

SHUTTLE SERIES
ORBITER TECHNICAL STATUS REVIEWS

Orbiter Technical Status Reviews (TSR) documents are organized chronologically by the date that the review actually took place. They run from 1981 through 1986. They are contained in seven linear feet of material consisting of presentation material, minutes and correspondence. This is a preliminary inventory. Material has been kept exactly the way in which it was received.

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Lear Siegler Test Point Coupling; OMS Pod Skin Damage; OMS/RCS Pod Interchangeability; APU Water Valve Failures	July 18, 1984
EVA Operational Slidewire System; Bray / Royal Hydraulic Fluid Mixture; Operational Control of Surface Roughness	July 20, 1984
Main Landing Gear Brakes; Thermal Window Test Anomaly	July 24, 1984
Added WSB Instrumentation on OV- 102; WSB Steam Vent Temperature LCC Violations	July 25, 1984
OMS Pod Attachment Pt 6 Load	August 1, 1984

Indicator; Evaluation of jC-9 Ceramic Coating on Nextel Components	
Orbiter Windows Contamination Seal Usage	August 1, 1984
Evaluation of Wing Tip Aerothermal Seals	August 3, 1984
TPS Enhancement	August 8, 1984
Evaluation of C-9 Ceramic Coating on Nextel Components; OV-102 Forward Fuselage Heat Sink	August 13-14, 1984
Understrength Forward ET/Orbiter Multi-piece Bearing; Understrength Active Keel Latch	August 15, 1984
OV-102 Additional OMS Effort AA Mod Period; Thermal Window Concerns; ET Umbilical Cavity Ferry Door Installation Turn Around Time Improvement; Limit Switch Contamination Problem	August 17, 1984
Hydraulic GSE Quick Disconnect Leakage; Wing Load Reduction Design Alternatives "Wing Spoiler Study"	August 24, 1984
Ice Impact Tests	September 11, 1984
Orbiter Vehicle Corrosion	September 13, 1984
Proposed OMS/RCS Follow-on Test Program Extension at WSTF	September 19, 1984
External Tank Disconnects, Removal of Super Lightweight Thermal Protection; Re-Test F FA05 Beany Cap Acoustic Test Article; OMS Pod Beef - up Study	September 25, 1984
SubHeading:	Box Number: 11
Tile Movement Due to Gap-Filler Installation	October 3, 1984
Wing Tip Aerothermal Seals; Uninsulated Areas of Xo273 Bulkhead and NLG Door Hinge Arms; Ingress / Egress Hatch Hold Open Latch	October 10, 1984
FAD 9B Flight Derived Aerodynamic Assessment Deltas	October 1984
OV-104 PRSD Subsystem Tank Set 5 Initial Installation; PLBD Hinge Cover Interference	November 6, 1984
OV-099 OMS Pod Fit 6 (Skin Damage)	November 9, 1984
Installation of LO2 Prevalve Anti-Slam Actuators on OV-102; OV-102 Wing Load Calibration Check Loading for Flight #7	November 13, 1984
Brake / Skid Control System	November 14, 1984
MPS GO2 Flow Control Valves (FCV)	November 27, 1984
Early Assessment of 51E Heavyweight Abort Landing	November 28, 1984
Main Landing Gear Axle; Thermal Envelope Expansion	December 12, 1984
WTR Measurements	December 11, 1984
Rockwell Standard Dry Lubed Bleeder Plug Torque Problems; M&P Issue Reusability of Self Locking Fasteners; Aft Fuselage Main Pump System Flex Hose Support	December 14, 1984
Proposed Revisions to OV-103 / 104 Redlines Due to OCA 'C' Assessment; AFA-12 Acoustic Test	December 18, 1984
MCR11075 - Modification of Flight Deck Shear Panels for In-Flight	January 17, 1985

	Access to Avionics Air Filters; Orbiter Oxygen Sensing System	
	Proposal - Redesign Oxygen Pressurant Flow Control Valve	January 25, 1985
	Payload Bay Hypergolic Detection and Fire Suppression Systems; fuel Cell Water Nozzle Redundancy; RCS Primary Thruster Instability Resolution; Repair of Ceramic Coated AFRSI	January 31, 1985
	AC Motorvalve Switch Retrofit; Increased AC Motor Valve HE Load Limit; Galileo / Ulysses Waterline Freeze-up During Fuel Cell Tank CRYO Loading	February 7, 1985
	Load Limiter Deletion P/L Retention Latch	February 11, 1985
	Aft Fuselage Main Pump System Flex Hose Support; Installation of Location A Tiles	February 28, 1985
	Evaluation of SOS Forward ET Bolt Proof Load Testing	February 25, 1985
	Centaur Payload Integration Wire Harness Support at Xo 1307 Bulkheads; Centaur / Orbiter LH2 Ascent Venting	March 20, 1985
	Main Gear Wheel Drive Log Channel; Remove flight Numbers from Modifications to Mission Equipment and Model MV0434A & Tech Orders for Special KSC Installations	March 29, 1985
	ET Acreage Ice Hazard to Orbiter TPS	April 1, 1985
	OMS Engine Flange Leakage Requirements	April 3, 1985
	Brake Instrumentation Changes; Thermal Instrumentation for CG Expansion & TPS Health & Life	April 10, 1985
	Ceramic Adhesive for Lower Surface Gap Fillers	April 18, 1985
	6.0 Loads Cycle - External Load Calculations; Liner Interferences / Contamination	May 14, 1985
	Ground Positioning of Orbiter Secondary Latches; EVA Camera Bracket; Forward Stabilizer Link Interference	May 22 & 31, 1985
SubHeading:	Box Number: 11 *	
	Mid-Fuselage Modifications for Payload Mission Kit * This 12 page document has been scanned	October 24, 1984
	Lower Mid-Fuselage Torsional Restraint * This 7 page document has been scanned	May 2, 1985
SubHeading:	Box Number: 12	
	Aerothermo / PAR KSC	June 4, 1985
	Proposal: Oxygen Pressurant Flow Control Valve; Corrective Action for OMS Propellant Quantity Gaging (PQGS)	June 6, 1985
	RCS Thruster and OME Nozzle Coating Repair; Orbiter TCS REquirements Support Bracket Insulation / Tape Review for VCR 10611; 8 Inch Disconnect Reconfiguration	June 12, 1985
	Orbiter / ET Aft Attach Pinched Wire; Orbiter / ET Separation System Review; Orbiter / ET Separation System Review: Visual Aid on Spherical Washer Orientation;	June 19, 1985

Resolution of the Angular Rotation Limits on Forward Joint; Multi Piece Bearing Proof Load Test	
Payload Bay Vent Flow Tests; Filter Protection for FCL Payload Head Exchanger & RFCA; Pre Roll Main Gear Tiers	June 20, 1985
6.0 Loads / Stress Cycle Status and Review	June 24, 1985
OMS Pod Skin Graphite - Bismaleimide (Solid Laminate) Delivery Date Options	July 19, 1985
MLG Axle Deflection Test; MLG Axle Stiffness/Weight Increase	July 31, 1985
CTF Mass Properties Biasing; Purge Circuit #2 Proof Pressure Test Failure	August 1, 1985
Aft Heat Shield Thermal Environment Recertification; Light Weight Engine Mounted Heat Shield (LW EMHS) Over Temperature Problem on OV-104	August 2, 1985
OMS Pod Skin Graphite - Bismaleimide (Solid Laminate) Delivery Date Options	August 7, 1985
Landing Gear Skid	August 7, 1985
TPS Roughness; Simplified Heating Model Control Point #1	August 13, 1985
Brake Contamination	August 14, 1985
Application of High Emissivity Coating on Silts Pod Gap Fillers	August 21, 1985
Rockwell Orbiter Support to the Bars MKKP Data Base	August 28, 1985
Landing Gear Skid; Gear Load Reduction Study; Orbiter OV-103 1307 Bulkhead Pressure Loading Quick Look Review	August 29, 1985
RTV Use on Threaded Fasteners; Bent Springs - Orbiter Umbilical Curtain	September 3, 1985
ARCS Propellant Tank Heater Control Modification	September 6, 1985
Evaluation of Test Failure of Lightweight Keel Latch	September 13, 1985
Fuel Cell Instrumentation	September 19, 1985
MLG Load Relief Study (Phase 1)	September 24, 1985
Orbiter Wing Leading Edge Incoflex Insulators	September 28, 1985

SubHeading:

Box Number: 12 *

OMS Pod Y-Web Door Carrier Plate Failure; MPS Pneumatic System Surge Tanks and Tank Support Structure Clearance; OMS/RCS AC Motor Valve Indication Switch Retrofit *	June 25, 1985
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SubHeading:

Box Number: 13

Forward ET Attach Panel	October 4, 1985
APU Controller Bite Anomaly	October 10, 1985
Proposed Certification Test New TPS Rewaterproofing Material	October 15, 1985
OMS Engine Nozzle Flange Waviness	October 29, 1985
Relocate of TPS Measurements	November 27, 1985
Fluid Dump Study	December 3, 1985
Rewaterproofing OV-104	December 16, 1985

MLG Emergency Skids MCR 11573, Feasibility Study Report	December 20, 1985
OV-102 Purge Circuit #2 Proof Pressure Failure	January 9, 1986
Thermodynamic Design Data Book Update OV-099 / OV-102; Thermal Control System	January 23, 1986
OV-103 AFRSI Screed Anomaly	March 6, 1986
OV-099 Flight 8 Hatch A Did not Align with Airlock Aperture During Closing Cycle	March 27, 1986
Centaur GH2 Inflight Vent in Vertical Tail Assembly	April 17, 1986
Fuel Cell Flowmeter Transistor Mounting Change	April 29, 1986
Orbiter / Payload Retention Hardware, Dry Film Lube Issue	April 1986
P/L Bay Window Contamination; Dynaring Seals Repair Procedures; Wing / Elevon Lower Cove Redesign; Orbiter Chin Area	May 21, 1986
Rework MLG / Door Retract Mechanism; OV-103 GSE Heat Exchanger; High Temperature Teflon Coated Seal	June 12, 1986
Emergency Egress Slide; Ingress / Egress Hatch Tool	July 16, 1986
Review of Orbiter Primary Structural Joint Attachments	July 23, 1986
APU Fuel System O-Rings; Udimet LX Turbine Housings for Baseline APU	August 13, 1986
Potential Orbiter Structural Problems Due to Unapproved Assembly Drilling Coolant	August 19, 1986
Tile Coating Furnace Qualification and Certification	August 29, 1986
Thermal Analysis TPS MR/DR Data Base Update	August 29, 1986
Production Thermal Design Data Books	August 29, 1986
Alternate Fuel Cell Water Delivery Configuration	September 2, 1986
RM vs Power Leads	September 5, 1986
ET Umbilical Insert Problem and Flange Joint Integrity	September 9, 1986
ET / Orb-ET 2 Inch Disc Seal Problem, 2 Inch GO2 Pressurization System	September 9, 1986
Fuel Cell Operational Improvements; APU Drain Line Heater Safety Concern	September 18, 1986
APU Detection	October 6, 1986
Orbiter Contamination Control	October 17, 1986
Reduced Cabin Pressure Certification for EVA Operations	October 17, 1986
Orbiter Main Propulsion System Pressure Transducer Failure	October 21, 1986
Re-evaluate Criticality of LH2 and LO2 MPS Fill / Drain Valves for Aborts	October 21, 1986
Quality Dynaring Seals for Use on Damaged Dynatube Fittings	October 23, 1986
OMS/RCS Corrective Actions and Retrofit	October 24, 1986
Brake Pressure Reduction at Flat Tire	October 24, 1986

SubHeading:

Box Number: 13 *

	Aft Fuselage / Vertical Tail for 6.0 Loads Evaluation * This 39 page document has been scanned	September 11, 1986
SubHeading:	Box Number: 14	
	Stowage Locker Door Latch Re-Design & Hinge Modification	November 3, 1986
	Increase Permissible Tile Corner Equivalent Roughness in Lower Surface Region A	November 7, 1986
	TSR CCTV Camera Mounts Bonded vs Bolted Attachment, MCR 11989	November 7, 1986
	Main Gear Axle Plating Study	November 17, 1986
	PRSD Hydrogen Tank Pressure Relief Vent System Operation During Tank Vacuum Jacket Failure	November 18, 1986
	PRSD Subsystem Beech Aircraft Capability Retention	November 18, 1986
	Suspension Strap Limited Life Investigation and Ten Year Recertification	November 18, 1986
	RCS Primary Thruster Combustion Instability Protection System	November 20, 1986
	Non-Asbestos Structural Film Adhesive	November 26, 1986
	Side Hatch Window Cover Design Study	December 2, 1987
	RCS Propellant Tank Jet Constraints	December 2, 1986
	CCTV Camera Mounts Bonded vs Bolted Attachment	December 3, 1986
	AC Motor Valve Oxidizer Bellows Leakage Issue	December 3, 1986
	AC Motor Valve Oxidizer Bellows Leakage Issue	December 5, 1986
	Power Reactant Storage & Distribution (PRSD) Disconnect Spring Anomaly	December 15, 1986
	Orbiter Contamination Control A. Redesign of Avionics Air Cooled LRU Filters	December 15, 1986
	MLG Wheel Spin Up (Reboard)	December 15, 1986
	MLG Door Booster Redesign Study	December 15, 1986
	MPS GH2 Pressurization Flow Control Valve Rubber O-Ring Seal	December 15, 1986
	Main Gear Stiffened Axle Plating	December 16, 1986
	Roll-on-Rim Study	December 16, 1986