards Working Group*

The working group operates on a continuing basis to accomplish the following activities with regard to the SMC master list of specifications and standards:

- Needs analysis to determine additional areas requiring specifications and standards
- Development/update of the SMC compliance standards list
- Development of Aerospace/industry technical documents addressing technical need areas
- Technical evaluation of newly developed/revised technical documents
- Maintenance of the SMC and Aerospace specifications and standards document repositories
- Coordinating with SPOs for tailoring of
 - the SMC compliance standards list and
 - individual standards for use on specific procurements.
- Interfacing with other government and industry standards development organizations and normalization activities, including AIAA and NSSO

The EAE Specifications Working Group includes members of SMC/EAE and The Aerospace Corporation's Engineering and Integration Division.

The working group also includes a large number of subject matter experts (SMEs) for technical evaluation/development of the standards and Aerospace Technical Operating Reports (TORs). These SMEs include government personnel, Aerospace Engineering and Integration Division personnel, Aerospace Engineering and Technical Group (ETG) personnel, and SETA support. An SME point of contact has been identified for each document in the SMC compliance standards list.

SMC/EAE chairs the working group that is tasked with the development of the SMC compliance standards for use on SMC programs. The SMC Chief Engineer, SMC/EA, is the approval authority for the SMC Compliance List.

2 SMC Compliance Specifications and Standards

The SMC Specifications and Standards technical baseline comprises the set of technical development criteria required to reduce acquisition/operational risk and to provide for the successful accomplishment of space system development. As much as practical, the standards in the SMC baseline define the necessary technical activities, products, and attributes rather than specific methods or process models.

The SMC Specifications and Standards technical baseline is documented in the SMC compliance standards list and is authorized and required for use by all SPOs in new contracts.

The following types of documents are eligible for inclusion:

- Military and Government standards (possibly including some that were cancelled under acquisition reform)
- National/International and Industry standards
- SMC Standards
- The Aerospace Corporation reports:
Technical Reports (TRs) or Technical Operating Reports (TORs)

The specification and standards changes resulting in the current SMC Compliance Standards List are documented in Appendix B. For each change, the rationale/justification for the change is summarized.

The current SMC compliance standards list (called "Specifications and Standards Master List" in the Specs and standards policy) is presented in Appendix C.

A table of how the SMC compliance Standards can be applied to specific categories of SMC contracts is presented in Appendix D. This table should be used by SMC Wings and acquisition support staff for the initial tailoring of the SMC Compliance Standards list, specifically the selection of applicable standards. Additional tailoring of the content of selected standards should be conducted by the Wing, in association with acquisition support staff, during RFP preparation based on specific system/contract requirements.

A listing of the Data Item Descriptions (DIDs) cited in the SMC Compliance Standards is presented in Appendix E. This list is believed to be complete but all users must independently verify prior to use and tailor as appropriate to the specific system and acquisition strategy being employed on each contract.

The list of currently funded and active specifications and standards activities that might result in future updates to the SMC Compliance Standards List is presented in Appendix F.

All users are invited to submit comments that recommend substantive improvements in the SMC Compliance Standards list, or any individual standard. The comment form and submittal instructions are provided in Appendix G.

3 Obtaining Copies of Specifications and Standards

3.1 *Military and Government Standards*

Military standards and Data Item Descriptions can be downloaded free of charge from the official source of DoD specifications and standards, ASSIST (<http://assist.daps.dla.mil>). United States government documents can be procured from the U.S. Government Printing Office at <http://bookstore.gpo.gov/> and <http://www.gpoaccess.gov/databases.html>.

3.2 *National/International and Industry Standards*

Industry standards can be purchased directly from the specific industry association. In general, these documents marked/controlled in accordance with US Copyright Law and are not reproducible except by the copyright owner.

3.3 *Aerospace Corporation Reports*

Aerospace reports can be requested from the Aerospace corporate library. Some reports may have distribution restrictions. A fee of \$15 per report/CD may be charged. Requests should be sent on official corporate letterhead to:

The Aerospace Corporation Library [M1-199]
P.O. Box 92957,
Los Angeles, CA 90009-2957

Request should include the TR/TOR numbers, titles, and authors.
For additional information, phone 1-310-336-5110.

3.4 SMC and Aerospace Web Access

SMC maintains a library of the SMC compliance standards on the Livelink intranet site. Aerospace also maintains a library of the SMC compliance standards on The Aerospace Corporation Mission Assurance Portal (MAP.aero.org), including access to many national/international/industry standards that are licensed for use by The Aerospace Corporation personnel.

3.4 Compact Disc (CD)

The documents associated with the SMC Compliance Specifications and Standards program is available upon request from SMC/EAE or The Aerospace Corporation Library. Ask for TOR-2008(8583)-8216, *SMC Compliance Specifications and Standards Documents*.

The CD contains all of the documents described in this report with the exception of industry association standards (e.g. AIAA, GEIA, ISO) that cannot be freely distributed because of licensing issues. A list of sources for licensed standards is included to facilitate procurement of industry association standards. Also included on the CD are all Data Items described in Appendix E of this document.

Appendix A

SMC Policy on Specifications and Standards Usage



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS SPACE AND MISSILE SYSTEMS CENTER (AFSPC)
LOS ANGELES, CA


JUL 11 2006

MEMORANDUM FOR SMC-ALL

FROM: SMC/CC

SUBJECT: Initial Policy on Specifications and Standards Usage at SMC

1. This policy establishes the use of specifications and standards as an integral element of SMC acquisition processes. Programs executed by SMC/AFPEO-Space shall include specifications and standards in all solicitations and shall place them on contract as compliance documents through the supplier chain, as appropriate.
2. The SMC Chief Engineer shall be responsible for defining, coordinating, maintaining, updating and reporting the master list of compliance documents. The list includes the minimum essential government, industry, professional and international specifications and standards for SMC's total portfolio of launch vehicles, space vehicles, ground systems, user equipment, missile systems, facilities and research. This policy applies to all new SMC/AFPEO-Space development, acquisition and sustainment contracts, including new contracts for legacy programs. For existing programs and contracts, the SPO's, with the SMC Chief Engineer, will assess the program, status, requirements, technical baseline and risks to generate a tailored subset of specifications and standards. This subset will be recommended to SMC/CC/AFPEO-Space for implementation. The necessary specifications and standards will be placed on contract, as part of the program's baseline and the Program Office shall enforce them. Any issues on specifications, standards or implementation that arise between SMC/EA and SPD's will be brought forward to SMC/CC/AFPEO-Space for resolution.
3. The Chief Engineer shall prepare an SMC OI to institutionalize the practice and intent of this policy.


MICHAEL A. HAMEL
Lieutenant General, USAF
Commander

GUARDIANS OF THE HIGH FRONTIER

Appendix B

Updates to the SMC Compliance Standards

Row #	Document Number	Document Title	Change Type	Change Justification
1	SMC Standard SMC-S-019, Rev A	Program and Subcontractor Management	A	<ul style="list-style-type: none"> • Authored with industry to address PM issues critical to high-reliability space acquisition: TOR-2008(8583)-7731, dated 11 March 2008 • Replaces ISO 14300-1, Program Management • Formal industry review: June 2008 SQIC
8	SMC Standard SMC-S-003	Quality Systems	A	<ul style="list-style-type: none"> • New standard from TOR-2005(8583)-3859, dated 1 Dec 2005 (released 4/2007), with no requirements changes • To be used in lieu of SAE AS9100, Rev B <i>for satellite and launch vehicle contracts only</i> • Updates and clarifies AS9100 by eliminating tutorial material and internal redundancy; adds industry-accepted processes such as Hardware Acceptance Reviews for high-reliability space acquisition; Includes requirements traceability matrix with AS9100 • Formal industry review: Nov 2007 SQIC
26	SMC Standard SMC-S-017	Lithium Ion Battery for Spacecraft Applications	A	<ul style="list-style-type: none"> • New standard from TOR-2007(8583)-1, dated 30 June 2007, with no requirements changes • Development, testing, storage and use of lithium ion batteries as used in space, launch, and upper-stage vehicles • Formal industry review: Nov 2007 SQIC

Change Type Codes:

A = Addition of new standard to updated SMC Compliance Standards List

D = Deletion of standard on previous SMC Compliance Standards List

S = SMC Standard from Aerospace TOR already on SMC Compliance Standards List

U = Update of standard already on SMC Compliance Standards List

Row #	Document Number	Document Title	Change Type	Change Justification
55	MIL-STD-2073-1E	Standard Practice for Military Packaging	A	<ul style="list-style-type: none"> • Methods of preservation to protect materiel against environmentally induced corrosion/deterioration, physical/mechanical damage, and other forms of degradation during storage, handling, and shipment. • Supplements Mil Std 1367A for PHS&T. Mil Std 2073 allows for "best commercial practices" as compliant procedures, addressing COTS/CLS support.
14	DOD 5220-22M	National Industrial Security Program (NISPOM)	A	<ul style="list-style-type: none"> • Provides full breadth of required industrial security requirements. • Replaces vague references to "PPP" and "SCG". • Required per SMC/PIP.
n/a	ISO 14300-2	Product Assurance	D	Duplicates other standards in SMC Compliance list with no significant additional requirements: risk management, quality assurance, safety, dependability, and PMP
n/a	DODD 5200.39	Security, Intelligence, and Counterintelligence Support to Acquisition Program Protection	D	Provides guidance and direction to government, not contractors
n/a	PPP & SCG	Program Protection Plan, and Security classification Guide	D	Partial industrial security requirements.
n/a	ISO 9241	Ergonomic Requirements for Office Work with Visual Display Units (Multiple Volumes)	D	Insufficient requirements language, excessive overlap with other standards [TOR-2008(8583)-7579, dated 15 Jan 2008]
3	SMC Standard SMC-S-002	Configuration Management	S	Replaces TOR-2006(8583)-1 with no requirements changes

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Row #	Document Number	Document Title	Change Type	Change Justification
7	SMC Standard SMC-S-001	Systems Engineering	S	Replaces TOR-2005(8583)-3, Rev A with no requirements changes
17	SMC Standard SMC-S-004	Independent Structural Loads Analysis	S	Replaces TOR-2003(8583)-2886 with no requirements changes
21	SMC Standard SMC-S-005	Space Systems – Flight Pressurized Systems	S	Replaces TOR-2003(8583)-2896 with no requirements changes
22	SMC Standard SMC-S-006	Solid Rocket Motor Case Design & Test Requirements	S	Replaces TOR-2003(8583)-2895, Rev 1 with no requirements changes
25	SMC Standard SMC-S-007	Space Battery	S	Replaces TOR-2004(8583)-55, Rev 1 with no requirements changes
35	SMC Standard SMC-S-009	Parts, Materials, and Processes Control Program for Space and Launch Vehicles	S	Replaces TOR-2006(8583)-5235 with no requirements changes

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Row #	Document Number	Document Title	Change Type	Change Justification
36	SMC Standard SMC-S-010	Technical Requirements for Electronic Parts, Materials, and Processes for Space and Launch Vehicles	S	Replaces TOR-2006(8583)-5235 with no requirements changes
37	SMC Standard SMC-S-011	Parts, Materials, and Processes Control Program for Expendable Launch Vehicles	S	Replaces TOR-98(1412)-1, Rev A with no requirements changes
41	SMC Standard SMC-S-012	Software Development Standard for Space Systems	S	Replaces TOR-2004(3909)-3537, Rev B with no requirements changes
46	SMC Standard SMC-S-014	Survivability program for Space Systems	S	Replaces TOR-92(2904)-5 with no requirements changes
61	SMC Standard SMC-S-015	End-of-Life disposal of Satellites in Geosynchronous Altitude	S	Replaces TOR-2006(8583)-4474 with no requirements changes
63	SMC Standard SMC-S-016	Test Requirements for Launch, Upper-Stage, & Space Vehicles	S	Replaces SMC-TR-06-11/TR-2004(8583)-1, Rev A with no requirements changes
6	ANSI/EIA 748-B	Earned Value Management Systems	U	September 2007 update of ANSI/EIA 748-A changes some language from DOD-centric to more broadly applicable industry terms, clarifies earned value definition, adds initial program cost to list of possible bases for program budget, includes 'unexpected growth' in management reserve, and clarifies use of EV credit on flow down efforts
15	DODI 8510.1	DOD Certification and Accreditation Process Guidelines (DIACAP)	U	28-Nov-2007 formal release of DIACAP guidance

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U = Update of standard already on SMC Compliance Standards List

Row #	Document Number	Document Title	Change Type	Change Justification
24	DOD-W-83575A Rev A (USAF)	Wiring Harness, Space Vehicle, Design and Testing	U	Corrected publication date error
42	DOD Architecture, version 1.5	DOD Architecture Framework Volumes I, II, and III	U	<p>The April 2007 update of DODAF v1.0 applies net-centric concepts and acknowledges enabling technologies such as services within a Service Oriented Architecture (SOA), is backward compatibility with DoDAF v1.0, emphasizes architecture data rather than the products, and introduces federated architectures concept and Core Architecture Data Model (CADM)</p> <p>[Users should review this document in its entirety to assess impacts of this version update.]</p>
43	DISR 08-2	DOD Information Technology Standards Registry (DISR)	U	<p>Routine update per DISA tri-annual schedule</p> <p>[Users should review this information technology standards registry in its entirety to assess potential impacts of this update.]</p>
44	SMC Standard SMC-S-013	Reliability Program for Space Systems	U	<ul style="list-style-type: none"> • New standard from TOR-2007(8583)-6889, dated 10 July 2007 • Replaces MIL STD 1543B with requirements updates • Formal industry review: Nov 2007 SQIC
53	MIL-STD-130-M	Identification Marking of US Military Property	U	Added Notice 1 for clarity and completeness
58	AIAA S-120-	Mass Properties Control for Space	U	Added SMC tailoring: “Required SMC tailoring in TOR-

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Row #	Document Number	Document Title	Change Type	Change Justification
	2006	Systems		2008(8506)-7560, dated 29 Feb 2008” to improve specification of mass growth requirements for high-reliability space applications.
65	MIL STD 810F	DOD Test Method Standard for Environmental engineering Considerations and Laboratory Tests	U	Added Notices 1, 2, and 3 for completeness
29	SMC Standard SMC-S-018	Electromagnetic Compatibility Requirements for Space Equipment and Systems	U S	<ul style="list-style-type: none"> January 2008 update of TOR-2005(8583)-1 SMC standard from TOR-2005(8583)-1, Rev A, dated 1 Jan 2008, with no requirements changes Industry participation and review: AIAA EMC Committee on Standards

Change Type Codes:

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S = SMC Standard from Aerospace TOR already on SMC Compliance Standards List



U = Update of standard already on SMC Compliance Standards List

Appendix C

Approved SMC Compliance Standards List

Compliance Documents for SMC Acquisitions 1 August 2008

This list establishes the specifications and standards
to be used on all new SMC contracts
in accordance with
SMC Commander's Policy on Specifications and Standards
dated 11 July 2006

 
David E. Swanson Date
Colonel, USAF
SMC/EA

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
1	1.1 Program Execution; Program Management	SMC Standard SMC-S-019, Rev A	Program and Subcontractor Management	11-Aug-08	Davis, D. SMC/EAE	
2	1.1 Program Execution; Program Management	MIL STD 1521B including Notices 1 & 2	Technical Reviews & Audits for Systems, Equipment and Computer Software	10-Apr-95	Davis, D. SMC/EAE	
3	1.1 Program Execution; Program Management	SMC Standard SMC-S-002	Configuration Management	13-Jun-08	Donahue, C Aerospace	
4	1.1 Program Execution; Program Management	MIL-STD-1528A	Production Management	1-Sep-86	Davis, D., SMC/EAE	
5	1.1 Program Execution; Program Management	ISO 17666	Space Systems - Risk Management	1-Apr-03	Dar, R. Aerospace	
6	1.1 Program Execution; Program Management	ANSI/EIA 748-B	Earned Value Management Systems	10-Sep-07	Davis, D. SMC/EAE	

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
7	1.2 Program Execution; Systems Engineering	SMC Standard SMC-S-001	Systems Engineering	13-Jun-08	Shaw, B. Aerospace	
8	1.3 Program Execution; Product Assurance	SMC Standard SMC-S-003	Quality Systems	13-Jun-08	Helgevold, D. Aerospace	For use on all high-reliability space and launch vehicles
9	1.3 Program Execution; Product Assurance	SAE AS9100 Rev. B	Quality Systems - Aerospace - Model for Quality Assurance in Design, Development, Production, Installation and Servicing	1-Jan-06	Davis, D. SMC/EAE	For use on all ground and user-equipment
10	1.4 Program Execution; Program Protection	DoDI 8500.2	Information Assurance Implementation	06-Feb-03	Dupuis, J. Aerospace	<ul style="list-style-type: none"> - Coordinate tailoring and requirements language with SMC/PIP - Resulting contract-specific specification shall be configuration controlled by SMC/PIP (as SMC-P-xx) and levied on contract

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
11	1.4 Program Execution; Program Protection	MIL-HDBK-1785	System Security Engineering Program Management Requirements	1-Aug-95	Dupuis, J. Aerospace	<ul style="list-style-type: none"> - Tailoring required to generate requirements language - Coordinate with POC and SMC/PIP
12	1.4 Program Execution; Program Protection	DCID 6/3 Manual	Protecting Sensitive Compartmented Information Within Information Systems	11-Dec-03	Dupuis, J. Aerospace	<ul style="list-style-type: none"> - Must be tailored to generate contractor requirements for portions of the system processing SCI - Coordinate with POC and SMC/PIP
13	1.4 Program Execution; Program Protection	TSRD	Telecommunications Security Requirements Document	Various	Dupuis, J. Aerospace	<ul style="list-style-type: none"> - Provided by NSA - System-specific document that specifies cryptography and key management requirements

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
14	1.4 Program Execution; Program Protection	DOD 5220-22M	National Industrial Security Program	28-Feb-06	Rowland, S SMC/PIP	- Coordinate PPP and SCG tailoring/CDRLs with SMC/PIP. - Shall be levied on contract as part of DD 254
15	1.4 Program Execution; Program Protection	DODI 8510.1	DoD Certification and Accreditation Process Guidelines (DIACAP)	28-Nov-07	Dupuis, J. Aerospace	- Tailoring required to generate requirements language - Coordinate with POC and SMC/PIP
16	2.1 Vehicle/Ground Design Structures	AIAA S-110-2005	Space Systems — Structures, Structural Components, and Structural Assemblies	12-Jul-05	Chang, J.B. Aerospace	Tailoring available from POC
17	2.1 Vehicle/Ground Design Structures	SMC Standard SMC-S-004	Independent Structural Loads Analysis	13-Jun-08	Kabe, A. Aerospace	
18	2.2 Vehicle/Ground Design Moving Mechanical Assemblies	AIAA S-114-2005	Moving Mechanical Assemblies for Space and Launch Vehicles	30-Jun-05	Gore, B. Aerospace	

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
19	2.3 Vehicle/Ground Design Pressurized Hardware	AIAA S-080-1998	Space Systems, Metallic Pressure Vessels, Pressurized Structures, and Pressure Components	1-Sep-98	Chang, J.B. Aerospace	Coordinate tailoring with POC and SMC/SES
20	2.3 Vehicle/Ground Design Pressurized Hardware	AIAA S-081A-2006	Space Systems — Composite Overwrapped Pressure Vessels (COPVs)	24-Jul-06	Chang, J.B. Aerospace	Coordinate tailoring with POC and SMC/SES
21	2.3 Vehicle/Ground Design Pressurized Hardware	SMC Standard SMC-S-005	Space Systems – Flight Pressurized Systems	13-Jun-08	Chang, J.B. Aerospace	Coordinate tailoring with POC and SMC/SES
22	2.3 Vehicle/Ground Design Pressurized Hardware	SMC Standard SMC-S-006	Solid Rocket Motor Case Design & Test Requirements	13-Jun-08	Chang, J.B. Aerospace	Coordinate tailoring with POC and SMC/SES
23	2.4 Vehicle/Ground Design Electrical Power	AIAA S-122-2007	Electrical Power Systems for Unmanned Spacecraft	5-Jan-07	Lenertz, B. Aerospace	
24	2.4 Vehicle/Ground Design Electrical Power	DOD-W-83575A Rev. A (USAF)	Wiring Harness, Space Vehicle, Design And Testing	22-Dec-77	Simpson, M. Aerospace	

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
25	Vehicle/Ground Design Electrical Power	SMC Standard SMC-S-007	Space Battery	13-Jun-08	Hwang, W. Aerospace	
26	Vehicle/Ground Design Electrical Power	SMC Standard SMC-S-017	Lithium Ion Battery for Spacecraft Applications	13-Jun-08	Ang, V. Aerospace	
27	Vehicle/Ground Design Electrical Power	AIAA S-111- 2005	Qualification and Quality Requirements for Space- Qualified Solar Cells	15-Aug-05	Reed, B. SMC/EAE	
28	Vehicle/Ground Design Electrical Power	AIAA S-112- 2005	Qualification and Quality Requirements for Space- Qualified Solar Panels	15-Aug-05	Reed, B. SMC/EAE	
29	Vehicle/Ground Design Electrical Power	SMC Standard SMC-S-008	Electromagnetic Compatibility Requirements For Space Equipment and Systems	13-Jun-08	Dunbar, M. Aerospace	
30	Vehicle/Ground Design Electrical Power	MIL-STD- 461E	Electromagnetic Emissions and Susceptibility, Requirements for the Control of Electromagnetic Interference	1-Aug-99	Dunbar, M. Aerospace	
31	Vehicle/Ground Design Electrical Power	MIL-STD- 1542B	EMC Grounding Requirements for Space System Facilities	1-Nov-91	Dunbar, M. Aerospace	

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
32	Vehicle/Ground Design Ordnance	AIAA S-113-2005	Criteria for Explosive Systems and Devices Used on Space and Launch Vehicles	10-Nov-05	Goldstein, S. Aerospace,	Coordinate tailoring with POC and SMC/SEO
33	Vehicle/Ground Design Parts, Materials, & Processes	ASTM E 1548-03	Standard Practice for Preparation of Aerospace Contamination Control Plans	10-May-03	Luey, K. Aerospace	Required tailoring: - change 'should' to 'shall' - specify that 'buyer' includes the U.S. government.
34	Vehicle/Ground Design Parts, Materials, & Processes	ANSI/AIAA R-100A-2001	Recommended Practice for Parts Management	16-Aug-01	Davis, D SMC/EAE	For use on ground and user-equipment
35	Vehicle/Ground Design Parts, Materials, & Processes	SMC Standard SMC-S-009	Parts, Materials, & Processes Control Program for Space and Launch Vehicles	13-Jun-08	Robertson, S. Aerospace	
36	Vehicle/Ground Design Parts, Materials, & Processes	SMC Standard SMC-S-010	Technical Requirements for Electronic Parts, Materials, and Processes For Space and Launch Vehicles	13-Jun-08	Robertson, S. Aerospace	

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
37	Vehicle/Ground Design Parts, Materials, & Processes	SMC Standard SMC-S-011	Parts, Materials, and Processes Control Program for Expendable Launch Vehicles	13-Jun-08	Chang, G. E. Aerospace	
38	Information Technology; Software	ISO/IEC 15939	Software engineering - Software Measurement Process	11-Jul-02	Zambrana, M. SMC/EAD	
39	Information Technology; Software	RTCA-DO-278	Guidelines For Communication, Navigation, Surveillance And Air Traffic Management (CNS/ATM) Systems Software Integrity Assurance	5-Mar-02	Zambrana, M. SMC/EAD	Use on CNS/ATM systems only.
40	Information Technology; Software	RTCA-DO-178B	Software Considerations in Airborne Systems and Equipment Certification	1-Dec-92	Zambrana, M. SMC/EAD	Use on airborne systems only.
41	Information Technology; Software	SMC Standard SMC-S-012	Software Development for Space Systems	13-Jun-08	Zambrana, M. SMC/EAD	

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
42	3.2 Information Technology; Interoperability	DoD Arch v1.5	DOD Architecture Framework Volumes I, II, and III	27-Apr-07	Awwad, N. SMC/EAB	
43	3.2 Information Technology; Interoperability	DISR 08-2.0	DOD Information Technology Standards Registry (DISR)	14-Jul-08	Awwad, N. SMC/EAB	
44	4.1 Engineering Specialties; Reliability	SMC Standard SMC-S-013	Reliability Program for Space Systems	13-Jun-08	Duphily, R. Hecht, M. Aerospace	For use on launch and space (payload & bus) vehicles
45	4.1 Engineering Specialties; Reliability	MIL-STD-785B including Notices 1 & 2	Reliability Program for Systems and Equipment Development and Production	1-Aug-88	Duphily, R. Hecht, M. Aerospace	For use on ground and user- equipment
46	4.2 Engineering Specialties; Survivability	SMC Standard SMC-S-014	Survivability Program For Space Systems	13-Jun-08	Cuevas, G. Aerospace	
47	4.3 Engineering Specialties; Maintainability	MIL-STD-470B	Maintainability Program for Systems and Equipment	1-Jun-95	Duphily, R Aerospace	

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
48	4.4 Engineering Specialties; Human Systems Integration	MIL-STD-1472F including Notice 1	DoD Design Criteria Standard - Human Engineering	23-Aug-99	Shaw, B. Aerospace	<ul style="list-style-type: none"> - For use on ground or user-equipment hardware, especially mobile/transportable system or fielded tactical systems - Required SMC tailoring in SMC-T-001 (2008)
49	4.4 Engineering Specialties; Human Systems Integration	COE UIS Rev 4.3	Common Operating Environment (COE) User Interface Specification (UIS)	31-Dec-03	Shaw, B. Aerospace	<ul style="list-style-type: none"> - For use on ground segment software - Used only for user interfaces
50	4.4 Engineering Specialties; Human Systems Integration	SMC/AXE ReportHMRB-2001-1	Standard Practice: Human Computer Interface Display Conventions for Space System Operations.	14-Jan-01	Shaw, B. Aerospace	<ul style="list-style-type: none"> - For use on SMC ground segment TT&C - Used only for user interface
51	4.4 Engineering Specialties; Human Systems Integration	EIA HEB-1A	Electric Industries Alliance Engineering Bulletin - Human Engineering - Principles and Practices	15-Dec-05	Shaw, B. Aerospace	<ul style="list-style-type: none"> - For use on ground segment development & integration - Equivalent to Mil Hdbk 46855

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
52	4.5 Engineering Specialties; Integrated Logistics Support	MIL-PRF-49506	Logistics Management Information	11-Nov-96	Duphily, R Aerospace	
53	4.5 Engineering Specialties; Integrated Logistics Support	MIL-STD-130M including Notice 1	Identification Marking of U.S. Military Property	2-Dec-05	Wantland, G. SMC/PIL Duphily, R Aerospace	
54	4.5 Engineering Specialties; Integrated Logistics Support	MIL-STD-1367A	Packaging, Handling, Storage, and Transportability Program Requirements for Systems and Equipments	1-Oct-89	Wantland, G. SMC/PIL Duphily, R Aerospace	Coordinate tailoring with SMC/PIL
55	4.5 Engineering Specialties; Integrated Logistics Support	MIL-STD-2073-1E	Standard Practice for Military Packaging	23-May-08	Wantland, G. SMC/PIL	Coordinate tailoring with SMC/PIL
56	4.5 Engineering Specialties; Integrated Logistics Support	TM-86-01/T, Rev. M	Air Force Technical Manual Contract Requirements (TMCR)	1-Aug-06	Duphily, R Aerospace	Coordinate tailoring with POC and SMC/PIL

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
57	4.5 Engineering Specialties; Integrated Logistics Support	MIL-PRF-29612B	Training Data Products	31-Aug-01	Duphily, R Aerospace	Coordinate tailoring with POC and SMC/PIL
58	4.6 Engineering Specialties; Mass Properties	AIAA S-120-2006	Mass Properties Control for Space Systems	1-Dec-06	Yang, L. Aerospace	- Required SMC tailoring in SMC-T-002 (2008)
59	4.7 Engineering Specialties; System Safety	AFSPCMAN 91-710	Range Safety User Requirements Manual	1-Jul-04	Huang, L. SMC/SES	
60	4.7 Engineering Specialties; System Safety	MIL-STD-882C	System Safety Program Requirements	19-Jan-93	Huang, L. SMC/SES	- The current version D is acquisition reform version; SMC/SE requires Version C <i>without</i> Notice 1. - Coordinate tailoring with SMC/SE.
61	4.8 Engineering Specialties; Environmental	SMC Standard SMC-S-015	End-of-Life Disposal of Satellites in Geosynchronous Altitude	13-Jun-08	Ailor, W. Aerospace	

Compliance Documents for SMC Acquisitions

dated 1 August 2008

Line #	Functional; Technical Area	Document Number	Title	Pub Date	Tech POC	Additional Usage Requirements
62	4.8 Engineering Specialties; Environmental	NAS 411	Hazardous Materials Management Program	19-Jan-95	Caponpon, V. SMC/EAFPrado, A., Capt. SMC/SEB	
63	5.1 Test; Launch/Space Vehicle	SMC Standard SMC-S-016	Test Requirements For Launch, Upper-Stage, & Space Vehicles	13-Jun-08	Perl, E. Aerospace	
64	5.2 Test; Ground System	MIL-STD-1833	Test Requirements for Gnd Equipmt & Assoc Computer S/W Sptng Space Vehicles	13-Nov-89	Ellis, C. Aerospace	For use on test and evaluation of all system segments, from system-level thorough all lower-levels.
65	5.2 Test; Ground System	MIL-STD-810F including Notices 1, 2 & 3	Department of Defense Test Method Standard for Environmental Engineering Considerations and Laboratory Tests	14-Jul-89	Davis, D. SMC/EAE	For use on vehicle mountings, or ground support in various environments

Appendix D

SMC Compliance Standards Applicability

Compliance Documents for SMC Acquisitions dated 1 August 2008					Potential Applicability: Space System Segment		
Line #	Document Number	Title	Pub Date	Launch Vehicle	Space Vehicle	Ground	User
1	SMC-S-019, Rev A (2008)	Program and Subcontractor Management	13-Jun-08	x	x	x	x
2	MIL STD 1521B including Notices 1 & 2	Technical Reviews & Audits for Systems, Equipment and Computer Software	10-Apr-95	x	x	x	x
3	SMC-S-002 (2008)	Configuration Management	30-Jun-05	x	x	x	x
4	MIL-STD-1528A	Production Management	1-Sep-86	x	x	x	x
5	ISO 17666	Space Systems - Risk Management	1-Apr-03	x	x	x	x
6	EIA 748-B	Earned Value Management Systems	28-Aug-02	x	x	x	x
7	SMC-S-001 (2008)	Systems Engineering	13-Jun-08	x	x	x	x
8	SMC-S-003 (2008)	Quality Systems	13-Jun-08	x	x		
9	SAE AS9100 Rev. B	Quality Systems - Aerospace - Model for Quality Assurance in Design, Development, Production, Installation and Servicing	1-Jan-06			x	x
10	DoDI 8500.2	Information Assurance Implementation	06-Feb-03	x	x	x	x

Compliance Documents for SMC Acquisitions dated 1 August 2008				Potential Applicability: Space System Segment			
Line #	Document Number	Title	Pub Date	Launch Vehicle	Space Vehicle	Ground	User
11	MIL-HDBK-1785	System Security Engineering Program Management Requirements	1-Aug-95	x	x	x	x
12	DCID 6/3 Manual	Protecting Sensitive Compartmented Information Within Information Systems	11-Dec-03		x	x	x
13	TSRD	Telecommunications Security Requirements Document	Various		x	x	x
14	DOD 5220-22M	National Industrial Security Program	28-Feb-06	x	x	x	x
15	DOD 8510.1-	DoD Certification and Accreditation Process Guidelines (DIACAP)	28-Nov-07	x	x	x	x
16	AIAA S-110-2005	Space Systems — Structures, Structural Components, and Structural Assemblies	12-Jul-05	x	x		
17	SMC-S-004 (2008)	Independent Structural Loads Analysis	13-Jun-08	x	x		
18	AIAA S-114-2005	Moving Mechanical Assemblies for Space and Launch Vehicles	30-Jun-05	x	x		

Compliance Documents for SMC Acquisitions dated 1 August 2008					Potential Applicability: Space System Segment		
Line #	Document Number	Title	Pub Date	Launch Vehicle	Space Vehicle	Ground	User
19	AIAA S-080-1998	Space Systems, Metallic Pressure Vessels, Pressurized Structures, and Pressure Components	1-Sep-98	x	x		
20	AIAA S-081A-2006	Space Systems — Composite Overwrapped Pressure Vessels (COPVs)	24-Jul-06	x	x		
21	SMC-S-005 (2008)	Space Systems – Flight Pressurized Systems	13-Jun-08	x	x		
22	SMC-S-006 (2008)	Solid Rocket Motor Case Design & Test Requirements	13-Jun-08	x	x		
23	AIAA S-122-2007	Electrical Power Systems for Unmanned Spacecraft	5-Jan-07	*	x		
24	DOD-W-83575A Rev. A	Wiring Harness, Space Vehicle, Design And Testing	22-Dec-77	x	x		
25	SMC-S-017 (2008)	Lithium Ion Battery for Spacecraft Applications	13-Jun-08		X		
26	SMC-S-007 (2008)	Space Battery	13-Jun-08	x	x		
27	AIAA S-111-2005	Qualification and Quality Requirements for Space-Qualified Solar Cells	15-Aug-05		x		

Compliance Documents for SMC Acquisitions dated 1 August 2008					Potential Applicability: Space System Segment		
Line #	Document Number	Title	Pub Date	Launch Vehicle	Space Vehicle	Ground	User
28	AIAA S-112-2005	Qualification and Quality Requirements for Space-Qualified Solar Panels	15-Aug-05		x		
29	SMC-S-008 (2008)	Electromagnetic Compatibility Requirements For Space Equipment and Systems	13-Jun-08	x	x	x	x
30	MIL-STD-461E	Electromagnetic Emissions and Susceptibility, Requirements for the Control of Electromagnetic Interference	1-Aug-99	x	x	x	x
31	MIL-STD-1542B	EMC Grounding Requirements for Space System Facilities	1-Nov-91			x	x
32	AIAA S-113-2005	Criteria for Explosive Systems and Devices Used on Space and Launch Vehicles	10-Nov-05	x	x		
33	ASTM E 1548-03	Standard Practice for Preparation of Aerospace Contamination Control Plans	10-May-03	x	x		
34	ANSI/AIAA R-100A-2001	Recommended Practice for Parts Management	16-Aug-01			x	x
35	SMC-S-009 (2008)	Parts, Materials, & Processes Control Program for Space and Launch Vehicles	13-Jun-08	x	x		

Compliance Documents for SMC Acquisitions dated 1 August 2008					Potential Applicability: Space System Segment		
Line #	Document Number	Title	Pub Date	Launch Vehicle	Space Vehicle	Ground	User
36	SMC-S-010 (2008)	Technical Requirements for Electronic Parts, Materials, and Processes Used in Space and Launch Vehicles	13-Jun-08	x	x		
37	SMC-S-011 (2008)	Parts, Materials, and Processes Control Program for Expendable Launch Vehicles	13-Jun-08	x			
38	ISO/IEC 15939	Software engineering - Software Measurement Process	11-Jul-02	x	x	x	x
39	RTCA-DO-278	Guidelines For Communication, Navigation, Surveillance And Air Traffic Management (CNS/ATM) Systems Software Integrity Assurance	5-Mar-02				x
40	RTCA-DO-178B	Software Considerations in Airborne Systems and Equipment Certification	1-Dec-92				x
41	SMC-S-012 (2008)	Software Development Standard for Space Systems	13-Jun-08	x	x	x	x
42	DoD Arch v1.5	DoD Architecture Framework	4-Apr-07	x	x	x	x
43	DISR 08-2.0	DOD Information Technology Standards Registry (DISR)	4-Apr-08			x	x

Compliance Documents for SMC Acquisitions dated 1 August 2008				Potential Applicability: Space System Segment			
Line #	Document Number	Title	Pub Date	Launch Vehicle	Space Vehicle	Ground	User
44	SMC-S-013 (2008)	Reliability Program for Space and Launch Vehicles	13-Aug-08	x	x		
45	MIL-STD-785B including Notices 1 & 2	Reliability Program for Systems and Equipment Development and Production	1-Aug-88			x	x
46	SMC-S-014 (2008)	Survivability Program For Space Systems	13-Jun-08	x	x	x	x
47	MIL-STD-470B	Maintainability Program for Systems and Equipment	1-Jun-95	x	x	x	x
48	MIL-STD-1472F including Notice 1	DoD Design Criteria Standard - Human Engineering	23-Aug-99			x	x
49	COE UIS Rev 4.3	Common Operating Environment (COE) User Interface Specification (UIS)	31-Dec-03			x	x
50	SMC/AXE Report HMRB-2001-1	Standard Practice: Human Computer Interface Display Conventions for Space System Operations.	14-Jan-01			x	x

Compliance Documents for SMC Acquisitions dated 1 August 2008					Potential Applicability: Space System Segment		
Line #	Document Number	Title	Pub Date	Launch Vehicle	Space Vehicle	Ground	User
51	EIA HEB-1A	Electric Industries Alliance Engineering Bulletin - Human Engineering - Principles and Practices	15-Dec-05			x	x
52	MIL-PRF-49506	Logistics Management Information	11-Nov-96			x	x
53	MIL-STD-130M including Notice 1	Identification Marking of U.S. Military Property	2-Dec-05	x	x	x	x
54	MIL-STD-1367A	Packaging, Handling, Storage, and Transportability Program Requirements for Systems and Equipments	1-Oct-89	x	x	x	x
55	MIL-STD-2073-1E	Standard Practice for Military Packaging	23-May-08	x	x	x	x
56	TM-86-01/T, Rev. M	Air Force Technical Manual Contract Requirements (TMCR)	1-Aug-06			x	x
57	MIL-PRF-29612B	Training Data Products	31-Aug-01			x	x
58	AIAA S-120-2006	Mass Properties Control for Space Systems	1-Dec-06	x	x		

Compliance Documents for SMC Acquisitions dated 1 August 2008					Potential Applicability: Space System Segment		
Line #	Document Number	Title	Pub Date	Launch Vehicle	Space Vehicle	Ground	User
59	AFSPCMAN 91-710	Range Safety User Requirements Manual	1-Jul-04	x	x		
60	MIL-STD-882C without Notice 1	System Safety Program Requirements	19-Jan-93	x	x	x	x
61	SMC-S-015 (2008)	End-of-Life Disposal of Satellites Operating at Geosynchronous Altitude	13-Jun-08		x	x	
62	NAS 411	Hazardous Materials Management Program	19-Jan-95	x	x	x	
63	SMC-S-016 (2008)	Test Requirements For Launch, Upper-Stage, & Space Vehicles	13-Jun-08	x	x		
64	MIL-STD-1833	Test Requirements for Gnd Equipmt & Assoc Computer S/W Sptng Space Vehicles	4-May-98			x	
65	MIL-STD-810F including Notices 1, 2 & 3	Department of Defense Test Method Standard for Environmental Engineering Considerations and Laboratory Tests	14-Jul-89			x	x
Doc COUNT:				43	48	40	39

Appendix E

Data Items Cited in SMC Compliance Standards

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
1	SMC-S-019, Rev A	Program and Subcontractor Management	13-Jun-08
	None	N/A	N/A
2	MIL STD 1521B including Notices 1 & 2	Technical Reviews & Audits for Systems, Equipment and Computer Software	10-Apr-95
2a	DI-A-7088	Conference Agenda	18-Feb-81
Possible Alternative	DI-ADMIN-81249A	Conference Agenda	1-Oct-93
2b	DI-A-7089	Conference Minutes	18-Feb-81
Possible Alternative	DI-ADMIN-81250A	Conference Minutes	1-Oct-93
3	SMC-S-002	Configuration Management	13-Jun-08
3a	DI-ADMN-81249A	Conference Agenda	1-Oct-93
3b	DI-ADMN-81250A	Conference Minutes	1-Oct-93
3c	DI-CMAN-80463C	Engineering Release Record	30-Sep-00
3d	DI-CMAN-80639C	Engineering Change Proposal	30-Sep-00
3e	DI-CMAN-80640C	Request for Deviation	30-Sep-00
3f	DI-CMAN-80642C	Notice of Revision	30-Sep-00

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
3g	DI-CMAN-80643C	Specification Change Notice	30-Sep-00
3h	DI-CMAN-80858B	Contractor's CM Plan	30-Sep-00
3i	DI-CMAN-81022C	Configuration Audit Summary	30-Sep-00
3j	DI-CMAN-81245A	Installation Completion Notification	30-Sep-00
3k	DI-CMAN-81248A	Interface Control Drawing Documentation	30-Sep-00
3l	DI-CMAN-81253A	Configuration Status Accounting Information	30-Sep-00
4	MIL-STD-1528A	Production Management	1-Sep-86
4a	DI-MISC-80074	Manufacturing Plan	9-Dec-85
4b	DI-A-7089	Conference Minutes	18-Feb-81
Possible Alternative	DI-ADMIN-81250A	Conference Minutes	1-Oct-93
5	ISO 17666	Space Systems - Risk Management	1-Apr-03
	None	N/A	
6	ANSI/EIA 748-B	Earned Value Management Systems	10-Sep-07
6a	2.4	Analysis and Management Reports	

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
7	SMC-S-001	Systems Engineering Requirements and Products	13-Jun-08
7a	DI-ALSS-81529	Logistics Management Information Data Products	18-Nov-96
7b	DI-ALSS-81530	Logistics Management Information Summaries	18-Nov-96
7c	DI-CMAN-80639C	Engineering Change Proposal	30-Sep-00
7d	DI-CMAN-80858B	Contractor's Configuration Management Plan	30-Sep-00
7e	DI-ILSS-81335	Design Review Data Package	2-Apr-93
7f	DI-IPSC-81427A	Software Development Plan	10-Jan-00
7g	DI-IPSC-81431A	System/Subsystem Specification	10-Jan-00
7h	DI-MGMT-81024	Systems Engineering Management Plan	27-Aug-90
7i	DI-MGMT-81334C	Contract Work Breakdown Structure	20-Apr-07
7k	DI-MGMT-81453A	Data Accession List	27-Sep-07
7l	DI-MGMT-81466A	Contract Performance Report	30-Mar-05
7m	DI-MISC-81183A	Integrated Master Schedule	9-Feb-96
7n	DI-RELI-80255	Failure Summary and Analysis Report	17-Oct-86
7o	DI-SAFT-81626	System Safety Program Plan	1-Aug-01
7p	DI-SESS-81314	System/Segment Interface Control Specification	30-Oct-06

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
Tailoring Guidance	TOR-2004(8583)-3227	Systems Engineering Contract Deliverable Selection for National Security Space Programs	20-Apr-04
Tailoring Guidance	TOR-2008(8506)-8101	Recommended Software-related Systems Engineering Contract Deliverables for National Security Space Programs	TBA
8	SMC-S-003	Quality Systems	13-Jun-08
8a	Attachment 2	Quality Program Plan	
9	SAE AS9100 Rev. B	Quality Systems - Aerospace - Model for Quality Assurance in Design, Development, Production, Installation and Servicing	1-Jan-06
	None	N/A	N/A
10	DoDI 8500.2	Information Assurance Implementation	6-Feb-03
	None	N/A	N/A

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
11	MIL-HDBK-1785	System Security Engineering Program Management Requirements	1-Aug-95
	None	N/A	N/A
12	DCID 6/3 Manual	Protecting Sensitive Compartmented Information Within Information Systems	11-Dec-03
	None	N/A	N/A
12	TSRD	Telecommunications Security Requirements Document	Various
	None	N/A	N/A
13	DOD 5220-22M	National Industrial Security Program	28-Feb-06
	None	N/A	N/A
14	DoD 8510.1	DoD Certification and Accreditation Process Guidelines (DIACAP)	28-Nov-07
	None	N/A	N/A
15	AIAA S-110-2005	Space Systems — Structures, Structural Components, and Structural Assemblies	12-Jul-05
15a	8.1	Interface Control Documents	

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
Possible Alternative	DI-CMAN-81248A	Interface Control Document (ICD)	30-Sep-00
Possible Alternative	DI-SESS-81314A	Systems/Segment Interface Specification	30-Oct-06
15b	8.3	Analysis Reports (multiple)	N/A
16	SMC-S-004	Independent Structural Loads Analysis	13-Jun-08
	None	N/A	N/A
17	AIAA S-114-2005	Moving Mechanical Assemblies for Space and Launch Vehicles	30-Jun-05
	None	N/A	N/A
18	AIAA S-080-1998	Space Systems, Metallic Pressure Vessels, Pressurized Structures, and Pressure Components	1-Sep-98
	None	N/A	N/A
19	AIAA S-081A-2006	Space Systems — Composite Overwrapped Pressure Vessels (COPVs)	24-Jul-06
	None	N/A	N/A

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
20	SMC-S-005	Space Systems – Flight Pressurized Systems	13-Jun-08
	None	N/A	N/A
21	SMC-S-006	Solid Rocket Motor Case Design & Test Requirements	13-Jun-08
	None	N/A	N/A
22	AIAA S-122-2007	Electrical Power Systems for Unmanned Spacecraft	5-Jan-07
	None	N/A	N/A
23	DoD-W-83575A Rev. A (USAF)	Wiring Harness, Space Vehicle, Design And Testing	22-Dec-77
	None	N/A	N/A
24	SMC-S-007	Space Batteries	13-Jun-08
	None	N/A	N/A
25	SMC-S-017	Lithium Ion Battery for Spacecraft	13-Jun-08
	None	N/A	N/A

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
26	SMC-S-018	Lithium Ion Battery for Launch Vehicle Applications	13-Jun-08
	None	N/A	N/A
27	AIAA S-111-2005	Qualification and Quality Requirements for Space-Qualified Solar Cells	15-Aug-05
27a	Par. 11.2	Qualification Report	N/A
27b	Par. 11.3	Characterization Report	N/A
28	AIAA S-112-2005	Qualification and Quality Requirements for Space-Qualified Solar Panels	15-Aug-05
28a	Par. 11.2	Qualification Report	N/A
28b	Par. 11.3	Characterization Report	N/A
29	SMC-S-008	Electromagnetic Compatibility Requirements For Space Equipment and Systems	13-Jun-08
	None	N/A	N/A

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
30	MIL-STD-461E	Electromagnetic Emissions and Susceptibility, Requirements for the Control of Electromagnetic Interference	1-Aug-99
30a	DI-EMCS-80199B	Electromagnetic Interference Control Procedures (EMICP)	1-Jan-00
30b	DI-EMCS-80201B	Electromagnetic Interference Test Procedures (EMITP)	1-Jan-00
30c	DI-EMCS-80200B	Electromagnetic Interference Test Report (EMITR)	1-Jan-00
31	MIL-STD-1542B	EMC Grounding Requirements for Space System Facilities	1-Nov-91
	None	N/A	N/A
32	AIAA S-113-2005	Criteria for Explosive Systems and Devices Used on Space and Launch Vehicles	10-Nov-05
	None	N/A	N/A
33	ASTM E 1548-03	Standard Practice for Preparation of Aerospace Contamination Control Plans	10-May-03
	None	N/A	N/A
34	ANSI/AIAA R-100A-2001	Recommended Practice for Parts Management	16-Aug-01
	None	N/A	N/A

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
35	SMC-S-009	Parts, Materials, & Processes Control Program for Space and Launch Vehicles	13-Jun-08
35a	DI-RELI-80255	Failure Summary and Analysis Report	17-Oct-86
35b	DI-RELI-80253	Failed Item Analysis Report	17-Oct-86
35c	Appendix C	Failure Summary and Analysis Report (FSAR)	N/A
36	SMC-S-010	Technical Requirements for Electronic Parts, Materials, and Processes Used in Space and Launch Vehicles	13-Jun-08
	None	N/A	N/A
37	SMC-S-011	Parts, Materials, and Processes Control Program for Expendable Launch Vehicles	13-Jun-08
37a	Par. 4.5.9.1	Custom Active Electronic Parts	N/A
37b	Par. 4.5.9.2	Upscreening	N/A
37c	Par. 4.5.9.3	Military Specification Parts	N/A
37d	Par. 4.5.9.4	Destructive Physical Analysis (DPA)	N/A

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
38	ISO/IEC 15939	Software engineering - Software Measurement Process	11-Jul-02
	None	N/A	N/A
39	RTCA-DO-278	Guidelines For Communication, Navigation, Surveillance And Air Traffic Management (CNS/ATM) Systems Software Integrity Assurance	5-Mar-02
	None	N/A	N/A
40	RTCA-DO-178B	Software Considerations in Airborne Systems and Equipment Certification	1-Dec-92
40a	11.1	Plan for Software Aspects of Certification	N/A
40b	11.16	Software Configuration Index	N/A
40c	11.20	Software Accomplishment Summary	N/A
41	SMC-S-012	Software Development Standard for Space Systems	13-Jun-08
41a-1	Appendix H	Software Development Plan Template	N/A
41a-2	DI-IPSC-81427A	Software Development Plan	10-Jan-00
41b	DI-IPSC-81428A	Software Installation Plan	10-Jan-00
41c	DI-IPSC-81429A	Software Transition Plan	10-Jan-00

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
41d	DI-IPSC-81430A	Operational Concept Description	10-Jan-00
41e	DI-IPSC-81431A	System/Subsystem Specification	10-Jan-00
41f	DI-IPSC-81432A	System/Subsystem Design Description	10-Aug-99
41g	DI-IPSC-81433A	Software Requirements Specification	15-Dec-99
41h	DI-IPSC-81434A	Interface Requirements Specification	15-Dec-99
41i	DI-IPSC-81435A	Software Design Description	15-Dec-99
41j	DI-IPSC-81436A	Interface Design Description	15-Dec-99
41k	DI-IPSC-81437A	Database Design Description	15-Dec-99
41l	DI-IPSC-81438A	Software Test Plan	15-Dec-99
41m	DI-IPSC-81439A	Software Test Description	15-Dec-99
41n	DI-IPSC-81440A	Software Test Report	15-Dec-99
41o	DI-IPSC-81441A	Software Product Specification	15-Dec-99
41p	DI-IPSC-81442A	Software Version Description	11-Jan-00
41q	DI-IPSC-81443A	Software User Manual	11-Jan-00
41r	DI-IPSC-81446A	Computer Operation Manual	15-Dec-99
41s	DI-IPSC-81447A	Computer Programming Manual	15-Dec-99

Cited Data Item Descriptions (DIDs)
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Line #	Document Number	Title	Pub Date
41t	DI-IPSC-81448A	Firmware Support Manual	15-Dec-99
Tailoring Guidance	TOR-2006(8506)-5738	Recommended Software-related Contract Deliverables for National Security Space Programs	TBD
42	DoD Arch v1.5	DoD Architecture Framework	23-Apr-07
42a - cc	Volume II: Product Descriptions	AV-1, 2 OV-1, 2, 3, 4, 5, 6a, 6b, 7 SV-1, 2, 3, 4a, 4b, 5a, 5b, 5c, 6, 7, 8, 9, 10a, 10b, 10c, 11 TV-1, 2	N/A
43	DISR 08-2.0	DoD Information Technology Standards Registry (DISR)	14-Jul-08
	None	N/A	N/A
44	SMC-S-013	Reliability Program Requirements for Space Systems	13-Jun-08
44a	DI-A-7088	Conference Agenda	18-Feb-81
Possible Alternative	DI-ADMIN-81249A	Conference Agenda	1-Oct-93
44b	DI-A-7089	Conference Minutes	18-Feb-81
Possible Alternative	DI-ADMIN-81250A	Conference Minutes	1-Oct-93
44c	DI-QCIC-80125B	ALERT/SAFE ALERT	1-Jan-00

Cited Data Item Descriptions (DIDs)
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Line #	Document Number	Title	Pub Date
44d	DI-QCIC-80126B	Response to an ALERT/SAFE ALERT	1-Jan-00
44e	DI-R-7079	Reliability Program Plan	0-Jan-00
44f	DI-R-7084	Electronic Parts/Circuits Tolerance Analysis Report	0-Jan-00
44g	DI-R-7086	FMECA Plan	0-Jan-00
44h	DI-RELI-80249	Environmental Stress Screening Report	1-Jan-00
44i	DI-RELI-80250	Reliability Test Plan	1-Jan-00
44j	DI-RELI-80251	Reliability Test and Demonstration Procedures	1-Jan-00
44k	DI-RELI-80252	Reliability Test Reports	1-Jan-00
44l	DI-RELI-80253	Failed Item Analysis Report	1-Jan-00
44m	DI-RELI-80255	Report, Failure Summary and Analysis	1-Jan-00
44n	DI-RELI-80685	Critical Items List	1-Jan-00
44o	DI-RELI-80686	Reliability Allocations, Assessments, and Analysis Report	0-Jan-00
44p	DI-RELI-80687	Report, Failure Mode and Effects Analysis	1-Jan-00

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
45	MIL-STD-785B including Notices 1 & 2	Reliability Program for Systems and Equipment Development and Production	1-Aug-88
45a	DI-R-1734	Report, Failure Modes, Effects and Criticality Analysis Report	15-Dec-69
Possible Alternative	DI-RELI-80687	Failure Mode and Criticality Analysis Report	30-Sep-88
45b	DI-R-2114	Report, Reliability Allocation	Unknown
45c	DI-R-2115A	Report, Failure Mode and Effect Analysis (FMEA) (DI-R-2115A is to be used only when MIL-STD-1629 has been designated as the basis for MIL-STD-785B, Task 204)	Unknown
Possible Alternative	DI-ILSS-81183A	LSA-056. Failure Modes, Effects, and Criticality Analysis	23-Sep-92
Possible Alternative	DI-MNTY-80980	Planned Maintenance System (PMS) Failure Modes and Effects Analysis	17-May-90
45d	DI-R-35011	Plan, Critical Item Control	Unknown
45e	DI-R-7033	Plan, Reliability Test	Unknown
Possible Alternative	DI-RELI-80250	Reliability Test Plan	10/17/1986
Possible Alternative	DI-NDTI-81585A	Reliability Test Plan	21-Nov-06

Cited Data Item Descriptions (DIDs)
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Line #	Document Number	Title	Pub Date
45f	DI-R-7034	Reports, Reliability Test and Demonstration (Final Report)	Unknown
Possible Alternative	DI-TMSS-81586A	Reliability Test Reports	21-Nov-06
45g	DI-R-7035	Procedures, Reliability Test and Demonstration	Unknown
Possible Alternative	DI-RELI-80251	Reliability Test Procedures	17-Oct-86
45h	DI-R-7040	Report, Burn-in Test	21-Oct-77
45i	DI-R-7041	Report, Failure Summary and Analysis	Unknown
Possible Alternative	DI-RELI-80253	Failed Item Analysis	17-Oct-86
Possible Alternative	DI-RELI-80255	Failure Summary and Analysis Report	17-Oct-86
45j	DI-R-7079	Reliability Program Plan	14-Oct-80
45k	DI-R-7080	Reliability Status Report	14-Oct-80
45l	DI-R-7081	Reliability Mathematical Models	14-Oct-80
45m	DI-R-7082	Reliability Predictions Report	14-Oct-80
45n	DI-R-7083	Sneak Circuit Analysis Report	14-Oct-80

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
45o	DI-R-7084	Electronic Parts/Circuits Tolerance Analysis Report	14-Oct-80
46	SMC-S-014	Survivability Program For Space Systems	13-Jun-08
46a	DI-ENVR-80262	Nuclear Hardness and Survivability Program Plan	Unknown
46b	DI-ENVR-80267	Nuclear Hardness and Survivability Trade Study Report	Unknown
Possible Alternative	DI-ENVR-80266	Nuclear Hardness and Survivability Analysis Report	1-Dec-86
46c	DI-ENVR-80263	Hardness Assurance Plan	Unknown
46d	DI-ENVR-80264	Hardness Maintenance Plan	Unknown
46e	DI-ENVR-80265	Hardness Surveillance Plan	Unknown
46f	DI-T-3718	Test Reports - General	Unknown
46g	Appendix B	Survivability Program Plan	13-Jun-08
47	MIL-STD-470B	Maintainability Program for Systems and Equipment	1-Jun-95
47a-1	DI-MNTY-80822	Maintainability Program Plan	30-May-89
47a-2	DI-MNTY-81600	Maintainability Program Plan	8-Feb-01
Possible Alternative	DI-SESS-81613	Reliability and Maintainability (R&M) Program Plan	1-Aug-01

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
47b	DI-MNTY-80823	Maintainability Status Report	30-May-89
Possible Alternative	DI-MNTY-81601	Maintainability Status Report	8-Feb-01
47c	DI-MNTY-80824	Data Collection, Analysis and Corrective Action System, Reports	30-May-89
47d	DI-MNTY-80825	Maintainability Modeling Report	30-May-89
47e	DI-MNTY80826	Maintainability Allocations Report	30-May-89
47f	DI-MNTY-80827	Maintainability Predictions Report	30-May-89
Possible Alternative	DI-MNTY-81602	Maintainability Predictions Report	8-Feb-01
47g	DI-R-7085A	Failure Mode, Effects, and Criticality Analysis Report	30-May-89
47h	DI-MNTY-80828	Maintainability Analysis Report	30-May-89
47i	DI-MNTY-80829	Maintainability Design Criteria Plan	30-May-89
47j	DI-MNTY-80830	Inputs to the Detailed Maintenance Plan and Logistics Support Analysis	30-May-89
47k	DI-MNTY-80831	Maintainability/Testability Demonstration Test Plan	30-May-89
Possible Alternative	DI-MNTY-81604	Maintainability/Testability Demonstration Test Plan	8-Feb-01

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
47l	DI-R-2129	Plan, Maintainability Demonstration (DI-R-2129 is to be used only when MIL-STD-471 is designated as the basis for MIL-STD-470B, Task 301)	Unknown
47m	DI-MNTY-80832	Maintainability/Testability/Demonstration Test Report (to be used only when MIL-STD-471 and its associated DI-R-1724 are not designated as a basis for MIL-STD-470B,	Unknown
Possible Alternative	DI-MNTY-81603	Maintainability/Testability Demonstration Test Report	N/A
48	MIL-STD-1472F including Notice 1	DoD Design Criteria Standard - Human Engineering	23-Aug-99
	None	N/A	N/A
49	COE UIS Rev 4.3	Common Operating Environment (COE) User Interface Specification (UIS)	31-Dec-03
	None	N/A	N/A
50	SMC/AXE Report HMRB-2001-1	Standard Practice: Human Computer Interface Display Conventions for Space System Operations.	14-Jan-01
	None	N/A	N/A
51	EIA HEB-1A	Electric Industries Alliance Engineering Bulletin - Human Engineering - Principles and Practices	15-Dec-05
51a	DI-HFAC-80742B	Human Engineering Simulation Concept	8-Jul-98

Cited Data Item Descriptions (DIDs)
August 2007

Line #	Document Number	Title	Pub Date
51b	DI-HFAC-80746A	Human Engineering Design Approach Document (Operator)	8-Jul-98
51c	DI-HFAC-80747B	Human Engineering Design Approach Document (Maintainer)	8-Jul-98
51d	DI-HFAC-80938A	Noise Measurement Report	8-Jul-91
51e	DI-HFAC-81399A	Critical Task Analysis Report	26-May-94
51f	FAA-HF-001	Human Engineering Program Plan	15-Aug-99
51g	FAA-HF-002	Human Engineering Design Approach Document (Operator)	15-Aug-99
51h	FAA-HF-003	Human Engineering Design Approach Document (Maintainer)	15-Aug-99
51i	FAA-HF-004	Critical Task Analysis Report	1-Dec-00
51j	FAA-HF-005	Human Engineering Simulation Concept	1-Dec-00
52	MIL-PRF-49506	Logistics Management Information	11-Nov-96
52a	DI-ALSS-81529	Logistics Management Information (LMI) Data Products)	11-Nov-96
52b	DI-ALSS-81530	Logistics Management Information (LMI) Summaries	11-Nov-96

Cited Data Item Descriptions (DIDs)
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Line #	Document Number	Title	Pub Date
53	MIL-STD-130M w/Change Notice 1	Identification Marking of US Military Property	15-Jun-07
	None	N/A	N/A
54	MIL-STD-1367A	Packaging, Handling, Storage, and Transportability Program Requirements for Systems and Equipments	1-Oct-89
54a	DI-CMAN-80197	Request Assignment of National Stock Number	30-Jul-86
54b	DI-E-7031	Drawings, Engineering, and Associated Lists	unknown
Possible Alternative	DI-SESS-81000C	Product Drawings/models and associated lists	10-Sep-04
Possible Alternative	MIL-DTL-31000C	Technical Data Packages	9-Jul-04
54c	DI-ILSS-80118B/C	Support Equipment Recommendation data	16-Mar-93
54d	DI-L-7164	Maintenance Plan Summary Report	unknown
54e	DI-L-7194	Request for Nomenclature	unknown
54f	DI-PACK-80120B	Preservation and Packing Data	6-Apr-98
54g	DI-PACK-80121B	Special Packaging Instructions (SPI)	6-Apr-98
54h	DI-PACK-80683A	Container Design Retrieval System (CDRS) Search Request	31-Jul-95

Cited Data Item Descriptions (DIDs)
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Line #	Document Number	Title	Pub Date
54i	DI-PACK-80684A	Container Design Retrieval System (CDRS) Data Input	31-Jul-95
54j	DI-PACK-80878	Packaging Management Plan	27-Feb-07
54k	DI-PACK-80879	Vehicle Loading Configuration Drawings	17-Jul-98
54l	DI-PACK-80880C	Transportability Report	1-Nov-03
54m	DI-PACK-80881	Equipment Clearance Drawings	14-Jul-89
54n	DI-PACK-80887	Transportation Plan	Unknown
54o	DI-S-3606	System/Design Trade Study Reports	1-Nov-71
55	MIL STD 2073-1E	Standard Practice for Military Packaging	23-May-08
55a	DI-PACK-80120	Preservation and Packing Data	6-Apr-98
55b	DI-PACK-80121	Special Packing Instructions (SPI)	6-Apr-98
55c	DI-PACK-80683	Container Design Retrieval System (CDRS) Search Request	27-Sep-07
55d	DI-PACK-80684	Container Design Retrieval System (SDRS) Data Input	27-Sep-07
55e	DI-PACK-81059	Performance Oriented Packaging (POP) Test Report	9-Oct-90

Cited Data Item Descriptions (DIDs)
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Line #	Document Number	Title	Pub Date
56	TM-86-01/T, Rev. M	Air Force Technical Manual Contract Requirements (TMCR)	1-Aug-06
56a	DI-TMSS-80067	Technical Manual (TM) Contractor Furnished Aeronautical Equipment or Contractor Furnished Equipment (CFAE/CFE) Notices	23-Jan-97
57	MIL-PRF-29612B	Training Data Products	31-Aug-01
57a	DI-SESS-81517B	Training Situation Document	30-Aug-01
57b	DI-SESS-81518B	Instructional Performance Requirements Document	30-Aug-01
57c	DI-SESS-81519B	Instructional Media Requirements Document	30-Aug-01
57d	DI-SESS-81520B	Instructional Media Design Package	30-Aug-01
57e	DI-SESS-81521B	Training Program Structure Document	30-Aug-01
57f	DI-SESS-81522B	Course Conduct Information Package	30-Aug-01
57g	DI-SESS-81523B	Training Conduct Support Document	30-Aug-01
57h	DI-SESS-81524B	Training Evaluation Document	30-Aug-01
57i	DI-SESS-81525B	Test Package	30-Aug-01
57j	DI-SESS-81526B	Instructional Media Package	30-Aug-01
57k	DI-SESS-81527B	Training System Support Document	30-Aug-01

Cited Data Item Descriptions (DIDs)
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Line #	Document Number	Title	Pub Date
58	AIAA S-120-2006	Mass Properties Control for Space Systems	1-Dec-06
58a	Par. 4.5.1	Mass Properties Control Plan	N/A
58b	Par. 4.5.2	Verification Plan	N/A
58c	Par. 4.5.3	Mass Properties Test Procedures	N/A
58d	Par. 4.5.4	Test Completion Reports	N/A
58e	Par. 4.5.5	Contract Change Proposals	N/A
58f	Par. 4.5.6	Mass Properties Status Report	N/A
59	AFSPCMAN 91-710	Range Safety User Requirements Manual	1-Jul-04
59-1	Volume 1	AFSPC Range Safety policies and Procedures	1-Jul-04
59-1a	Attachment 2	System Safety Program Requirements	N/A
59-1b	Attachment 7	Launch Complex Safety Training and Certification Plan	N/A
58-2	Volume 2	Flight Safety Requirements	1-Jul-04
59-2a	2.2.3, 3	Preliminary Flight Plan Approval (PFPA)	N/A
59-2b	2.2.4, 3	Final Flight Plan Approval (FFPA)	N/A
59-2c	2.3.3, 3	Intended Support Plans (ISP)	N/A
59-2d	2.4, 3	Directed Energy Plan (DEP)	N/A

Cited Data Item Descriptions (DIDs)
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Line #	Document Number	Title	Pub Date
59-2e	2.5, 3	Large Nuclear Systems	N/A
59-3	Volume 3	Launch Vehicles, payloads and Ground Support System Requirements	1-Jul-04
59-3a	Attachment 1	Missile System Prelaunch Safety Package	N/A
59-3b	A1.2.4.16	OSC	N/A
59-3c	A1.2.4.6.2, A1.2.5.6	Material Handling Equipment	N/A
59-3d	v3 A1.2.5.6, v5 A1	Crane and Hoist	N/A
59-3e	A1.2.5.8	Removable, Extendible, and Hinged Personnel Work Platforms	N/A
59-3f	A1.2.4.12.2	Acoustic	N/A
59-3g	A1.2.4.10.2.1, A1.2.4.10.2.2	RF Emitter	N/A
59-3h	8.2.4.4, A1.2.4.10.3.6, A1.2.4.10.3.7, A1.2.4.10.3.8	Laser System	N/A
59-3i	A1.2.4.11	Radioactive Sources Launch Approval	N/A
59-3j	A1.2.5.13	Radiation Producing Equipment and Devices	N/A
59-3k	A1.2.4.13	Hazardous Materials	N/A
59-3l	11.2.4.4	Ground Support Pressure Systems	N/A

Cited Data Item Descriptions (DIDs)
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Line #	Document Number	Title	Pub Date
59-3m	12.2.8	COPV	N/A
59-3n	12.1	Flight Hardware Pressure Systems	N/A
59-3o	13.9, A1.2.4.9	Ordnance	N/A
59-3p	A1.2.5.10	Electrical and Electronic Equipment	N/A
59-3q	A1.2.5.17	Motor Vehicles Used to Transport Critical or Hazardous Loads	N/A
59-3r	A1.2.5.17	Lift Truck	N/A
59-3s	A1.2.5.18	Computer System and Software	N/A
59-3t	A1.2.5.19	WR Seismic Data Requirements	N/A
59-3u	A1.2.4.9.6	Solid Rocket Motor and Motor Segment	N/A
59-4	Volume 4	(classified)	1-Jul-04
	Unknown	Unknown	N/A
59-5	Volume 5	Facilities and Structures	1-Jul-04
59-5a	Attachment 1	Facility Safety Data Package	N/A
59-6	Volume 6	Ground and Launch Personnel, Equipment, Ssystems and Materiel Operations Safety Requirements	1-Jul-04
59-6a	Attachment 1	Ground Operations Plan	N/A

Cited Data Item Descriptions (DIDs)
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Line #	Document Number	Title	Pub Date
59-6b	Attachment 2	Hazardous and Safety Critical Procedures	N/A
59-6c	4.3.1.2	Operations Safety Plans	N/A
59-6d	4.3.2	Facility Emergency Operating Plans	N/A
59-6e	4.3.3	Emergency Evacuation Plans	N/A
59-7	Volume 7	Glossary of References, Abbreviations and Acronyms, and Terms	1-Jul-04
	N/A	None	N/A
60	MIL-STD-882C	System Safety Program Requirements	19-Jan-93
60a	DI-SAFT-80100A	System Safety Program Plan	31-Jul-95
60b	DI-SAFT-80101A	System Safety Hazard Analysis Report	31-Jul-95
60c	DI-SAFT-80102A	Safety Assessment Report	31-Jul-95
60d	DI-SAFT-80103A	Engineering Change Proposal System Safety Report	31-Jul-95
60e	DI-SAFT-80104A	Waiver or Deviation System Safety Report	31-Jul-95
60f	DI-SAFT-80105A	System Safety Program Progress Report	31-Jul-95
60g	DI-SAFT-80106A	Health Hazard Assessment Report	31-Jul-95

Cited Data Item Descriptions (DIDs)
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Line #	Document Number	Title	Pub Date
60h	DI-SAFT-80931	Explosive Ordnance Disposal Data	15-May-03
60i	DI-SAFT-81299	Explosive Hazard Classification Data	11-Apr-03
60j	DI-SAFT-81300	Mishap Risk Assessment Report	31-Jul-95
61	SMC-S-015	End-of-Life Disposal of Satellites in Geosynchronous Altitude	13-Jun-08
	None	N/A	N/A
62	NAS 411	Hazardous Materials Management Program	19-Jan-95
62a	DI-MISC/MGMT-81398	Hazardous Materials Management Program Plan	14-Apr-94
62b	DI-MISC-81397	Hazardous Materials Management Program Report	27-Sep-07
62c	Attachment 3	Completing AF form 585	N/A
63	SMC-S-016	Test Requirements For Launch, Upper-Stage, & Space Vehicles	13-Jun-08
	None	N/A	N/A
64	MIL-STD-1833	Test Requirements for Gnd Equipmt & Assoc Computer S/W Spntg Space Vehicles	4-May-98
	None	N/A	N/A

Cited Data Item Descriptions (DIDs)
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Line #	Document Number	Title	Pub Date
65	MIL-STD-810F including Notices 1,2,3	Department of Defense Test Method Standard for Environmental Engineering Considerations and Laboratory Tests	14-Jul-89
	None	N/A	N/A

Appendix F

Potential Standards and Usage Guides in Development

The Aerospace Corporation Report		STATUS
TOR-2006(8506)-5738	Recommended Software-related Contract Deliverables for National Security Space Programs	Awaiting Signature
TOR-2008(8506)-8101	Recommended Software-related Systems Engineering Contract Deliverables for National Security Space Programs	Awaiting Signature
TOR # TBD	Design Reviews [1521]	Draft In Review
TOR-2005(8583)-1, Rev B SMC-S-001	Systems Engineering Requirements and Products	Revision "B" Being Authored
TOR-2006(8583)-5235; SMC-S-010	Parts Material & Processes [1546]	Revision "A" Being Authored
TOR-2006(8583)-5236; SMC-S-011	Parts Material & Processes [1547]	Revision "A" Being Authored
TOR # TBD	Ground Availability [785B]	Being Authored
TOR # TBD	Wiring Harness, Space Vehicle, Design And Testing [DOD-W-83575A]	Being Authored
TOR # TBD	Ground Test [1833]	Being Authored
TOR # TBD	Manufacturing Management	Being Authored
TOR # TBD	Survivability [TOR-98(1412)-1, Rev A]	Being Authored
TOR # TBD	Acquisition Risk & Planning Handbook	Being Authored
TOR-2004(3909)-3537, Rev C SMC-S-012	Software Development Standard for Space Systems	Awaiting Funding
TOR # TBD	Space Debris	Concept being Explored
TOR # TBD	IA Standard	Concept being Explored
TOR-2007(8583)-2; SMC-S-018	Lithium Ion Battery for LV	Revision Requested - Add appendix of requirements by AFSPCMAN 91-710

Appendix G

Specifications and Standards Comment Form

SMC Standard Improvement Proposal		
<p align="center">INSTRUCTIONS</p> <p>1. Complete blocks 1 through 7. All blocks must be completed.</p> <p>2. Send to the Preparing Activity specified in block 8.</p> <p>NOTE: Do not be used to request copies of documents, or to request waivers, or clarification of requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements. Comments submitted on this form do not constitute a commitment by the Preparing Activity to implement the suggestion; the Preparing Authority will coordinate a review of the comment and provide disposition to the comment submitter specified in Block 6.</p>		
SMC STANDARD CHANGE RECOMMENDATION:	1. Document Number	2. Document Date
3. Document Title		
<p>4. Nature of Change (Identify paragraph number; include proposed revision language and supporting data. Attach extra sheets as needed.)</p>		
5. Reason for Recommendation		
6. Submitter Information		
a. Name	b. Organization	
c. Address	d. Telephone	
e. E-mail address	7. Date Submitted	
<p>8. Preparing Activity</p> <p align="center">Space and Missile Systems Center AIR FORCE SPACE COMMAND 483 N. Aviation Blvd. El Segundo, CA 91245 Attention: SMC/EAE</p>		

