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Panel Session II - Kennedy Space Center Return to Flight Activities

James W. Kennedy

Director, Kennedy Space Center, NASA

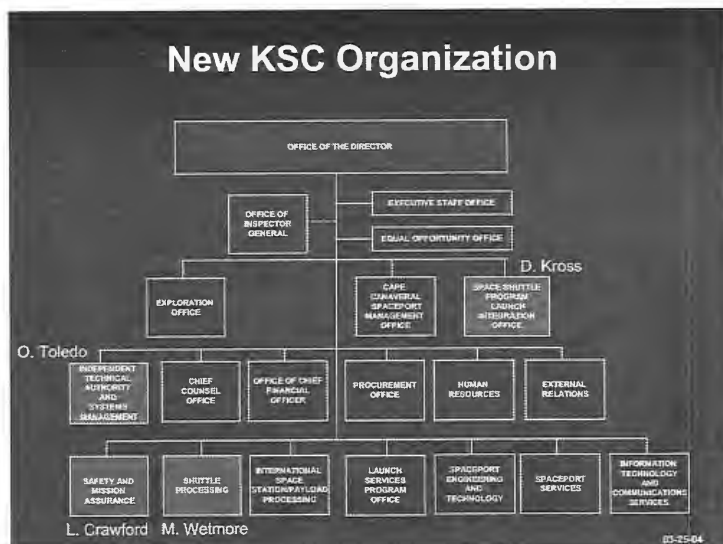
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- ### CAIB Recommendations
- *3.2-1 ET Thermal Protection Sys Mods
 - 3.3-4 RCC Database
 - *3.3-2 Orbiter Hardening
 - *3.4-1 Ground Based Imagery
 - *3.4-3 On-Vehicle Ascent Imagery
 - 3.8-1 RCC Spares
 - *4.2-1 Solid Rocket Booster Bolt Catcher
 - *4.2-3 Closeout Inspection
 - *6.2-1 Scheduling
 - *10.3-1 Digitize Closeout Photographs
 - *3.3-1 RCC Nondestructive Inspection
 - 3.3-5 Minimizing Zinc Primer Leaching
 - 3.3-3 Entry with Minor Damage
 - *3.4-2 ET Separation Imagery
 - 3.6-1 Update Modular Aux Data Systems
 - 3.6-2 Modular Aux Data System Redesign
 - 4.2-2 Enhance Wiring Inspection Capability
 - *4.2-5 Foreign Object Debris Processes
 - 9.2-1 Mid-Life Recertification
 - 10.3-2 Engineering Drawing Update
 - 3.8-2 Thermal Protection System Impact Damage Computer Modeling
 - 4.2-4 Micrometeoroid and Orbital Debris Risk
 - *6.3-1 Mission Management Team Improvements
 - *6.3-2 National Imagery and Mapping Agency MOA
 - *6.4-1 Thermal Protection System On-Orbit Inspection & Repair
 - 7.5-1 Independent Technical Engineering Authority**
 - 7.5-2 Safety and Mission Assurance Organization
 - 7.5-3 Reorganize Space Shuttle Integration Office
 - *9.1-1 Detailed Plan for Organizational Changes
- * RTF Constraint

Raising The Bar

SSP-1 Quality Planning and Requirements Document/Government Mandated Inspection Points

*SSP-2 Public Risk of Overflight

SSP-3 Contingency Shuttle Crew Support

*SSP-4 Acceptable Risks Hazards

*SSP-5 Critical Debris Sources

*SSP-6 Waivers, Deviations, and Exceptions

*SSP-7 NASA Accident Investigation Team Working Group Findings

*SSP-8 Certification of Flight Readiness Improvements

*SSP-9 Failure Mode and Effects Analysis/Critical Items Lists

SSP-10 Contingency Action Plans

SSP-11 Rudder Speed Brake Actuators

SSP-12 Radar Coverage Capabilities and Requirements

SSP-13 Hardware Processing and Operations

*SSP-14 Critical Debris Size

*SSP-15 Problem Tracking, In-Flight Anomaly Disposition, Anomaly Resolution

Return To Flight Status OV-103 Discovery



Key Activities

- Reinforced Carbon-Carbon Panel Remove/Replace
- Rudder Speed Brake Actuator Remove/Replace
- Enhanced Launch Vehicle Imaging System (ELVIS)
ET camera, ET observation Camera, SRB observation
- ET Bipod Heater Redesign
- Return to flight instrumentation
- Inspection Boom and instrumentation
- Flexhose Inspection/Replacement



NASA's organizational culture had as much to do with this accident as foam did.

CAIB Report
Aug 2003

To The Moon, Mars, and Beyond..

President George W. Bush, Jan 14, 2001

