INDEX

30 SW Additional Work Restrictions, 6-12
30 SW Lightning Advisories and Warnings, 6-14
30 SW/SEGP Operations Safety Technicians, 6-4
45 SW Lightning Hazard Advisories and Hazard Warnings, 6-14
45 SW Range Safety Requirements for the eastern range, 2-25
45 SW/SEOE and SEOS Displays, 2-26

A

Acceptance Proof Test, 3-73
Acceptance Tests, 4-58
Accessibility, 3-32
Accident Notification Plan, 6-10
Acoustic Data Requirements, 3-21
Acoustic Design Standards, 3-21
Acoustic Hazard Operating Standards, 6-28
Acoustic Hazard Operations Personnel Protection Requirements, 6-29
ACOUSTIC HAZARD OPERATIONS, 6-28
ACOUSTIC HAZARDS, 3-21
Acoustic Intensity Contours, 2-18
Acoustic Operations, 6-29
Additional 30 SW/SEGP Responsibilities and Authorities, 6-4
Additional ER Design Controls, 3-24
Additional ER RSDS Display System Requirements, 7-12
Additional Requirements, 2-3
Additional WR Command and Control System Requirements, 7-8
Additional WR Design Controls, 3-25
Additional WR Design Standards for Cranes and Hoists Used to Handle Non-Critical Hardware, 3-17
ADS Action Requirements, 4-6
ADS Activation and Timing, 4-6
ADS Safing, 4-10
ADS Timing Analysis, 4-56
Aeronautical Control Officers, 45th Space Wing and 30th Space Wing, 7-3
Aerostat Or Balloon SPECIFIC DATA REQUIREMENTS, 2-22
Age Surveillance Tests, 4-58
Air Force Ground Safety, 45th Space Wing and Ground Safety, 30th Space Wing, 1-8
Air Force Ground Safety, 45th Space Wing, 1-8
Air Monitoring Equipment Calibration, 5-13
Air Monitoring System Locations Having Infrequent or Temporary Access, 5-13

Air Monitoring Systems Locations Having Regular Access, 5-12
Airborne Range Safety System Design, 4-2
AIRBORNE RANGE SAFETY SYSTEM POLICY, 4-2
Airborne Range Safety System Report, 1-18
Aircraft Data Requirements, 2-24
Aircraft Flight Plan Data Requirements, 2-24
Aircraft Flight Profile Information, 2-12
Air-Launched Vehicle Data Requirements, 2-20
Air-Launched Vehicle Data, 2-18
AIR-LAUNCHED VEHICLE SPECIFIC DATA REQUIREMENTS, 2-24
Alcoholic Beverages and Narcotics, 6-11
Analyses for Long Range Probes, 2-21
Analysis Methodology, 3-63, 6-38
and Load Cells Used to Handle Critical Hardware Design Requirements, 3-13
Annual Crane Operator Certification, 6-20
Antenna Patterns, 4-5
Antenna RF Impedance Mismatch, 4-45
Applicability of the 1997 Edition of EWR 127-1, 1-6
Applicability, 2-1, 4-1, 5-1, 6-1, 7-1
Assemblies Used to Handle Critical Hardware Initial Test Requirements, 3-13
Attaching the Load, 6-26
Authorizations, 1-16
Automatic Destruct System General Requirements, 4-6
Automatic Destruct System, 4-6
Auxiliary Propulsion Systems, 4-7
Avoidance of Type 303 Stainless Steel, 3-31

B

Backup Power Sources, 5-11
Ballistic Missile and Space Vehicle SPECIFIC DATA REQUIREMENTS, 2-15
Batteries with Brittle Fracture Failure Mode, 3-86
Battery Maintenance, Storage, and Operations, 6-61
Battery Operating Standards, 6-61
Battery Operations Personnel Requirements, 6-61
Battery Operations Training and Certification, 6-61
Battery Operations, 6-61
Battery Powered Forklifts, 3-132
Battery Procedures, 6-61
Battery Storage and Processing Areas, 5-13
Bioenvironmental Engineering, 45th Space Wing and 30th Space Wing, 5-2
Biophysiological Data, 3-24
INDEX

Bolts and Fasteners, 5-8
Bonding and Grounding Resistance Values, 3-35
Bonding and Grounding Tests, 3-42
Bonding and Grounding, 3-104

C

Cape Support (ER) and Range Scheduling (WR), 6-6
CHANGE PROCESS, 1-40
CHANGES TO APPROVED GENERIC SYSTEMS, 1-21
CHANGES TO EWR 127-1, 1-22
Checkout and Operation of Communication Networks, 7-13
Chiefs of Safety, 45th Space Wing and 30th Space Wing, 1-7, 2-1, 7-1
Civil Engineering Squadron, 45th Space Wing and Civil Engineering Group, 30th Space Wing, 5-2, 6-6
Classification of procedures, 6-68
Clearance, 3-32
Clothing Requirements in Industrial and Missile Operating Areas, 6-12
Coherent Transponder Phase Coherence Accuracy, 4-42
Combination Liquid and Solid Propellant Vehicles, 4-7
Combustible and Flammable Pressure System Piping and Tubing, 3-35
Command and Control System Checkout, 7-9
Command and Control System General Requirements, 7-8
COMMAND AND CONTROL SYSTEM, 7-8
Command Closed-Loop and Automatic End-to-End Tests, 4-63
Command CRD Closed-Loop Test., 4-64
Command Destruct Receiver Control, 7-4
Command Destruct System, 4-6
Command FTS Safing, 4-10
Commander, 45th Logistics Group, 1-8
Commanders, 45th Medical Group and 30th Medical Group, 1-8
Commanders, 45th Operations Group and 30th Operations Group, 1-7
Commanders, 45th Space Wing and 30th Space Wing (Range Directors), 2-1, 7-1
Commanders, 45th Space Wing and 30th Space Wing, 1-7, 4-1
Commanders, 45th Support Group and 30th Support Group, 1-8
Common Abort or Misfire/Hangfire Operations, 6-64
Compliance Documents, 3-29
Compliance with Applicable Codes, 1-34
Compliance with Occupational Safety and Health Administration Regulations, 5-3
Compliance With Safety Requirements, 1-34
Compliance with the United States Army Corps of Engineers Safety and Health Requirements Manual and Other Criteria, 5-3
Component (Black Box) Similarity Analysis, 4-54
Composite Hardware, 3-68
Composite Pressure Vessels, 3-82
Compressed Air Systems, 3-35
Computing Systems and Software, 3-132
Conduct of Operations, 6-5
Confined Space, Tank Entry, and Tank Cleaning, 6-17
Consecutive Launch Attempts, 6-12
Construction Site Safety Policy, 5-3
Contribution to Error., 4-46
Control of Access to All Hazardous Operations, 6-16
Control of Access to Hazardous Operations, 6-15
Control of Errant Vehicle Flight, 1-13
Control of Hazardous Energy Sources, 6-17
Controls for Flight Hardware Pressure Systems With Liquid Propellants, 6-49
Controls for Ground Support Pressure Systems With Liquid Propellants, 6-42
Conventional and Critical Facility Determination, 5-4
Conventional Facilities and Structures Documentation Requirements, 5-4
CONVENTIONAL FACILITIES AND STRUCTURES, 5-5
Conventional Facility and Structure Electrical Equipment, 5-6
Conventional Facility and Structure Life Safety Code Requirements, 5-6
Conventional Facility and Structure Personnel Anchorage and Anchorage Connectors, 5-6
Conventional Facility Demolition Plan, 5-4
Conventional Facility Design Drawings and Specifications, 5-4
Convoy Operations Requirements, 6-63
CONVOY OPERATIONS, 6-62
Convoy Transportation Procedures, 6-62
Coordination with the Space Control Center, 2-15
COPVs with Brittle Fracture or Hazardous LBB Failure Mode, 3-81
Corrosion Protection Coatings, 3-30
Crane and Hoist Annual Inspection Requirements, 3-12, 6-22
INDEX

Crane and Hoist Annual NDE Requirements, 3-12, 6-22
Crane and Hoist Inspection Requirements, 3-11, 3-19, 3-20, 6-23
Crane and Hoist NDE Requirements, 3-11, 3-19, 3-20, 6-23
Crane and Hoist No-Load Test Requirements, 3-11
Crane Logs, 6-8
Crane Operator Training and Certification, 6-20
Crane Suspended Personnel Platforms, 6-28
Cranes and Hoists Component Accessibility, 3-7, 3-17
Cranes and Hoists Daily Inspections, 6-21
Cranes and Hoists Operating Standards, 6-20
Cranes and Hoists Operations, 6-20
Cranes and Hoists Re-Test and Re-Inspection, 6-23
Cranes and Hoists Used in Hazardous Environments, 3-7
Cranes and Hoists Used to Handle Critical Hardware Annual Functional Tests and Inspections, 6-21
Cranes and Hoists Used to Handle Critical Hardware Design Standards, 3-7
Cranes and Hoists Used to Handle Critical Hardware Initial Data Requirements, 3-12
Cranes and Hoists Used to Handle Critical Hardware Monthly Inspections, 6-21
Cranes and Hoists Used to Handle Critical Hardware Periodic Test Requirements, 3-11
Cranes and Hoists Used to Handle Critical Hardware Periodic Test and Inspection, 6-21
Cranes and Hoists Used to Handle Critical Hardware Recurring Data Requirements, 3-12, 6-22
Cranes and Hoists Used to Handle Critical Hardware Selection Criteria, 3-7
Cranes and Hoists Used to Handle Critical Hardware, 3-6
Cranes and Hoists Used to Handle Non-Critical Hardware Design Standards, 3-17
Cranes and Hoists Used to Handle Non-Critical Hardware Initial Data Requirements, 3-20
Cranes and Hoists Used to Handle Non-Critical Hardware Initial Test Requirements, 3-18
Cranes and Hoists Used to Handle Non-Critical Hardware Periodic Test Requirements, 3-19
Cranes and Hoists Used to Handle Non-Critical Hardware Periodic Test and Inspection, 6-22
Cranes and Hoists Used to Handle Non-Critical Hardware Recurring Data Requirements, 3-20, 6-23
Cranes and Hoists Used to Handle Non-Critical Hardware Selection Criteria, 3-17
Cranes and Hoists Used to Handle Non-Critical Hardware, 3-17
CRD Interference Protection, 4-17
CRD Radiation Analysis, 4-17
CRD Transient Response, 4-17
Critical Facilities and Structures Documentation Requirements, 5-4
CRITICAL FACILITIES AND STRUCTURES, 5-7
Critical Facility and Structure Air Monitoring System General Design Requirements, 5-12
Critical Facility and Structure Air Monitoring Systems, 5-12
Critical Facility and Structure Bonding and Grounding, 5-9
Critical Facility and Structure Demolition Plan, 5-5
Critical Facility and Structure Design Calculations, 5-4
Critical Facility and Structure Design Criteria Document, 5-4
Critical Facility and Structure Design Drawings and Specifications, 5-4
Critical Facility and Structure Design Load Criteria, 5-8
Critical Facility and Structure Design Standards, 5-7
Critical Facility and Structure Fencing, 5-11
CRITICAL FACILITY AND STRUCTURE INITIAL INSPECTION REQUIREMENTS, 5-21
Critical Facility and Structure Life Safety Code Requirements, 5-7
Critical Facility and Structure Personnel Anchorages and Anchorages Connections, 5-11
Critical Flight Hardware Trailer Initial Data, 3-131
Critical Flight Hardware Trailer Initial Tests, 3-131
Critical Flight Hardware Trailer Periodic Tests, 3-131
Critical Flight Hardware Trailer Recurring Data, 3-132
Critical Hold or Scrub Point, 7-10
Cruise Missiles AND Remotely Piloted Vehicles SPECIFIC DATA REQUIREMENTS, 2-18
Cryogenic Liquid Spills, 6-52
Cryogenic Systems Hazards, 3-23
Cryostats (or Dewars) with Brittle Fracture Failure Mode, 3-87
Cryogenic Pipe Weld Inspection, 3-55

Data Submission, 2-3
INDEX

Definition of Ground Support Hazardous Pressure Systems, 3-28
Definition of Hazardous (Classified) Locations for Electrical Equipment Operations, 6-57
Definition of Hazardous (Classified) Locations, 3-126
Delay Time Consistency, 4-45
Delay Time Stability, 4-45
Delay Time, 4-45, 4-46
Description of Risk Criteria, 1-39
De-Selection of Faulty Satellites, 4-46
Design, Fabrication, and Installation Deficiencies, 3-62, 6-38
Designated Non-Smoking Areas, 6-14
Designated Smoking Areas, 6-14
Destruct Initiator Simulator Analysis, 4-56
Destruct Initiator Simulator Description, 4-51
Destruct Initiator Simulator Design, 4-51
Destruct Initiator Simulator, 4-51
Determining FTS Component Maximum Predicted Environment Levels, 4-8
Determining Hazardous Pressure System Location, 3-30
Determining RTS Component Maximum Predicted Environment Levels, 4-38
Development Tests, 4-57
Deviation and Waiver Policy, 1-20
Deviations and Waivers, 1-20
Deviations, 1-20
Directed Energy Plan Approval, 2-5
Directed Energy Plan Data Requirements, 2-13
Disposal of Contaminated Liquid Propellant, Gas, or Other Regulated Wastes, 6-33
Document Preparation and Maintenance, 6-2, 6-5
Documentation and Activity Requirements, 1-17
DOCUMENTATION and general data REQUIREMENTS, 2-6
DOCUMENTATION REQUIREMENTS, 3-2, 4-3, 5-4, 6-7, 7-5
Documentation Review and Approval Process, 5-4
Documentation, 3-74
Dual Crane Lift Operating Requirements, 6-23

EBW-FU Monitor Circuits, 4-28
EBW-FU Remote DISCHARGED and CHARGED Indicators, 4-28
EED All-Fire and No-Fire Levels, 4-32
EED General Design Requirements, 4-32
EGSE and Flight Hardware Battery General Design Requirements, 3-124
EGSE and Flight Hardware Batteries, 3-124
EGSE and Flight Hardware Battery Design Data, 3-129
EGSE and Flight Hardware Cables, 3-124
EGSE and Flight Hardware Connectors, 3-124
EGSE and Flight Hardware Grounding, Bonding, and Shielding, 3-124
EGSE and Flight Hardware Lithium Batteries, 3-125
EGSE and Flight Hardware Power Transient, 3-124
EGSE Batteries, 3-126
EGSE Battery Charging Equipment, 3-126
EGSE Cables, 3-126
EGSE Circuit Protection, 3-125
EGSE Design Data, 3-130
EGSE Design Requirements, 3-125
EGSE Design Standards, 3-125
EGSE Switches and Controls, 3-125
Electrical and Electronic Equipment Data Requirements, 3-129
ELECTRICAL AND ELECTRONIC EQUIPMENT, 3-124
Electrical and Electronic Flight Hardware Data, 3-130
Electrical and Electronic Flight Hardware Design Standards, 3-128
Electrical and Electronic Flight Hardware, 3-128
Electrical and Electronic Ground Support Equipment and Flight Hardware General Design Requirements, 3-124
Electrical and Electronic Ground Support Equipment and Flight Hardware Power Cut Off, 3-124
Electrical and Optical Low Voltage Electromechanical Circuits Design Requirements, 3-112
Electrical Equipment and Systems Test, Inspection, and Maintenance, 6-59
Electrical Equipment Inspection, 6-60
Electrical Equipment Maintenance, 6-60
Electrical Equipment, 5-9
Electrical Hazards, 3-23
Electrical Systems and Equipment Hazard Proofing, 3-127, 5-10
Electrical Systems General Operating Requirements, 6-60

Eastern and Western Range Differences, 1-3
EBW All-Fire and No-Fire Levels, 4-33
EBW Firing Units, 3-115
EBW General Design Requirements, 4-33
EBW-FU General Design Requirements, 4-28

E
INDEX

Electrical Systems Operating Requirements, 6-60
Electrical Systems Operating Standards and Definitions, 6-57
Electrical Systems Operating Standards, 6-57
Electrical Systems Operations Personnel and Special Insulated Equipment, 6-59
ELECTRICAL SYSTEMS OPERATIONS, 6-57
Electrical Systems Pre-Operational Requirements, 6-60
Electrical Systems Procedures, 6-59
Electromechanical S&A ARM and SAFE Mechanisms, 4-26
Electromechanical S&A Explosive Devices, 4-27
Electromechanical S&A General Design Requirements, 4-26
Electromechanical S&A Safing Pins, 4-27
Electromechanical S&A Status Indicators, 4-27
Elevators, 5-6, 5-7, 6-28
Emergency and Critical Systems Design Drawings and Specifications, 5-4
Emergency Decontamination of Facilities and Personnel, 6-43, 6-50
Emergency Egress, 5-6, 5-8
Emergency Evacuation Plans, 6-9
Emergency First Aid and PPE Requirements, 6-61
Emergency First Aid, 6-61
Emergency Lighting, 5-6, 5-8
Emergency Power Cutoff Systems, 5-19
Emergency Response Plans for Graphite Epoxy Composite Overwrapped Pressure Vessels, 6-9
Enclosed Hypergolic Propellant Facility Conductive Floors, 5-17
Enclosed Hypergolic Propellant Processing Facility Compatibility, 5-18
Enclosed Hypergolic Propellant Processing Facility Containment Systems, 5-17
Enclosed Hypergolic Propellant Processing Facility Control Room, 5-20
Enclosed Hypergolic Propellant Processing Facility Emergency Monitor and Control Panels, 5-20
Enclosed Hypergolic Propellant Processing Facility Gravity Drain Sump Systems, 5-18
Enclosed Hypergolic Propellant Processing Facility Personal Protective Equipment Support, 5-20
Enclosed Hypergolic Propellant Processing Facility Purge Systems, 5-18
Enclosed Hypergolic Propellant Processing Facility scrubbers and Incinerators, 5-19
Enclosed Hypergolic Propellant Processing Facility Vapor Detection Systems, 5-19
Enclosed Hypergolic Propellant Processing Facility Windsocks, 5-20
Enclosed Hypergolic Propellant Processing Fire Protection, 5-19
Enclosed Hypergolic Propellant Processing Transfer Areas, 5-19
Engineering Assessment and Analysis, 6-38
Engineering Change Proposals, Specification Change Notices, Software Problem Reports, Program or Software Trouble Reports, and Requests, 1-33
ER Command Remoting System, 7-8
ER Committed Coverage Plans, 7-6
ER CRD Prelaunch Systems Tests, 4-62
ER Flight Termination Unit, 7-9
ER Forward Observer Airborne, 7-6
ER FURUNO Radar, 7-11
ER Launch Danger Zone Warning Requirements, 7-11
ER Launch Emergency Response Force Duties and Responsibilities, 6-65
ER Lighthouse Sea Surveillance Radar, 7-11
ER MFCO Support Position Timers, 7-9
ER Operations National Aeronautics and Space Administration Support, 7-4
ER Operations Safety Console Description, 4-52
ER Operations Safety Console, 4-52
ER OSC Controls, Monitors, and Communication Lines, 3-3
ER OSC Design, 4-52
ER Personnel Conduct, 6-11
ER Prelaunch Bench Tests, 4-62
ER Range User Countdown Checklist, 7-6
ER RAPCON Radar and Miami Air Route Traffic Control Center Radar, 7-11
ER RSS Components Provided by the Range User, 4-54
ER RTS Antenna Analysis, 4-56
ER Surveillance Radar 1.60 Camera, 7-13
ER T-X Time for Pad Launches, 7-9
ER T-X Time for Submarine Launches, 7-9
ER T-X Time, 7-9
ER Weather Forecast Monitor, 7-13
EXAMPLES OF HAZARDOUS, 6-71
Explosive Ordnance Disposal, 6-57
Explosive Reentry Vehicle or Warhead Information, 2-11
Explosives Facilities Area Warning System General Requirements, 5-14
Explosives Facilities Area Warning Systems, 5-14
Explosives Facility and/or Area Ground System Test Plan, 6-8
INDEX

Explosives Facility Area Warning Systems Specific Requirements, 5-14
Explosives Site Plans, 5-13
Explosives Storage, Handling, and Processing Facilities General Design Requirements, 5-14
Explosives Storage, Handling, and Processing Facilities, 5-13
Exposed Solid Propellants, 5-10
Extendible, and Hinged Personnel Work Platforms Marking Requirements, 3-15

F

FACILITIES AND STRUCTURES DESIGN AND CONSTRUCTION SITE POLICIES, 5-3
Facilities and Structures Design, Construction, and Modification Policy, 5-3
Facilities and Structures Location Planning Requirements, 5-3
Facilities Safety Data Package, 1-18
FACILITY AND STRUCTURE EMERGENCY AND CRITICAL SYSTEMS TEST REQUIREMENTS, 5-20
Facility Emergency Operating Plans, 6-9
Facility Operator Inspections, 6-18
Facility Operators, 6-6
Facility Safety Data Package, 5-5, 5-22
Facility Spot Checks, 6-18
Facility Use General Requirements, 6-18
Facility Use, 6-18
Failure Mode Effects and Criticality Analysis, 3-110
Fall Hazards, 6-13
Fall Protection Equipment Inspections, 6-13
Fall Protection General Requirements, 6-13
Fall Protection Snap Hooks, 6-13
Fall Protection, 6-13
Final CRD RF Open-Loop Test, 4-63, 4-64
Final Flight Data Package General Requirements, 2-12
Final Flight Data Package Requirements, 2-16, 2-19, 2-20, 2-22, 2-23
Final Flight Plan Approval (FFPA), 2-4
Final Range Safety Approval to Launch, 1-18
Fire Detection, 5-16
Fire Marshal, 45th Space Wing and 30th Space Wing, 5-2
Fixed and Portable EGSE in Hazardous Locations, 3-126
Fixed Facility Transfer Apron Bonding and Grounding Station, 3-35

Fixed Pressure Relief Devices, 3-39
Flammability Monitoring Systems, 5-13
Flanges and Flange Connections, 3-47
Flight Analysis Approval, 2-3
FLIGHT ANALYSIS APPROVALS, 2-4
FLIGHT ANALYSIS POLICIES, 2-3
Flight Analysis, 45th Space Wing and 30th Space Wing, 7-2
Flight Control Communication Circuit General Requirements, 7-13
FLIGHT CONTROL COMMUNICATION CIRCUITS, 7-13
FLIGHT CONTROL POLICIES, 7-4
Flight Graphite Epoxy Composite Overwrapped Pressure Vessels Operations, 6-52
Flight Hardware Batteries, 3-128
Flight Hardware Cryogenic System Flexible Hoses, 3-105
Flight Hardware Cryogenic System General Design Requirements, 3-104
Flight Hardware Cryogenic System Piping and Tubing, 3-105
Flight Hardware Cryogenic System Pressure Indicating Devices, 3-105
Flight Hardware Cryogenic System Pressure Relief Devices, 3-106
Flight Hardware Cryogenic System Valves, 3-105
Flight Hardware Cryogenic System Vents, 3-106
Flight Hardware Cryogenic System Vessels and Tanks, 3-105
Flight Hardware Cryogenic Systems, 3-104
Flight Hardware Electromechanical Initiating Devices and Systems, 3-128
Flight Hardware Hydraulic Accumulators and Reservoirs, 3-99
Flight Hardware Hydraulic System Pressure Indicating Devices, 3-99
Flight Hardware Hydraulic System Pressure Relief Devices, 3-99
Flight Hardware Hydraulic Vent and Drain Systems, 3-100
Flight Hardware Hypergolic Propellant System Flexible Hoses, 3-102
Flight Hardware Hypergolic Propellant System General Design Requirements, 3-101
Flight Hardware Hypergolic Propellant System Piping and Tubing, 3-101
Flight Hardware Hypergolic Propellant System Pressure Indicating Devices, 3-102
INDEX

Flight Hardware Hypergolic Propellant System
Pressure Relief Devices, 3-102
Flight Hardware Hypergolic Propellant System
Requirements, 3-101
Flight Hardware Hypergolic Propellant System
Valves, 3-101
Flight Hardware Hypergolic Propellant Vent
Systems, 3-102
Flight Hardware Pressure System Bonding and
Grounding, 3-69
Flight Hardware Pressure System Certification Files,
3-109
Flight Hardware Pressure System Component Design
Data, 3-108
Flight Hardware Pressure System Contamination and
Cleanliness, 3-70
Flight Hardware Pressure System Design Data
Requirements, 3-108
Flight Hardware Pressure System General
Requirements, 3-64
Flight Hardware Pressure System Material Selection
and Compatibility, 3-70
Flight Hardware Pressure System Offloading, 3-64
Flight Hardware Pressure System Operations, 3-65
Flight Hardware Pressure System Service Life, 3-71
Flight Hardware Pressure System Supports and
Clamps, 3-69
Flight Hardware Pressure System Test Procedures
and Reports, 3-109
Flight Hardware Pressure Systems Analyses, 3-65
Flight Hardware Pressure Systems Area Posting
Requirements, 6-47
Flight Hardware Pressure Systems Data
Requirements, 3-107
Flight Hardware Pressure Systems Fault Tolerance,
3-64
Flight Hardware Pressure Systems General Data
Requirements, 3-107
Flight Hardware Pressure Systems General
Inspection, 6-46
Flight Hardware Pressure Systems General
Operating Requirements, 6-47
Flight Hardware Pressure Systems General Tests, 6-
46
Flight Hardware Pressure Systems Maintenance and
Repair, 6-48
Flight Hardware Pressure Systems Operating
Requirements, 6-47
Flight Hardware Pressure Systems Operating
Standards, 6-45

Flight Hardware Pressure Systems Operations
Personnel Requirements, 6-45
Flight Hardware Pressure Systems Operations PPE
Requirements, 6-45
FLIGHT HARDWARE PRESSURE SYSTEMS
OPERATIONS, 6-45
Flight Hardware Pressure Systems Pressurization
Operations, 6-48
Flight Hardware Pressure Systems Procedures, 6-46
Flight Hardware Pressure Systems Purging, 6-46
Flight Hardware Pressure Systems Recertification, 6-
47
Flight Hardware Pressure Systems Remote
Pressurization, 6-48
Flight Hardware Pressure Systems Test, Inspection,
and Maintenance, 6-46
Flight Hardware Pressure Systems Training and
Certification, 6-45
Flight Hardware Pressure Systems With Liquid
Propellant Pre-Operational Requirements, 6-49
Flight Hardware Pressure Systems With Liquid
Propellants General Operating Requirements, 6-48
Flight Hardware Pressure Systems With Liquid
Propellants Operating Requirements, 6-50
Flight Hardware Special Requirements, 3-97
Flight Hardware Systems With Liquid Propellants
Operations, 6-48
Flight Hardware Used to Lift Critical Loads Design
Requirements, 3-15
Flight Hardware Used to Lift Critical Loads Initial
Data Requirements, 3-15
Flight Hardware Used to Lift Critical Loads Initial
Test Requirements, 3-15
Flight Hardware Used to Lift Critical Loads, 3-15
Flight Line and Program Cameras, 7-12
Flight Plan Approval Data Requirements, 2-9
Flight Plan Approval Overview, 2-4
Flight Plan Approval, 2-4
Flight Safety Analysis Sections, 45th Space Wing
and 30th Space Wing, 4-2
FLIGHT TERMINATION ACTION
REQUIREMENTS, 4-7
Flight Termination Policy, 7-4
Flight Termination System Description, 4-5
FLIGHT TERMINATION SYSTEM DESIGN
REQUIREMENTS, 4-7
FLIGHT TERMINATION SYSTEM GENERAL
REQUIREMENTS, 4-5
Flight Termination System, 2-3
Food, Beverage, and Cigarette Consumption, 6-11
INDEX

For Winds of 18-29 Knots as Measured on or Closest to Specific Facilities, 6-15
For Winds of 30 Knots or More as Measured on or Closest to Specific Facilities, 6-15
Forklift Data Requirements, 3-132
Forklift Design Standards, 3-132
Forklift General Design Requirements, 3-132
Forklift Operations, 6-28
Forklift Tests, 3-132
Forklifts Used for Critical Loads, 6-28
Forklifts Used in Hazardous Areas, 6-28
Forklifts, 3-132
Forward Observers, 7-6
Fragment Data, 2-17, 2-19
Frequency Accuracy, 4-46
Frequency Drift, 4-46
Frequency Stability, 4-46
FTS Analyses, 4-55
FTS Antenna Heat Shield Fly-Off Analysis, 4-55
FTS Antenna System Compatibility, 4-17
FTS Antenna System Components, 4-16
FTS Antenna System Design, 4-16
FTS Antenna System Qualification and Acceptance Tests, 4-58
FTS Antenna System Radio Command Coverage, 4-16
FTS Antenna Systems Prelaunch Tests, 4-62
FTS Arming and Safing Plugs Design, 4-32
FTS Arming Device Design for Air or Sea Launched Vehicles, 4-10
FTS Arming Device Design for Surface Launched Vehicles, 4-10
FTS Arming Device Design, 4-10, 4-25
FTS Arming Device General Design Requirements, 4-25
FTS Battery Analyses, 4-55
FTS Battery Prelaunch Tests, 4-61
FTS Battery Qualification, Storage Life Verification, and Acceptance Tests, 4-59
FTS Bent Pin Analysis, 4-56
FTS Breakup Analysis, 4-56
FTS Circuit Isolation, 4-11
FTS Circuit Protection, 4-12
FTS Circuit Shielding, 4-12
FTS Command Open-Loop and Automatic End-to-End Tests, 4-62
FTS Component Acceleration Environment, 4-9
FTS Component Acoustic Noise Environment, 4-9
FTS COMPONENT DESIGN REQUIREMENTS, 4-16
FTS Component Identification, 4-37
FTS Component Isolation, 4-8
FTS Component Maximum Predicted Environment, 4-8
FTS Component Random Vibration Environment, 4-9
FTS Component Redundancy, 4-7
FTS Component Shock Environment, 4-9
FTS Component Tests, 4-58
FTS Component Thermal Environment, 4-9
FTS Configuration for Orbital Inserted Stages and Payloads, 4-6
FTS Continuity and Isolation, 4-11
FTS Control Circuits, 4-16
FTS CRD Prelaunch Bench Tests, 4-62
FTS CRD Qualification and Acceptance Tests, 4-58
FTS CRD Radiation Analysis, 4-55
FTS CRD System Prelaunch Tests, 4-62
FTS Design Life, 4-10
FTS Design Simplicity, 4-8
FTS Destruct Charge Qualification, Acceptance, and Age Surveillance Tests, 4-59
FTS Destruct Charge, 4-36
FTS EBW Prelaunch Tests, 4-61
FTS EBW Qualification, Acceptance, and Age Surveillance Tests, 4-59
FTS EBW-FU Qualification and Acceptance Tests, 4-59
FTS EBWs, 4-33
FTS EEDs, 4-32
FTS Electrical and Electronic Systems Design, 4-11
FTS Electrical and Optical Connector Design, 4-22
FTS Electrical Component Design Life, 4-10
FTS Electrical Connector Capacity, 4-23
FTS Electrical Connector General Design Requirements, 4-22
FTS Electrical Connector Pins, 4-22
FTS Electrical Connector Redundancy, 4-22
FTS Electrical Connector Univerifiable Connection, 4-23
FTS Electrical Connectors, 4-22
FTS Electromechanical S&A Design, 4-26
FTS Electromechanical S&A Device, EED and Rotor Lead Qualification, Acceptance, and Age Surveillance Tests, 4-59
FTS Electromechanical S&A Prelaunch Tests, 4-61
FTS Environmental Design Margin General Requirements, 4-8
FTS Environmental Design Margin, 4-8
FTS Explosive Transfer Component Qualification, Acceptance, and Age Surveillance Tests, 4-59
FTS Explosive Transfer System, 4-35
INDEX

FTS Failure Mode, Effects, and Criticality Analysis, 4-8
FTS Failure Modes, Effects, and Criticality Analysis, 4-55
FTS Fiber Optic Cable Design, 4-22
FTS Fratricide Analyses, 4-55
FTS Fratricide, 4-8
FTS General Design Requirements, 4-7
FTS High Voltage EBW System Circuitry Design, 4-13
FTS High Voltage Exploding Bridgewire Firing Units Design, 4-28
FTS Installation, Checkout, and Status, 6-3
FTS Laser Fiber Optic Cable Assembly Qualification and Acceptance Tests, 4-59
FTS Laser Firing Unit, Optical S&A, and Ordnance S&A Qualification and Acceptance Tests, 4-59
FTS Laser Initiated Ordnance System Circuit Design, 4-13
FTS Laser Systems, 4-8
FTS LID Heat Dissipation Analysis, 4-56
FTS LID Prelaunch Tests., 4-61
FTS LID Qualification, Acceptance, and Age Surveillance Tests, 4-59
FTS LIDs, 4-34
FTS LIOS Ordnance S&A Prelaunch Tests, 4-61
FTS Low Voltage EED System Circuitry Design, 4-12
FTS Monitor and Checkout Circuits, 4-16
FTS Monitor, Checkout, and Control Circuit Design, 4-16
FTS Monitor, Checkout, and Control Circuit General Design, 4-16
FTS Optical Connectors, 4-23
FTS Optical S&A Prelaunch Tests, 4-61
FTS Ordnance Component Design Life, 4-10
FTS Ordnance Components Design, 4-32
FTS Ordnance Hazard Classification and Compatibility, 4-15
FTS Ordnance Interface, 4-15
FTS Ordnance S&A General Design Requirements, 4-30
FTS Ordnance Subsystem Tests, 4-59
FTS Ordnance System Initiating Device Installation, 4-15
FTS Ordnance Train Design, 4-14
FTS Ordnance Train General Design, 4-14
FTS Percussion Activated Devices, 4-35, 4-59
FTS Piece/Part Selection Criteria, 4-11
FTS Prelaunch and In-flight Safing Design, 4-10
FTS Prelaunch Test Results, 4-4
FTS Range Prelaunch Component Tests, 4-61
FTS Range Prelaunch System and Subsystem Tests, 4-62
FTS Reliability Analysis, 4-55
FTS Reliability Goal, 4-9
FTS Reliability, 4-9
FTS Repetitive Function, 4-12
FTS Requirements Evaluation, 2-15
FTS Requirements for Manned Vehicles, 4-6
FTS Requirements for Propulsion Systems Other Than a Stage of the Vehicle, 4-6
FTS RF Link Analysis, 4-55
FTS Secure Command Receiver and Decoder Design, 4-20
FTS Secure Receiver and Decoder Prelaunch Tests, 4-63
FTS Self-Test Capability, 4-12
FTS Series Redundant Circuits, 4-11
FTS Shock and Vibrational Mounted Isolation Systems Design, 4-37
FTS Shock and Vibrational Mounted Isolation Systems Qualification and Acceptance Tests, 4-60
FTS Single Failure Point Analysis, 4-55
FTS Single Point Failure, 4-10
FTS Sneak Circuits, 4-12
FTS Software and Firmware, 4-8
FTS Standard Command Receiver and Decoder Design, 4-17
FTS Standard Configuration, 4-6
FTS Standard CRD General Design Requirements, 4-17
FTS Standard Receiver and Decoder Prelaunch Tests, 4-62
FTS Switch and Relay Selection Criteria, 4-11
FTS Testability, 4-12
FTS Tip-Off Analysis, 4-56
FTS Transient Voltage Generation, 4-11
FTS Voltage and Current Parameters, 4-11
FTS Voltage Protection, 4-11
FTS Watchdog Circuits, 4-12
FTS Wiring Design, 4-21

G

Gasoline and Diesel Powered Forklifts, 3-132
Gasoline and Diesel Vehicle Operations Approval, 6-62
General Data Requirements, 2-24
General Data, 2-20
GENERAL DESIGN POLICY, 3-2
INDEX

General Initial Shop and Field Test Requirements, 3-18
General Laser System Data Requirements, 3-23
General Periodic Test Requirements, 3-11, 3-19
General Requirements for Procedures, 6-10
General Requirements, 1-15, 2-10, 6-38
General Responsibilities, 6-2
General Test Requirements, 3-10
GENERIC PAYLOAD POLICY, 1-41
Global Positioning System, 4-44
GPS Antenna System General Design Requirements, 4-44
GPS Antenna System, 4-44
GPS Digital Translator, 4-45
GPS Qualification and Acceptance Tests, 4-60
GPS Receive Antenna System (GPS Satellite to
Launch Vehicle), 4-44
GPS Receiver, 4-46
GPS System, 4-45
GPS Translator and Receiver General Design
Requirements, 4-45
GPS Transmit Antenna System (Missile to Ground), 4-45
GPS, 4-37
Graphs, 2-21
Ground Forward Observers, 7-6
GROUND OPERATIONS GENERAL
REQUIREMENTS, 6-11
Ground Operations Personnel Requirements, 6-11
Ground Operations Plan and Hazardous and Safety
Critical Procedures, 1-18
Ground Operations Plans, 6-7, 6-66
GROUND OPERATIONS POLICIES, 6-6
Ground Operations Safety Orientation and Training, 6-11
Ground Safety, 30th Space Wing, 1-8
Ground Support Cryogenic System Flexible Hoses, 3-56
Ground Support Cryogenic System Piping, 3-54
Ground Support Cryogenic System Pressure
Indicating Devices, 3-56
Ground Support Cryogenic System Pressure Relief
Devices, 3-56
Ground Support Cryogenic System Storage Vessels, 3-54
Ground Support Cryogenic System Valves, 3-55
Ground Support Cryogenic System Vents, 3-57
Ground Support Cryogenic Systems General Design
Requirements, 3-53
Ground Support Cryogenic Systems Periodic Tests, 3-59
Ground Support Cryogenic Systems Periodic Tests, 6-37
Ground Support Cryogenic Systems Tagging, 6-37
Ground Support Cryogenic Systems Tests, 6-37
Ground Support Cryogenic Systems, 3-53
Ground Support Fixed and Mobile Hypergolic
Propellant Storage Vessels, 3-46
Ground Support Hydraulic System Accumulators and Reservoirs, 3-43
Ground Support Hydraulic System General Design
Requirements, 3-43
Ground Support Hydraulic System Pressure Gauges, 3-43
Ground Support Hydraulic System Pressure Relief Devices, 3-43
Ground Support Hydraulic System Pumps, 3-43
Ground Support Hydraulic Systems Periodic Tests, 6-36
Ground Support Hydraulic Systems Tagging, 6-36
Ground Support Hydraulic Systems Tests, 6-36
Ground Support Hydraulic Systems, 3-43
Ground Support Hypergolic Propellant System
Flexible Hoses, 3-49
Ground Support Hypergolic Propellant System
General Design Requirements, 3-45
Ground Support Hypergolic Propellant System
General Relief Devices, 3-50
Ground Support Hypergolic Propellant System
Indicating Devices, 3-49
Ground Support Hypergolic Propellant System
Piping, 3-47
Ground Support Hypergolic Propellant System
Pressure Relief Devices, 3-50
Ground Support Hypergolic Propellant System
Tubing, 3-48
Ground Support Hypergolic Propellant System
Valves, 3-48
Ground Support Hypergolic Propellant System
Vents, 3-51
Ground Support Hypergolic Propellant Systems, 3-45
Ground Support Hypergolic Systems Periodic Tests, 6-37
Ground Support Hypergolic Systems Tagging, 6-37
Ground Support Hypergolic Systems Tests, 6-37
Ground Support Pneumatic and Hypergolic
Propellant Systems Interface, 3-46
Ground Support Pneumatic System Flexible Hoses, 3-38
Ground Support Pneumatic System Indicating
Devices, 3-38
INDEX

Ground Support Pneumatic System Piping, 3-36
Ground Support Pneumatic System Pressure Relief Devices, 3-39
Ground Support Pneumatic System Regulators, 3-37
Ground Support Pneumatic System Tubing, 3-36
Ground Support Pneumatic System Valves, 3-37
Ground Support Pneumatic System Vents, 3-41
Ground Support Pneumatic Systems Periodic Tests, 6-36
Ground Support Pneumatic Systems Tagging, 6-36
Ground Support Pneumatic Systems Tests, 6-36
Ground Support Pneumatic Systems, 3-35
Ground Support Pressure System Bonding and Grounding, 3-31
Ground Support Pressure System Corrosion Control, 3-30
Ground Support Pressure System Fault Tolerance, 3-29
Ground Support Pressure System Hazard Analysis, 3-29
Ground Support Pressure System Material Selection and Compatibility, 3-29
Ground Support Pressure System Operation, 3-29
Ground Support Pressure System Repairs and Modifications, 3-29
Ground Support Pressure System Safety Factor, 3-29
Ground Support Pressure System Service Life, 3-31
Ground Support Pressure System Supports, Anchors, Clamps, and Other Restraints, 3-34
Ground Support Pressure Systems Certification Data, 3-61
Ground Support Pressure Systems Certification Files General Requirements, 3-61
Ground Support Pressure Systems Certification Files, 3-61
Ground Support Pressure Systems Component Design Data, 3-61
Ground Support Pressure Systems Data Requirements, 3-59
Ground Support Pressure Systems Design Data Requirements, 3-60
Ground Support Pressure Systems Design Requirements, 3-28
Ground Support Pressure Systems Entry and Repair Requirements, 6-40
Ground Support Pressure Systems Entry, Maintenance, and Repair, 6-40
Ground Support Pressure Systems General Data Requirements, 3-59

Ground Support Pressure Systems General Inspection, 6-35
Ground Support Pressure Systems General Maintenance, 6-35
Ground Support Pressure Systems General Operating Requirements, 6-39
Ground Support Pressure Systems General Recertification Requirements, 3-62
Ground Support Pressure Systems General Tests, 6-35
Ground Support Pressure Systems Marking, 6-39
Ground Support Pressure Systems Operating Requirements, 6-39
Ground Support Pressure Systems Operating Standards, 6-33
GROUND SUPPORT PRESSURE SYSTEMS OPERATIONS, 6-33
Ground Support Pressure Systems Personnel Requirements, 6-33
Ground Support Pressure Systems PPE, 6-34
Ground Support Pressure Systems Pressurization Operations, 6-40
Ground Support Pressure Systems Procedures, 6-35
Ground Support Pressure Systems Recertification Test Requirements, 3-63
Ground Support Pressure Systems Recertification, 3-62
Ground Support Pressure Systems Remote Pressurization, 6-40
Ground Support Pressure Systems Test Procedures and Reports, 3-61
Ground Support Pressure Systems Test, Inspection, and Maintenance, 6-35
Ground Support Pressure Systems Training and Certification, 6-33
Ground Support Pressure Systems With Liquid Propellant Operations, 6-41
Ground Support Pressure Systems With Liquid Propellants General Operating Requirements, 6-41
Ground Support Pressure Systems With Liquid Propellants Operating Requirements, 6-42
Ground Support Pressure Systems With Liquid Propellants Pre-Operational Requirements, 6-42
GROUND SUPPORT PRESSURE SYSTEMS, 3-28
Ground Support Pressure Vessel and Liquid Holding Tank Recertification Criteria, 6-38
Ground Support Pressure Vessel and Liquid Holding Tank Recertification Documentation, 6-39
Ground Support Pressure Vessel In-Service Operating, Maintenance, and Inspection Plans, 6-7
INDEX

Ground Support Pressure Vessel In-Service Operating, Maintenance, and Inspection Plans and Logs, 6-7
Ground Support Pressure Vessels and Liquid Holding Tank General Recertification Criteria, 6-37
Ground Support Pressure Vessels and Liquid Holding Tank Recertification Standards, 6-37
Ground Support Pressure Vessels and Liquid Holding Tanks Recertification, 6-37
Ground Support Pressure Vessels, 3-35
Ground Support Propellant Systems Logs, 6-8
Ground Support Systems Engineering Assessment and Analysis General Requirements, 3-62
Ground Support Systems Engineering Assessment and Analysis, 3-62
Ground Support Test Equipment, 3-122
Ground Support Vacuum System Design, 3-28
Grounding and Bonding, 3-52
Grounding Systems General Tests, 6-59
Grounding Systems Test Plan and Test Frequency Criteria, 6-59
Grounding Systems Tests, 6-59
Guyed Towers, 5-13

Handling Structures Used to Handle Non-Critical Hardware Design Requirements, 3-21
Handling Structures Used to Handle Non-Critical Hardware Initial Data Requirements, 3-21
Handling Structures Used to Handle Non-Critical Hardware Initial Test Requirements, 3-21
Handling Structures Used to Handle Non-Critical Hardware Marking Requirements, 3-21
Handling Structures Used to Handle Non-Critical Hardware Periodic Test Requirements, 3-21
Handling Structures Used to Handle Non-Critical Hardware Recurring Data Requirements, 3-21, 6-25
Handling Structures Used to Handle Non-Critical Hardware, 3-21
Hard Hats, 6-12
Hazard Analyses, 5-4
HAZARD ANALYSIS AND RISK RESOLUTION, 1-29
Hazard Assessment, 2-3
Hazard Evaluation Data, 3-24
Hazard Guards, 6-13
Hazardous (Classified) Locations, 5-9
Hazardous and Safety Critical Operations Support, 6-3
Hazardous and Safety Critical Procedures, 6-10
Hazardous Area Surveillance and Control, 7-11
Hazardous Commodities Vehicle Transportation Standards, 6-62
Hazardous Commodity Groups, 5-10
Hazardous Commodity Locker Inspection, 6-33
Hazardous Commodity Lockers, 5-13, 6-32
Hazardous Energy Sources Standards, 6-17
Hazardous Facility Inspection Records and Reports, 6-8
Hazardous Facility Inspection, 6-18
Hazardous Facility Use General Requirements, 6-18
Hazardous Ground Operations General Requirements, 6-15
Hazardous Ground Operations Training and Certification, 6-15
Hazardous Launch Area Clearance, 7-10
Hazardous Locations, Class 1, Division 1, 5-9
Hazardous Locations, Class 1, Division 2, 5-9
Hazardous Material Data Requirements, 3-27
Hazardous Materials Compatibility, 3-27
Hazardous Materials Electrostatic Build-Up, 3-27
Hazardous Materials Environmental Requirements, 3-27

H

Handling Cryogenic Liquid Spills, 6-44
Handling Leaks and Spills of Liquid Propellant, 6-43, 6-51
Handling Major Leaks or Spills, 6-44, 6-51
Handling Minor Leaks or Spills, 6-44, 6-51
Handling Structures Operating Standards, 6-25
Handling Structures Operations, 6-24
Handling Structures Used to Handle Critical Hardware Design Requirements, 3-14
Handling Structures Used to Handle Critical Hardware Design Standards, 3-14
Handling Structures Used to Handle Critical Hardware Initial and Periodic Test Requirements, 3-14
Handling Structures Used to Handle Critical Hardware Initial Data Requirements, 3-15
Handling Structures Used to Handle Critical Hardware Marking Requirements, 3-14
Handling Structures Used to Handle Critical Hardware Periodic Tests, 6-25
Handling Structures Used to Handle Critical Hardware Recurring Data Requirements, 3-15, 6-25
Handling Structures Used to Handle Critical Hardware, 3-14
INDEX

Hazardous Materials Flammability and
Combustibility, 3-27
Hazardous Materials Operating Standards, 6-31
Hazardous Materials Operations PPE, 6-31
HAZARDOUS MATERIALS OPERATIONS, 6-31
Hazardous Materials Procedures, 6-31
Hazardous Materials Selection Criteria, 3-27
Hazardous Materials Test Requirements, 3-27
Hazardous Materials Toxicity, 3-27
Hazardous Materials, 3-23, 3-27
Hazardous Operations and Prelaunch Attempts, 6-11
Hazardous Pressure System Bonding and Grounding, 3-35
Hazardous Pressure Systems Component
Identification, 3-33
Heat Pipes, 3-89
High Q Flight Region, 2-18
High Voltage Exploding Bridgewire Circuits, 3-113
High Voltage Exploding Bridgewires, 3-119
High Voltage LIOS Safety Devices, 4-13
Holdfire, 7-9
Hook Design, 3-7
Hooks, 3-18
Hot Work General Operating Requirements, 6-16
Hot Work on Containers and Lines That May Have
Contained Explosives or Flammable, 6-17
Hot Work Operating Standards, 6-16
Hot Work Operations Training and Certification, 6-
16
Hot Work Operations, 6-16
Hot Work Within Ordnance or Propellant Areas, 6-
16
Human Factors, 3-33
Hydraset and Load Cell Operating Standards, 6-24
Hydraset and Load Cell Operations, 6-24
Hydrasets and Load Cells Used to Handle Critical
Hardware Initial Data Requirements, 3-14
Hydrasets and Load Cells Used to Handle Critical
Hardware Initial Test Requirements, 3-14
Hydrasets and Load Cells Used to Handle Critical
Hardware Periodic Test Requirements, 3-14
Hydrasets and Load Cells Used to Handle Critical
Hardware Periodic Test and Inspection, 6-24
Hydrasets and Load Cells Used to Handle Critical
Hardware Recurring Data Requirements, 3-14, 6-24
Hydrasets and Load Cells Used to Handle Critical
Hardware, 3-13
Hydrostatic Testing, 3-44
Hydrostatic Tests, 3-41, 3-52, 3-58, 3-103
Hypergolic Facilities Scrubbers and Incinerators, 5-
16

Hypergolic Propellant Main and Ready Storage
Facilities, 5-15
Hypergolic Propellant Storage Facility
Compatibility, 5-15
Hypergolic Propellant Storage Facility Containment
System, 5-15
Hypergolic Propellant Storage Facility Emergency
Storage Tanks, 5-16
Hypergolic Propellant Storage Facility Fire
Protection Systems, 5-16
Hypergolic Propellant Storage Facility Gravity Drain
Sump Systems, 5-15
Hypergolic Propellant Storage Facility Leak
Detection Systems, 5-16
Hypergolic Propellant Storage Facility Ventilation,
5-15
Hypergolic Propellant Transfer Areas, 5-16
Hypergolic Storage Facility Control Room., 5-17
Hypergolic Storage Facility Personal Protective
Equipment Support, 5-17
Hypergolic Storage Facility Vapor Control Systems,
5-17
Hypergolic Vapor Detection System, 5-17

Identification and Marking of Components and
Control Panels/Consoles, 3-33
Identification of Hazardous and Safety Critical
Portions of Procedures, 6-70
Immunity to In-Band Interfering Signal., 4-46
Impact Restrictions, 2-3
Implementation of Required Changes, 1-7
In-flight FTS Safing Design, 4-10
Initial CRD RF Open-Loop Tests, 4-63
Initial Data Requirements, 3-6, 3-17
Initial Range Safety and Range User Technical
Interchange Meeting, 1-19
Initiator Electrical and Optical Circuits, 3-112
Inservice Service Operating, Maintenance, and
Inspection Plan, 3-31
Inspection and Maintenance, 3-74
Inspection Data, 3-73
Inspections for Vacuum-Jacketed Systems, 3-58
Inspections, 6-3
Installation of Permanent Anchorage Connectors, 6-
13
Intended Support Plan Data Requirements, 2-12
Interference Protection, 4-40
Internal Combustion Engine Vehicles, 6-62
INDEX

INTRODUCTION, 2-1, 4-1, 5-1, 6-1, 7-1
INVESTIGATING AND REPORTING MISHAPS AND INCIDENTS, 1-22
Items Marked With Bold Double Asterisks, 2-6

J

Jettisoned Body Data, 2-17, 2-19, 2-20
Job Safety, Fire Prevention, and Occupational Health Training, 6-11

L

L1/L2 Bandpass Characteristics, 4-46
L1/L2 Bandpass Characteristics., 4-46
Ladder Fall Protection, 6-13
Land Overflight Data, 2-19
Land Overflight, 2-3
Lanyard Anchorages, 6-13
Large Nuclear Systems Approval, 2-6
Laser Firing Unit General Design Requirement, 4-28
Laser Firing Unit Monitor Circuits, 4-29
Laser Firing Unit Remote CHARGED and DISCHARGED Indicators, 4-29
Laser Firing Unit, Optical Barrier, Optical S&A, and Ordnance S&A Design, 4-28
Laser Firing Units, 3-116, 4-28
Laser Firing Units, Optical Barriers, Optical S&As, and Ordnance S&As, 3-116
Laser Initiated Devices, 3-120
Laser Initiated Ordnance Circuits, 3-113
Laser Initiated Ordnance Operations Personnel Access Criteria, 6-57
Laser System Data Requirements, 3-23
Laser System Design Standards, 3-23
Laser System General Design Requirements, 3-23
Laser System Performance Data., 3-24
Laser System Test Requirements, 3-23
Laser Systems, 3-23
Laser Test Equipment, 3-122, 4-51
Launch Abort and Misfire/Hangfire Operations, 6-64
Launch Aborts, 7-10
Launch Aircraft Data, 2-21
Launch Area Safety, 1-13
Launch Area Surveillance General Requirements, 7-10
LAUNCH AREA SURVEILLANCE, 7-10
Launch Commit Decision, 7-4
Launch Complex Safety Responsibility, 1-15
Launch Complex Safety, 1-15

Launch Countdown Operations, 6-64
Launch Emergency Response Force and Launch Support Team Operations, 6-65
Launch Operations Approval Letter, 1-18, 7-6
Launch Operations Procedures, 6-63
LAUNCH OPERATIONS, 6-63
Launch Support, 6-3
Launch Vehicles Using Liquid Propellant Stages Abort or Misfire/Hangfire Operations, 6-65
Launch Vehicles Using Solid Propellant Stages or Solid Propellant Starting Devices Abort or Misfire/Hangfire Operations, 6-65
Launched Vehicle Data Requirements, 2-24
Lead Times, 2-6
Leak and Spill Procedures, 6-43, 6-51
Leak Tests, 3-41, 3-44, 3-52, 3-103
LERF and LST Operations Requirements, 6-65
Letter of Certification, 3-26
LFU CHARGED and DISCHARGED Indicators, 3-116
LFU General Design Requirements, 3-116
LFU Monitor Circuits, 3-116
LID All-Fire and No-Fire Levels, 4-34
LID Design Reliability, 4-14
LID General Design Requirements, 4-34
Lifting Operations, 6-25
Lifting the Load, 6-26
Lightning Protection, 5-9
Limits of a Useful Mission, 2-16
LIOS Firing Circuits, 4-13
LIOS Laser Emission Path Enclosures, 4-14
LIOS Power Sources, 4-13
LIOS Safety Devices, 4-13
Liquid Level Sensing and Indicator System, 5-17
Liquid Propellant Vehicles, 4-7
Lithium Batteries Special Requirements, 6-61
Lithium Battery Constant Current Discharge and Reversal Test, 3-129
Lithium Battery Drop Test, 3-129
Lithium Battery Short Circuit Test, 3-129
Loads, Pressures, and Environments, 3-67
Lockout/Tagout Operations, 6-17
Lockout/Tagout Procedures, 6-17
Lockout/Tagout Training and Certification, 6-17
Low Voltage EED Electromechanical S&As, 3-114
Low Voltage EEDs, 3-119
Low Voltage LIOS Safety Devices, 4-13

M
INDEX

Maintenance Squadron, 45th Space Wing, 7-3
Malfunction Turn Data, 2-17, 2-19
Man-Rated Crane Criteria, 6-28
Manual Pressure System Regulation and Control
Panel and Console Identification, 3-34
Maps, 2-16
Marine Radio Broadcast Warnings, 7-12
Marking Requirements, 3-6, 3-16
Marking Smoking and Non-Smoking Areas, 6-14
MATERIAL HANDLING EQUIPMENT OPERATIONS, 6-18
Material Handling Equipment Test Records and Overhead Crane Logs, 6-8
Material Handling Equipment Used to Handle Non-Critical Hardware General Requirements, 3-16
MATERIAL HANDLING EQUIPMENT, 3-4
Material Tests, 6-32
Mechanical Hazards, 3-23
Mechanical S&As, 3-115
Medical Group, 45th Space Wing and 30th Space Wing, 6-6
Meets Intent Certification, 1-20
Metallic Hardware, 3-71
Metallic Pressure Vessels, 3-75
Metallic Pressurized Structures with Hazardous LBB or Brittle Failure Mode, 3-84
Metallic Pressurized Structures, 3-83
MFCO Timers, 7-9
MHE Accessibility for Initial and Periodic NDE, 3-6
MHE General Data Requirements, 6-19
MHE General Operations, 6-20
MHE General Requirements, 3-5
MHE Operating Standards, 6-18
MHE Operations, 6-25
MHE Operator Qualification and Training, 6-19
MHE Operator Qualification Requirements, 6-19
MHE Operator Training and Certification, 6-19
MHE Periodic Test and Inspection, 6-19
MHE Test and Inspection General Requirements, 6-19
MHE Test Records, 6-8
MHE Used to Handle Critical Hardware Data Requirements, 3-6
MHE Used to Handle Critical Hardware General Requirements, 3-5
MHE Used to Handle Critical Hardware Identification, 3-6
MHE Used to Handle Critical Hardware Load Test Devices, 3-6
MHE Used to Handle Critical Hardware Nondestructive Examination Plans., 3-5
MHE Used to Handle Critical Hardware Single Failure Point Analyses, 3-5
MHE Used to Handle Critical Hardware Single Fault Tolerance, 3-5
MHE Used to Handle Critical Hardware Stress Analysis, 3-5
MHE Used to Handle Non-Critical Hardware Data Requirements, 3-17
MHE Used to Handle Non-Critical Hardware Identification, 3-16
MHE Used to Handle Non-Critical Hardware Load Test Devices, 3-16
MHE Used to Handle Non-Critical Hardware, 3-16
Miscellaneous FTS Component Qualification and Acceptance Tests, 4-60
Miscellaneous FTS Components Design, 4-37
Miscellaneous Requirements, 3-64
Mischiefs, 6-11
Mishap Reporting, 6-10
Mishaps and Incidents Involving Air Force Personnel and Resources, 1-22
Mishaps Involving Air Force Personnel and Property, 6-10
Missile System Prelaunch Safety Package, 1-18
Mission Flight Control Officers, 45th Space Wing and 30th Space Wing, 7-1
MISSION FLIGHT CONTROL TRAINING REQUIREMENTS, 7-13
Mission Flight Control, 45th Space Wing and 30th Space Wing, 1-8, 7-2
Mission Rules, 7-5
Mission Scrubs, 7-10
Mobile and Portable Equipment Used to Transport Cryogenic Fluids, 3-53
Mobile and Portable Ground Support Hypergolic Propellant Systems, 3-46
Mobile Crane Proof Load Test, 3-19
Mobile Cranes, 3-9, 6-23
Mobile Service Towers, 5-13
Modifications to RSS Components and Systems, 4-5
Modified and Repaired Flight Hardware Cryogenic Systems Test Requirements, 6-47
Modified and Repaired Flight Hardware Hydraulic Systems Tests, 6-47
Modified and Repaired Flight Hardware Hypergolic Systems Test Requirements, 6-47
Modified and Repaired Flight Hardware Pneumatic System Tests, 6-47
Modified and Repaired Ground Support Cryogenic Systems Tests, 6-37
## INDEX

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modified and Repaired Ground Support Hydraulic Systems Tests</td>
<td>6-36</td>
</tr>
<tr>
<td>Modified and Repaired Ground Support Hypergolic Systems Tests</td>
<td>6-37</td>
</tr>
<tr>
<td>Modified and Repaired Ground Support Pneumatic Systems Test</td>
<td>6-36</td>
</tr>
<tr>
<td>Motor Vehicle Operating Requirements</td>
<td>6-62</td>
</tr>
<tr>
<td>Motor Vehicle Operating Standards</td>
<td>6-62</td>
</tr>
<tr>
<td>MOTOR VEHICLE OPERATIONS</td>
<td>6-62</td>
</tr>
<tr>
<td>Motor Vehicle, Tanker, and Trailer General Design Requirements</td>
<td>3-130</td>
</tr>
<tr>
<td>Motor Vehicle, Tanker, and Trailer Initial Data</td>
<td>3-131</td>
</tr>
<tr>
<td>MOTOR VEHICLES</td>
<td>3-130</td>
</tr>
<tr>
<td>Motor Vehicles, Tankers, and Trailers</td>
<td>3-130</td>
</tr>
<tr>
<td>Motor Vehicles, Tankers, Trailers, and Critical Flight Hardware</td>
<td></td>
</tr>
<tr>
<td>Flight Hardware Trailer Data Requirements</td>
<td>3-131</td>
</tr>
<tr>
<td>Moving a Suspended Load</td>
<td>6-27</td>
</tr>
<tr>
<td>MSPSP Associated Test Plans and Test Results</td>
<td>3-3</td>
</tr>
<tr>
<td>MSPSP Content</td>
<td>3-2</td>
</tr>
<tr>
<td>MSPSP Data</td>
<td>3-26</td>
</tr>
<tr>
<td>MSPSP Submittal, Review, and Approval Process</td>
<td>3-2</td>
</tr>
<tr>
<td>MSPSP</td>
<td>3-2</td>
</tr>
</tbody>
</table>

### N

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Aeronautics and Space Council Compliance</td>
<td>1-17</td>
</tr>
<tr>
<td>Navy Area Crane Operator Certification</td>
<td>6-21</td>
</tr>
<tr>
<td>New, Rehabilitated, or Modified Conventional Facility and Structure</td>
<td>5-5</td>
</tr>
<tr>
<td>Design Standards</td>
<td></td>
</tr>
<tr>
<td>New, Rehabilitated, or Modified Critical Facilities and Structures</td>
<td>5-7</td>
</tr>
<tr>
<td>General Design Requirements</td>
<td></td>
</tr>
<tr>
<td>NO SMOKING Signs</td>
<td>6-14</td>
</tr>
<tr>
<td>Noise Figure</td>
<td>4-46</td>
</tr>
<tr>
<td>Nominal Mission Data</td>
<td>2-14</td>
</tr>
<tr>
<td>Nominal Trajectory</td>
<td>2-16</td>
</tr>
<tr>
<td>Non-Air Force Personnel and Resources</td>
<td>1-22</td>
</tr>
<tr>
<td>Non-Coherent Transponder Frequency Separation</td>
<td>4-41</td>
</tr>
<tr>
<td>Noncompliance Categories</td>
<td>1-36</td>
</tr>
<tr>
<td>noncompliance requests</td>
<td>1-36, 4-3</td>
</tr>
<tr>
<td>Noncompliance With the Requirements</td>
<td>1-20</td>
</tr>
<tr>
<td>NONCOMPLIANCES, submittal process</td>
<td>1-37</td>
</tr>
<tr>
<td>Non-Destructive Examination for All Crane Hooks</td>
<td></td>
</tr>
<tr>
<td>and MHE Used to Handle Critical Hardware Having Single Failure Points</td>
<td>6-20</td>
</tr>
<tr>
<td>Non-Destructive Examination Plans</td>
<td>6-7</td>
</tr>
<tr>
<td>Non-Explosive Initiators</td>
<td>3-121</td>
</tr>
<tr>
<td>Non-Flammable and Non-Combustible Pressure Piping and Tubing</td>
<td>3-35</td>
</tr>
<tr>
<td>Non-Hazardous Pressure System Design</td>
<td>3-28</td>
</tr>
<tr>
<td>Non-Ionizing Radiation Operating Standards</td>
<td>6-29</td>
</tr>
<tr>
<td>NON-IONIZING RADIATION OPERATIONS</td>
<td>6-29</td>
</tr>
<tr>
<td>NON-IONIZING RADIATION SOURCES</td>
<td>3-22</td>
</tr>
<tr>
<td>Nonmetallic Pressure Vessels</td>
<td>3-80</td>
</tr>
<tr>
<td>Non-ordnance Devices</td>
<td>4-9</td>
</tr>
<tr>
<td>Non-Vacuum-Jacketed Cryogenic Piping</td>
<td>3-55</td>
</tr>
<tr>
<td>Notice to Airmen and Mariners</td>
<td>7-12</td>
</tr>
<tr>
<td>Notification of Action</td>
<td>6-7</td>
</tr>
<tr>
<td>Notification of Hazardous and Safety Critical Operations to Range</td>
<td>6-5</td>
</tr>
<tr>
<td>Agencies</td>
<td></td>
</tr>
<tr>
<td>Notification of Work Stoppage</td>
<td>6-7</td>
</tr>
<tr>
<td>Notifications</td>
<td>6-3</td>
</tr>
<tr>
<td>Objective of the Program</td>
<td>1-5</td>
</tr>
<tr>
<td>Obtaining EOD Services</td>
<td>6-57</td>
</tr>
<tr>
<td>Offices of the Chiefs of Safety</td>
<td>1-8</td>
</tr>
<tr>
<td>Offices of the Chiefs of Safety, 45th Space Wing and 30th Space Wing</td>
<td>4-2, 7-2</td>
</tr>
<tr>
<td>Open System Work Precautions</td>
<td>6-40</td>
</tr>
<tr>
<td>Operating and Support Hazard Analyses</td>
<td>1-32</td>
</tr>
<tr>
<td>Operating Procedures</td>
<td>3-73</td>
</tr>
<tr>
<td>Operating Restrictions Due to High Winds</td>
<td>6-15</td>
</tr>
<tr>
<td>Operating Restrictions Due to Lightning</td>
<td>6-14</td>
</tr>
<tr>
<td>Operation and Maintenance Deficiencies</td>
<td>3-63</td>
</tr>
<tr>
<td>Operation Safety Facility, Complex, and Area Inspections</td>
<td>6-18</td>
</tr>
<tr>
<td>Operational Duties</td>
<td>6-6</td>
</tr>
<tr>
<td>Operational Life</td>
<td>4-45</td>
</tr>
<tr>
<td>Operations and Maintenance Deficiencies</td>
<td>6-38</td>
</tr>
<tr>
<td>Operations Groups, 45th Space Wing and 30th Space Wing</td>
<td>2-2</td>
</tr>
<tr>
<td>Operations Safety and Range User</td>
<td>6-55</td>
</tr>
<tr>
<td>Operations Safety Console General Design Requirements</td>
<td>3-3</td>
</tr>
<tr>
<td>OPERATIONS SAFETY CONSOLE</td>
<td>3-3</td>
</tr>
<tr>
<td>Operations Safety Launch Countdown General Requirements</td>
<td>6-63</td>
</tr>
<tr>
<td>Operations Safety Launch Countdown Pre-Operational Requirements</td>
<td>6-64</td>
</tr>
<tr>
<td>Operations Safety Launch Countdown, 6-63</td>
<td></td>
</tr>
<tr>
<td>Operations Safety Plans and Danger Area Information Plans</td>
<td>6-8</td>
</tr>
<tr>
<td>Operations Safety, 45th Space Wing and 30th Space Wing</td>
<td>7-2</td>
</tr>
</tbody>
</table>
INDEX

Operations Safety, 45th Space Wing and Ground Safety, 30th Space Wing, 6-2
Operations Safety, 5-2
Operations Supplement, 7-5
Operations Support and Analysis, 45th Space Wing, and Flight Analysis, 30th Space Wing, 1-10
Optic Systems, 4-13
Optical Barrier General Design Requirements, 3-116
Optical Barrier General Design Requirements, 4-29
Optical Barrier Status Indicators, 3-117, 4-29
Optical Barriers, 3-116, 4-29
Optical S&As, 3-117, 4-30
Optical/Laser Inspection, 6-30
Optical/Laser Operating Standards, 6-30
Optical/Laser Operation Personnel Protection Requirements, 6-30
Optical/Laser Operations Training and Certification, 6-30
Optical/Laser Operations, 6-30
Optical/Laser Procedures, 6-30
Orbit Parameters and Sequence of Events, 2-16
Orbital Parameters for Space Vehicles, 2-18
Ordnance and Propellant Area Parking, 6-62
Ordnance Arming and Safing Plugs, 3-114
Ordnance Component Design Data, 3-123
Ordnance Data Requirements, 3-122
Ordnance Devices, 4-9
Ordnance Electrical and Optical Circuit General Design Requirements, 3-110
Ordnance Electrical and Optical Circuit Shielding, 3-111
Ordnance Electrical and Optical Circuits Switches and Relays, 3-112
Ordnance Electrical and Optical Circuits Wiring, 3-111
Ordnance Electrical and Optical Circuits, 3-110
Ordnance Electrical and Optical Connectors, 3-111
Ordnance Electrical and Optical Monitoring, Checkout, and Control Circuits, 3-112
Ordnance Facilities Operations, 6-57
Ordnance General Classification, 3-109
Ordnance General Design Data, 3-122
Ordnance Ground Systems Design Data, 3-123
Ordnance Hazard Classification, 3-109
Ordnance Hazard Classifications and Categories, 3-123
Ordnance Initiating Device General Design Requirements, 3-119
Ordnance Initiating Devices, 3-119
Ordnance Inspection, 6-54
Ordnance NO VOLTAGE Checks, 6-56
Ordnance Operating Requirements, 6-56
Ordnance Operating Standards, 6-54
Ordnance Operations General Requirements, 6-55
Ordnance Operations Pre-Operational Requirements, 6-55
Ordnance Operations Procedure Requirements, 6-52
ORDNANCE OPERATIONS, 6-52, 6-54
Ordnance Processing Restrictions on the Use of Static-Producing Materials, 6-53
Ordnance S&A ARM and SAFE Mechanisms, 3-118, 4-31
Ordnance S&A Explosive Devices, 4-32
Ordnance S&A General Design Requirements, 3-117
Ordnance S&A Safing Pins, 3-118, 4-31
Ordnance S&A Status Indicators, 3-118, 4-31
Ordnance S&A, 3-117, 4-30
Ordnance Safety Device General Design Requirements, 3-113
Ordnance Safety Devices, 3-113
Ordnance Shipment Inspection, 6-53
Ordnance Storage, 6-53
Ordnance Subsystem Identification, 3-110
Ordnance System Design Data, 3-123
Ordnance System General Requirements, 3-110
Ordnance System Static Ground Point Test, 6-54
Ordnance Systems Grounding General Requirements, 6-54
Ordnance Systems Grounding Operating Requirements, 6-54
Ordnance Systems Grounding Operations, 6-54
Ordnance Systems Grounding PPE, 6-53
Ordnance Systems Grounding Pre-Operational Checks, 6-54
Ordnance Systems Grounding, 6-53
ORDNANCE SYSTEMS, 3-109
Ordnance Test Equipment General Design Requirements, 3-122
Ordnance Test Equipment, 3-122
Ordnance Transportation Address, 6-52
Ordnance Transportation General Requirements, 6-52
Ordnance Transportation, Receipt, and Storage Standards, 6-52
Ordnance Transportation, Receipt, and Storage, 6-52
OSC Color Television System, 3-4
OSC Communication and Video Recording, 3-4
OSC Data Requirements, 3-4
OSC Validation and Test Requirements, 3-4
OSP, 6-8
Other FTS Component Environments, 4-9
Other Hazardous Material Test Requirements, 3-27
INDEX

Other Range Safety and Range User Technical Interchange Meetings and Reviews, 1-19
Other RTS Component Environments, 4-39
Other TDTS Component Environments, 4-50
Other Tests, 4-58
Out-of-Band Signals, 4-46
Output Response Time, 4-40
Overhead Crane and Hoist 100 Percent Rated Load Tests, 3-19, 6-22
Overhead Crane and Hoist Annual 100 Percent Rated Load Tests, 3-11, 6-21
Overhead Crane and Hoist Annual No-Load Functional Test, 3-11, 6-21
Overhead Crane and Hoist Brakes, 3-9
Overhead Crane and Hoist Control, 3-8, 3-18
Overhead Crane and Hoist Design Requirements, 3-8
Overhead Crane and Hoist Emergency Lowering System, 3-9
Overhead Crane and Hoist Functional Test (No-Load), 3-19, 6-22
Overhead Crane and Hoist Grounding and Bonding, 3-9, 3-18
Overhead Crane and Hoist Initial Functional Test (No-Load), 3-10, 3-19
Overhead Crane and Hoist Limit Switches, 3-8, 3-18
Overhead Crane and Hoist Load Tests, 3-10, 3-19
Overhead Crane and Hoist Overload Indicators, 3-9
Overhead Crane Bridge and Trolley Brakes, 3-9, 3-18
Overhead Crane Bridge and Trolley Movement Marking, 3-9, 3-18
Overhead Cranes and Hoists Inspection and Test Schedule, 6-77
Overhead Cranes and Hoists Used to Handle Non-Critical Hardware Design Requirements, 3-18
Oxygen Deficiency Monitoring Systems, 5-13

Permanent Installed Portable and Mobile Pressure Vessels, 3-36
Permanently Installed Pressure Vessels, 3-35
Personal Protective Equipment, 6-12
Personnel Equipment, 6-59
Personnel Limits for Hazardous Ground Operations, 6-15
Personnel Restrictions for Hazardous Ground Operations, 6-16
Personnel Safety, 6-6
Personnel Work Platform Operating Standards, 6-25
Personnel Work Platform Operations, 6-25
Phase Jitter, 4-46
Phase Linearity, 4-46
Physical Arrangement and Human Factors Requirements for Ground Support Pressure Systems, 3-32
Physical Arrangement of Flight Hardware Systems and Components, 3-68
Piece Parts Similarity Analysis, 4-55
Pipe Fittings, 3-47
Piping and Fitting Weld Inspection, 3-48
Piping Design and Material, 3-47
Piping Design, Insulation, and Material, 3-54
Piping System Joints, Connections, and Fittings, 3-54
Plans Offices, 45th Space Wing and 30th Space Wing, 2-2
Plastic Materials Test Requirements, 3-27
Pneumatic Leak Test, 3-59
Portable and Mobile Pressure Vessels, 3-36, 3-40
Portal and Mobile Crane Load Tests, 3-19, 6-22
Portal Crane Proof Load Test, 3-19
Portal Cranes, 3-10
Positioning and Use of Hazardous Commodity Lockers, 6-32
Post-Launch Operations, 6-65
Power Source Switching, 4-45
PPE for Cryogenic Systems, 6-34, 6-46
PPE for Hydrogen Peroxide Transfers, 6-34, 6-46
PPE for Treating Spills, 6-43
PPE Lanyards, 6-13
PPE Requirements for Treating Major Spills, 6-51
PPE, 6-30, 6-61
Preclusion of Inadvertent Firing, 3-110
Pre-flight Planning Requirements, 2-25
Pre-Installation Checkout of Ordnance Items, 6-56
Prelaunch and Launch Operations, 1-11
Prelaunch FTS Safing Design, 4-10
Preliminary Flight Data Package Requirements, 2-15, 2-18, 2-20, 2-22, 2-23

P
Pathfinder Requirements, 6-15
Peak Input Voltage, 4-46
Percussion Activated Devices, 3-121
Performance data, 2-8
Periodic Test Requirements for Ground Support Hydraulic System Components, 3-45
Periodic Test Requirements for Ground Support Hypergolic Systems, 3-52
Periodic Test Requirements for Ground Support Pneumatic Pressure System Components, 3-42

Eastern and Western Range 127-1 31 October 1997
INDEX

Preliminary Flight Data Package, 2-9
Preliminary Hazard Analysis, 1-29
Pre-operational Lifting Requirements, 6-25
Presidential Directive/National Security Council 25
Compliance, 1-17
Pressure Components, 3-90
Pressure Relief Devices for Systems and Subsystems, 3-40
Pressure Vessels Designed Using ASME Boiler Code, 3-79
Pressure Vessels with Brittle Fracture or Hazardous LBB Failure Mode, 3-78
Pressure Vessels with Non-Hazardous LBB Failure Mode, 3-75
Pressure Vessels, Valves, and Other Component Identification, 3-34
Probability of Bit Error, 4-45
Procedures, 6-10
Projectile, Torpedo, Air-Dropped Body, AND Device SPECIFIC DATA REQUIREMENTS, 2-23
Propellant Description, 2-11
Public Safety, 1-11
Purpose of Obtaining Safety Approvals, 1-16
Purpose of the Chapter, 2-1, 4-1, 5-1, 6-1, 7-1
Purpose of the Requirements, 1-5

Q

Qualification Tests, 4-57
Quality Assurance Requirements, 3-72

R

Radar Surveillance, 7-11
Radiation Hazards, 3-23
Radiation Producing Equipment and Devices Data Requirements, 3-27
Radio Frequency Emitter Design Standards, 3-22
Radio Frequency Emitter Design, 3-22
Radio Frequency Emitter General Design Requirements, 3-22
Radio Frequency Emitters, 3-22
Radioactive (IONIZING RADIATION) SOURCES, 3-24
RADIOACTIVE (IONIZING) RADIATION SOURCES OPERATIONS, 6-30
Radioactive Material Launch Approval, 1-17
Radioactive Material Launches, 1-17
Radioactive Source Design Standards and Controls, 3-24
Radioactive Sources Carried on Launch Vehicles and Payloads General Design Requirements, 3-25
Radioactive Sources Carried on Launch Vehicles and Payloads Launch Approval Requirements, 3-26
Radioactive Sources Carried on Launch Vehicles and Payloads Test Requirements, 3-25
Radioactive Sources Carried on Launch Vehicles and Payloads, 3-25
Radioactive Sources Design Standards, 3-24
Radioactive Sources General Design, 3-25
Radioactive Sources Launch Approval Data Requirements, 3-26
Range Control Officers, 45th Space Wing and 30th Space Wing, 7-3
Range Prelaunch Tests, 4-58
RANGE SAFETY "CONCEPT TO LAUNCH" PROCESS, 1-20
RANGE SAFETY AND RANGE USER INTERFACE PROCESS, 1-19
Range Safety Approval of Shipment of Damaged or Rendered Safe Ordnance, 6-57
Range safety bulletin board system, 1-22
Range Safety Critical Systems, 1-12
Range Safety Display System General Requirements, 7-12
RANGE SAFETY DISPLAY System, 7-12
Range Safety Funding, 1-19
Range Safety Milestones, 1-21
Range Safety Operations Requirements, 7-5
Range Safety Ordnance Device and System Categorization, 3-109
RANGE SAFETY POLICY, 1-11
RANGE SAFETY PROGRAM, 1-4
Range Safety Range User handbook, 1-22
Range Safety System, 4-3
Range Safety Training and Certification Requirements, 1-16
Range Squadrons, 45th Space Wing and 30th Space Wing, 7-3
Range Tracking Instrumentation System, 7-6
RANGE TRACKING SYSTEM GENERAL REQUIREMENTS, 4-37
Range Tracking System Ground Rules, 4-37
Range Tracking System Performance Requirements, 2-7
RANGE TRACKING, 7-6
Range User Control Authority Responsibilities, 6-4
Range User Facility Inspections, 6-18
Range User Training Plan, 6-10
Range Users and Supporting Agencies, 1-10
Range Users, 1-3, 2-2, 4-2, 5-2, 6-4, 7-3
INDEX

Rapid Re-Lock Capability, 4-46
Rationale for the Requirements, 1-5
Reactivation, 3-74
Real Time Impact Prediction System General
Requirements, 7-7
REAL-TIME IMPACT PREDICTION SYSTEM, 7-7
Receptor Ordnance, 3-121
Recommended Structural Steel Materials, 5-8
Recurring Data Requirements, 3-6, 3-17
Reeving, 3-8, 3-18
Relationship with Range Users, 1-10
Releases of Toxic Vapors, 6-43, 6-50
Reliability and Malfunction Analysis Data
Requirements, 2-10
Relief Device General Design Requirements, 3-40
Removable, Extendible, and Hinged Personnel Work
Platform Design Requirements, 3-15
Removable, Extendible, and Hinged Personnel Work
Platform Initial Data Requirements, 3-16
Removable, Extendible, and Hinged Personnel Work
Platform Initial Test Requirements, 3-16
Removable, Extendible, and Hinged Personnel Work
Platform Periodic Test Requirements, 3-16
Removable, Extendible, and Hinged Personnel Work
Platform Periodic Test and Inspection, 6-25
Removable, Extendible, and Hinged Personnel Work
Platform Recurring Data Requirements, 3-16
Removable, Extendible, and Hinged Personnel Work
Platform Recurring Data Requirements, 6-25
Removable, Extendible, and Hinged Personnel Work
Platforms, 3-15
Rendered Safe Ordnance, 6-57
Repair and Refurbishment, 3-74
Reporting Component Failure to Meet
Specifications, 4-5
Reporting Component Failure to Meet System Test
Requirements, 4-5
Reporting In-Flight Anomalies, 4-5
Requalification or Delta Qualification Tests, 4-58
Requirements for Notice to Airmen and Mariners, 2-26
Respiratory Protection Restrictions, 6-12
RESPONSIBILITIES AND AUTHORITIES, 1-7, 2-1, 4-1, 5-1, 6-1, 7-1
Restrictions Applicable to Flight Control
Communications and Recordings, 7-4
Restrictions on the Use of Static-Producing and
Flammable Materials, 6-31
Reuse Tests, 4-58
RF Emitter Data Requirements, 3-22
RF Emitter Design and Test Data., 3-22
RF Emitter Initial Test Requirements, 3-22
RF Open-Loop Tracking System Compatibility
Verification Test, 4-66
RF Operations General Requirements, 6-29
RF Operations, 6-29
RF Overload., 4-46
RF Procedures, 6-29
RF Site Plans, 3-22
RF Transmission Operations for Electro-explosive
Devices and Open Grain Solid Propellant, 6-29
Risk Study Data Requirements For A Non-Nominal
Mission, 2-14
Risk Study, 2-8
Risk, 1-12
Risk-Cost Benefit Analysis, 1-24
Robot Systems, 5-13
RSDS Verification Test (OD-16B) Requirements, 2-26
RSS ANALYSES REQUIREMENTS, 4-54
RSS Analyses, 4-54
RSS Component and System Test Failure Reports, 4-5
RSS Component Test History, 4-4
RSS Components Provided by the Range User, 4-54
RSS Development, Qualification, Acceptance, Age
Surveillance, Reuse, and Other Test Plans, Test
Procedures, and Test Reports, 4-3
RSS Failure Analysis, 4-54
RSS General Test Requirements, 4-57
RSS Ground Support and Monitoring Equipment
Calibration Program, 4-4
RSS GROUND SUPPORT AND MONITORING
EQUIPMENT DESIGN REQUIREMENTS, 4-51
RSS Ground Support and Monitoring Equipment
General Design Requirements, 4-51
RSS Installation and Checkout Procedures, 4-3
RSS Prelaunch Test Results, 4-4
RSS Range Prelaunch Tests General Requirements, 4-61
RSS Range Prelaunch Tests, 4-61
RSS Similarity Analyses, 4-54
RSS TEST REQUIREMENTS, 4-57
RTS Analyses, 4-56
RTS Antenna Analyses, 4-56
RTS Antenna Heat Shield Fly-Off Analysis, 4-57
RTS Antenna System Prelaunch Test, 4-65
RTS Antenna System Qualification and Acceptance
Tests, 4-60
RTS Battery Accessibility, 4-48
RTS Battery Analysis, 4-56
INDEX

RTS Battery Design Life, 4-47
RTS Battery Design, 4-47
RTS Battery Electrical Characteristics, 4-47
RTS Battery Electrical Protection, 4-47
RTS Battery Identification, 4-48
RTS Battery Indepencency, 4-47
RTS Battery Initiators, 4-48
RTS Battery Monitoring Capability, 4-48
RTS Battery Prelaunch Test, 4-65
RTS Battery Pressure Relief, 4-48
RTS Battery Qualification, Storage Life Verification, and Acceptance Tests, 4-60
RTS Circuit Isolation, 4-40
RTS Component Acceleration Environment, 4-39
RTS Component Acoustic Noise Environment, 4-39
RTS COMPONENT DESIGN REQUIREMENTS, 4-40
RTS Component Maximum Predicted Environment, 4-38
RTS Component Random Vibration Environment, 4-38
RTS Component Shock Environment, 4-39
RTS Component Tests, 4-60
RTS Component Thermal Environment, 4-38
RTS Connector Capacity, 4-47
RTS Continuity and Isolation, 4-40
RTS Design Life, 4-39
RTS DESIGN REQUIREMENTS, 4-38
RTS Design Simplicity, 4-38
RTS Electrical and Electronics Systems Design, 4-39
RTS Electrical Connector Design, 4-47
RTS Electrical Connector General Design Requirements, 4-47
RTS Electrical Connector Pins, 4-47
RTS Environmental Design Margin General Requirements, 4-38
RTS Environmental Design Margin, 4-38
RTS Failure Modes, Effects, and Criticality Analysis, 4-38, 4-56
RTS General Design Requirements, 4-38
RTS GPS Open-Loop Verification Test, 4-66
RTS GPS Prelaunch Bench Test, 4-65
RTS GPS System Prelaunch Test, 4-66
RTS Piece/Part Selection Criteria, 4-39
RTS Prelaunch Test Results, 4-4
RTS Range Prelaunch Component Tests, 4-65
RTS Range Prelaunch System and Subsystem Tests, 4-65
RTS Reliability Analysis, 4-56
RTS Reliability, 4-39
RTS Repetitive Functions, 4-40
RTS RF Link Analysis, 4-56
RTS Secondary Batteries, 4-48
RTS Self-Test Capability, 4-40
RTS Software and Firmware, 4-38
RTS Switch and Relay Selection Criteria, 4-40
RTS System Compatibility Test, 4-65
RTS Testability, 4-40
RTS Transponder Prelaunch Bench Tests, 4-65
RTS Transponder Qualification and Acceptance Tests, 4-60
RTS Transponder System Level Performance Test, 4-66
RTS Transponder, 4-40
RTS Voltage and Current Parameters, 4-39
RTS Voltage Protection, 4-40
RTS Watchdog Circuits, 4-40
RTS Wiring Design, 4-46

S

Safe Operating Limits, 3-73
Safety Analysis for Proposed Work Under a Load, 6-10
Safety and Emergency Plans, 6-8
Safety Approvals Authorized by the Chief of Safety or a Designated Representative, 1-17
Safety Approvals Authorized by the DoD Explosive Safety Board, 1-17
Safety Approvals Authorized by the Wing Commanders, 1-17
Safety Assessments, 1-33
SAFETY AUTHORIZATIONS, COMPLIANCES, AND DOCUMENTATION, 1-16
S-Band Spectral Characteristics and Spurious Emissions, 4-46
SCAPE, Category I and IV, 6-45
SCAPE, Category I or IV, 6-34
Sealed Containers with Brittle Fracture or Hazardous LBB Failure Mode, 3-89
Sealed Containers, 3-89
Secure CRD Policy, 4-20
Secure Decode, 4-20
Secure Decoder ARM (Engine Shutdown) Command, 4-20
Secure Decoder Automatic RESET Command, 4-21
Secure Decoder Channel Band-width, 4-21
Secure Decoder Channel Deviation Threshold and Ranges, 4-21
Secure Decoder General Design Requirements, 4-20
INDEX

Secure Decoder Logic Sequence, 4-20
Secure Decoder Memory Life, 4-21
Secure Decoder Minimum Output Channel, 4-20
Secure Decoder Response Time, 4-20
Secure Decoder Tolerance, 4-21
Secure Decoder Tone Frequency, 4-20
Secure Receiver, 4-20
Security, 2-6
Selection of PPE, 6-34, 6-45
Sensitivity, 4-46
Sequence of Events, 2-17, 2-19
Ship Cruise Profile Information, 2-13
Ship/Aircraft Intended Support Plan Approval, 2-5
Skyscreen Operations, 7-7
Skyscreen Site Location Criteria, 7-7
Slack Rope Inspections, 6-21
Sling Assemblies Used to Handle Critical Hardware Design Requirements, 3-12
Sling Assemblies Used to Handle Critical Hardware Design Standards, 3-12
Sling Assemblies Used to Handle Critical Hardware Initial Data Requirements, 3-13
Sling Assemblies Used to Handle Critical Hardware Marking, 3-13
Sling Assemblies Used to Handle Critical Hardware Periodic Test and Inspection, 6-24
Sling Assemblies Used To Handle Critical Hardware Periodic Tests, 3-13
Sling Assemblies Used to Handle Critical Hardware Recurring Data Requirements, 3-13, 6-24
Sling Assemblies Used to Handle Critical Hardware, 3-12
Sling Assemblies Used to Handle Non-Critical Hardware Design Requirements, 3-20
Sling Assemblies Used to Handle Non-Critical Hardware Design Standards, 3-20
Sling Assemblies Used to Handle Non-Critical Hardware Initial Data Requirements, 3-21
Sling Assemblies Used to Handle Non-Critical Hardware Initial Test Requirements, 3-20
Sling Assemblies Used to Handle Non-Critical Hardware Marking Requirements, 3-20
Sling Assemblies Used to Handle Non-Critical Hardware Periodic Recurring Data Requirements, 6-24
Sling Assemblies Used To Handle Non-Critical Hardware Periodic Test Requirements, 3-21
Sling Assemblies Used to Handle Non-Critical Hardware Periodic Test and Inspection, 6-24
Sling Assemblies Used to Handle Non-Critical Hardware Recurring Data Requirements, 3-21

Sling Assemblies Used to Handle Non-Critical Hardware, 3-20
Sling Assembly Operating Standards, 6-24
Sling Assembly Operations, 6-24
Small Unguided Rockets OR Probe Vehicles SPECIFIC DATA REQUIREMENTS, 2-20
Smoking Areas, 6-14
Solid Propellant Characteristics, 2-17, 2-20
Solid Propellant Thrust Augmenting Rockets, 4-7
Solid Propellant Vehicles, 4-7
Sonic Boom Analysis Data, 2-18
Sonic Boom Data Requirements, 2-24
Special Considerations for Electro-explosive Subsystem Exposure to RF Radiation, 3-22
Special Critical Facility Systems and Structures, 5-12
Special Designated Control Areas, 7-12
Special Insulated Equipment, 6-59
Special Pressurized Equipment, 3-85
Splash Suits, 6-34, 6-45
Stabilization Time, 4-45
Standard Decoder Adjacent Channel Rejection, 4-19
Standard Decoder Channel Bandwidth, 4-19
Standard Decoder Channel Deviation Threshold and Range, 4-19
Standard Decoder General Design Requirements, 4-19
Standard Decoder Response Time, 4-20
Standard Decoder Standard Logic Sequence, 4-19
Standard Decoders, 4-19
Standard Receiver Amplitude Modulation (AM) Rejection, 4-18
Standard Receiver Capture Ratio, 4-18
Standard Receiver Continuous Wave Bandwidth, 4-18
Standard Receiver Dynamic Stability, 4-18
Standard Receiver Input VSWR and Impedance, 4-17
Standard Receiver Maximum Usable RF Input, 4-17
Standard Receiver Noise Immunity, 4-18
Standard Receiver Operating Frequency Band, 4-17
Standard Receiver Operational Bandwidth, 4-18
Standard Receiver Out-Of-Band Rejection, 4-18
Standard Receiver Peak to Valley Ratio, 4-18
Standard Receiver RF Sensitivity, 4-17
Standard Receiver Signal Strength Telemetry Output Monitor, 4-18
Standard Receiver Warm-Up Time, 4-18
Standard Receiver, 4-17
State Vector Data Rate, 4-46
State Vector, 4-46
INDEX

Statement of Post-Launch Vehicle Performance, 2-21
Statement of Program Justification, 2-9
Statement of Vehicle Performance, 2-12
Status of Previously Approved Programs, 1-6
Stiffness Requirements, 3-67
Stopping Unsafe Operations, 6-6
Storage Requirements, 3-74
Stray Current Monitors, 3-122
Structural Steel, 5-8
Submitting Change Requests, 1-40
Subsystem Hazard Analyses, 1-30
Supporting Agencies, 5-2, 6-6, 7-4
Suppression, 4-46
Surveillance Aircraft, 7-11
Surveillance Control, 7-12
Suspended Load Operations, 6-27
System Checks, 7-7
System Hazard Analyses, 1-31
System Noise, 4-46
System Safety Program Milestones, 1-28
System Safety Program Requirements, 1-20
System Safety Program Reviews and Audits, 1-28
System Safety Program, 1-26
System Validation and Functional Tests, 3-42, 3-104
System Validation Test, 3-52, 3-59
Systems Safety Section, 45th Space Wing and Flight Termination System Safety Section, 30th Space Wing, 4-2
Systems Safety, 45th Space Wing and 30th Space Wing, 1-9, 5-1, 6-1, 7-2

Tagging Requirements, 3-6, 3-16
Tailored EWRR 127-1, System Safety Program Plan, Noncompliance Requests, and Safety Training and Certification Plan, 1-18
Tailoring Process, 1-19
Tailoring, 4-3

TASK SUPERVISOR GUIDELINES, 6-84
TDTS Analyses, 4-57
TDTS Antenna Heat Shield Fly-Off Analysis, 4-57
TDTS Component Acceleration Environment, 4-50
TDTS Component Acoustic Noise Environment, 4-50
TDTS Component Maximum Predicted Environment, 4-49
TDTS Component Random Vibration Environment, 4-50
TDTS Component Shock Environment, 4-50
TDTS Component Test Requirements, 4-61
TDTS Component Thermal Environment, 4-61
TDTS Environmental Design Margin, 4-49
TDTS General Design Requirements, 4-49
TDTS General Environmental Design Margin, 4-49
TDTS In-Flight RSS Telemetry Data, 4-50
TDTS RF Link Analysis, 4-50, 4-57
Technical Interchange Meetings, 4-2
Telemetered Inertial Guidance Data, 2-8
Telemetered Vehicle Information, 2-8
Telemetry Data Requirements for Impact Prediction, 2-26
TELEMETRY DATA TRANSMITTING SYSTEM DESIGN REQUIREMENTS, 4-49
Telemetry Data Transmitting System General Description, 4-49
Telemetry Data, 2-8
Telemetry Display, 7-13
Telemetry Measurement List and Tape, 7-5
Telemetry Measurement List, 4-5
Telemetry, 4-46
Television Skyscreens, 7-6
Test and Inspection Plans, 6-7
Test Plans and Test Reports, 5-5
Test Plans and Test Results, 3-24
Test Plans, 5-5
Test Reports, 5-5
Test Requirements for Ground Support Hydraulic System Components Prior to Assembly, 3-44
Test Requirements for Ground Support Hydraulic Systems After Assembly, 3-44
Test Requirements for Ground Support Pneumatic Systems After Assembly, 3-41
Test Requirements for Ground Support Pneumatic Systems Prior to Assembly, 3-41
Test Requirements for Lithium Batteries, 3-128
Testing Flight Hardware Cryogenic System Components Prior to Assembly, 3-106
Testing Flight Hardware Cryogenic Systems After Assembly, 3-107
Testing Flight Hardware Hydraulic System Components Prior to Assembly, 3-100
Testing Flight Hardware Hydraulic Systems After Assembly, 3-100
Testing Flight Hardware Hypergolic Propellant System Components Prior to Assembly, 3-103
Testing Flight Hardware Hypergolic Propellant Systems After Assembly, 3-103
Testing Ground Support Cryogenic Systems After Assembly, 3-58
INDEX

Testing Ground Support Cryogenic Systems Prior to Assembly, 3-58
Testing Ground Support Hypergolic Propellant System Components Prior To Assembly, 3-51
Testing Ground Support Hypergolic Propellant Systems After Assembly, 3-52
Testing Ground Support Modified and Repaired Hypergolic Systems, 3-53
Testing Hooks Prior to Assembly on the Crane, 3-10, 3-19
Testing Modified and Repaired Flight Hardware Cryogenic Systems, 3-107
Testing Modified and Repaired Flight Hardware Hydraulic Systems, 3-101
Testing Modified and Repaired Flight Hardware Hypergolic Propellant Systems, 3-104
Testing Modified and Repaired Ground Support Cryogenic Systems Tests, 3-59
Testing Modified and Repaired Ground Support Hydraulic Systems, 3-45
Testing Modified and Repaired Ground Support Pneumatic Systems, 3-42
Tethering of Equipment, 6-17
The Eastern and Western Ranges, 1-1
The Eastern Range, 1-1
The Western Range, 1-3
Thermal Expansion and Contraction, 3-55
Thermal Requirements, 3-67
Time Frames and Schedules, 1-21
Time to First Fix, 4-46
TIMING, COUNTDOWN, AND SEQUENCING, 7-9
Toxicity Monitoring Systems, 5-13
Tracking Source Adequacy, 2-7
Tracking Source Independence, 2-8
Trailer Design, 5-7
Trailers Used to Transport Critical Flight Hardware Design, 3-131
Trailers Used to Transport Critical Flight Hardware Tests, 3-131
Trajectories, 2-17, 2-19
Trajectory Requirements, 2-21
Trajectory Safety Margins, 2-3
Transient Voltage Generation, 4-40
Transponder Antenna Analysis and Evaluation Data Requirements, 4-41
Transponder Antenna RF Impedance Mismatch Considerations, 4-42
Transponder Antenna System Electrical Performance, 4-41
Transponder Antenna System General Design Requirements, 4-40
Transponder Antenna System, 4-40
Transponder General Design Requirements, 4-41
Transponder Interrogation Response, 4-42
Transponder Power Source Switching, 4-42
Transponder Pulse Repetition Frequency (PRF) Response, 4-42
Transponder Random Triggering, 4-42
Transponder Receiver Bandwidth, 4-42
Transponder Receiver Decoder Immunity, 4-43
Transponder Receiver Dynamic Range, 4-43
Transponder Receiver Frequency Range, 4-42
Transponder Receiver Frequency Variation Acceptance, 4-42
Transponder Receiver Image Rejection, 4-42
Transponder Receiver Maximum Input Signal, 4-43
Transponder Receiver Off Frequency Rejection, 4-42
Transponder Receiver Pulse Code Spacing, 4-43
Transponder Receiver Pulse Width Acceptance, 4-43
Transponder Receiver RF Sensitivity, 4-42
Transponder Receiver Risetime and Falltime Acceptance, 4-43
Transponder Receiver, 4-42
Transponder RF Link Analysis, 4-41
Transponder System Delay, 4-42
Transponder System, 4-37
Transponder Transmitter Duty Cycle, 4-43
Transponder Transmitter Frequency Drift Rate, 4-43
Transponder Transmitter Frequency Range, 4-43
Transponder Transmitter Frequency Stability, 4-43
Transponder Transmitter Overinterrogation Protection, 4-43
Transponder Transmitter Peak Power Output, 4-43
Transponder Transmitter Pulse Characteristics, 4-44
Transponder Transmitter Recovery Time, 4-43
Transponder Transmitter Spectral Characteristics, 4-44
Transponder Transmitter, 4-43
Transponder, 4-41
Transportation Restrictions, 6-52
Types of Operator Certification, 6-21

U

Unique Cranes, 3-9
United States Coast Guard Support, 7-12
United States Coast Guard, 7-4
Use and Care of PPE, 6-12
INDEX

Use of 17-4PH Stainless Steel, 3-30
Use of Cast Iron, 3-7, 3-17
Use of Copper, Bronze, and Other Alloys in Hydrazine Areas, 3-35
Use of Rotation Resistant Wire Rope, 3-7, 3-17
Use of Spotters and Chocks, 6-62

V

Vacuum-Jacketed Piping, 3-55
VAFB Space and Missile Mishap Prevention Program, 6-81
Validating the Predicted RTS MPE, 4-38
Vehicle Maximum Turn Capabilities, 2-16
Video Display Systems General Requirements, 7-12
Video Display Systems, 7-12

W

Waivers, 1-20
Warning Signals, 7-11
Warning Signs., 7-11
Weather Squadrons, 45th Space Wing and 30th Space Wing, 7-3
Welding, 5-8
Wind Data Requirements for Major Launches, 2-26
Wind Effects Data, 2-21
Work Time Restrictions, 6-11
Working Under a Suspended Load, 6-27
WR Air Route Surveillance Radar, 7-11
WR Central Control Processing System, 7-9
WR Conventional Facility and Structure Seismic Design, 5-7
WR CRD Prelaunch System Tests, 4-62
WR Critical Facility and Structure Seismic Design Requirements, 5-12
WR Design Criteria for Equipment That Can Cause Seismic Hazards, 3-138
WR First Use Tag Program, 6-23
WR Flight Termination Unit, 7-9
WR Launch Facility RSS Repeater System, 4-54
WR OSC Controls, Monitors, and Communication Lines, 3-4
WR Prelaunch Bench Tests, 4-62
WR RSS Components Provided by the Range User, 4-54
WR RTS Antenna Analysis and Data Requirements, 4-56
WR Safety Console and RSS Repeater System, 4-52
WR Safety Console Communications, 4-53

WR Safety Console RTS Pre-Flight and In-Flight Telemetry Monitors and Controls, 4-53
WR Safety Console General Design, 4-52
WR Safety Console RTS Pre-Flight and In-Flight Telemetry Monitors, 4-53
WR Secure CRD Post-Flight Open-Loop Verification Test, 4-64
WR Seismic Design Data Requirements, 3-139
WR Seismic Design Standards, 3-138
WR Seismic Design, 3-138