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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: Susan-Kilrain
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: DOUGLAS BROWN RELEASES STATEMENT ABOUT EMAILS
Cc:
Bcc:
Attached:

For your information. Are you on distribution in your current activity? Regards, Jon
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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: DOUGLAS BROWN RELEASES STATEMENT ABOUT EMAILS
Date: Mon, 10 Feb 2003 10:48:22 -0500
X-Mailer: Internet Mail Service (5.5.2653.19)

Glenn Mahone/Doc Mirelson
Headquarters, Washington Feb. 10, 2003
(Phone: 202/358-1600)

RELEASE: 03-062

DOUGLAS BROWN RELEASES STATEMENT ABOUT EMAILS

"I wanted to clarify a couple of facts reported recently regarding my brother, Dave Brown, a member of the Columbia STS 107 mission.

Dave sent several personal emails during the mission, but at no time did he write about any concerns with damage to the left wing of the orbiter or any other safety issues.

As they reached orbit, Dave took his planned photos of the external tank separation, which is standard procedure. These are the photos I discussed with Senator Allen.

When I asked Dave at Christmas what he would want me to say if he didn't make it back, he said the program must go on. He said "I accepted this risk when I took the job, just as I did when I became a Naval aviator."

Douglas Brown
Feb. 6, 2003

David M. Brown was a captain in the U.S. Navy and was serving as a Mission Specialist on the space Shuttle Columbia. He was a naval aviator and a flight surgeon. STS-107 was his first space flight.

For more information about NASA on the Internet:

www.nasa.gov

-end-

* * *

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

Susan-Kilrain, 04:20 PM 2/10/2003 -0500, Fwd: DOUGLAS BROWN RELEASES STATEMENT ABOI

FAX (202) 358-3104

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To: pennie-hardesty,hector-suarez
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: ASTRONAUT SPOUSES & CHILDREN RELEASE STATEMENT
Cc: Bridgette-Mullin
Bcc:
Attached:

Information. Regards, Jon

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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: ASTRONAUT SPOUSES & CHILDREN RELEASE STATEMENT
Date: Mon, 10 Feb 2003 14:24:48 -0500
X-Mailer: Internet Mail Service (5.5.2653.19)

Glenn Mahone/Robert Mirelson
Headquarters, Washington Feb. 08, 2003
(Phone: 202/358-1600)

RELEASE: 03-060

ASTRONAUT SPOUSES & CHILDREN RELEASE STATEMENT

The Astronaut Spouses Group released the following statement on Friday, Feb. 7.

"We, the spouses and children of the NASA astronaut corps, would like to thank the people of the world from the bottom of our hearts for the incredible outpouring of support and love that you have shown us in our time of deep grief.

"NASA centers have been overwhelmed with cards, letters, emails, and phone calls from you expressing your concern and support. We have also received hundreds of personal calls, emails, flowers, food, and cards at our homes. The makeshift shrine in front of the Johnson Space Center is overflowing with flowers, signs, and balloons from well wishers from all over the world. Memorial services throughout the world have honored our dear friends. You, our brothers and sisters of

the world community, have been a tremendous source of comfort and love to us and we are so grateful. We are deeply mourning our dear friends Rick, Willie, Mike, Kalpana, Ilan, Laurel, and Dave and we ask that you continue to keep their parents, wives, husbands, and children in your thoughts and prayers.

"We would also like the world community to know that as terrible and as difficult as this journey has been and will continue to be for all of our families, we cannot stress enough how blessed and honored we feel to be counted as members of the NASA family. We proudly support the noble goals and objectives of NASA and we will continue to support NASA in its finest and its darkest hours. It is our deepest hope that you also will continue to share in our belief and support of NASA's dreams. We believe NASA is a beacon of hope and light to all nations, for NASA has proven beyond the shadow of a doubt, that peoples from all races, genders, cultures, religions, and political backgrounds can transcend those differences and become the closest of friends. And these friends will continue to pursue space exploration and scientific discovery for the single purpose of helping and furthering all of mankind. Thank you for your love and support.

"The husbands, wives, and children of the NASA Astronaut Corps."

-end-

* * *

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Jonathan B. Mullin

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Emergency Preparedness Coordinator

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"Mission Success Starts with Safety"

Buckingham-1, Bruce, 09:05 AM 2/26/2003 -0500, STS-107 Mishap Response Status Report #9

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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 #9
Date: Wed, 26 Feb 2003 09:05:56 -0500
X-Mailer: Internet Mail Service (5.5.2653.19)

STS-107 Mishap Response Status Report #9
Tuesday, Feb. 25, 2003 - 5 p.m. CST

The investigation into the loss of Space Shuttle Columbia is increasing in depth as well as breadth, retired Adm. Harold W. "Hal" Gehman, chairman of the Columbia Accident Investigation Board, said this afternoon. "Our commitment and resolve to get to the bottom of this is undiminished."

Gehman and three other members of the CAIB, Air Force Brig. Gen. Duane W. Deal, Air Force Maj. Gen. Kenneth W. Hess and NASA Ames Research Center director Scott Hubbard, spoke at a news conference at Johnson Space Center.

Gehman showed photos of a piece of Columbia heat-resistant tile found just west of Fort Worth, Texas. The tile had grooves in the ends of its bottom side and orange-colored deposits on its outward-facing surface. Gehman said the tile had sustained extreme heat damage. "This is not re-entry heat damage," he said. It remains to be determined, he added, how the damage to the tile occurred, as well as when and how the orange material was deposited.

He also talked about the western-most find of Shuttle debris to date, a piece of tile found about 40 miles northwest of Lubbock, Texas. He said the tile is believed to be from the upper surface of the left wing, near its attachment to the fuselage.

Deal, part of a group looking at material, maintenance and management issues for the board, said the CAIB is looking for a cause, in part through a process of elimination. "Our duty is to examine everything objectively," he said.

Board members were asked about the object observed on radar moving away from the orbiting Shuttle on Jan. 17 and re-entering the atmosphere three days later over the South Pacific. Board members described it as a lightweight material, about 1 foot by 1 foot in size. An extensive analysis of radar

data that began after the Columbia accident led to the discovery of the object on Feb. 6. That analysis is continuing in an effort to determine the identity of the object.

Hess said the board would compare STS-107 with other Columbia re-entries. He said some commanders have reported wing roughness, while others didn't notice. Gehman said the board is looking carefully at weather at re-entry on Feb. 1, which he said was "in general, a particularly calm and benign environment."

In response to a question, Gehman said the board is looking very carefully, "from a dozen points of view," at the three Boeing analyses of possible tile damage from foam insulation from the external tank. No conclusions have been reached, he said.

"The data and twisted metal are speaking to us," Hubbard said. "We're just developing ears to hear."

Gehman said debris continues to come in, and continues to be very important to the investigation. In terms of weight, approximately 10 percent of the orbiter has been recovered, he said.

Texas weather Tuesday hampered the search for debris as rain and cold temperatures swept through the area. Teams based in Nacogdoches and Hemphill searched throughout the day. Ice kept search teams based in Corsicana in camp Tuesday, while teams from Palestine searched for half a day.

Low ceilings at mid-day kept search aircraft on the ground. Navy dive teams at Toledo Bend Reservoir began operations about noon. More than 4,000 searchers and support personnel from 38 states were in the area Tuesday, focusing on the 10- by 240-mile area from south of Dallas to Toledo Bend. No confirmed Columbia debris has been found west of the Littlefield, Texas area.

Finds reported during the past two days include a number of Shuttle tiles, and what appeared to be a panel from the lower surface of the right wing and a piece of the lower forward fuselage of Columbia.

The effort to consolidate three search coordination field offices, Barksdale AFB, La., the Joint Reserve Base (Carswell Field), Texas and Hemphill, Texas, into the main facility at Lufkin, Texas, should be completed this week.

For more information about board activities on the Internet visit the CAIB's new website:

www.caib.us <<http://www.caib.us>>

-end-

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Date: Mon, 24 Feb 2003 17:04:35 -0500 (EST)

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

Subject: Heads Up 2/25/03

From: InfoCom <infocom@hq.nasa.gov>

Sender: owner-headquarters@lists.hq.nasa.gov

Tuesday, February 25, 2003

NASA HONORS DR. DANIEL MULVILLE

Thursday, February 27, 2 p.m., auditorium. Please join the NASA Administrator at the retirement ceremony honoring Dr. Daniel R. Mulville, Associate Deputy Administrator, National Aeronautics and Space Administration. Reception to follow. Evelyn Thames, Code PS, 358-1719.

CUSTOMER SERVICE AWARD NOMINATIONS

Tuesday, February 25 - new deadline. Nominations for the period October 1 - December 31, 2002 are due to Marian Beverly, Code CP. The Customer Service Award acknowledges exemplary customer service provided to HQ organizations and staff by Code C and GSFC employees and contractors. For details and forms, see http://www.hq.nasa.gov/hq/csa_prog.htm Marian Beverly, 358-2318.

SECRETARIAL/CLERICAL AWARD NOMINATIONS

Tuesday, February 25 - new deadline. Employees classified as secretaries, clerks, assistants, or technicians are eligible. Submit award nominations to Marian Beverly, Code CP. For details and forms, see <http://www.hq.nasa.gov/hq/hqsec.htm> Marian Beverly, 358-2318.

NASA BLOOD DRIVE

Wednesday, February 26, 7:30 a.m.-12:30 p.m., MIC 6. Schedule an appointment with your code coordinator today. All scheduled donors are eligible for a raffle drawing of two Foot Locker gift cards. HUD and contractor employees are welcome. Refreshments will be served. Shirley Mitchell, RN, 358-2600.

HQ TRAINING OPPORTUNITIES

- February 26-27. Essentials of English Writing.
- March 5. Listening and Memory Development.
- March 11. National Environmental Policy Act Training.
- March 13. Resume Builder Strategies.
- March 19-20. Grammar and Usage Workshop.
- March 25-27. COTR Training.

For details, see

<http://ohr.gsfc.nasa.gov/DevGuide/Hq/Februaryfy03.htm>

"ROAD TO IFM" WEB SITE

In order to facilitate the communication of timely information related to the Agency-wide rollout of IFM, the IFM Program Team is introducing the "Road to IFM" Web page. This Agency-wide Web page provides weekly updates (updates on Wednesdays) on the latest issues, events, and hot topics across all IFM projects.

<https://extranet.hq.nasa.gov/RTIFM> For details, contact Sandra Smalley <mailto:ssmalley@hq.nasa.gov> 358-4731.

LUNCH AND LEARN: ERGONOMICS

Thursday, February 27, 12 noon, MIC 5-A. Dr. Paul Abosh, a chiropractor from Sport and Spine Rehab, will address ergonomic situations for home, work and activities of daily living (e.g., workstation ergonomics, carpal tunnel syndrome, headaches, and low back, neck, and knee pain). A question-and-answer period will follow. Shirley Mitchell, RN, 358-2600.

IFM CORE FINANCIAL BANKCARD WORKSHOP

March 5, 9 a.m.-12 noon, auditorium. The Core Financial team is conducting a Bankcard Workshop for bankcard holders and approving officials. The workshop will give a refresher on the policy and procedures for using the Government Purchasing Credit Card and a demonstration of the new IFMP-Card interface. Sandra Smalley, 358-4731.

REPRESENTATIONAL FACILITY RENOVATION

The Representational Facility will be closed on March 7. It will reopen in early April with a new vendor operating the facility. During that time, there will be no catering, coffee, or food services available from the Representational Facility. Ron Hoffman, 358-1596.

STS-107 MEMORABILIA

The Exchange Store has just received the STS-107 patch and Columbia commemorative patch, label pin, and coin. The patches are \$3.50. The pin is \$3. The coin is \$7.50. Pat Allen, 358-0162.

HOT TOPICS

- NASA Home Page: <http://www.nasa.gov>
- Space Shuttle Columbia: <http://www.nasa.gov/columbia>
- NASA Budget for FY 2004:
http://www.nasa.gov/about/budget/AN_Budget_04_detail.html
- Freedom to Manage (F2M): <http://www.f2m.nasa.gov>
- Educator Astronaut Program Web Site: <http://edspace.nasa.gov>
- NODIS Document Library: http://nodis3.gsfc.nasa.gov/library/main_lib.html
- NODIS Document Management System:

- <http://nodis-dms.gsfc.nasa.gov/dms/dms.cfm> (NASA Employees Only)
- Directory of HQ Service Contacts:
<http://www.hq.nasa.gov/office/codec/service-contacts.doc>
- Job Opportunities: <http://www.nasajobs.nasa.gov>
- Approved Widely-Attended Gatherings (WAGs):
http://www.hq.nasa.gov/ogc/general_law/ethics/waglog03.html
- Training Information: <http://ohr.gsfc.nasa.gov/DevGuide/Hq/hqtrngopps.htm>
- Safety: <http://www.hq.nasa.gov/hq/safety.htm>
- NASA OIG: <http://www.hq.nasa.gov/office/oig/hq>
(NASA HQ ONLY)
- HQ ISO 9000: <http://hgiso9000.hq.nasa.gov> (NASA HQ ONLY)
- VoTS: <http://www.nisn.nasa.gov/vots>
- ISEM Services: <http://www.isem.hq.nasa.gov>
- ODIN Services: <http://www.odin.hq.nasa.gov>
- Computer Training Center (CTC):
<http://www.hq.nasa.gov/office/codec/codeci/ctc/ctc.htm>
- IT Security: <http://www.hq.nasa.gov/office/codec/codeci/security/security.htm>
- IT Notices: <http://www.hq.nasa.gov/office/codec/codeci/whatsnew/itnote.htm>
- Exchange Council: <http://www.hq.nasa.gov/exchange>
- HQ Bulletin Online: http://www.hq.nasa.gov/hq/infocom/bulletin_online.htm
- National Air & Space Museum programs/events:
<http://www.nasm.si.edu/nasm/pa/nasmnews/newshome.htm>

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Visit "Heads Up Online" at <http://www.hq.nasa.gov/heads-up> for previous issues.

X-Sender: jmullin@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Wed, 12 Feb 2003 14:29:21 -0500
To: jllloyd@hq.nasa.gov
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: Inquiries From General Public: Loss of Columbia and Its Crew
Cc: jlemke@hq.nasa.gov, mark.kowaleski@hq.nasa.gov, wharkins@hq.nasa.gov, william.bihner@hq.nasa.gov, prutledg@hq.nasa.gov, wfrazier@hq.nasa.gov, prichard@hq.nasa.gov

For your information, I called Ms. Grimes to ascertain **if this process was available to all NASA Centers.**

1. NASA has a problem. I found that this **Headquarters Process was not fully being worked at NASA Center level. Apparent;y the process may just be developing at the NASA Center level.**
2. Further NASA Headquarters **is not staffed to handle all of the potential Agency general public inquiries that may be posed to NASA Centers.**
3. Therefore, there will be no **"One NASA" response to inquiries from the general public.**

Recommendation:

a. I understand that Mark Kowaleski is the Code Q Representative to this process, so perhaps he can give you further details.

b. Following the explanation of the process from the Code Q Point of Contact, Mark Kowaleske, pass this concern on to the SMA Directors as it may be of value for keeping SMA responses consistent.

Just some thoughts..

Regards, Jon

Date: Wed, 12 Feb 2003 11:50:23 -0500 (EST)
X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-headquarters using -f
Subject: Inquiries From General Public: Loss of Columbia and Its Crew
From: InfoCom <infocom@hq.nasa.gov>
Sender: owner-headquarters@lists.hq.nasa.gov

This message is being transmitted to all NASA HQ employees.
Point of Contact: Teresa Grimes, Code CIC, 358-1280.

INQUIRIES FROM THE GENERAL PUBLIC:
The Loss of Columbia and Its Courageous Crew

In response to NASA's loss of the courageous STS-107 crew and of Space Shuttle Columbia, the general public is expressing their concerns and seeking information regarding this terrible tragedy.

The Public Inquiries Management Office (PIMO), Code CIC, is coordinating official Agency responses with the newly created

Columbia Action Center.

HQ employees receiving e-mail, paper mail, and telephone calls from the general public should forward these inquiries immediately upon receipt to the PIMO. Send e-mails to public-inquiries@hq.nasa.gov and paper mail to Code CIC, room 9Q42. Redirect incoming telephone calls to Bridget Fenner, Team Lead, Public Inquiries Service Center, 358-0909.

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Jonathan B. Mullin

Manager Operational Safety

Emergency Preparedness Coordinator

Headquarters National Aeronautics and Space Administration

Phone (202) 358-0589

FAX (202) 358-3104

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InfoCom, 11:50 AM 2/12/2003 -0500, Inquiries From General Public: Loss of Columbia and Its Crew

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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: COLUMBIA ACCIDENT INVESTIGATION BOARD PRESS CONFERENCE
Date: Thu, 13 Feb 2003 15:43:38 -0500
X-Mailer: Internet Mail Service (5.5.2653.19)

Steve Nesbitt
Columbia Accident Investigation Board Feb. 13, 2003
(Phone: 713/301-9571)

Glenn Mahone/Doc Mirelson
Headquarters, Washington
(Phone: 202/358-1600)

NOTE TO EDITORS: N03-015

COLUMBIA ACCIDENT INVESTIGATION BOARD PRESS CONFERENCE

The Columbia Accident Investigation Board (CAIB) will conduct a press conference on Tuesday, Feb. 18 at 3 p.m. EST. The press briefing will be at the Johnson Space Center (JSC), Houston.

CAIB Chairman, retired Navy Admiral Harold W. "Hal" Gehman Jr., will be joined by other members of his investigative team. The press conference will be an opportunity to review with the recent investigatory activities of the CAIB.

The press conference will be broadcast on NASA Television. Reporters may ask questions from selected NASA centers. NASA Television is broadcast on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz.

Media wishing to attend the briefing must contact JSC for accreditation no later than 9 a.m. CST Tuesday, February 18. Accreditation requests, on the letterhead

of the sponsoring media organization, should be faxed to the JSC newsroom
at:
281/483-2000.

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

www.nasa.gov

-end-

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Buckingham-1, Bruce, 05:19 PM 2/13/2003 -0500, STATEMENT BY THE COLUMBIA ACCIDENT INV

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To: "'1 'ksc-news_release@kscnews.ksc.nasa.gov' (E-mail)" <ksc-news_release@kscnews.ksc.nasa.gov>
Subject: STATEMENT BY THE COLUMBIA ACCIDENT INVESTIGATION BOARD (Feb. 13, 2003)
Date: Thu, 13 Feb 2003 17:19:04 -0500
X-Mailer: Internet Mail Service (5.5.2656.59)

Steve Nesbitt
Columbia Accident Investigation Board Feb. 13, 2003
(Phone: 713/301-9571)

RELEASE: 03-072

STATEMENT BY THE COLUMBIA ACCIDENT INVESTIGATION BOARD (Feb. 13, 2003)

Note: The CAIB has asked NASA for administrative support to release information to the public and the media. The following statement was provided by the CAIB for release.

Thermal Analysis Shows Hot Plasma Possible in Columbia Left Wheel Well Area

Preliminary analysis by a NASA working group this week indicates that the temperature indications seen in Columbia's left wheel well during entry would require the presence of plasma (super heated gas surrounding the orbiter during re-entry).

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 underway, looking at various scenarios in which a breach of some type, allowing plasma into the wheel well area or elsewhere in the wing, could occur.

Other flight data including gear position indicators and drag information does not support the scenario of an early

deployment of the left gear.

The search continues for possible debris from Columbia in the western U.S., but as of early Thursday, no debris further west than Ft. Worth, Texas has been confirmed as Shuttle-related.

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Buckingham-1, Bruce, 02:51 PM 2/13/2003 -0500, COLUMBIA ASTRONAUT REMAINS IDENTIFIED

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Glenn Mahone/Bob Jacobs
Headquarters, Washington Feb. 13, 2003
(Phone: 202/358-1600)

Eileen M. Hawley
Johnson Space Center, Houston
(Phone: 281/483-5111)

RELEASE: 03-070

COLUMBIA ASTRONAUT REMAINS IDENTIFIED

The remains of all seven members of Space Shuttle Columbia's crew have been positively identified at Dover Air Force Base, Del.

"We are comforted by the knowledge we have brought our seven friends home," said Bob Cabana, Director of Flight Crew Operations at the Johnson Space Center. "We are deeply indebted to the communities and volunteers who made this homecoming possible, and brought peace of mind to the crew's families, and the entire NASA family," he said.

The seven astronauts, Rick Husband (Colonel, USAF), Willie McCool (Commander, USN), Michael Anderson (Lieutenant Colonel, USAF), David Brown (Captain, USN), Kalpana Chawla, Laurel Clark (Commander, USN), and Ilan Ramon (Colonel, Israel Air Force), died Saturday, Feb. 1, 2003, when the Space Shuttle Columbia broke up over the southwest United States.

Private memorial services for the crewmembers will take place within the next few weeks. Burial services for Ilan Ramon took place February 11 in Israel.

-end-

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Buckingham-1, Bruce, 09:52 AM 2/14/2003 -0500, STS-107 Mishap Response Status Report #3

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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.

Buckingham-1, Bruce, 09:52 AM 2/14/2003 -0500, STS-107 Mishap Response Status Report #3

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>>

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Subject: STATEMENT BY THE COLUMBIA ACCIDENT INVESTIGATION BOARD (Feb. 13, 2003)
Date: Thu, 13 Feb 2003 17:19:04 -0500
X-Mailer: Internet Mail Service (5.5.2656.59)

Steve Nesbitt
Columbia Accident Investigation Board Feb. 13, 2003
(Phone: 713/301-9571)

RELEASE: 03-072

STATEMENT BY THE COLUMBIA ACCIDENT INVESTIGATION BOARD (Feb. 13, 2003)

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Subject: COLUMBIA ACCIDENT INVESTIGATION BOARD PRESS CONFERENCE
Date: Thu, 13 Feb 2003 15:43:38 -0500
X-Mailer: Internet Mail Service (5.5.2653.19)

Steve Nesbitt
Columbia Accident Investigation Board Feb. 13, 2003
(Phone: 713/301-9571)

Glenn Mahone/Doc Mirelson
Headquarters, Washington
(Phone: 202/358-1600)

NOTE TO EDITORS: N03-015

COLUMBIA ACCIDENT INVESTIGATION BOARD PRESS CONFERENCE

The Columbia Accident Investigation Board (CAIB) will conduct a press conference on Tuesday, Feb. 18 at 3 p.m. EST. The press briefing will be at the Johnson Space Center (JSC), Houston.

CAIB Chairman, retired Navy Admiral Harold W. "Hal" Gehman Jr., will be joined by other members of his investigative team. The press conference will be an opportunity to review with the recent investigatory activities of the CAIB.

The press conference will be broadcast on NASA Television. Reporters may ask questions from selected NASA centers. NASA Television is broadcast on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz.

Media wishing to attend the briefing must contact JSC for accreditation no later than 9 a.m. CST Tuesday, February 18. Accreditation requests, on the letterhead

of the sponsoring media organization, should be faxed to the JSC newsroom
at:
281/483-2000.

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

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-end-

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Glenn Mahone/Bob Jacobs
Headquarters, Washington Feb. 13, 2003
(Phone: 202/358-1600)

Eileen M. Hawley
Johnson Space Center, Houston
(Phone: 281/483-5111)

RELEASE: 03-070

COLUMBIA ASTRONAUT REMAINS IDENTIFIED

The remains of all seven members of Space Shuttle Columbia's crew have been positively identified at Dover Air Force Base, Del.

"We are comforted by the knowledge we have brought our seven friends home," said Bob Cabana, Director of Flight Crew Operations at the Johnson Space Center. "We are deeply indebted to the communities and volunteers who made this homecoming possible, and brought peace of mind to the crew's families, and the entire NASA family," he said.

The seven astronauts, Rick Husband (Colonel, USAF), Willie McCool (Commander, USN), Michael Anderson (Lieutenant Colonel, USAF), David Brown (Captain, USN), Kalpana Chawla, Laurel Clark (Commander, USN), and Ilan Ramon (Colonel, Israel Air Force), died Saturday, Feb. 1, 2003, when the Space Shuttle Columbia broke up over the southwest United States.

Private memorial services for the crewmembers will take place within the next few weeks. Burial services for Ilan Ramon took place February 11 in Israel.

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Subject: JOINT CONGRESSIONAL HEARING RESULTS IN SECOND CHARTER AMENDMENT FOR GEHMAN BOARD
Date: Thu, 13 Feb 2003 10:45:18 -0500
X-Mailer: Internet Mail Service (5.5.2656.59)

Glenn Mahone/Bob Jacobs
Headquarters, Washington
(Phone: 202/358-1600)

Feb. 12, 2003

RELEASE: 03-069

JOINT CONGRESSIONAL HEARING RESULTS IN SECOND CHARTER AMENDMENT FOR GEHMAN BOARD

Based on the recommendations from congressional leaders at today's joint hearing into the Space Shuttle Columbia accident, NASA Administrator Sean O'Keefe today issued a second amendment to the charter of the Space Shuttle Accident Investigation Board. The independent panel is led by Admiral Hal Gehman and is known as the Gehman Board.

The changes to the charter removes any requirement, either real or perceived, that asks Admiral Gehman to coordinate or await approval from NASA for any dimension of the panel's investigation.

Administrator Sean O'Keefe appeared before a joint committee hearing co-chaired by U.S. Senator John McCain, who chairs the Senate Committee on Commerce, Science and Transportation and U.S. Representative Sherwood Boehlert, who chairs the House Science Subcommittee on Space and Aeronautics.

At the hearing, Rep. Boehlert said, "The words of the charter simply do not guarantee the independence and latitude that both the Administrator and the Admiral have sincerely promised. The charter's words need to match everyone's intent now to avoid any problems later. I also continue to believe that several more members should be added to the Board to

ensure that it has the appropriate breadth of experience and expertise."

As a result of the recommendations, the Gehman Board charter was amended a second time. "I want to thank Rep. Boehlert and the rest of the congressional leadership for their insight and concern. There should be no doubt as to the independent nature of this investigative body," added Administrator O'Keefe. "NASA will do whatever it takes to ensure the integrity of the Gehman Board as it works to identify the cause of this horrific accident."

A copy of the amended charter and the complete text of Administrator O'Keefe's opening statement are available on the Internet at www.nasa.gov/columbia/COL_resources.html.

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Date: Thu, 13 Feb 2003 10:39:11 -0500

X-Mailer: Internet Mail Service (5.5.2653.19)

STS-107 Mishap Response Status Report #2

Wednesday, Feb. 12, 2003 - 2 p.m. CST

Two trucks containing debris from the space shuttle Columbia arrived at Kennedy Space Center (KSC) this morning. They were the first bringing debris from Barksdale AFB near Shreveport, La., to KSC where investigators will lay them out, about as they were positioned on Columbia.

Members of the Columbia Accident Investigation Board (CAIB) arrived at KSC about 11 a.m. EST today. The group toured facilities, including the Orbiter Processing Facility Bay 2, housing the Shuttle Endeavour, and Bay 3, where Discovery is undergoing maintenance. The CAIB also visited the Vehicle Assembly Building where Shuttle Atlantis, with its external tank and solid rocket boosters, is atop its mobile launch platform. The CAIB met at intervals throughout the day with KSC officials to get an overview of ground processing activities.

On Thursday the board is scheduled to visit the Solid Rocket Booster (SRB) Disassembly Facility and tour the SRB assembly and refurbishment facilities. Members also will visit the Launch Control Center and Launch Pad 39A, where Columbia was launched.

Retired Navy Admiral Harold Gehman, CAIB chairman, spoke briefly with news media representatives. He said the CAIB wants to look at four things at KSC: launch procedures; Shuttle refurbishment between flights; the Columbia mishap reconstruction site; "and be sure in our own minds the process here for Columbia reconstruction meets our investigatory needs." The efforts will take place in the Reusable Launch Vehicle Hangar located adjacent to the Space Shuttle runway at KSC.

Gehman described the trip to KSC as an orientation visit. He said the CAIB would return to KSC a number of times during the investigation. The CAIB is scheduled to travel to Huntsville, Ala., and then New Orleans before returning to Houston Saturday night. Gehman said Sunday would be a workday,

Buckingham-1, Bruce, 10:39 AM 2/13/2003 -0500, STS-107 Mishap Response Status Report #2

and that the board would be working seven- or six-day weeks "from now on."

More than 2,500 federal, state and local employees continued to search for Columbia debris in Texas and Louisiana today. Officials say they have the resources to cover every body of water in the debris trail within 5 weeks. While teams continue to investigate reports of debris as far west as California, no confirmed pieces of debris from Columbia have been found west of the Fort Worth, Texas area.

Hundreds of items continue to be collected from areas in eastern Texas and western Louisiana. Several hundred items were shipped in the past 24 hours to Barksdale from locations in Lufkin, Nacogdoches and Hemphill, Texas.

The International Space Station's Expedition 6 crew, Commander Ken Bowersox, Flight Engineer Nikolai Budarin and NASA Station Science Officer Don Pettit, took time Wednesday for interviews with CNN, ABC, CBS and NBC representatives. They talked about their shock and grief after being told the morning of Feb. 1 by Johnson Space Center Director Jefferson D. Howell Jr. of the loss of Columbia, and their willingness to remain aboard the ISS as long as necessary.

For more information about NASA on the Internet, see:

www.nasa.gov <<http://www.nasa.gov>>

--end--

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Subject: Latest news on STS-107

Date: Wed, 12 Feb 2003 18:46:32 -0500

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STS-107 NEWS

The latest news on the loss of Columbia and the ensuing investigation can be found on <http://www.nasa.gov/columbia>

Bruce Buckingham
NASA News Chief
Kennedy Space Center, Fla., 32899

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From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: Inquiries From General Public: Loss of Columbia and Its Crew
Cc: jlemke@hq.nasa.gov, mark.kowaleski@hq.nasa.gov, wharkins@hq.nasa.gov, william.bihner@hq.nasa.gov, pruttedg@hq.nasa.gov, wfrazier@hq.nasa.gov, prichard@hq.nasa.gov

For your information, I called Ms. Grimes to ascertain **if this process was available to all NASA Centers.**

1. NASA has a problem. I found that this **Headquarters Process was not fully being worked at NASA Center level. Apparently the process may just be developing at the NASA Center level.**
2. Further NASA Headquarters **is not staffed to handle all of the potential Agency general public inquiries that may be posed to NASA Centers.**
3. Therefore, there will be no **"One NASA" response to inquiries from the general public.**

Recommendation:

a. I understand that Mark Kowaleski is the Code Q Representative to this process, so perhaps he can give you further details.

b. Following the explanation of the process from the Code Q Point of Contact, Mark Kowaleske, pass this concern on to the SMA Directors as it may be of value for keeping SMA responses consistent.

Just some thoughts..

Regards, Jon

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Point of Contact: Teresa Grimes, Code CIC, 358-1280.

INQUIRIES FROM THE GENERAL PUBLIC:
The Loss of Columbia and Its Courageous Crew

In response to NASA's loss of the courageous STS-107 crew and of Space Shuttle Columbia, the general public is expressing their concerns and seeking information regarding this terrible tragedy.

The Public Inquiries Management Office (PIMO), Code CIC, is coordinating official Agency responses with the newly created

Columbia Action Center.

HQ employees receiving e-mail, paper mail, and telephone calls from the general public should forward these inquiries immediately upon receipt to the PIMO. Send e-mails to public-inquiries@hq.nasa.gov and paper mail to Code CIC, room 9Q42. Redirect incoming telephone calls to Bridget Fenner, Team Lead, Public Inquiries Service Center, 358-0909.

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Jonathan B. Mullin

Manager Operational Safety

Emergency Preparedness Coordinator

Headquarters National Aeronautics and Space Administration

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From: jlemke <jlemke@hq.nasa.gov>

Subject: Challenge for Columbia investigators: handling classified

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

6. Challenge for Columbia investigators: handling classified information

COLORADO SPRINGS, Colo. - One challenge facing the board investigating the breakup of the space shuttle Columbia is deciding how to handle potentially sensitive information from a variety of government sensors that monitored the orbiter in its final minutes.

Any data gathered by ground-based missile defense radars, for instance, "could be and probably is classified if it would reveal ... operational capabilities," said Lt. Col. Andy Roake, a spokesman for Air Force Space Command (AFSPC) at Peterson Air Force Base here.

"I know that they're working out the processes" for using such information in the investigation, he said. "The Air Force is committed to providing them with any kind of information that will help. ... It may be just a matter of providing the few people who are part of the investigation [with] that data and basically allowing them to see that on an as-needed basis."

The quantity of data probably won't be a problem. "We have a lot of capability in this country in our national means and there was a lot of attention directed" at the shuttle's return because interest in such events is always high, Michael C. Kostelnik, NASA's deputy associate administrator for the space shuttle program, said last week. He said it's "not unusual ... for a lot of entities to take pictures because it exercises their system on a very useful target. That happens routinely whether you ask for it or not."

Beyond handling sensitive data from specific sensors will be the task of correlating such data from several sensors and linking it to information transmitted by the orbiter itself in its last minutes.

Among government sensors that may offer critical information are Defense Support Program early warning satellites and ground radars, a team intended to help confirm a missile attack. Both have a side mission of helping to monitor objects in space. One DSP satellite is parked over the equator near the East Coast of the U.S and another is located near the West Coast, according to Jeffrey Richelson, an intelligence expert with the Washington-based National Security Archive.

The Ballistic Missile Early Warning System (BMEWS) radars, AFSPC spokesman Roake said, are located at Eglin Air Force Base, Fla.; Thule, Greenland; and Fylingdales, United Kingdom. Two Pave Paws radars, located at Beale Air Force Base, Calif., and Cape Cod, Mass., also are designed to warn of missile attack.

A telescope at the Air Force Research Lab's Starfire Optical Range at Kirtland Air Force Base, N.M., has yielded an image of Columbia in its final

moments, but its precise meaning apparently is not yet clear. Roake said the image was "from a side telescope. It wasn't from the main Starfire optical scope, it was more like a spotting scope ... so it's kind of fuzzy. With the main telescope you could capture images a lot better."

Telescopes of the Ground-based Electro Optical Deep Space Surveillance (GEODSS) system, with one site in Socorro, N.M., may have captured images useful in the investigation, Roake said.

Information from GEODSS and similar systems routinely flows into AFSPC's 1st Space Control Squadron at Cheyenne Mountain, Colo., which normally passes it to NASA so the orbits of shuttles and the International Space Station can be adjusted to avoid space debris.

In the wake of the Columbia disaster, all information gathered by Department of Defense sensors is being sent to accident investigators through U.S. Strategic Command in Omaha, Neb., Roake said.

- Rich Tuttle (richtut@aol.com)

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NASA News
National Aeronautics and
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John F. Kennedy Space Center
Kennedy Space Center, Florida 32899
AC 321-867-2468

For Release: Feb. 11, 2003

KSC Contact: Bruce Buckingham
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MEDIA INVITED TO COVER ARRIVAL OF COLUMBIA ACCIDENT INVESTIGATION BOARD AT KSC FEB. 12

Media representatives will have the opportunity to cover the arrival of the Columbia Accident Investigation Board, at the Kennedy Space Center (KSC) Shuttle Landing Facility (SLF) on Wednesday, Feb. 12. Retired Navy Admiral Harold W. Gehman, Jr., board chairman and the other members of the board are scheduled to arrive at the SLF at about 11 a.m. EST.

In addition, a media pool will be selected to accompany the board and observe some of their activities during their visit to KSC Feb. 12 - 13. Locations the board will tour include the Orbiter Processing Facilities, the Vehicle Assembly Building, the launch pads and the Launch Control Center.

Media may also cover the board's departure from KSC Friday morning. The current planned departure time from the SLF is 7:45 a.m. Friday, Feb. 14.

Buckingham-1, Bruce, 06:19 PM 2/11/2003 -0500, MEDIA INVITED TO COVER ARRIVAL OF COLUM

The independent board is charged with determining what caused the destruction of the Space Shuttle Columbia and the loss of its seven-member crew on Feb. 1 during reentry.

Board members accompanying Admiral Gehman are: Rear Admiral Stephen Turcotte, Commander, U.S. Naval Safety Center, Norfolk, Va.; Major General John L. Barry, Director, Plans and Programs, Headquarters Air Force Materiel Command, Wright-Patterson Air Force Base, Ohio; Major General Kenneth W. Hess, U.S. Air Force Chief of Safety, Washington; Dr. James N. Hallock, Aviation Safety Division Chief, U.S. Department of Transportation, Cambridge, Mass.; Steven B. Wallace, Director, Office of Accident Investigation, Federal Aviation Administration, Washington; Scott Hubbard, Director NASA Ames Research Center, Calif.; Roger E. Tetrault, former Chairman of McDermott International, Inc.; Brigadier General Duane Deal, Commander 21st Space Wing, Peterson Air Force Base, Colo.; and Bryan D. O'Connor, NASA's Associate Administrator for Safety and Mission Assurance.

NOTICE TO EDITORS: Media representatives wishing to participate should be at the KSC Press Site by 10:15 a.m. Wednesday, Feb. 12, for transport to the SLF. Media wishing to attend the Board's departure must be at the press site by 7 a.m. Friday, Feb. 14.

STS-107 badging requirements and security restrictions for the media remain in effect. Media parking will be at Gate 3 on S.R. 405. Additional information regarding accreditation, transportation to the KSC Press Site, and News Center operational hours is available by calling the KSC News Center at (321) 867-2468.

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InfoCom, 09:13 AM 2/12/2003 -0500, Special Notice - Columbia Accident Congressional Hearing o

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Columbia Accident Congressional Hearing on NASA TV

Live coverage of a joint congressional hearing at 9:30 a.m. into the Space Shuttle Columbia accident will be interrupted on NASA Television tomorrow because of a press conference involving the Expedition Six crew on the International Space Station. That interruption is expected to begin about 10:30 a.m. and last approximately 30 minutes.

However, complete live coverage is available on the in-house television system (NASA HQ Internal Channel 24) and can be streamed off the Internet at <http://www.nasa.gov> You may also view the hearing in its entirety in the main auditorium.

NASA Administrator Sean O'Keefe, Deputy Administrator Frederick Gregory, and Associate Administrator for Space Flight William Raddy will testify at the joint hearing co-chaired by U.S. Senator John McCain, who is a ranking member of the Senate Committee on Commerce, Science and Transportation and U.S. Representative Sherwood Boehlert, who chairs the House Science Subcommittee on Space and Aeronautics.

The main auditorium is open to the public and has been used in recent days as a staging area for local media. Reporters may be present during the hearing broadcast. Again, the hearing is available on NASA HQ Internal Channel 24 and on the web.

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Date: Tue, 11 Feb 2003 13:51:59 -0500
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STS-107
Report #26
Monday, February 10, 2003 - 6 p.m. CST
Mission Control Center, Houston, Texas

NASA Administrator Sean O'Keefe reported today approximately 12,000 pieces of debris from the Space Shuttle Columbia have been collected along a 500-mile swath between Ft. Worth, Texas, and the Louisiana-Texas border. The debris is being tagged for identification and transported to the Kennedy Space Center (KSC), Fla., for use in the on-going investigation.

There is no primary or favorite theory as to what caused the Feb. 1 Shuttle accident. Fault-tree analysis and Probability Risk Assessments continue to be important tools to ensure no possible cause is overlooked. NASA's focus is on helping to determine the cause of the accident, finding solutions to the problems, and returning to safe flight operations as soon as possible.

A section of reinforced carbon-carbon from the leading edge of a Shuttle wing was recovered. It is believed to be from the left wing. Teams continue to search for and collect debris. The first pieces of debris are expected to begin the 18-hour journey by truck from Barksdale AFB to KSC on Tuesday and arrive on Wednesday.

Administrator O'Keefe said that NASA has done its best to be open and forthcoming with information about the accident investigation, and that it is time to transition that responsibility to the independent Columbia Accident Investigation Board (CAIB). NASA will continue to release information periodically as appropriate as it becomes available. "We will defer to the CAIB to set the pace of discussions of how the investigation itself is progressing," O'Keefe said. He added that the Board will advise NASA when the data and hardware that has been impounded will be released for continued Shuttle operations.

"We intend to fully support and ensure the Board has independence and

objectivity to proceed as its members feel appropriate," Administrator O'Keefe said. "We will defer to the CAIB to set the pace of discussions of how the investigation is progressing."

O'Keefe said that the NASA Inspector General has been an observer on the ground from the beginning, helping to ensure the independence and objectivity of the CAIB under the terms of the Inspector General Act.

O'Keefe added that he intends to release the CAIB's recommendations to the public as soon as they are available. "It is our responsibility to make that informed judgment public," he said, explaining that the scope and breadth of the Board members' experience in aircraft and other types of accidents is more than NASA could bring to bear on the investigation.

The CAIB will conduct its first press conference at 3 p.m. EST Tuesday, Feb. 11, in Teague Auditorium at the Johnson Space Center, Houston. Board Chairman Harold W. Gehman Jr., will introduce CAIB members and discuss Board structure, activities, and plans for the investigation.

The Expedition 6 crew aboard the International Space Station continued to unpack supplies delivered aboard the Progress-10 resupply ship and to prepare for a 6:34 a.m. EST Tuesday re-boost of the station using the Progress thrusters. The re-boost will last about 22 minutes and increase the Station's orbit approximately 7 miles.

Commander Ken Bowersox, Flight Engineer Nikolai Budarin and NASA Station Science Officer Don Pettit will field questions from reporters during a news conference starting at 9:34 a.m. EST, Tuesday. The news conference will be broadcast on NASA Television with two-way question and answer capability from reporters at NASA centers.

While Shuttle missions are on indefinite hold, there is no urgency to adjust plans regarding the late April launch of a new Russian Soyuz TMA spacecraft or the makeup of its crew. Supplies on the Station are sufficient through June. There are enough propellants on board to maintain the Station's altitude and attitude for a year. Options are being considered with the International Partners to keep the station manned, safe and productive. "First we need to keep the crew safe," said Michael Kostelnik, Deputy Associate Administrator for International Space Station and Space Shuttle, "and second, is to keep the Station safe."

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

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Glenn Mahone/Bob Jacobs
Headquarters, Washington
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Feb. 11, 2003

RELEASE: 03-065

**COLUMBIA ACCIDENT CONGRESSIONAL HEARING
CARRIED ON NASA TELEVISION**

A joint congressional hearing into the Space Shuttle Columbia accident will be carried live on NASA Television tomorrow, Feb. 12, beginning at 9:30 a.m. EST. The hearing is in the Russell Caucus Room (SR-325), Russell Senate Office Building, Washington.

NASA Administrator Sean O'Keefe, Deputy Administrator Frederick Gregory, and Associate Administrator of Space Flight William Readdy will provide testimony about the accident and the investigation being carried out by the Space Shuttle Accident Investigation Board.

The joint hearing will be co-chaired by U.S. Senator John McCain, who is a ranking member of the Senate Committee on Commerce, Science and Transportation and U.S. Representative Sherwood Boehlert, who chairs the House Science Subcommittee on Space and Aeronautics.

NASA Television is broadcast on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz

Additional information about NASA and the accident is available on the Internet at:

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Glenn Mahone/Bob Jacobs
Headquarters, Washington
Feb. 3, 2003
(Phone: 202/358-1600)

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

RELEASE: 03-045

VICE-PRESIDENT TO HONOR COLUMBIA'S CREW AT NATIONAL CATHEDRAL

Vice-President Richard (Dick) B. Cheney will join NASA Administrator Sean O'Keefe Thursday, Feb. 6, at the Washington National Cathedral for a private memorial service to honor the dedicated and brave crew of the Space Shuttle Columbia.

The service is scheduled to begin at 10 a.m. EST at the historic cathedral, which is known as a national house of prayer for all people. Dignitaries, community and political leaders, members of the NASA family, including current and former astronauts, all will come together to pay tribute to the crew, who died Saturday.

The ceremony can be seen on NASA Television and is available on the Internet at www.nasa.gov <<http://www.nasa.gov>>.

NTV is broadcast on AMC-2, transponder 9C, C-Band, located at 85 degrees west longitude. The frequency is 3880.0 MHz. Polarization is vertical and audio is monaural at 6.8 MHz

Additional information about the seven astronauts, Space Shuttle program, and the mission of STS-107 is available on the Internet at <<http://spaceflight.nasa.gov>>.

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