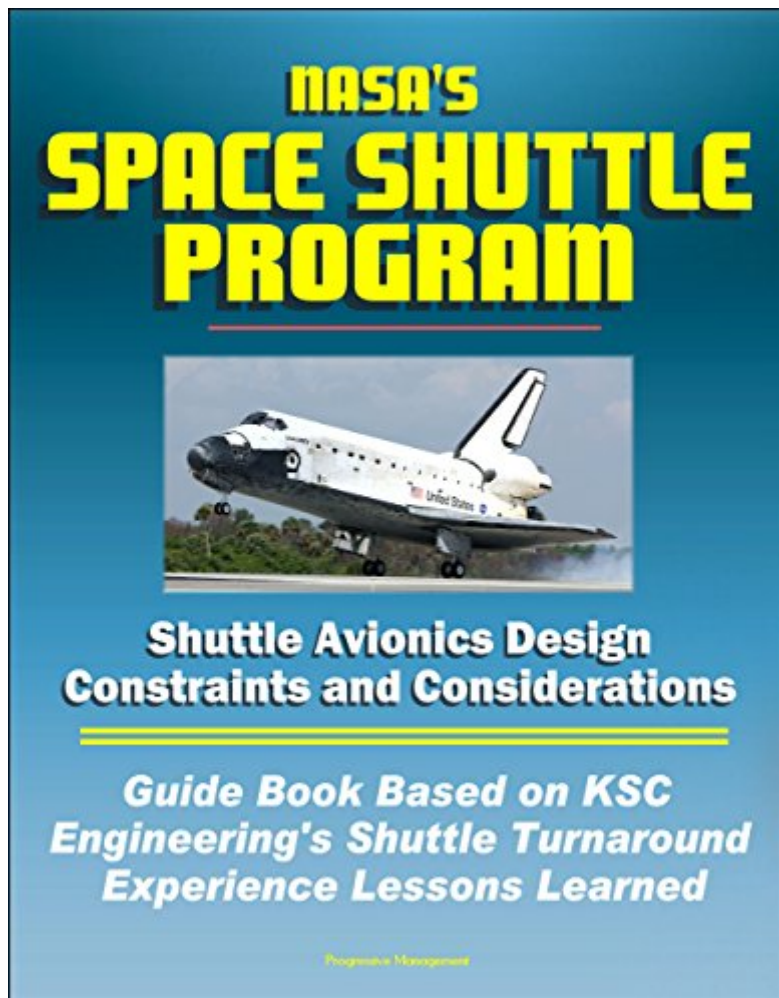




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NASA's Space Shuttle Program: Shuttle Avionics Design Constraints And Considerations - Guide Book Based On KSC Engineering's Shuttle Turnaround Experience Lessons Learned





Synopsis

This unique NASA report provides information and lessons learned from shuttle avionics testing constraints. Objective - Consolidate within one report the operational Constraints and Considerations for launch site testing of the present Shuttle Avionics systems. Constraint - Testing that requires special vehicle configurations and ground support equipment configurations. Consideration - Testing configurations that have driven special infrastructure/ resource requirements, or have high failure rates. Purpose - To provide to the designers of future avionics systems the information required to possibly design out these concerns. Contents: GENERAL * 1. INSTRUMENTATION COEFFICIENTS * 2. TELEMETRY DATA AVAILABILITY * 3. AVIONICS COOLING * 4. CONNECTOR RETEST * 5. CONNECTOR MATED INDICATION * 6. PARALLEL SWITCH CONTROL * 7. MAN-IN-THE-LOOP * 8. AVIONICS LRU ACCESS / MOUNTING * 9. AVIONICS LRU FASTENING DEVICES * 10. AVIONICS LRU GROUND HANDLING EQUIPMENT * 11. AVIONICS BITE / TEST POINTS * 12. CRITICAL REDUNDANT POWER VERIFICATION * 13. SOFTWARE IN END-ITEM * 14. LOCAL OPF OPERATION * 15. UNPLANNED WORK * 16. VENDOR DRAWINGS * 17. HYDRAULICS * DPS * 1. MEMORY DUMP & COMPARE * 2. MASS STORAGE DEVICE CAPABILITY * 3. GPC MULTIPLE MEMORY CONFIGURATIONS * 4. LAUNCH BUS SPEEDUP * 5. MDM RETEST * 6. CRT VIDEO OUTPUT * GNC * 1. INDEPENDENT CONTROL OF ACTUATOR POWER * 2. ENGINE COLLISION * 3. SSME HYDRAULIC CIRCUITS ISOLATION * 4. ENGINE CHANGEOUTS DRIVE CLEARANCE TESTS * 5. SRB TVC FLEX BEARING RESTRICTION * 6. SRB NOZZLE FLEX BEARING TEMPERATURE * 7. EXCESSIVE AEROSURFACE POSITIONING REQUIREMENTS * 8. NOSEWHEEL STEERING (NWS) TESTING * 9. BRAKES/ANTI-SKID MAINTAINABILITY * 10. REACTION CONTROL SYSTEM (RCS) VERNIER DRIVERS * 11. RCS DRIVERS-DRIVER POWER ACTIVATION * 12. ACCELEROMETER ASSEMBLIES (AA) INACCESSIBLE * 13. IMU HEALTH ASSESSMENT * 14. STAR TRACKER LENS & LIGHT SHADE INSPECTION * 15. STAR TRACKER CONTAMINATION * 16. ENTRY AIR DATA SENSORS UNDEPENDABLE * 17. DEPLOYABLE ENTRY AIR DATA PROBES * TELECOMM * 1. HOLLOW RF WAVEGUIDES THAT PENETRATE PRESSURIZED STRUCTURE * 2. HAZARDOUS RF SYSTEMS & GROUND ANTENNA COUPLER REQUIREMENTS * RMS * 1. AUDIBLE TESTING * SSME * 1. SSME INSTRUMENTATION CALIBRATION COEFFICIENTS * GLOSSARY/ACRONYMS

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