

FREEDOM OF INFORMATION ACT (FOIA)

SUMMARY OF REQUESTS CURRENTLY BEING PROCESSED RELATED TO STS-107 COLUMBI

As of 2/19/03

Correspondence & Other Documents

Records to/from Congress re: shuttle program for past 5 years
Appointment books, calendars and logs of Administrator O'Keefe and Frederick D. Gregory since their arrival at NASA
Correspondence during last 15 years with Lockheed-Martin or other contractors involved in thermal insulation systems on external tanks
Correspondence relating to Johnson Controls, Inc. performance in providing launch pictures
E-mails or documents regarding the Mission Evaluation Team's assessment of any damage to STS-107
Emails from Langley to JSC or HQ dealing with wheel well scenarios, written by engineer Robert Daugherty
Print and electronic communications between NASA KSC and USA regarding thermal protection issues since 1999
Information relating to communications between JSC and Rockwell Int'l regarding thermal protection issues since 1999
Print and electronic info relating to all thermal protection system incidents involving the shuttle fleet since 1992
All documents, audio recordings and paper transcripts of flight director loop,
Pre-launch presentations, meeting minutes re: External Tank, Solid Rocket Booster, Solid Rocket Motor, and Space Shuttle Main Engines
Letters, memos, etc. from Columbia Accident Investigation Board (CAIB) to NASA and the crew's family members
Letters, etc. to (CAIB) from members of Congress
Contract and suppliers involved in creating the foam insulation used on external fuel tanks
Memos sent to NASA employees or NASA contractors regarding the preservation of material and information
Explanation as to the rationale behind choosing the Israeli to be on Shuttle mission

Crew Communications

Emails with attachments generated by the crew members during the mission
Audio tapes and/or transcripts of conversations with crew and flight directors

External Tank

Orbiter External tank integration issues, external insulation issues since 1/1/02
Name & contact for NASA engineer who issued memo about the danger of external tank insulation
Review of foam debris shed during launch of STS-107
Inspection reports on external tanks KSC & JSC reports
Written transcript & audio recordings of all meetings following launch re: external tank damage during launch
External fuel tank & insulating foam and info on tank over last two decades
Manufacturing Process Plan for the external fuel tank and all non-conformance documents
External Tank System Definition Handbook
Thermal Protection System (TPS) used on external tank of missions from 1990 to present; changes in insulation usage
Transit damage or other unusual happenings to external tank
Task force and team reports regarding Orbiter & External Tank integration issues
Correspondence involving MSFC regarding recommendations or concerns over the loss of foam insulation
Polymeric Isocyanate used on the 'external tank'

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Mission Control Reports

List of staff on duty and their assignment in Mission Control at JSC during the re-entry of the Space Shuttle Columbia

Mission Evaluation Room Reports for STS-109, STS-93, STS-90, and STS-87, STS-50, STS-107, STS-112

Various reports: 1992 Atlantis flight; 2000 March study on leading edge damage impact conducted by Boeing; 1984 shuttle mission

General and specific mission rules related to Columbia (STS-107) mission

NASA video of Columbia's Mission Control taped during the final moments of the flight

Mission evaluation summaries for each day of the mission: Jan 16 - Feb 1, 2003

Minutes, transcripts or other records related to any discussions held by STS-107 mission managers and/or other personnel

Immediate access to and/or copies of the minutes for the mission management team meetings for STS-107

General and specific mission rules relating to the Space Shuttle Columbia mission 1/16/03

Mission Management Team minutes; Shift reports from Mission Evaluation Room Team

Safety Concerns

Safety waivers issued for last 5 flights; safety waivers re: External Fuel Tank

Warnings by Don Nelson

MER

Safety of launch & landing

Reports, results, follow-up on STS-87 investigation

Records on decision not to abort mission

Documents from NASA or contractor employees expressing safety concerns since 1992

Safety waivers issued during the last 5 flights

Records pertaining to the Aerospace Safety Advisory Panel (ASAP)

Reports from the Advisory Panel on safety

Documents & information reporting of in-flight anomalies for STS-1 through the most recent mission

Thermal protection system incidents involving the shuttle fleet since 1992

Safety features NASA has in place

NASA safety reporting system database described by Ron Dittmore

Related concerns involving the heat retardant tiles

Dangers of Polymeric Isocyanine if 'air borne' over populated areas.

Shuttle/Orbiter

Hard Copy of the Space Shuttle Reference Manual

Scientific Research Data that was aboard the Columbia at the time of her loss

Space Shuttle Contingency Plan

Technical Reports

Records relating the development of the Electronic Inspection and Mapping System
Inspection reports of Columbia during its lifetime, records to & from Boeing
Records prepared by the Ice & Debris team at KSC related to all launches
Debris/Ice/TPS assessment and Integrated Photographic Analysis of Shuttle Missions
COLUMBIA Reports done by Boeing
Copy of Southwest Research Institute Report
Technical paper co-authored by Joseph Ferguson on ascent trajectories
Mission Management Team regarding the debris analysis
Lessons Learned reports
"Debris/Ice/TPS Assessment Report for STS-112", by Jorge Rivera at KSC.
Flight Readiness Reviews conducted post and pre-flight for STS-102 through STS-113
Space Shuttle Normal and Emergency check-lists and Procedures Manuals
COLUMBIA Telemetry measurements for STS-107
Document ID: 19990076704, Fayssal M. Safie, MSFC, Jan 1, 1998, Risk assessment
1995 report entitled, "Space Shuttle Orbiter Thermal Protection System Processing Assessment Final Report"
Study performed by Arnold Engineering Development Center re: external tank foam in or about 1999
Discrepancy Reports from Lockheed Martin's manufacturing facility in Michoud, LA
Inspection reports on the space shuttle external tanks used on STS-107, STS-112 and STS-87
Studies and reports on the problem of foam insulation falling off the external tank of the space shuttle during flight
OMI S6444 (Operations and Maintenance Instruction S6444 for Final Inspection (Ice and Debris) team) for STS-50
Documents/reports generated by MSFC concerning ET insulation studies
Records pertaining to NASA's acceptance external fuel tank from contractor Lockheed Martin
Task force and team reports regarding external insulation issues since January 1, 2002
Reports generated by MSFC of recommendations for preventing insulation detachments
Report "Orbiter Assessment ET Bipod Insulation Ramp Impact"
ET Bipod Insulation Ramp Impact Reports
Debris/Ice TPS Assessment Analysis Reports for STS-113 and STS-109
Reports of discrepancies in the Orbiter Maint. & Mods for the OV-102 performed in 2002 at Palmdale, CA and at KSC
Lessons Learned- A Technical History of the External Tank -- by Mike Pessin
Contract with United Space Alliance

Tiles

Copy of Carnegie Melon/Sanford University Report (1990) - Study of Tiles
Documents concerning damage to heat resistant shuttle tiles
Documents and/or audio-visual materials relating to the STS-112, focusing on the loss of heat retardant tiles

Wheel Well

Diagram of the wheels and wheel well areas of the Shuttle
Technology of the temperature sensors that were used in the Shuttle's wheel wells

