

## Appendix F: NASA SMA Reference Documents

Document Number	Title	System Review Mgr	CSO	Reliability Eng	Safety Eng	Supply Chain Eng	Resource Mgr
	System Review Board Handbook (Draft)	X					
	Safety and Mission Assurance Requirements (MAR)	X	X	X	X		
302-PG-7120.2.1	Systems Safety Support to GSFC Missions and other Organizations		X		X		
303-PG-7120.2.1	Procedure for Developing and Implementing Software Quality Programs		X				
303-WI-7120.1.1	Software Quality Reporting Process		X				
303-WI-7120.1.2	Software Quality Assessment Process		X				
303-WI-7120.1.3	Software QA Engineering Peer Review Assessment		X				
303-WI-7120.2.1	Mission Assurance Requirements (MAR) Preparation		X				
305-WI-1310.1.1B							X
540-PG-8715.1.1	Mechanical Systems Division (MSD) Safety Manual		X				
580-PG-8730.3.1	Product Development Handbook		X				
AFSPCMAN 91-710	Range Safety User Requirements Manual		X		X		
CR 5320.9	Payload and Experiment Failure Mode Effects Analysis and Critical Items List Ground Rules		X	X			
EEE-INST-002	Instructions for EEE Parts Selection, Screening, Qualification, and Derating			X			
EWR 127-1	Eastern and Western Range Safety Requirements		X		X		
FAP P-302-720,	Performing a Failure Mode and Effects Analysis		X	X			
	FMEA Handbook			X			
GPR 1860.1 - .4	Radiation Protection		X				
GPR 5340.3	Preparation and Handling of Alerts, Safe Alerts and Advisories		X		X		
GPR 8700.4	Integrated Independent Review (IIR)-	X	X				
GPR 8700.5	In-House Development & Maintenance of SW Products		X				
GPR 8700.6	Engineering Peer Reviews	X	X	X	X	X	
GPR STD 1000	Rules, Design, Development, Verification		X	X	X	X	
GPR-5100.2	Supplier Performance Evaluations		X				
GPR-5100.4	Supplier Quality Audits		X			X	
GPR-5340.2	Control of Nonconformance's		X			X	
GPR-7120.1	Program and Project Management	X	X				
GPR-7120.4	Risk Management		X	X			
GPR-8700.4	Integrated Independent Reviews	X	X				
GPR-8715.1	Processing of NASA Safety Reporting System (NSRS) Incident Reports		X	X			
GSFC STD 1001	Criteria for Flight Project Reviews -- Undated Draft	X		X			
GSFC-STD 0002	Risk Management Reporting System			X			
GSFC-STD-7000	General Environmental Verification Standard	X	X	X	X		
KHB 1700.7	Kennedy Space Center Directives Space Shuttle Payload Ground Safety Handbook		X		X		
KNPR 8715.3	Kennedy Space Center Safety Practices Procedural Requirements		X		X		
MIL-HDBK-338	Electronic Reliability Design Handbook			X			
MIL-STD-1522	Standard General Requirements for Safe Design and Operation of Pressurized Missile and Space Systems		X		X		
MIL-STD-882	System Safety Program Requirements		X		X		
NASA FTA	NASA Fault Tree Handbook With Aerospace Applications			X			
NASA PRA Handbook	Probabilistic Risk Assessment Procedures Guide for NASA Managers and Practitioners			X			

Document Number	Title	System Review Mgr	CSO	Reliability Eng	Safety Eng	Supply Chain Eng	Re-source Mgr
NASA-STD-8719.11	Safety Standard for Fire Protection				X		
NASA-STD-8719.13	Software Safety Standard				X		
NASA-STD-8719.7	Facility System Safety Requirements				X		
NASA-STD-8719.8	Expendable Launch Vehicle Payload Safety Review Process Standard				X		
NASA-STD-8719.9	Standard for Lifting Devices and Equipment				X		
NASA-STD-8729.1	Planning, Developing and Managing an Effective Reliability and Maintainability Program		X	X		X	
NASA-STD-8729.1	Planning, Developing and Managing an Effective Reliability and Maintainability Program			X			
NASA-STD-8739.1	Workmanship Standard for Staking and Conformal Coating of Printed Wiring Boards and Assemblies		X			X	
NASA-STD-8739.2	Workmanship Standard for Surface Mount Technology		X			X	
NASA-STD-8739.3	Soldered Electrical Connections Standard		X			X	
NASA-STD-8739.4	Crimping, Interconnecting Cables Harnesses and Wiring		X			X	
NASA-STD-8739.5	Fiber Optic Terminations, Cable Assemblies, and Installation		X			X	
NASA-STD-8739.8	NASA Software Assurance Standard		X			X	
NAS-STD-8719.13	Software Safety Standard		X		X	X	
NPD 2820.1	NASA Software Policies		X			X	
NPD 8610.23; NPD 8610.24	Expendable Launch Vehicle Launch Services Safety Requirements				X		
NPD 8700.1	NASA Policy for Safety and Mission Assurance	X					
NPD 8700.2: NPR 8705.3	Experimental Aerospace Vehicle SMA Requirements			X			
NPD 8700.3	Safety and Mission Assurance Policy for NASA Spacecraft, Instruments and Launch Services		X	X	X	X	
NPD 8710.3	Limiting Orbital Debris Generation		X			X	
NPD 8715.1	NASA Occupational Safety and Health Programs				X		
NPD 8720.1	NASA Reliability & Maintainability Program		X	X		X	
NPD 8730.1	Metrology and Calibration		X			X	
NPD 8730.2	NASA Parts Policy		X			X	
NPR 7120.5	NASA Space Flight Program and Project Mgt. Rqmts.	X	X			X	
NPR 7123.1	NASA Systems Engineering Processes & Requirements.	X					
NPR 7150.2	NASA Software Engineering Requirements		X			X	
NPR 8000.4	Risk Management Procedural Requirements			X			
NPR 8621.1	NASA Mishap Reporting Investigating, and Record Keeping		X		X	X	
NPR 8704.4	Risk Classification for NASA Payloads			X			
NPR 8705.5	Probabilistic Risk Assessment			X			
NPR 8705.6	SMA Audits, Reviews, and Assessments	X					
NPR 8715.3	NASA Safety Manual				X		
NPR 8715.4; NPD 8710.5	NASA Safety Policy for Pressure Vessels and Pressurized Systems				X		
NPR 8715.XX	Range Safety Program				X		
NPR 8735.1	GIDEP Notifications and NASA Advisories		X			X	
NSS 1740.12	NASA Safety Standard (NSS) for Explosives, Propellants, and Pyrotechnics		X		X	X	
NSS 1740.14	NASA Safety Standard, Guidelines & Assessment Procedures for Limiting Orbital Debris		X		X	X	
RADC-TR--85-229	Reliability Prediction for Spacecraft		X			X	