

Camomilli-1, Guy, 10:31 AM 2/3/2003 -0500, RE: airborne sensor to detect/map Colombia debris

>>Hi Mr. O'Connor,

>>

>>Our group works with an airborne remote sensing instrument that is used to  
>>detect and map gases real-time, such as those potentially leaking from  
>>Colombia debris. It can also identify solid-phase materials. The sensor  
>>\_\_\_\_\_ is used for Department of Defense  
>>and is particularly sensitive to searching for small gas-phase plumes. It  
>>has flown for several years in intensive DoD/  
>>also mapped the World Trade Center debris field. It's primary strength is  
>>aiding a focused search of selected areas, including regions that are  
>>difficult to search by land.

>>

>>We are willing to aid the Colombia search and mapping effort, but we are not  
>>trying to push ourselves into the recovery process. Rather, we are  
>>indicating that we have some potentially helpful airborne technology and  
>>would provide assistance if asked. We calculated \_\_\_\_\_ sensitivity for  
>>the gases of interest, and I will send that and additional information if it  
>>is helpful. \_\_\_\_\_ is an airborne thermal infrared hyperspectral scanner.

>>

>>Sincerely,

>>

>>\_\_\_\_\_

>>Lunar and Planetary Institute  
>>3600 Bay Area Blvd.  
>>Houston, TX 77058-1113

>

>

>

>Jim

>

Jonathan B. Mullin

Manager, Operational Safety

Emergency Preparedness Coordinator

Headquarters National Aeronautics and Space Administration

Phone (202) 358-0589

FAX (202) 358-3104

"Mission Success Starts with Safety"

susan-kilrain, 04:24 PM 2/18/2003 -0500, Fwd: Press Release #N03-016

To: susan-kilrain  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: Fwd: Press Release #N03-016  
Cc:  
Bcc:  
Attached:

This stale, but you may see some details on the  
<http://www.nasa.gov> Regards, Jon

Mailing-List: contact ksc-news\_release-help@kscnews.ksc.nasa.gov; run by ezmlm  
X-No-Archive: yes  
list-help: <[mailto:ksc-news\\_release-help@kscnews.ksc.nasa.gov](mailto:ksc-news_release-help@kscnews.ksc.nasa.gov)>  
list-unsubscribe: <[mailto:ksc-news\\_release-unsubscribe@kscnews.ksc.nasa.gov](mailto:ksc-news_release-unsubscribe@kscnews.ksc.nasa.gov)>  
list-post: <[mailto:ksc-news\\_release@kscnews.ksc.nasa.gov](mailto:ksc-news_release@kscnews.ksc.nasa.gov)>  
Delivered-To: mailing list ksc-news\_release@kscnews.ksc.nasa.gov  
Delivered-To: moderator for ksc-news\_release@kscnews.ksc.nasa.gov  
From: "Buckingham-1, Bruce" <Bruce.Buckingham-1@nasa.gov>  
To: "'1 'ksc-news\_release@kscnews.ksc.nasa.gov' (E-mail)" <ksc-news\_release@kscnews.ksc.nasa.gov>  
Subject: Press Release #N03-016  
Date: Fri, 14 Feb 2003 09:36:30 -0500  
X-Mailer: Internet Mail Service (5.5.2656.59)

Feb. 13, 2003

Glenn Mahone/Robert Mirelson  
Headquarters, Washington  
Phone: 202/ 358-1600

Eileen Hawley  
Johnson Space Center, Houston  
Phone: 281/483-5111

Report #N03-016

#### NASA ANNOUNCES COLUMBIA ENTRY FLIGHT DIRECTOR PRESS BRIEFING

Leroy Cain, the flight director who oversaw the ascent and entry of the Space Shuttle Columbia on Feb 1, 2003, from Mission Control, Houston, will hold a press conference beginning at 3:30 p.m. EST, Friday, February 14 from the Johnson Space Center, Houston. The briefing will be carried live on NASA Television.

Prior to the start of the press briefing, at Noon and at 3 p.m. EST, a videotape of events inside the Space Shuttle Flight Control Room will air on NASA TV. It will include the audio of the Flight

Director's conversations with his flight control team and air-to-ground communications between Mission Control and the Shuttle Columbia.

NASA TV is on AMC-2, Transponder 9C, vertical polarization at 85 degrees West longitude, 3880 MHz, with audio at 6.8 MHz.

For more information about NASA or the Columbia investigation on the Internet:

<http://www.nasa.gov>

-end-

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Status reports and other NASA publications are available on the World Wide Web at: <http://www-pao.ksc.nasa.gov/kscpao/kscpao.htm>.

Jonathan B. Mullin  
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Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
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FAX (202) 358-3104  
"Mission Success Starts with Safety"

Richardson\_Pamela, 04:58 PM 2/18/2003 -0500, Fwd: NASA ANNOUNCES CORRECTED PROCEDI

To: Richardson\_Pamela  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: Fwd: NASA ANNOUNCES CORRECTED PROCEDURE FOR FILING DAMAGE CLAIMS  
Cc:  
Bcc:  
Attached:

Pam, if you already have this, disregard. Thanks, Jon

Mailing-List: contact ksc-news\_release-help@kscnews.ksc.nasa.gov; run by ezmlm

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Delivered-To: moderator for ksc-news\_release@kscnews.ksc.nasa.gov

From: "Buckingham-1, Bruce" <Bruce.Buckingham-1@nasa.gov>

To: "1 'ksc-news\_release@kscnews.ksc.nasa.gov' (E-mail)" <ksc-news\_release@kscnews.ksc.nasa.gov>

Subject: NASA ANNOUNCES CORRECTED PROCEDURE FOR FILING DAMAGE CLAIMS

Date: Mon, 3 Feb 2003 12:37:10 -0500

X-Mailer: Internet Mail Service (5.5.2653.19)

Robert Mirelson  
Headquarters, Washington

February 3, 2003

RELEASE: 03-041

## NASA ANNOUNCES CORRECTED PROCEDURE FOR FILING DAMAGE CLAIMS

NASA is accepting claims from individuals who may have suffered damage due to the Space Shuttle Columbia mishap. Any person desiring to file a claim should complete U.S. Government Standard Form 95, "Claim for Damage, Injury, or Death" and send it to the closest of these NASA offices.

Office of the Chief Counsel  
NASA Johnson Space Center  
Mail Code: AL  
2101 NASA Road 1  
Houston, TX 77058  
(281) 483-3021

Office of the General Counsel

Richardson\_Pamela, 04:58 PM 2/18/2003 -0500, Fwd: NASA ANNOUNCES CORRECTED PROCED

NASA Headquarters  
Mail Code: G  
300 E St., SW  
Washington, DC 20546  
(202) 358-2450

Office of Chief Counsel  
NASA Stennis Space Center  
Mail Code: CA00  
Building 1100  
Stennis Space Center, MS 39529  
(228) 688-2164

For more information on filing a claim, including  
downloadable forms, call any of the above offices or go to:

[www.hq.nasa.gov/ogc/general\\_law/torttext.html](http://www.hq.nasa.gov/ogc/general_law/torttext.html)

-end-

\*\*\*

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<http://www-pao.ksc.nasa.gov/kscpao/kscpao.htm> .

Jonathan B. Mullin

Manager Operational Safety

Emergency Preparedness Coordinator

Headquarters National Aeronautics and Space Administration

Phone (202) 358-0589

FAX (202) 358-3104

"Mission Success Starts with Safety"

susan-kilrain, 04:30 PM 2/18/2003 -0500, Fwd: NASA unveils revised Columbia accident timeline (I

To: susan-kilrain  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: Fwd: NASA unveils revised Columbia accident timeline (Feb 13)  
Cc:  
Bcc:  
Attached:

I hope these notes are not disturbing your flying operations. Stay safe! Regards, Jon

X-Sender: rmielec@mail.hq.nasa.gov

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Fri, 14 Feb 2003 06:34:20 -0500

To: pnapala@hq.nasa.gov, rmoyer@hq.nasa.gov, swander@hq.nasa.gov,  
gwhite1@hq.nasa.gov, mcard@hq.nasa.gov, rpatrica@hq.nasa.gov,  
Mark Kowaleski <mkowales@hq.nasa.gov>, Faith.Chandler@hq.nasa.gov,  
jmullin@hq.nasa.gov, alee@hq.nasa.gov, jlemke@hq.nasa.gov,  
twhitmey@hq.nasa.gov, pmartin@hq.nasa.gov,  
Pamela Richardson <prichard@hq.nasa.gov>, rmielec@hq.nasa.gov

From: Roger Mielec <rmielec@hq.nasa.gov>

Subject: NASA unveils revised Columbia accident timeline (Feb 13)

NEWS ARTICLE from Feb 13:

<http://spaceflightnow.com/shuttle/sts107/030213timeline/>

Jonathan B. Mullin  
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Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
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FAX (202) 358-3104  
"Mission Success Starts with Safety"

Susan-Kilrain, 04:29 PM 2/18/2003 -0500, Fwd: STS-107 Mishap Response Status Report #3

To: Susan-Kilrain  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: Fwd: STS-107 Mishap Response Status Report #3  
Cc:  
Bcc:  
Attached:

This is a stale note. But you may glean some information from it. Regards, Jon  
Mailing-List: contact ksc-news\_release-help@kscnews.ksc.nasa.gov; run by ezmlm  
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list-help: <[mailto:ksc-news\\_release-help@kscnews.ksc.nasa.gov](mailto:ksc-news_release-help@kscnews.ksc.nasa.gov)>  
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list-post: <[mailto:ksc-news\\_release@kscnews.ksc.nasa.gov](mailto:ksc-news_release@kscnews.ksc.nasa.gov)>  
Delivered-To: mailing list ksc-news\_release@kscnews.ksc.nasa.gov  
Delivered-To: moderator for ksc-news\_release@kscnews.ksc.nasa.gov  
From: "Buckingham-1, Bruce" <Bruce.Buckingham-1@nasa.gov>  
To: "1 'ksc-news\_release@kscnews.ksc.nasa.gov' (E-mail)" <ksc-news\_release@kscnews.ksc.nasa.gov>  
Subject: STS-107 Mishap Response Status Report #3  
Date: Fri, 14 Feb 2003 09:52:23 -0500  
X-Mailer: Internet Mail Service (5.5.2656.59)

STS-107 Mishap Response Status Report #3  
Thursday, Feb. 13, 2003 - 7 p.m. CST

The Columbia Accident Investigation Board said today preliminary analysis by a NASA working group indicates the temperature indications seen in Columbia's left wheel well during entry would require the presence of plasma. Plasma is a super heated gas surrounding the orbiter during re-entry.

The CAIB said heat transfer through the structure, as from a missing tile, would not be sufficient to cause the temperature indications seen in the last minutes of flight. Additional analysis is under way, looking at various scenarios in which a breach of some type could occur, allowing plasma into the wheel well area or elsewhere in the wing.

Other flight data, including landing gear position indicators and drag information, indicate it is unlikely the left landing gear was deployed early, the CAIB said.

The search continues in the western United States for debris from Columbia. As of early Thursday, no debris found farther west than Granbury, Texas, about 40 miles southwest of Fort Worth, had been confirmed as Shuttle-related. The first two trucks containing debris from Columbia arrived at Kennedy Space Center (KSC), Fla. Wednesday morning.

The Federal Emergency Management Agency (FEMA) reported today the Shuttle debris recovery operation is proceeding well. FEMA said 72 percent of sites in Texas and 84 percent of sites in Louisiana have been cleared.



The Environmental Protection Agency has 42 teams conducting operations in five Texas counties. Searches are focused on large structural items, and a plan is being developed to support expanded searches in areas where NASA-identified critical items have been found.

The Civil Air Patrol is expanding operations west of Fort Worth, and negotiations are under way to bring in a blimp to help search in the area from Fort Worth east to Palestine, Texas. The Navy is taking control of water operations, with dive teams and equipment arriving today. Searches will focus first on the Toledo Bend Reservoir and then turn to other lakes in the affected area.

The CAIB spent its second day visiting KSC. The trip's purpose is to familiarize members with operations at the center from which Columbia was launched Jan. 16.

On Friday the board is scheduled to visit the Marshall Space Flight Center (MSFC) in Huntsville, Ala. On Saturday members are scheduled to visit the Michoud, La., facility near New Orleans where Shuttle external tanks are fabricated, before returning to Houston Saturday night.

Leroy Cain, the Space Shuttle entry flight director on Feb. 1, will hold a press conference at 3:30 p.m. EST Friday. It will be carried live on NASA Television. Before that press conference, NASA-TV will carry a videotape of events inside the Shuttle Flight Control Room on Feb. 1. The video will be shown beginning at noon and 3 p.m. EST.

For more information about NASA on the Internet, see:

[www.nasa.gov](http://www.nasa.gov) <<http://www.nasa.gov>>

-end-

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Jonathan B. Mullin  
Manager Operational Safety

**Susan-Kilrain, 04:29 PM 2/18/2003 -0500, Fwd: STS-107 Mishap Response Status Report #3**

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Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
Phone (202) 358-0589  
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X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-code-q using -f

X-Sender: prichard@mail.hq.nasa.gov

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Tue, 11 Feb 2003 06:49:55 -0500

To: code-q@lists.hq.nasa.gov

From: Pamela Richardson <prichard@hq.nasa.gov>

Subject: Columbia Tribute poem

Sender: owner-code-q@lists.hq.nasa.gov

This was sent to me by one of my racing buddies. Feel free to distribute. I thought it was very touching.

Pam

\*\*\*\*\*

**Memorandum: To America From God  
February 1, 2003**

**America, this crew you chose, is the finest in the land,  
And if you'll pause a moment, I will share with you my plan.  
The message I delivered to the crew was very clear,  
"This flight goes straight to Heaven, fear not, for I am near."**

**"My children I am with you, this trip is one I've planned,  
Yes....this trip is something special, it's one that God will man.  
Heaven's Great Space Center needs some special help up there.  
The Master has now summoned and is asking us to share."**

**They quickly volunteered for this mission in the sky,  
Not a one was unprepared, not a one afraid to try.  
"You'll go swiftly to the Master, and that trail of smoke they'll see,  
Is the 'changing of the pilots,' for you're traveling on with me."**

**"You must leave this famous shuttle that you're sitting in, behind,  
For the one I built that's waiting, is pure gold and silver lined,  
As you search the fields of Texas in hopes to find them there,  
Rest assured they're here beside Me and I have them in My care."**

**"You have trained them well, America, I've observed your every test,  
I stood silently and waited, until you had the best.  
I needed them, America, for Heaven's Great Space Plan  
Encompasses the entire globe, The Universe of Man."**

"I know them well, America, these loved ones you have lost,  
I selected them some time ago, forgetting not the cost.  
America, my heart is grieved, by your sorrow, tears and pain, and  
Though it's little comfort, your loss is Heaven's gain."

Author: Fran R. Maiers  
February 1, 2003  
© copyright

---

Pamela F. Richardson  
Aerospace Technology Mission Assurance Manager  
Enterprise Safety and Mission Assurance Division, Code QE  
Office of Safety and Mission Assurance, NASA Headquarters  
300 E. Street, S. W., Washington, DC 20546  
phone: 202-358-4631, fax: 202-358-2778

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"The meek can \*have\* the Earth. The rest of us are going to the stars." --- Robert Heinlein

"We have to learn to manage information and its flow. If we don't, it will all end up in turbulence." --- RADM Grace Hopper

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**Jim Lloyd, 11:25 AM 2/18/2003 -0500, Fwd: Columbia SMA Teleconference**

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X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-code-q using -f  
X-Sender: jlloyd@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Tue, 18 Feb 2003 11:25:24 -0500  
To: smadir@lists.hq.nasa.gov  
From: Jim Lloyd <jlloyd@hq.nasa.gov>  
Subject: Fwd: Columbia SMA Teleconference  
Cc: Code-Q@lists.hq.nasa.gov  
Sender: owner-code-q@lists.hq.nasa.gov

Sorry if this is duplicative. I tried to send out notices earlier but these evidently did not make it through. I am resending this once again in hope that it is successfully sent this time.

Teleconference scheduled for 1 pm today is postponed until tomorrow.

Jim

Reply-To: jlloyd@mail.hq.nasa.gov  
X-Originating-IP: 68.100.166.170  
X-URL: <http://mail2web.com/>  
From: "jlloyd@mail.hq.nasa.gov" <jlloyd@mail.hq.nasa.gov>  
To: smadir@lists.hq.nasa.gov  
Cc: Code-Q@lists.hq.nasa.gov  
Subject: Columbia SMA Teleconference  
Date: Tue, 18 Feb 2003 10:27:42 -0500  
X-OriginalArrivalTime: 18 Feb 2003 15:27:42.0502 (UTC) FILETIME=[476F0460:01C2D762]  
X-MIME-Autoconverted: from quoted-printable to 8bit by bolg.public.hq.nasa.gov id KAA14519

Dear SMA Directors,  
I am postponing today's SMA teleconference until tomorrow (Wednesday) at 1 pm est.  
Jim Lloyd

---

mail2web - Check your email from the web at  
<http://mail2web.com/> .

jlemke, 05:33 PM 2/8/2003 -0500, FYI: ASAP "firings" article from Govt Exec

X-Authentication-Warning: spinoza:public:hq.nasa.gov: majordom set sender to owner-code-qs using -f  
X-Sender: jlemke@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Sat, 08 Feb 2003 17:33:54 -0500  
To: code-qs@lists.hq.nasa.gov, code-qe@lists.hq.nasa.gov  
From: jlemke <jlemke@hq.nasa.gov>  
Subject: FYI: ASAP "firings" article from Govt Exec  
Cc: mgreenfi@hq.nasa.gov, Len Sirota <lsirota@mail.hq.nasa.gov>  
Sender: owner-code-qs@lists.hq.nasa.gov

February 6, 2003

NASA denies allegations surrounding dismissal of safety advisers

By Beth Dickey  
webmaster@govexec.com

Top managers at the National Aeronautics and Space Administration are reacting with surprise to a published report that claims the agency dismissed several of its top safety advisers because it did not agree with their advice.

NASA fired five members of its independent Aerospace Safety Advisory Panel and two of the panel's consultants last year after an expert warned that the U.S. shuttle fleet would have safety problems if the agency's budget was not increased, according to a Feb. 3 report in The New York Times. The newspaper said a sixth member resigned in anger over the firings.

"I'm surprised," NASA Administrator Sean O'Keefe told CNN on Feb. 3, two days after the shuttle Columbia, streaking home to Florida from a 16-day science mission, broke apart and rained debris and human remains over as many as five states. "[The panel is] a valuable source of advice and recommendations to us and we've acted upon those," O'Keefe said.

Former panelists accused NASA of "developing institutional myopia" about the panel's warnings and observations, according to the newspaper. The Aerospace Safety Advisory Panel's most recent report, released in March 2002, said that while safety had not yet been compromised, "the current and proposed budgets are not sufficient to improve or even maintain the safety risk level" of operating the shuttle and the U.S.-led international space station. A month after the report came out, ousted ASAP Chairman Richard Blomberg told Congress, "I have never been as worried for space shuttle safety as I am right now."

NASA officials acknowledged replacing the panelists, but said it did so in an effort to infuse the panel with fresh talent and expertise. In a news conference, NASA Administrator William Readdy denied the panelists were fired. "They provide us with expert advice and we value the reports they generate," he said. Several individuals, including Blomberg, had served an average of 12 years and were forced

out when the agency decided in April 2001 to limit terms of service to six years.

The change in the charter created vacancies on the panel that were filled by several people with an intimate knowledge of the space shuttle program. Retired Air Force Lt. Gen. Forrest McCartney, director of Florida's Kennedy Space Center during NASA's recovery from the 1986 Challenger disaster, is vice chairman on the panel. Members include former Shuttle Commander Sidney Gutierrez and aerospace consultant Robert Sieck, who directed shuttle processing at Kennedy in the 1990s. Former astronaut Bernard Harris is among the panel's consultants.

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X-Sender: jmullin@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Mon, 03 Feb 2003 12:46:52 -0500  
To: Wayne Kee <Wayne.Kee-1@ksc.nasa.gov>, whill@hq.nasa.gov  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: Communications update 3 Barksdale & FEMA Headquarters  
Cc: EST-OPS <EST-OPS@fema.gov>, alee@hq.nasa.gov,  
michael.stevens-2@ksc.nasa.gov, Gloria.Joyner@fema.gov,  
jllloyd@hq.nasa.gov

The purpose of this message is to advise all Emergency Preparedness Coordinators, that Mr. David Whittle, NASA Mishap Investigation Team leader will be the person who directly requests resources from FEMA Region 6, Region 6 Director, Mr. Ron Castleman.

Points of contact are Mr. Whittle-  
Mr. Ron Castleman and his Deputy Mr. Moises Dugan

FEMA Headquarters - Mr. Dave Duffer- Operations Director (

Ms. Gloria Joyner,  
The email address for Ms. Joyner is as follows  
gloria.joyner@fema.gov.

FEMA Headquarters Emergency Support Teams (EST) Mr. Matt Bettridge,  
FEMA Headquarters Emergency Support Team (EST) Mr. Bill Barry, Code I,

Kennedy Space Center Emergency Operations Center (EOC) 321-867-7575

Mr. Wayne Kee, On Site-NASA Emergency Preparedness or Mr.  
Roger Langevin, Primary EOC Numbers for Barksdale are EOC  
(318) 456-7261/7259.

Please keep these numbers under control.

Jonathan B. Mullin  
Manager Operational Safety  
Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
Phone (202) 358-0589  
FAX (202) 358-3104



Jonathan B. Mullin, 12:46 PM 2/3/2003 -0500, Communications update 3 Barksdale & FEMA Headc

"Mission Success Starts with Safety"

**Jonathan B. Mullin, 12:24 PM 2/2/2003 -0500, Fwd: STS-107 MCC Status Report #19**

---

X-Sender: [jmullin@mail.hq.nasa.gov](mailto:jmullin@mail.hq.nasa.gov)  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Sun, 02 Feb 2003 12:24:32 -0500  
To: [thomas.marple@osha.gov](mailto:thomas.marple@osha.gov)  
From: "Jonathan B. Mullin" <[jmullin@hq.nasa.gov](mailto:jmullin@hq.nasa.gov)>  
Subject: Fwd: STS-107 MCC Status Report #19  
Cc: [snakamur@ems.jsc.nasa.gov](mailto:snakamur@ems.jsc.nasa.gov)

Tom, forwarded as part of the notification and for your information. Regards, Jon  
Mailing-List: [contact\\_ksc-news\\_release-help@kscnews.ksc.nasa.gov](mailto:contact_ksc-news_release-help@kscnews.ksc.nasa.gov), run by ezmlm  
X-No-Archive: yes  
list-help: <[mailto:ksc-news\\_release-help@kscnews.ksc.nasa.gov](mailto:ksc-news_release-help@kscnews.ksc.nasa.gov)>  
list-unsubscribe: <[mailto:ksc-news\\_release-unsubscribe@kscnews.ksc.nasa.gov](mailto:ksc-news_release-unsubscribe@kscnews.ksc.nasa.gov)>  
list-post: <[mailto:ksc-news\\_release@kscnews.ksc.nasa.gov](mailto:ksc-news_release@kscnews.ksc.nasa.gov)>  
Delivered-To: [mailing list ksc-news\\_release@kscnews.ksc.nasa.gov](mailto:mailing_list_ksc-news_release@kscnews.ksc.nasa.gov)  
Delivered-To: moderator for [ksc-news\\_release@kscnews.ksc.nasa.gov](mailto:ksc-news_release@kscnews.ksc.nasa.gov)  
From: "Buckingham-1, Bruce" <[Bruce.Buckingham-1@nasa.gov](mailto:Bruce.Buckingham-1@nasa.gov)>  
To: "1 'ksc-news\_release@kscnews.ksc.nasa.gov' (E-mail)" <[ksc-news\\_release@kscnews.ksc.nasa.gov](mailto:ksc-news_release@kscnews.ksc.nasa.gov)>  
Subject: STS-107 MCC Status Report #19  
Date: Sat, 1 Feb 2003 19:44:13 -0500  
X-Mailer: Internet Mail Service (5.5.2653.19)

STS-107  
Report #19  
Saturday, February 1, 2003 - 7:00 p.m. CST  
Mission Control Center, Houston, Texas

The Space Shuttle Columbia and its seven astronauts were lost today when the vehicle broke up over north central Texas during its reentry from orbit.

Communications were lost with Columbia and its crew at around 8:00 a.m. CST, while the shuttle was traveling about 18 times the speed of sound at an altitude of 207,000 feet. Columbia was 16 minutes from landing at the Kennedy Space Center when flight controllers at Mission Control lost contact with the vehicle. Columbia was returning from a 16-day scientific research mission, its 28th flight, which launched on January 16.

Aboard Columbia were Commander Rick Husband, completing his second flight, Pilot William McCool, wrapping up his first mission, Mission Specialists Dave Brown, also completing his first mission, Kalpana Chawla, on her second flight, Laurel Clark, a first-time space traveler, Payload Commander Mike Anderson, ending his second flight, and Payload Specialist Ilan Ramon of the Israel Space Agency, on his first flight.

Prior to the loss of communications with Columbia, the shuttle's return to Earth appeared perfectly normal. After assessing some wispy fog near the

shuttle's three-mile long landing strip at KSC before dawn, Entry Flight Director Leroy Cain gave approval for the firing of the shuttle's braking rockets to begin its descent from orbit.

Husband and McCool began the deorbit burn to allow Columbia to slip out of orbit at 7:15 a.m. CST. There was no indication of anything abnormal with Columbia's reentry until the last communications between Mission Control and the crew.

At Columbia's intended landing site, NASA Administrator Sean O'Keefe and Associate Administrator for Space Flight William Readdy met with the families of the astronauts to offer their condolences, vowed to uncover the cause of the accident and press ahead with the Shuttle program.

"This is indeed a tragic day for the NASA family, for the families of the astronauts who flew on STS-107, and likewise is tragic for the nation," said O'Keefe.

"We have no indication that the mishap was caused by anything or anyone on the ground," O'Keefe added.

In a briefing, Chief Flight Director Milt Heflin said that around 7:53 a.m. CST, just minutes before communications were lost with Columbia, flight controllers detected indications of a loss of hydraulic system temperature measurements associated with Columbia's left wing, followed three minutes later by an increase in temperatures on the left main gear tires and brakes. At 7:58 a.m., flight controllers noted a loss of bondline temperature sensor data in the area of the left wing followed a minute later by a loss of data on tire temperatures and pressures for the left inboard and outboard tires.

After several attempts to try to contact Columbia, Cain declared a contingency, whereby flight controllers began preserving documentation regarding the entry phase of the flight. Recovery forces fanned out from Texas to Louisiana to try to recover debris that will be pertinent to the mishap investigation.

Space Shuttle Program Manager Ron Dittmore said several teams have been organized to gather data for analysis and will report to an external investigation board that was appointed by Administrator O'Keefe. Dittmore added that no specific orbiter debris or crew remains have been positively identified at this time, and that there is no leading theory for the cause of the accident.

Dittmore said the processing of other shuttles at the Kennedy Space Center for future launches has been temporarily halted to enable engineers to review data regarding vehicle processing and to focus attention on capturing all pertinent information involving Columbia's prelaunch preparations.

NASA managers will be meeting on a regular basis to begin reviewing data associated with Columbia's investigation. The next status briefing from the Johnson Space Center is tentatively scheduled from the Johnson Space Center, Houston, TX at 12:00 p.m. CST Sunday. It will be seen on NASA Television with two-way question and answer capability for reporters from NASA centers.

NASA TV can be found on AMC-2, Transponder 9C, vertical polarization at 85 degrees West longitude, 3880 MHz, with audio at 6.8 MHz.

On the International Space Station, Expedition 6 Commander Ken Bowersox, Flight Engineer Nikolai Budarin and NASA ISS Science Officer Don Pettit were informed of the loss of Columbia and its crew shortly after a Russian Progress resupply vehicle undocked from the ISS. Filled with discarded items no longer needed on the ISS, the Progress was commanded to deorbit by Russian flight controllers and reentered the Earth's atmosphere.

A new Progress cargo ship will be launched Sunday from the Baikonur Cosmodrome in Kazakhstan at 6:59 a.m. CST (1259 GMT) filled with supplies for the Expedition 6 crew. It is scheduled to dock to the ISS Tuesday morning. ISS program officials say, if necessary, the current resident crew could remain in orbit until late June with the supplies being ferried to the station on the new Progress.

Additional status reports will be issued as new information becomes available.

###

NASA Johnson Space Center Mission Status Reports and other information are available automatically by sending an Internet electronic mail message to [majordomo@listserv.jsc.nasa.gov](mailto:majordomo@listserv.jsc.nasa.gov). In the body of the message (not the subject line) users should type "subscribe hsfnews" (no quotes). This will add the e-mail address that sent the subscribe message to the news release distribution list. The system will reply with a confirmation via e-mail of each subscription. Once you have subscribed you will receive future news releases via e-mail.

To unsubscribe from this list: send the line "unsubscribe hsfmedia" in the body of a message (without the quotes) to [majordomo@listserver.jsc.nasa.gov](mailto:majordomo@listserver.jsc.nasa.gov)

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For automatic email subscriptions to this KSC originated press releases, send an internet electronic mail message to [mailto:ksc-news\\_release\\_subscribe@kscnews.ksc.nasa.gov](mailto:ksc-news_release_subscribe@kscnews.ksc.nasa.gov). With no subject or message. The system will reply with a confirmation via e-mail of each subscription.

To remove your name from the list at any time, send an email addressed to [mailto:ksc-news\\_release\\_unsubscribe@kscnews.ksc.nasa.gov](mailto:ksc-news_release_unsubscribe@kscnews.ksc.nasa.gov). With no subject or message.

or you can (un)subscribe on the World Wide Web at: <http://kscnews.ksc.nasa.gov/>

Status reports and other NASA publications are available on the World Wide Web at: <http://www-pao.ksc.nasa.gov/kscpao/kscpao.htm>

Jonathan B. Mullin  
Manager Operational Safety  
Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
Phone (202) 358-0589  
FAX (202) 358-3104  
"Mission Success Starts with Safety"

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-code-q using -f

X-Sender: gtemplet@mail.hq.nasa.gov

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Tue, 21 Jan 2003 08:24:21 -0500

To: code-q@lists.hq.nasa.gov

From: Geoffrey Templeton <gtemplet@hq.nasa.gov>

Subject: STS-107

Sender: owner-code-q@lists.hq.nasa.gov

STS-107 is scheduled for March 1. If you send me names earlier, they will received invitations. If you wish to have anyone else witness the launch, please let me know by January 29, 2003. Remember, I need full names, titles, and occupation of the principal, and the full names of all those in the party. Thanks. Geoff

Geoffrey B. Templeton

Director, George M. Low Program/CI

NASA Headquarters, Code Q

Washington, DC 20546-0001

Phone: 202.358.2157

Facsimile: 202.358.2779

E-Mail: gtemplet@hq.nasa.gov

**Jonathan B. Mullin, 05:42 PM 2/6/2003 -0500, Topic Areas for Safety and Mission Success/Assura**

---

X-Sender: jmullin@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Thu, 06 Feb 2003 17:42:13 -0500  
To: jlemke@hq.nasa.gov  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: Topic Areas for Safety and Mission Success/Assurance Questions  
and Answers  
Cc: jlyver@hq.nasa.gov, wfrazier@hq.nasa.gov

Preliminary data. Jon

Jonathan B. Mullin  
Manager Operational Safety  
Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
Phone (202) 358-0589  
FAX (202) 358-3104  
"Mission Success Starts with Safety"



030206 noon - Topic Areas for Safety and Mission Success11.doc

**James Lloyd, 02:25 PM 2/7/2003 -0500, Fwd: Code Q Documents**

---

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-code-q using -f

X-Sender: jlloyd@mail.hq.nasa.gov

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Fri, 07 Feb 2003 14:25:55 -0500

To: smadir@hq.nasa.gov

From: James Lloyd <jlloyd@hq.nasa.gov>

Subject: Fwd: Code Q Documents

Cc: code-q@lists.hq.nasa.gov

Sender: owner-code-q@lists.hq.nasa.gov

Dear SMA Director,

Be advised concerning the single string nature that this attached guidance creates. We are pulling together THE safety oriented Q&As for the Administrator. It is crucial we do the best we can -- as always.

Thanks,

X-Sender: jmannix@mail.hq.nasa.gov

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Fri, 07 Feb 2003 12:22:42 -0500

To: bruce.anderson-1@ksc.nasa.gov, k.a.kurke@larc.nasa.gov,

smauldin@mail.arc.nasa.gov, david.samuels@mail.dfrc.nasa.gov,

John.Sikora@lerc.nasa.gov, mwinchel@ems.jsc.nasa.gov,

Lawrence.f.Watson@gsfc.nasa.gov, thowell@nmo.jpl.nasa.gov,

William.a.hicks@msfc.nasa.gov, ken.human@ssc.nasa.gov

From: "John G. Mannix" <jmannix@hq.nasa.gov>

Subject: Code Q Documents

Cc: ppastore@hq.nasa.gov, rstephen@hq.nasa.gov, jlloyd@hq.nasa.gov

I am coordinating the hearing preparation with Jim Lloyd, who is acting head of Code Q. The Code Q folks at the field centers are being pulled in a lot of directions to get information to the investigation teams and Code Q HQ. On the telecon last night we discussed having you look into material at your center. For the time being, please do not ask your Code Q people at the center to provide materials to you. We will depend on Code Q HQ to get us all the information that we need for the Wed hearings. If there is material you have access to without getting the Code Q field personnel involved then please look at it.

Jim



sbrookov@mail.hq.nasa.gov, 07:22 AM 2/7/2003 -0500, [QS/Frazier, QS/Harkins, QS/Lee, QS/Lyver]

Date: Fri, 7 Feb 2003 07:22:15 -0500 (EST)

From: sbrookov@mail.hq.nasa.gov

Subject: [QS/Frazier, QS/Harkins, QS/Lee, QS/Lyver, QS/Mullin, QS/Whitmeyer] HATS  
QS/2003-00044 Assignment

This is a HATS assignment message. Action QS/2003-00044, CAI Safety Reports, has been assigned to:

Closure Off QS/Lloyd

Originator QS/Lloyd

Action Off QS/Frazier

Action Off QS/Harkins

Action Off QS/Lee

Action Off QS/Lyver

Action Off QS/Mullin

Action Off QS/Whitmeyer

Please assemble all Shuttle-related safety studies that have been done since Challenger, especially those that might be most related to the Columbia mishap. This includes studies, emails, etc.

# Potential Historical Documents Relating to Shuttle

File Number	Source	Document Number	Document Date	Author/ Document Title
C-001	JPL	JPL-D-13776	1996 Jul	<i>JPL Common Threads Workshop Summary Report May 31, 1996</i>
C-002	Physics Today	No Number	1998 Feb	Richard P. Feynman - <i>An Outsider's View of the Challenger Inquiry</i>
C-003	DS/Space Policy	No Number	1988 May	Dr. Yale Jay Lubkin -- <i>The Challenger Disaster</i>
C-004	Nat'l Academy of Public Administration	No Number	1986 Apr / 1985 Oct	Erasmus H. Kloman - <i>NASA: The Vision and the Reality</i>
C-005	MSEC	NAS8-37104 Ref DRI2	1990 Dec 3	<i>Reliability Trend Analysis Special Study M42A-15</i>
C-006	Hernandez Engineering/KSC RT-ENG-2	NAS10-11612 Option 1 Final Report, DRL #5 HEI-0991/140	1991 Sept 10	<i>Maintainability Assessment Methodologies Applicable to Orbiter OPF Processing: A Study Report</i>
C-007	SAE	SAE ARD50013	1991 Feb 7	<i>Solid Rocket Booster Reliability Guidebook</i>
C-008	Hernandez Engineering / KSC RT-ENG-2	NAS10-11612 Draft Report	1989 Oct	<i>Proposed Methodology for Solving Maintainability-Related Launch Processing Problems</i> (Draft report -- no number assigned)
C-009	NASA HQ	NASA SP-6503	1967	<i>Introduction to the Derivation of Mission Requirements Profiles for System Elements</i>
C-010	NASA	NHB 9071.1	1988 Sept 1	<i>Fracture Control Requirements for Payloads Using the National Space Transportation System (NSTS)</i>
C-011	Vitro Corp./NASA Code Q	No Number	1990 Dec 21	<i>Space Station External Maintenance K Factor</i>
C-012	National Academy Press	No Number	1988 Jan	Committee on Shuttle Criticality Review and Hazard Analysis Audit of the Aeronautics and Space Engineering Board (Slay Report) - <i>Post Challenger Evaluation of Space Shuttle Risk Assessment and Management</i>

# Potential Historical Documents Relating to Shuttle

File Number	Source	Document Number	Document Date	Author/ Document Title
C-013	JSC	No Number	1991 Jun 18	D. W. Whittle / Progress Report: <i>Proposed Integrated Safety Risk Management Program Improvement for Space Shuttle Program</i> (Presentation Slides)
C-014	NASA HQ	Draft (No Number)	1991 Feb	S. L. Thomas - <i>An Analysis of Program-Based Budgeting versus a Centralized Approach for NASA Code Q Office of Safety and Mission Quality</i> (This apparently was a Administrator response to Congressman George E. Brown, Jr. request "...to identify and evaluate various budgeting alternatives, including centralization, for funding the oversight activities of ... (Code Q)").
C-015	NASA HQ	Draft (File: shuts22a.doc)	1996 Jul 1	Jim Lloyd - <i>Shuttle Restructuring Safety and Mission Assurance Plan</i>
C-016	MSFC	NASA TM-108403	1993 April	F. Pizzano and C. Putchu - <i>An In-Depth Probabilistic Study of External Tank Attach Ring</i>
C-017	NASA	Code Q KPC-4x.ppt	1996 Sep 20	J.S. Newman - <i>Space Shuttle Management Transition Planning - Process Based Mission Assurance Management, Integration into Product Development Planning Process</i> (Presentation Slides)
C-018	NASA	Code Q	1999 Jan 11	J. S. Newman - <i>Appendix A Process Based Mission Assurance Model - Comparative Matrix for Space Shuttle Super Lightweight Tank Program (SLWT), X-33 Program, X-034 Program, Space Shuttle Flight Operations Contract Ground Operations (USA/GO)</i> (Appendix A also located on PBMA site)
C-019	Morton Thiokol	TWR-16881	1988 Jan 4	<i>Design Data Book for Space Shuttle Redesign Solid Rocket Motor (ASRM) Preliminary</i>
C-020	JSC	JSC-NSTS 22206 Rev A	1988 May 4	<i>Instructions for Preparation of Failure Modes and Effects Analysis (FMEA) and Critical Items List (CIL)</i>
C-021	NASA Code Q	No Number	1990 May 8	<i>Carl Schneider - Third ESA/NASA Coordination Meeting</i>
C-022	NASA Code Q	No Number	1988 Aug	Final Report of the STS Safety Risk Assessment Ad Hoc Committee
C-023	Martin Mareita Manned Space Systems	No Number	1988 Mar 22	<i>NSTS Safety Risk Management System Review (Space Shuttle External Tank)</i>

# Potential Historical Documents Relating to Shuttle

File Number	Source	Document Number	Document Date	Author/ Document Title
C-024	KSC	Volume 2	1989 Jun 16	<i>Final Report of the NASA/DOE/INSRP STS 51-L and Titan 34D-9 Explosion Working Group (Volume 2)</i>
C-025				
C-020				
C-020				
C-020				
C-020				
C-020				

X-Sender: jmullin@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Fri, 07 Feb 2003 14:46:31 -0500  
To: jemke@hq.nasa.gov  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: Fwd: Henry's SMA Historical Doc Research / Fwd: Documents found  
Cc: jlloyd@hq.nasa.gov, pruttedg@hq.nasa.gov, pruttedg@hq.nasa.gov,  
henry.hartt@baesystems.com, wfrazier@hq.nasa.gov, sbrookov@hq.nasa.gov,  
snewman@hq.nasa.gov

John, the purpose of this note is to confirm your position that the NASA Code Q would appreciate copies of all of the data, however, they need not be delivered on January 7, 2003. Mr. Hartt is commissioning some colleagues to develop copies of the data. (This information was apparently gleaned from some of our VITRO Files.)

Regards, Jon

X-Sender: snewman@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Fri, 07 Feb 2003 13:15:44 -0500  
To: jmullin@hq.nasa.gov  
From: J Steven Newman <snewman@hq.nasa.gov>  
Subject: Henry's SMA Historical Doc Research / Fwd: Documents found  
Cc: pruttedg@hq.nasa.gov, James Lloyd <jlloyd@hq.nasa.gov>

From: "Hartt, Henry N" <henry.hartt@baesystems.com>  
To: "Steve Newman (E-mail)" <snewman@hq.nasa.gov>  
Cc: "Steve Wander (E-mail)" <swander@hq.nasa.gov>  
Subject: Documents found  
Date: Fri, 7 Feb 2003 13:09:27 -0500  
X-Mailer: Internet Mail Service (5.5.2653.19)

Steve,

I've been through everything we have squirreled away and these look like they may have some relevance. Let me know what you think -- I need to go pick up my daughter at the university of MD sometime after 2:30 or thereabouts if at all possible -- according to her the dining hall basically ran out of food -- "Just in time" feeding gone bad?

Let me know if you need any of these things this afternoon and perhaps I can drop 'em off after I pick her up.

Henry

<<Potential Historical documents relating to shuttle.doc>>

Jonathan B. Mullin, 02:46 PM 2/7/2003 -0500, Fwd: Henry's SMA Historical Doc Research / Fwd: D

Jonathan B. Mullin  
Manager Operational Safety  
Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
Phone (202) 358-0589  
FAX (202) 358-3104  
"Mission Success Starts with Safety"



Potential Historical documents relating to shuttle1.doc

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-code-q using -f  
X-Sender: dmoore@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Wed, 05 Feb 2003 06:36:14 -0500  
To: code-q@lists.hq.nasa.gov  
From: Dale Moore <dmoore@hq.nasa.gov>  
Subject: Fwd: Overtime related to loss of Columbia  
Sender: owner-code-q@lists.hq.nasa.gov

X-Sender: jpieritz@mail.hq.nasa.gov

From: Joyce Pieritz <jpieritz@hq.nasa.gov>  
Subject: Overtime related to loss of Columbia  
Cc: AL Castillo <acastill@hq.nasa.gov>

We are aware that many of our employees are working overtime since the loss of Columbia. We are providing the following information on overtime, compensatory time and night pay as a guide. Feel free to share this information as needed with your Officials in Charge and others within your organization. My staff and I are available to provide additional assistance as needed during this difficult time.

#### General Information

Overtime is paid for work in excess of 8 hours in 1 day or 40 hours in a workweek except for employees working CWS (5-4/9) who are paid overtime for work in excess of their scheduled workday or work week.

For overtime pay purposes, rate of basic pay means the rate of pay fixed by law (including special rates) and any applicable locality pay.

The law bars members of the Senior Executive Service from earning either overtime or compensatory time (other than religious compensatory time).

#### Overtime Rates of Pay

For employees with rates of basic pay equal to or less than the rate of basic pay for GS-10, step 1, the overtime rate is the employee's hourly rate of basic pay multiplied by 1.5.

For employees with rates of basic pay greater than the basic pay for GS-10, step 1, the overtime hourly rate is the hourly rate for GS-10, step 1, multiplied by 1.5. In the Washington, D.C. locality that rate is currently \$31.34 per hour. This limitation does not apply to wage employees or to FLSA covered overtime pay.

#### Limitations on Overtime Pay



Normally overtime is limited on a bi-weekly basis, so that the sum of basic pay and premium pay for the pay period can not exceed the greater of the biweekly rate for (1) GS-15, step 10 (including any applicable locality rate or special salary rate), or (2) level V of the Executive Schedule.

In emergency situations, such as the loss of Columbia, the bi-weekly pay limitation may be waived by the Center Director. Tim Sullivan Acting Director, HQ Operations Office, has delegated the authority to waive the bi-weekly limit for headquarters employees to the Headquarters Officials in Charge.

Even if the bi-weekly limit is waived, however, there is still an annual pay limitation, which limits the total of basic pay and premium pay to the greater of the annual rate for (1) GS-15, step 10 (including any applicable special salary rate or locality rate of pay), or (2) Level V of the Executive Schedule. The annual rate for Level V of the Executive Schedule for this year is \$125,400; since this is higher than the annual rate for GS-15, step 10, it is the annual limit for basic and premium pay for our employees.

Codes are responsible for providing the payroll office with the names of those employees who will be working overtime under the annual pay limitation; they must also notify payroll when that coverage ends, i.e., when the employees stop working overtime related to Columbia

#### Compensatory Time

Compensatory time is subject to the same restrictions as overtime. An employee may only work compensatory time to the extent that he/she would be eligible to be paid overtime for the hours worked.

These limitations do not apply to wage employees or to FLSA overtime pay.

#### Night Pay

Some offices have scheduled employees to work on shifts. Please be aware that there is a requirement to pay night pay for regularly scheduled work performed at night. Night pay is a 10 percent differential, paid for regularly scheduled work performed at night. This generally means work scheduled to take place between the hours 6 P.M. and 6 A.M. This includes night work under a compressed work schedule.

Generally night pay is paid for work scheduled at or before the beginning of the administrative workweek. However, night pay is also paid for night work on a temporary assignment to a different daily tour of duty during the administrative workweek.

Night pay is paid in addition to overtime, Sunday, or holiday premium pay.

Joyce-D. Pieritz  
Deputy Director, HQ Human Resources Management Division  
202-358-1149  
jpieritz@hq.nasa.gov



Dale Moore, 06:36 AM 2/5/2003 -0500, Fwd: Overtime related to loss of Columbia

To: Lloyd\_James  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: Fwd: RE: Any Requirements?  
Cc: lemke-john,guy-camomilli  
Bcc:  
Attached:

Jim, for your information. At the FEMA EST meeting 0900 Feb 4, 2003, I learned that Dave King (MSFC) is developing a "one pager" for toxic guidance to the recovery debris groups at 1000 hours today.

This information struck my concern.

I can assure you, it is most difficult to accomplish this on a one pager. I called Guy Camomilli who was also in the process of developing a "one pager." Guy Camomilli will be calling Wayne Kee at Barksdale, AFB to get this concern resolved as Guy C. is continuing to develop this guidance.

The action is in Code AM, this is information only.

Regards, Jon

From: "Kee-1, Wayne" <Wayne.M.Kee@nasa.gov>  
To: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: RE: Any Requirements?  
Date: Tue, 4 Feb 2003 09:00:04 -0500  
X-Mailer: Internet Mail Service (5.5.2653.19)

Jon, I have received many calls from our NASA family offering assistance with in regards to PPE requirements. Many feel we should be in full level A PPE.....not gonna happen. Teams have been briefed on PPE, and monitoring/reading before touching. With 10's of thousands of pieces, full level A approach is impossible. As far as a cost center, yes.

Wayne

-----Original Message-----

From: Jonathan B. Mullin  
To: Wayne Kee  
Cc: Michael.B.Stevens@nasa.gov  
Sent: 2/4/2003 8:17 AM  
Subject: Any Requirements?

Wayne, let me know if you have any thing that we can help with from the NASA EPP perspective. I am sure that FEMA is providing a great deal of data

and services, but let me know if there is something that I can do.

Are all of the "Responders" aware of the hazards and PPE needs? I know the

AF is pretty well covered.

On a note of finance. Have they set up a financial cost center?

Regards, Jon

Jonathan B. Mullin  
Manager Operational Safety  
Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
Phone (202) 358-0589  
FAX (202) 358-3104  
"Mission Success Starts with Safety"

Jonathan B. Mullin  
Manager Operational Safety  
Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
Phone (202) 358-0589  
FAX (202) 358-3104  
"Mission Success Starts with Safety"

Frazier\_Wayne, 11:16 AM 2/3/2003 -0500, Fwd: RE: AF/FAA/NTSB Mishap Investigation

To: Frazier\_Wayne  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: Fwd: RE: AF/FAA/NTSB Mishap Investigation  
Cc: lemke-john  
Bcc: Mullin\_Jonathan  
Attached:

Wayne, I see that a meeting has been canceled due to NTSB participation in our board meeting. Let me advise you that FAA was pushing at the last meeting at the 45th Space Wing for a joint investigative process, which was not the proposed direction that NASA was advocating as a Joint MOU etc. At the 45th Space Wing meeting, I asked who had "assumed" that we were going to participate in a joint MOU. The person who was pushing it was from FAA, a Mr. Wynn Aung.

Let me know if we have changed direction?

Unfortunately, the current circumstances may have changed our policy.

Information only. Regards, Jon

From: Mejasich Paul J Maj AFSC/SEWES <Paul.Mejasich@kirtland.af.mil>

To: "Wynn.Aung@faa.gov" <Wynn.Aung@faa.gov>,  
Julius Chris

<juliusc@ntsb.gov>

Cc: Wassel Alfred E Civ FAA/AST-20 <Alfred.Wassel@patrick.af.mil>,  
"bud.donner@faa.gov" <bud.donner@faa.gov>,  
"Carole.Flores@faa.gov"

<Carole.Flores@faa.gov>,  
"herbert.bachner@faa.gov"

<herbert.bachner@faa.gov>,  
"hugh.cook@faa.gov" <hugh.cook@faa.gov>,  
"Jay.Garvin@faa.gov" <Jay.Garvin@faa.gov>,  
Humphries John A Lt Col AFSPC/SEC <John.Humphries@PETERSON.af.mil>,  
Fury Joseph A Contr AFSPC/SECE <Joseph.Fury@PETERSON.af.mil>,  
"kelvin.coleman@faa.gov" <kelvin.coleman@faa.gov>,  
"lyle.streeter@faa.gov" <lyle.streeter@faa.gov>,  
"Obi.Ndu@faa.gov"

<Obi.Ndu@faa.gov>,  
"Paul.Wilde@faa.gov" <Paul.Wilde@faa.gov>,  
Mejasich Paul J Maj AFSC/SEWES <Paul.Mejasich@kirtland.af.mil>,  
"Randal.Maday@faa.gov" <Randal.Maday@faa.gov>,  
Ripley Randy E Maj AFSC/SEWE <Randy.Ripley@kirtland.af.mil>,  
Atkins Robert T LtCol 45SW/SES <Robert.Atkins@patrick.af.mil>,  
"Stephen.Izon@faa.gov" <Stephen.Izon@faa.gov>,  
"Jonathan B. Mullin"

<jmullin@hq.nasa.gov>

Subject: RE: AF/FAA/NTSB Mishap Investigation

Date: Mon, 3 Feb 2003 15:54:00 -0000

X-Mailer: Internet Mail Service (5.5.2653.19)

Wynn,

Julius,

Since a few of your folks and a couple of ours will probably be supporting the NASA mishap, please make mental notes for AF/FAA/NASA/NTSB mishap investigation process improvements. I'm sure there will be many lessons learned in how to improve interagency cooperation/coordination. Once things settle down, many of our notes can probably be codified into MOA upgrades/updates.

Regards,

Major Mejasich  
Chief, USAF Space Safety Program Manager

-----Original Message-----

From: Wynn.Aung@faa.gov [mailto:Wynn.Aung@faa.gov]

Sent: Monday, February 03, 2003 8:41 AM

To: Julius Chris

Cc: 'Alfred.Wassel@patrick.af.mil'; 'bud.donner@faa.gov';

'Carole.Flores@faa.gov'; 'herbert.bachner@faa.gov'; 'hugh.cook@faa.gov';

'Jay.Garvin@faa.gov'; 'John.Humphries@PETERSON.af.mil';

'Joseph.Fury@PETERSON.af.mil'; 'kelvin.coleman@faa.gov';

'lyle.streeter@faa.gov'; 'Obi.Ndu@faa.gov'; 'Paul.Wilde@faa.gov';

'Paul.Mejasich@kirtland.af.mil'; 'Randal.Maday@faa.gov';

'Randy.Ripley@kirtland.af.mil'; 'Robert.Atkins@patrick.af.mil';

'Stephen.Izon@faa.gov'

Subject: Re: AF/FAA/NTSB Mishap Investigation

Chris,

Thanks for the update. I have been in touch with Air Force folks both at Space Command and Safety Center. I notified Major Ripley of AF Safety Center and Mr. Tim Clapp of AF Space Command via his cell phone mail box, approx. 0800 this morning to cancel the meeting for tomorrow. Please keep me in the loop if there is additional information regarding the Shuttle accident.

Respectfully,

Wynn Aung  
202 385-4803

Julius Chris

<juliusc@ntsb.gov .To: Jay  
Garvin/AWA/FAA@FAA, Carole  
> Flores/AWA/FAA@FAA, Lyle  
Streeter/AWA/FAA@FAA, Bud  
Donner/AWA/FAA@FAA, Randal  
Maday/AWA/FAA@FAA, Obi.  
02/03/2003 09:48 Ndu/AWA/FAA@FAA, Stephen  
Izon/AWA/FAA@FAA,  
AM

"John.Humphries@PETERSON.af.mil"

<John.Humphries@PETERSON.af.mil>,

"Joseph.Fury@PETERSON.af.mil"

<Joseph.Fury@PETERSON.af.mil>,

"Randy.Ripley@kirtland.af.mil"

<Randy.Ripley@kirtland.af.mil>,

"Paul.Mejasich@kirtland.af.mil"

<Paul.Mejasich@kirtland.af.mil>, Paul Wilde/AWA/FAA@FAA,  
Hugh Cook/AWA/FAA@FAA,  
Herbert Bachner/AWA/FAA@FAA,

"Robert.Atkins@patrick.af.mil"

<Robert.Atkins@patrick.af.mil>,

"Alfred.Wassel@patrick.af.mil"

<Alfred.Wassel@patrick.af.mil>, Kelvin  
Coleman/AWA/FAA@FAA, Wynn  
Aung/AWA/FAA@FAA

cc:

Subject: AF/FAA/NTSB Mishap

Investigation

In light of the Colombia accident and NTSB assistance with the investigation

it will not be possible for NTSB to attend the meeting previously scheduled for Tuesday, Feb. 4th at FAA's Licensing and Safety Division's conference room. Hildrup and Benzon are on-scene. I left a voicemail to that effect at Wynn Aung's office, but, since I couldn't reach him I wanted to notify everyone in case it alters travel plans for folks afar. Thanks.

Christopher Julius

NTSB

(202) 314-6087

Jonathan B. Mullin

Manager Operational Safety

Emergency Preparedness Coordinator

Headquarters National Aeronautics and Space Administration

Phone (202) 358-0589

FAX (202) 358-3104

"Mission Success Starts with Safety"

Mejasich Paul J Maj AFSC/SEWES, 11:20 AM 2/3/2003 -0500, RE: AF/FAA/NTSB Mishap Investigat

To: Mejasich Paul J Maj AFSC/SEWES <Paul.Mejasich@kirtland.af.mil>  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: RE: AF/FAA/NTSB Mishap Investigation  
Cc:  
Bcc: lemke-john,Frazier\_Wayne  
Attached:

Paul, do you know who is currently pressing for a joint NASA MOU? At the last meeting at the 45th Space Wing, I believe I asked this same question. It appeared that the FAA was pressing to envelope NASA.

However, we at NASA were not pursuing that goal.

Could you update me with any details?

Regards, Jon

At 03:54 PM 2/3/2003 +0000, you wrote:

Wynn,  
Julius,

Since a few of your folks and a couple of ours will probably be supporting the NASA mishap, please make mental notes for AF/FAA/NASA/NTSB mishap investigation process improvements. I'm sure there will be many lessons learned in how to improve interagency cooperation/coordination. Once things settle down, many of our notes can probably be codified into MOA upgrades/updates.

Regards,

Major Mejasich  
Chief, USAF Space Safety Program Manager

-----Original Message-----

From: Wynn.Aung@faa.gov [mailto:Wynn.Aung@faa.gov]

Sent: Monday, February 03, 2003 8:41 AM

To: Julius Chris

Cc: 'Alfred.Wassel@patrick.af.mil'; 'bud.donner@faa.gov';  
'Carole.Flores@faa.gov'; 'herbert.bachner@faa.gov'; 'hugh.cook@faa.gov';  
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'lyle.streeter@faa.gov'; 'Obi.Ndu@faa.gov'; 'Paul.Wilde@faa.gov';  
'Paul.Mejasich@kirtland.af.mil'; 'Randal.Maday@faa.gov';  
'Randy.Ripley@kirtland.af.mil'; 'Robert.Atkins@patrick.af.mil';  
'Stephen.Izon@faa.gov'  
Subject: Re: AF/FAA/NTSB Mishap Investigation

Chris,



Mejasich Paul J Maj AFSC/SEWES, 11:20 AM 2/3/2003 -0500, RE: AF/FAA/NTSB Mishap Investigati

Thanks for the update. I have been in touch with Air Force folks both at Space Command and Safety Center. I notified Major Rippley of AF Safety Center and Mr. Tim Clapp of AF Space Command via his cell phone maail box, approx. 0800 this morning to cancel the meeting for tomorrow. Please keep me in the loop if there is additional information regarding the Shuttle accident.

Respectfully,

Wynn Aung  
202 385-4803

Julius Chris

<juliusc@ntsb.gov To: Jay  
Garvin/AWA/FAA@FAA, Carole  
> Flores/AWA/FAA@FAA, Lyle  
Streeter/AWA/FAA@FAA, Bud Donner/AWA/FAA@FAA, Randal  
Maday/AWA/FAA@FAA, Obi  
02/03/2003 09:48 Ndu/AWA/FAA@FAA, Stephen  
Izon/AWA/FAA@FAA,  
AM

"John.Humphries@PETERSON.af.mil"

<John.Humphries@PETERSON.af.mil>

"Joseph.Fury@PETERSON.af.mil"

<Joseph.Fury@PETERSON.af.mil>

"Randy.Ripley@kirtland.af.mil"

<Randy.Ripley@kirtland.af.mil>

"Paul.Mejasich@kirtland.af.mil"

<Paul.Mejasich@kirtland.af.mil>, Paul Wilde/AWA/FAA@FAA,

Hugh Cook/AWA/FAA@FAA,

Herbert Bachner/AWA/FAA@FAA,

"Robert.Atkins@patrick.af.mil"

<Robert.Atkins@patrick.af.mil>

nted for "Jonathan B. Mullin" <jmullin@hq.nasa.gov>

"Alfred.Wassel@patrick.af.mil"

<Alfred.Wassel@patrick.af.mil>, Kelvin  
Coleman/AWA/FAA@FAA, Wynn  
Aung/AWA/FAA@FAA

cc:

Subject: AF/FAA/NTSB Mishap

Investigation

In light of the Colombia accident and NTSB assistance with the investigation it will not be possible for NTSB to attend the meeting previously scheduled for Tuesday, Feb. 4th at FAA's Licensing and Safety Division's conference room. Hilldrup and Benzon are on-scene. I left a voicemail to that effect at Wynn Aung's office, but, since I couldn't reach him I wanted to notify everyone in case it alters travel plans for folks afar. Thanks.

Christopher Julius

NTSB

(202) 314-6087

Jonathan B. Mullin

Manager Operational Safety

Emergency Preparedness Coordinator

Headquarters National Aeronautics and Space Administration

Phone (202) 358-0589

FAX (202) 358-3104

"Mission Success Starts with Safety"

To: Mejasich Paul J Maj AFSC/SEWES <Paul.Mejasich@kirtland.af.mil>  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: RE: AF/FAA/NTSB Mishap Investigation  
Cc:  
Bcc: lemke-john  
Attached:

Thanks, Regards, Jon

At 04:31 PM 2/3/2003 +0000, you wrote:

Jon,

I'll find out more info on the joint NASA MOU.

The only MOA the AF Safety Center has been focusing on during the last couple months is the AF/FAA/NTSB Mishap Investigation MOA.

Paul

-----Original Message-----

From: Jonathan B. Mullin [<mailto:jmullin@hq.nasa.gov>]

Sent: Monday, February 03, 2003 9:21 AM

To: Mejasich Paul J Maj AFSC/SEWES

Subject: RE: AF/FAA/NTSB Mishap Investigation

Paul, do you know who is currently pressing for a joint NASA MOU? At the last meeting at the 45th Space Wing, I believe I asked this same question. It appeared that the FAA was pressing to envelope NASA. However, we at NASA were not pursuing that goal.

Could you update me with any details?

Regards, Jon

At 03:54 PM 2/3/2003 +0000, you wrote:

>Wynn,

>Julius,

>

>Since a few of your folks and a couple of ours will probably be supporting  
>the NASA mishap, please make mental notes for AF/FAA/NASA/NTSB mishap  
>investigation process improvements. I'm sure there will be many lessons  
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>things

>settle down, many of our notes can probably be codified into MOA

>upgrades/updates.

>

>Regards,

>

>Major Mejasich

>Chief, USAF Space Safety Program Manager

>

>-----Original Message-----

>From: Wynn.Aung@faa.gov [mailto:Wynn.Aung@faa.gov]

>Sent: Monday, February 03, 2003 8:41 AM

>To: Julius Chris

>Cc: 'Alfred.Wassel@patrick.af.mil'; 'bud.donner@faa.gov';

>'Carole.Flores@faa.gov'; 'herbert.bachner@faa.gov'; 'hugh.cook@faa.gov';

>'Jay.Garvin@faa.gov'; 'John.Humphries@PETERSON.af.mil';

>'Joseph.Fury@PETERSON.af.mil'; 'kelvin.coleman@faa.gov';

>'lyle.streeter@faa.gov'; 'Obi.Ndu@faa.gov'; 'Paul.Wilde@faa.gov';

>'Paul.Mejasich@kirtland.af.mil'; 'Randal.Maday@faa.gov';

>'Randy.Ripley@kirtland.af.mil'; 'Robert.Atkins@patrick.af.mil';

>'Stephen.Izon@faa.gov'

>Subject: Re: AF/FAA/NTSB Mishap Investigation

>

>

>

>Chris,

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>Thanks for the update. I have been in touch with Air Force folks both at

>Space Command and Safety Center. I notified Major Rippley of AF Safety

>Center and Mr. Tim Clapp of AF Space Command via his cell phone maail box,

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>me in the loop if there is additional information regarding the Shuttle

>accident.

>

>Respectfully,

>

>Wynn Aung

>202 385-4803

>

>

>

>

>

>

>

Julius Chris

>

<juliusc@ntsb.gov To: Jay

>Garvin/AWA/FAA@FAA, Carole

>Flores/AWA/FAA@FAA, Lyle

>Streeter/AWA/FAA@FAA, Bud

>Donner/AWA/FAA@FAA, Randal

>Maday/AWA/FAA@FAA, Obi

>02/03/2003 09:48 Ndu/AWA/FAA@FAA, Stephen

>Izon/AWA/FAA@FAA,

>AM

>"John.Humphries@PETERSON.af.mil"

>

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><Joseph.Fury@PETERSON.af.mil>,  
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><Randy.Ripley@kirtland.af.mil>,  
>  
>"Paul.Mejasich@kirtland.af.mil"  
>  
><Paul.Mejasich@kirtland.af.mil>, Paul Wilde/AWA/FAA@FAA,  
> Hugh Cook/AWA/FAA@FAA,  
>Herbert Bachner/AWA/FAA@FAA,  
>  
>"Robert.Atkins@patrick.af.mil"  
>  
><Robert.Atkins@patrick.af.mil>,  
>  
>"Alfred.Wassel@patrick.af.mil"  
>  
><Alfred.Wassel@patrick.af.mil>, Kelvin  
> Coleman/AWA/FAA@FAA, Wynn  
>Aung/AWA/FAA@FAA  
> cc:  
>  
> Subject: AF/FAA/NTSB  
Mishap  
>Investigation  
>  
>  
>  
>  
>  
>

>In light of the Colombia accident and NTSB assistance with the  
>investigation  
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>everyone in case it alters travel plans for folks afar. Thanks.

>  
>Christopher Julius  
>NTSB  
>(202) 314-6087  
Jonathan B. Mullin  
Manager Operational Safety

Mejasich Paul J Maj AFSC/SEWES, 12:06 PM 2/3/2003 -0500, RE: AF/FAA/NTSB Mishap Investigati

Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
Phone (202) 358-0589  
FAX (202) 358-3104

"Mission Success Starts with Safety"

Jonathan B. Mullin

Manager Operational Safety  
Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
Phone (202) 358-0589  
FAX (202) 358-3104

"Mission Success Starts with Safety"

Wayne Kee, 02:58 PM 2/2/2003 -0500, Re: On Site at BAFB

---

To: Wayne Kee <Wayne.Kee-1@ksc.nasa.gov>  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: Re: On Site at BAFB  
Cc: lemke-john,Hill\_William  
Bcc:  
Attached:

Thanks, let us know what you need. Regards, Jon

At 05:19 PM 2/2/2003 +0000, you wrote:

NASA KSC Emergency Preparedness and Security Team set up at Barksdale AFB,  
LA.

Jonathan B. Mullin  
Manager Operational Safety  
Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
Phone (202) 358-0589  
FAX (202) 358-3104  
"Mission Success Starts with Safety"

Pamela R. Brown, 07:40 AM 2/3/2003 -0800, Columbia

---

X-Sender: pbrown@pop.jpl.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.1  
Date: Mon, 03 Feb 2003 07:40:03 -0800  
To: jmullin@mail.hq.nasa.gov  
From: "Pamela R. Brown" <Pamela.R.Brown@jpl.nasa.gov>  
Subject: Columbia

Jon,

Please let me know if I can help you in any way.

Pam



Wayne R. Frazier, 10:30 AM 2/7/2003 -0500, CAIB reports QS/2003-00044 "Final Report of the STS

X-Sender: wfrazier@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Fri, 07 Feb 2003 10:30:04 -0500  
To: sbrookov@hq.nasa.gov  
From: "Wayne R. Frazier" <wfrazier@hq.nasa.gov>  
Subject: CAIB reports QS/2003-00044 "Final Report of the STS Safety  
Risk Assessment Ad Hoc Committee" Aug 1987  
Cc: jlemke@hq.nasa.gov, jmullin@hq.nasa.gov

First of several. Although title did not scan in well, here it is.



adhoc 8 87.doc

-----  
Wayne R. Frazier  
NASA Headquarters - Code QS  
Office of Safety and Mission Assurance  
Washington, DC 20546-0001  
Ph: 202 358-0588 Fax: 202 358-3104  
-----

"Mission success starts with safety"

jlemke, 10:21 AM 2/5/2003 -0500, Fwd: Code GG Tasking Columbia

---

X-Sender: jlemke@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Wed, 05 Feb 2003 10:21:58 -0500  
To: prichard@hq.nasa.gov  
From: jlemke <jlemke@hq.nasa.gov>  
Subject: Fwd: Code GG Tasking Columbia  
Cc: jmullin@mail.hq.nasa.gov

Pam:

For inclusion in the log.

Thanks.  
johnl

X-Sender: jmullin@mail.hq.nasa.gov  
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2  
Date: Wed, 05 Feb 2003 09:58:48 -0500  
To: Sylvia Brookover <sbrookov@hq.nasa.gov>  
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>  
Subject: Code GG Tasking Columbia  
Cc: jlemke@hq.nasa.gov

I was tasked to support Sara Najjar-Wilson in the resolution of a question concerning Disaster Funding and Donations Program.

I provided guidance from the Federal Response Plan and NPG 8715.2.

The second concern generated from FEMA as to what was NASA's Policy for Donations. I recommended those who were serving NASA operations on the ground, Salvation Army, Baptist Men, Red Cross, etc. These groups have served 39,000 meals and they are running out of funding.

Regards, Jon

Jonathan B. Mullin  
Manager Operational Safety  
Emergency Preparedness Coordinator  
Headquarters National Aeronautics and Space Administration  
Phone (202) 358-0589  
FAX (202) 358-3104  
"Mission Success Starts with Safety"

John Lemke  
Manager, System Safety Engineering  
NASA HQ, Code QS  
202-358-0567 FAX 358-3104  
jlemke@hq.nasa.gov

***"Mission success stands on the foundation of our unwavering commitment to safety"***  
Administrator Sean O'Keefe January 2003