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To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Space Shuttle Columbia - Mission STS-107
Cc:
Bcc:
X-Attachments:

Mr. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of the accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

**Information Withheld Under
FOIA Exemption (b)(6)**

From: [REDACTED]
To: <n.l.heimerl@larc.nasa.gov>
Subject: columbia
Date: Mon, 3 Feb 2003 09:02:10 -0600
X-Mailer: Microsoft Outlook Express 6.00.2600.0000

sup

I hope you can help me. I am very ignorant concerning all the aspects of flying in space, although I watch everything launch and landing. My question is: After whatever it was that fell from the tank, is there anyway that the people on the ground could have maybe not let the Columbia go into orbit to check this out a little more? Once the shuttle left the launching pad, was there no way Houston Control could have programed in the Computers to let it orbit the earth sesveral times before going into outer space ? I know this is like being a Monday Morning QB but I would like to know . My heart goes out to all the families and they are also in my prayers. Mr. Dittmore, hope I spelled his name correctly, has done a wonderful job explaining everything. He puts all this technical terms into terms all of us can understand. Thanks for taking the time to read this. [REDACTED]

To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Space Shuttle Columbia - Mission STS-107
Cc:
Bcc:
X-Attachments:

[REDACTED]
We appreciate your interest in finding the cause of this tragic accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

Information Withheld Under
FOIA Exemption (b)(6)

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

From: [REDACTED]
Sent: Saturday, February 01, 2003 11:26 AM
To: [helpdesk](#)
Subject: re-designed heat shield idea

NASA,

My dad and I have talked in the past about the problems that exist during re-entry of spacecraft into the stratosphere. Now that this tragic disaster has taken place with the shuttle today, we feel compelled to offer our simple idea that would seem to cure the 'heat shield' problems.

Our idea is to install ceramic nozzles that would simply spray a mist of water or another similar solution that would absorb all this excess heat during the re-entry.

I would be very curious and appreciative if I could get a response to this 'idea'.

Dup

With great sincerity and sorrow,

[REDACTED]

[REDACTED]

**Information Withheld Under
FOIA Exemption (b)(6)**

To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: Columbia Reconstruction
Cc:
Bcc:
X-Attachments:

Mr. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of this tragic accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

A suggestion... I will make this as brief as possible.

Because of a project I was working on I thought you might consider this...

1. Overlay debris field with a grid, assigning a unique colour to each West to East grid row.
2. Each colour would go from Dark to Light (or vice versa) by grid square one shade at a time.
3. Each recovered component would be assigned a grid reference.
4. The data would be used to drive 3D rendering software that had been configured for reconstruction of Columbia.
5. The rendered image would display a 3D representation of Columbia showing the colours from the original grid. This would give an excellent visual representation of Columbia showing what sections landed where.

Just a thought. I know it can be done with tables but a picture is worth a thousand words.

Please accept my condolences for the NASA family's loss.

[REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

To: ethames@mail.hq.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Fwd: Columbia Reconstruction
Cc:
Bcc:
X-Attachments:

From: [REDACTED]
To: <feedback+admin@larc.nasa.gov>
Subject: Columbia Reconstruction
Date: Sun, 2 Feb 2003 16:51:04 -0500
X-Priority: 3

Dup

A suggestion... I will make this as brief as possible.

Because of a project I was working on I thought you might consider this...

1. Overlay debris field with a grid, assigning a unique colour to each West to East grid row.
2. Each colour would go from Dark to Light (or vice versa) by grid square one shade at a time.
3. Each recovered component would be assigned a grid reference.
4. The data would be used to drive 3D rendering software that had been configured for reconstruction of Columbia.
5. The rendered image would display a 3D representation of Columbia showing the colours from the original grid. This would give an excellent visual representation of Columbia showing what sections landed where.

Just a thought. I know it can be done with tables but a picture is worth a thousand words.

Please accept my condolences for the NASA family's loss.

[REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Space Shuttle Columbia - Mission STS-107
Cc:
Bcc: r.d.allen@larc.nasa.gov
X-Attachments:

Mr. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of this tragic accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

**Information Withheld Under
FOIA Exemption (b)(6)**

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]
[REDACTED]

Customer has selected 'No Reply'.

Comments:

Hello, I been involved with Nasa from the time I communitcated with Ron Praise aboard the Columbia STS-35/Astro-1, from Dec. 2-10 1990. this was a SAREX mission. The news for todays loss of Columbia is very sad for me. I have some insight which may help, so please get this message to the appropriate authorities. This foam from the main tank to the shuttle, my experience with it from being a body man working on cars, I have actually popped cement with it burning. This in my mind makes me think that during seperation this foam from the seperation of the main tank hit the aileron causing the shuttle to not make its pitches to slow it down, this foam burning on the tiles during re-entry may have been the catapult that caused the loss of maneuverability, thus with the shuttle hitting that critical area for the most heat in the atmosphere to be absorbed by the tiles would have melted the wing or aileron completely off without the heat absorbing tiles. Please send or convey this messag!
e to the team of specalists that are working on this problem. I also suggest on future missions that at least one astronaut do a space walk to examine the complete bottom of the exterior of the tiles. These are my thoughts, If I can be of any further assistance feel free to contact me.

[REDACTED]

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 5.5; Windows 98; Win 9x 4.90)

To: ethames@mail.hq.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Columbia - Mission STS-107
Cc:
Bcc:

X-Attachments:

Date: Sat, 1 Feb 2003 19:08:41 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

**Information Withheld Under
FOIA Exemption (b)(6)**

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]
[REDACTED]

Customer has selected 'No Reply'.

Comments:

Hello, I been involved with Nasa from the time I communitcated with Ron Praise aboard the Columbia STS-35/Astro-1, from Dec. 2-10 1990, this was a SAREX mission. The news for todays loss of Columbia is very sad for me. I have some insight which may help, so please get this message to the appropriate authorities. This foam from the main tank to the shuttle, my experience with it from being a body man working on cars, I have actually popped cement with it burning. This in my mind makes me think that during seperation this foam from the seperation of the main tank hit the aileron causing the shuttle to not make its pitches to slow it down, this foam burning on the tiles during re-entry may have been the catapult that caused the loss of manuverability, thus with the shuttle hitting that critical area for the most heat in the atmosphere to be absorbed by the tiles would have melted the wing or aileron completly off without the heat absorbing tiles. Please send or convey this messag!
e to the team of specalists that are working on this problem. I also suggest on future missions that at least one astronaut do a space walk to examine the complete bottom of the exterior of the tiles. These are my thoughts, If I can be of any further assistance feel free to contact me.

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 5.5; Windows 98; Win 9x 4.90)

Dup

To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Space Shuttle Columbia - Mission STS-107
Cc:
Bcc: r.d.allen@larc.nasa.gov
X-Attachments:

Ms. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of the accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

**Information Withheld Under
FOIA Exemption (b)(6)**

ID: LARC-822
Date: 02/03/2003 (14:07 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

condolences on columbia 7 loss. would an egect module similar to the egect seat on fighter planes be a modification beneficial to future shuttle flights? Were all astronauts could be in amodule which could automatically egect them if trouble in the shuttle with an automatic oarachute when reaching low enough altitude. the module should have a heat sheild and oxygen supply and could be placed in the current cone nose of the existing shuttle design. [REDACTED]

To: ethames@mail.hq.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Columbia - Mission STS-107
Cc:
Bcc:
X-Attachments:

ID: LARC-822
Date: 02/03/2003 (14:07 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

Dup

condolences on columbia 7 loss. would an egect module similar to the egect seat on fighter planes be a modification beneficial to future shuttle flights? Were all astronauts could be in amodule which could automatically egect them if trouble in the shuttle with an automatic oarachute when reaching low enough altitude. the module should have a heat sheild and oxygen supply and could be placed in the currect cone nose of the existing shuttle design [REDACTED]

**Information Withheld Under
FOIA Exemption (b)(6)**

To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: Thank you, Mr. Dittimore
Cc:
Bcc: r.d.allen@larc.nasa.gov
X-Attachments:

Mr. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

**Information Withheld Under
FOIA Exemption (b)(6)**

thank you for the excellent briefings, the patience, the exhaustive sharing of data, the leadership. It's easy to see why our country is the leader in this field with people like you at the helm. My thoughts are with you. [REDACTED]

Do you Yahoo!?
Yahoo! Mail Plus - Powerful. Affordable. Sign up now.
<http://mailplus.yahoo.com>

To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: Langley Feedback Form
Cc:
Bcc:
X-Attachments:

Mr. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of the accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

**Information Withheld Under
FOIA Exemption (b)(6)**

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]
Daytime Phone: [REDACTED]
Home Address: [REDACTED]

Customer has selected 'No Reply'.

Comments:

First I extend my prayers to all the families, and the hard working folks at NASA. Why didn't they dock at the spacestation and inspect or effect any possible repairs? And would that be a viable opt. in the future?

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

To: ethames@mail.hq.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Columbia - Mission STS-107
Cc:
Bcc:

X-Attachments:

Date: Mon, 3 Feb 2003 19:44:40 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

Information Withheld Under
FOIA Exemption (b)(6)

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Daytime Phone: [REDACTED]
Home Address: [REDACTED]

Customer has selected 'No Reply'.

Comments:
First I extend my prayers to all the families, and the hard working folks at NASA. Why did'nt they dock at the spacestation and inspect or effect any possable repairs? And would that be a viable opt. in the future?

Additional Information:
Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

Dup

To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Space Shuttle Columbia - Mission STS-107
Cc:
Bcc: r.d.allen@larc.nasa.gov

X-Attachments:

Mr. [REDACTED]

We appreciate your interest in finding the cause of this tragic accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

From: [REDACTED]
Subject: Web Site Design or Navigation
EMail Address: [REDACTED]

**Information Withheld Under
FOIA Exemption (b)(6)**

Daytime Phone: [REDACTED]
Home Address: N/A

Customer has requested a Reply.

Comments:

My father, [REDACTED] told me about a concern that was neglected at the time of construction. A set of braces were removed from the fuel cell canisters at the rear of the Columbia. They were in a very tight area and min. wall thickness was effected at isolated locations. If heat expanded the canisters they would be turned into explosive balloons with weak spots or if there was an electrical short in the area of one of these weakened walls it could be the root cause of our disaster. I know this work did NOT have to be performed on any other shuttles as the Columbia was first and the modification became a revision for future construction.

Please Forward to correct agency, Thank You. [REDACTED]

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90)

To: ethames@mail.hq.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Columbia - Mission STS-107
Cc:
Bcc:

X-Attachments:

Date: Mon, 3 Feb 2003 21:00:33 -0500 (EST)
To: feedback+site@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Web Site Design or Navigation
EMail Address: [REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

Daytime Phone: [REDACTED]
Home Address: N/A

Customer has requested a Reply.

Dup

Comments:

My father [REDACTED], told me about a concern that was neglected at the time of construction. A set of braces were removed from the fuel cell canisters at the rear of the Columbia. They were in a very tight area and min. wall thickness was effected at isolated locations. If heat expanded the canisters they would be turned into explosive balloons with weak spots or if there was an electrical short in the area of one of these weakened walls it could be the root cause of our disaster. I know this work did NOT have to be performed on any other shuttles as the Columbia was first and the modification became a revision for future construction.

Please Forward to correct agency, Thank You.... [REDACTED]

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90)

To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Space Shuttle Columbia - Mission STS-107
Cc:
Bcc:
X-Attachments:

Mr. [REDACTED]

We appreciate your interest in finding the cause of this tragic accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

**Information Withheld Under
FOIA Exemption (b)(6)**

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Customer has requested a Reply.

Comments:

Analizing the Shuttle's breakup: I suggest that NASA publicize the shuttle's ground track in the media so the people in Ca, AZ, N.Mexico and west Texas could know where to scout out and look for early-in-the-breakup debris. Also, I suggest that the foam impact on the left wing might have become embedded in and attached to some tiles, altering the Thermodynamic and Heat Transfer Properties of the Tiles, causing the burn through and shuttle breakup. Even if the foam impact forces were not strong enough to dislodge a/some tile(s).

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; MSNIA; Windows NT 5.0)

To: ethames@mail.hq.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Columbia - Mission STS-107
Cc:
Bcc:

X-Attachments:

Date: Mon, 3 Feb 2003 23:18:35 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

Information Withheld Under
FOIA Exemption (b)(6)

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Customer has requested a Reply.

Comments:

Analizing the Shuttle's breakup: I suggest that NASA publicize the shuttle's ground track in the media so the people in Ca, AZ, N.Mexico and west Texas could know where to scout out and look for early-in-the-breakup debris. Also, I suggest that the foam impact on the left wing might have become embedded in and attached to some tiles, altering the Thermodynamic and Heat Transfer Properties of the Tiles, causing the burn through and shuttle breakup. Even if the foam impact forces were not strong enough to dislodge a/some tile(s).

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; MSNIA; Windows NT 5.0)

Dup

To: "helpdesk" <helpdesk@sti.nasa.gov>, "[REDACTED]"
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: RE: SIGHTING OF AIRBORNE DEBRIS - SOUTH AFRICA
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Bcc:
X-Attachments:

Hi Eric,

Thanks for forwarding the Columbia messages to us. Langley's Office of External Affairs is also responding to each one of the e-mail messages that we receive regarding Space Shuttle Columbia. If you like, you can simply forward the messages you receive to us and we will send a response from the Agency. This way the senders are not receiving two separate messages (one from your office and one from our office).

Cordially,

Cheryl

Information Withheld Under
FOIA Exemption (b)(6)

At 11:04 AM -0500 2/4/03, helpdesk wrote:

Dear [REDACTED],

Thank you for your expression of sympathy for the loss of the Space Shuttle Columbia on Saturday and for reporting your sighting. I am forwarding your communication to the appropriate NASA organization for further review.

Sincerely,

Eric Vogel

NASA STI Help Desk

ASRC Aerospace Corporation

Phone: 1-301-621-0390

Fax: 1-301-621-0134

E-mail: help@sti.nasa.gov

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 2:43 AM
To: helpdesk
Subject: SIGHTING OF AIRBORNE DEBRIS - SOUTH AFRICA

Hi, my name is [REDACTED]

This report may be unrelated and of no value, but I am not in a position to judge - if of value to your organisation please contact me for any further information you may require in this regard.

Report:

At 23:01B on Saturday nite spotted an orange object - apparently at high altitude - travelling at great speed from West to East over my location in Germiston, South Africa - observation lasted approximately 4 seconds from first sighting to last sighting overhead.

When first sighted the object seemed to be a low level satellite as it appeared to be a dot of yellow/orange colour and moving at an observable speed.

As the object came nearer to my position its trail could be observed - the trail was bright orange/gold - and looked very much like I would expect a meteor or other body burning up in the atmosphere to look. The appearance of the trail was not solid - it appeared to be dense effervesant - much like one sees behind the fireworks rockets one finds around 5th of November each year.

The observation ended when the object was overhead - I looked around to see if it had disappeared behind cloud cover - but no significant clouds were in sight.

SUMMARY:

Large object - travelling at high speed - at high altitude [kilometers] - burning up in atmosphere - direction of travel approximately West to East - final burnout overhead Germiston South Africa - at 23:01 on 1st February 2003.

If this report has no bearing on your Columbia incident, please ignore.

Should you, however, require more accurate details please contact me either telephonically at South Africa [REDACTED] or

Cell phone [REDACTED] or

Fax [REDACTED] or

e-mail : [REDACTED]

**Information Withheld Under
FOIA Exemption (b)(6)**

Please accept my sympathies for the loss resulting from the loss of the Columbia.

Regards,



Information Withheld Under
FOIA Exemption (b)(6)

To: m.p.finneran@larc.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Columbia Link on LaRC Web Site
Cc: m.m.skora@larc.nasa.gov, r.d.allen@larc.nasa.gov
Bcc:
X-Attachments:

Mike,

Bob and I think it would be beneficial to put a link to the NASA Columbia web site directly on LaRC's public web site on the front page. This may help cut down on the number of inquiries we receive from the public.

Do we have your approval to do this?

Cheryl

To: Cindy Lee <c.c.lee@larc.nasa.gov>
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: Fwd: proposed email on ISS
Cc: "FINNERAN, MICHAEL P" <M.P.FINNERAN@larc.nasa.gov>, "CRUZ, JONATHAN N" <J.N.CRUZ@larc.nasa.gov>, "BREWER, LAURA M" <L.M.BREWER@larc.nasa.gov>
Bcc:
X-Attachments:

Cindy,

I have been instructed to forward any non-media questions to Evelyn Thames at HQ. We have been sending the non-media requesters a message similar to the one shown below and forwarding the actual comments/questions to Evelyn.

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of the accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

If you like, you can forward the non-media type to me and we will forward them to HQ or you can forward them to HQ directly.

Any media questions should be directed to the Head of Langley's Public Affairs Office, Marny Skora. Marny's office specifically deals with the media.

Thanks,

Cheryl

At 10:27 AM -0400 2/4/03, Cindy Lee wrote:

Cheryl,

In our morning meeting that Del has convened on actions from Columbia, I mentioned to Mike that Jonathan Cruz from our Competency has a standing ISS email site that has had several questions posed to it on the Shuttle incident as related to ISS. This email distribution includes the press, NASA employees, and retirees. While I think Jonathan's responses are well formulated, I was not sure how we would want to handle information coming from a variety of sources that go to the press and thought it best for you to give us guidance on how to proceed with these requests.

Thanks,

Cindy Lee

X-Sender: j.n.cruz@pop.larc.nasa.gov
Date: Mon, 03 Feb 2003 13:37:13 -0500
To: C.C.LEE@larc.nasa.gov
From: Jonathan Cruz <j.n.cruz@larc.nasa.gov>
Subject: proposed email on ISS

Cindy,

I had prepared an email to send to my ISS sightings list to answer some of their questions, but in light of being told to speak about the accident only through Mike Finneran, thought I'd run this by you first.

Basically wanted to know if I could send it, and if so, would it be limited only to NASA employees. I've had several of them call me with concerns about the ISS, and thought I could answer them at one shot.

I'm mainly answering questions as related to the ISS. My list contains mostly NASA employees (or a few retirees), but with a couple of friends who are within the media (whom I've met through my job). If necessary, I can remove them before sending this. (have Holly Oneill Rink who works at Daily Press, Cathy Jorgensen, who worked out here and is now with the New York Times, and actually Mike Finneran is on it as well, so will know if I send this out).

Thanks,

Jonathan

Just a quick note to everyone on my ISS sightings list. I've had several people call me with questions or concerns about the ISS in light of the Columbia tragedy this weekend. Thought I'd answer a few of them here in a group forum. For up-to-date official information on the Columbia accident itself, NASA has set up a website for just that purpose (<http://www.nasa.gov/columbia/>), or I've been told that any questions to LaRC directly related to the accident are to be directed through Mike Finneran (864-6124), Langley's Head, Office of External Affairs.

Why couldn't the Columbia fly to the ISS to check on damage? Or to stay there cramped until another shuttle to be sent up to get them?

Although the shuttle looks like an airplane, once in orbit it cannot just "fly" to another point - at that point it is controlled by orbital mechanics. The amount of energy required to both boost its altitude and change its orbit inclination was just not available. Simply put, the shuttle wasn't carrying (and in fact can't carry) enough fuel to be able to do any of the maneuvers that would have been required to accomplish this.

Why couldn't they do an EVA to check on damage?

EVAs (Extra Vehicular Activities, or "space walks") require much more than just putting on a space suit. The Columbia was not prepared on this mission to perform any (nor do I believe they had any reason to suspect any real problem to justify the dangers associated with performing a space walk, especially an unplanned one). In addition, there are many problems associated with attempting an EVA to the underside of the shuttle - we have only done them within the shuttle payload bay up until now.

Is the ISS in any imminent danger due to the loss of the Columbia? (Questions have ranged from stranding the crew currently on the ISS to loss of reboost to keep the ISS in orbit to resupplying food.)

No. The loss of the Columbia has not affected the safety of the ISS. In fact, the Columbia, being the oldest, and thus heaviest, shuttle in our fleet, had never visited the ISS as its payload capability up to the higher orbit of the ISS was much smaller than any of the other shuttles.

The crew is not stranded. The Russians have regularly supplied fresh Soyuz return modules to the ISS to provide a crew return vehicle in case of emergency for when the shuttle is not present (think Denis Tito or Lance Bass - they went, or were supposed to go, on fresh Soyuz spacecraft up to the ISS, and return on the Soyuz that was already docked at ISS, leaving the fresh one for either the next time or if the permanent crew needed it. The Soyuz is the Russian equivalent of our Apollo module).

Reboost (or orbit maintenance) is primarily provided by the Russian segment of the ISS. They have three modules that have both jets and fuel to provide reboost, one of which is regularly replaced (see next paragraph). The shuttle, when docked, would use any reserve fuel deemed unnecessary for the return trip to reboost the ISS, thus conserving fuel on the Russian segment, but this was just used as an augmentation.

Resupply has normally been done by both the shuttle and the Russian Progress vehicle. In fact, a regularly scheduled Progress launch occurred on Sunday, with a scheduled docking on ISS on Tuesday. The provisions on board the Progress, in addition to what is already on ISS, are adequate to sustain the crew through June, so there is no immediate concern for their safety.

I hope this helps answer some of your questions.

Jonathan

Jonathan N. Cruz
NASA/LaRC Spacecraft and Sensors Branch
j.n.cruz@larc.nasa.gov
757-864-1951

--

Cindy Lee
Deputy Director, Aerospace Systems, Concepts and Analysis Competency (ASCAC)
c.c.lee@larc.nasa.gov
M.S. 327 Phone: (757) 757-864-6533
NASA Langley Research Center FAX: (757) 864-1649
Bldg 1232A, Rm 217
Hampton, VA 23681-0001

To: "Robert D. Allen" <r.d.allen@larc.nasa.gov>
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: Columbia Link on LaRC Web Site
Cc: Mike Finneran <M.P.FINNERAN@larc.nasa.gov>, "Marny M. Skora"
<M.M.SKORA@larc.nasa.gov>

Bcc:

X-Attachments:

Bob,

Good job - Great Idea!

Cheryl

At 12:38 PM -0500 2/4/03, Robert D. Allen wrote:

Cheryl/Mike:

I just talked to Marny about this and showed her a mock-up of the proposed page. She approved, and I am about to 'go live' with it now.

RDA

Mike,

Bob and I think it would be beneficial to put a link to the NASA Columbia web site directly on LaRC's public web site on the front page. This may help cut down on the number of inquiries we receive from the public.

Do we have your approval to do this?

Cheryl

To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Columbia - Mission STS-107 Address
Cc: m.p.finneran@larc.nasa.gov
Bcc:
X-Attachments:

Lynn,

Mike says you are inquiring about an address for schools to send cards or letters to the astronaut families. I received the following address from JSC today:

NASA JSC
Columbia MIT
Mail JA17
Houston, TX 77058-3963

The team at this address will forward the information on to the families or appropriate location.

Cheryl

To: P.D.IDLETT@LaRC.NASA.GOV
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Columbia - Mission STS-107 Address
Cc:
Bcc:
X-Attachments:

Pam,

I spoke with a representative at JSC today. They said the schools could mail their letter(s) to:

NASA Johnson Space Center
Columbia MIT
Mail JA17
Houston, TX 77058-3963

The letters will then be forwarded to the correct families or appropriate location.

Cheryl

To: ██████████
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: My condolence to the families of the Columbia Shuttle
Cc:
Bcc:
X-Attachments:

Mr. ██████████

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. It is comforting for the NASA family to know that we have so much support and concern from the American people and all around the world.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

Hi

I wish to express my condolences and deepest sympathy to all the families of the Pilot's on board the Columbia Shuttle Space Craft. I have followed your progress for many years and of course I have visited your site in Florida and have always been in "awe" at the size of everything there it is truly amazing? But this time there has been a tragic accident and those very brave people risk their lives so that you can continue to explore outer space I hope that you all will continue to do so i follow your progress on my computer here in Ireland all the time.

"by "for now

my

deepest sympathies to them and may they rest in peace.

Yours truly

██████████
██████████

Information Withheld Under
FOIA Exemption (b)(6)

To: P.D.IDLETT@LaRC.NASA.GOV
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Columbia Condolence Cards/Letters
Cc:
Bcc:
X-Attachments:

Pam,

I also saw the following message on the Columbia web site today at <http://www.nasa.gov/columbia>.
The schools could also sent their letters to the address listed below.

Cheryl

The public can send condolence cards to:

Mr. Kent Rominger
Astronaut Office
NASA Johnson Space Center
2101 NASA Road 1
Code CB
Houston, Tex 77058.

To: k.m.reilley@larc.nasa.gov, d.s.drabeck@larc.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Fwd: requests re Columbia
Cc:
Bcc:
X-Attachments:

Karen & Dawn,

Have you heard anything regarding the message shown below from HQ?

Cheryl

X-Sender: sholger1@mail.hq.nasa.gov
Date: Wed, 5 Feb 2003 09:32:13 -0500
To: Terry Pagaduan <Terence.A.Pagaduan@nasa.gov>,
Kim Lewis <kim.lewis@dfrc.nasa.gov>,
"Virginia A. Bittinger" <Virginia.Bittinger@grc.nasa.gov>,
Joan Belt <jbelt@pop200.gsfc.nasa.gov>,
Stella luna <stella.luna1@jsc.nasa.gov>,
Penny Myers <penny.myers@ksc.nasa.gov>,
Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>,
Judy Hollingsworth <Judi.Hollingsworth@msfc.nasa.gov>,
"Diane M. Sims" <Diane.Sims@ssc.nasa.gov>
From: Sharon Holgerson <sholger1@hq.nasa.gov>
Subject: requests re Columbia

Apparently the General Counsel has asked that the Chief Counsels at the Centers designate a specific attorney who will be dedicated to working the FOIA requests for the accident. I am still waiting for guidance on how the whole process at HQ and the Centers will be dealt with.

In the interim, go ahead and log in all requests coming into your office and process them as you normally do. When you log them in, use the word COLUMBIA in the notes section so that these can be sorted out if needed.

Please continue to send me copies of the incoming requests. I will update you on further guidance as I receive it. Thanks Sharon

--

Sharon Holgerson
FOIA Officer
Code PS
202-358-0205

To: r.d.allen@larc.nasa.gov, l.r.rich@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov, m.p.finneran@larc.nasa.gov, i.gilman@larc.nasa.gov, h.k.henry@larc.nasa.gov, k.r.credeur@larc.nasa.gov, c.l.hancock@larc.nasa.gov, s.c.west@larc.nasa.gov, d.g.lawson@larc.nasa.gov, M.PITTS@larc.nasa.gov, C.P.RINK@larc.nasa.gov, m.m.skora@larc.nasa.gov, p.j.verniel@larc.nasa.gov, e.e.finner@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov, G.S.LANGEVIN@larc.nasa.gov, d.e.gause@larc.nasa.gov, a.z.parker@larc.nasa.gov

From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>

Subject: Columbia Condolence Cards Address/Children's Fund

Cc:

Bcc:

X-Attachments:

Just in case you receive inquiries regarding where the public can send condolence cards regarding Columbia STS-107, the address is:

Mr. Kent Rominger
Astronaut Office
NASA Johnson Space Center
2101 NASA Road 1
Code CB
Houston, TX 77058

FYI! - Children's Fund

I have received a few inquiries from the public wanting to donate money to the Columbia crew's children. Some of the inquiries mentioned a fund called the "Space Shuttle Children's Fund" which was also announced on the Larry King Live show last night with a P.O. Box address in Washington, D.C. I spoke with HQ this morning regarding this fund. HQ is looking into it, but as far as they can tell, this is not a NASA sponsored fund. They are trying to find out where it originated. HQ will call me back when they have more info on this fund or wants me to call them if I receive more info on the fund.

Cheryl

X-Sender: k.a.kurke@express.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Wed, 05 Feb 2003 17:59:25 -0500
To: K.E.LOVE@larc.nasa.gov, S.T.GALLAGHER@larc.nasa.gov,
K.M.REILLEY@larc.nasa.gov, C.A.POLEN@larc.nasa.gov,
M.I.MARK@larc.nasa.gov, w.t.mcmurry@larc.nasa.gov,
J.A.ARENA@larc.nasa.gov, C W Cleghorn <C.W.Cleghorn@larc.nasa.gov>,
<Cheryl.W.Cleghorn@nasa.gov>
From: Kathy Ann Kurke <k.a.kurke@larc.nasa.gov>
Subject: request for 3rd party documents regarding Columbia
Cc: M.P.FINNERAN@larc.nasa.gov, D.C.FREEMAN@larc.nasa.gov,
L.M.COUCH@larc.nasa.gov, S.L.YOKUM@larc.nasa.gov

Attached is a HQ memo hot off the press that establishes procedures for processing 3rd party requests to NASA Centers for all records related to Columbia. I have been directed to make sure this policy is in place. Tom will get together with Cheryl to develop a way of getting the word out as appropriate.
Kathy

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-chiefcounsel using -f
X-Sender: cjohnson@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Wed, 05 Feb 2003 16:41:22 -0500
To: william Bierbower <wbierbow@hq.nasa.gov>
From: Carolyn Johnson <cjohnson@hq.nasa.gov>
Subject: Fwd: TO:
Cc: ChiefCounsel@spinoza.public.hq.nasa.gov
Sender: owner-chiefcounsel@lists.hq.nasa.gov

X-Sender: wbierbow@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Wed, 05 Feb 2003 15:10:58 -0500
To: cjohnson@hq.nasa.gov
From: William Bierbower <wbierbow@hq.nasa.gov>
Subject: TO:

Kathy Ann Kurke
Chief Counsel
NASA Langley Research Center

@larc.nasa.gov

Office of Chief Counsel
M.S. 141, 9A Langley Blvd
NASA Langley Research Center,
Hampton, VA 23681-0001

E- mail: k.a.kurke
Phone: (757) 864-3221
FAX: (757) 864-8296

 FOIA -- Columbia records reques

Attch: FOIA - Columbia records
requests

TO: PAO/FOIA Offices

FROM: Assistant Administrator, Office of Public Affairs

SUBJECT: Requests for Records Related to the Columbia Accident

DATE: February 5, 2003

This memorandum establishes the procedures for processing "third party" requests to NASA Centers and Headquarters for all records related to the Columbia/STS-107 accident and related investigations (referred to below as "Columbia-related records"). This memorandum does not establish new procedures, but instead addresses the application of NASA's existing Freedom of Information Act procedures (14 C.F.R. Section 1206) to the unique situation at hand. The goals of this process include assurance of timely responses to requests, thorough documentation of all records requested by and released to third parties, and publication of those records through a NASA internet web site described below.

This policy applies to all "third parties," which is any person or organization other than: 1) NASA employees, 2) NASA contractors involved in the Columbia accident investigation or involved in the Shuttle program, 3) other Federal agencies, and 4) the Columbia Accident Investigation Board (CAIB) chaired by Adm. Gehman, and its supporting contractors. The following procedural guidelines will be followed in handling third-party requests:

- **Processing requests:**

- Any request from third-parties for Columbia-related records will be processed under NASA's Freedom of Information Act (FOIA) procedures, 14 C.F.R. Part 1206, including log-in/log out of all requests.
- Any oral request by a third party for Columbia-related records must be reduced to writing and submitted to the appropriate PAO/FOIA office.
- All draft responses (initial determinations) will be reviewed expeditiously by Chief Counsel (Code GG for Headquarters) and appropriate technical personnel.
- All requests will be processed promptly: the requests and records determined responsive to the requests will be promptly located and reviewed, and timely decisions will be made concerning releasability.
- [Dave Kings' group in Lufin – need to discuss procedures]

- **Daily lists of requests:**

- Center and HQ FOIA offices will compile a daily list of Columbia-related requests and forward their lists daily to a designated attorney contacts (listed below) in the Center Chief Counsel's/General Counsel (Code GG) office.

- **Publicly available web site for released records:**

- Centers' and HQ FOIA Officers will provide NASA Headquarters PAO with all initial determinations and released records [in digital format] on the date they are issued to the requesting party.
- These records will be published promptly on a publicly available web site to be established by HQ PAO.

***Chief Counsels Designated Attorneys (list will be added)**

cc:

Center News Chiefs

X-Sender: k.a.kurke@express.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Wed, 05 Feb 2003 18:35:43 -0500
To: K.E.LOVE@larc.nasa.gov, S.T.GALLAGHER@larc.nasa.gov,
K.M.REILLEY@larc.nasa.gov, C.A.POLEN@larc.nasa.gov,
M.I.MARK@larc.nasa.gov, w.t.mcmurry@larc.nasa.gov,
J.A.ARENA@larc.nasa.gov, C W Cleghorn <C.W.Cleghorn@larc.nasa.gov>,
L.B.BLACKBURN@larc.nasa.gov, R.W.EDWARDS@larc.nasa.gov,
K.G.HAMMERLE@larc.nasa.gov, h.m.galus@larc.nasa.gov,
B.V.GIBBENS@larc.nasa.gov
From: Kathy Ann Kurke <k.a.kurke@larc.nasa.gov>
Subject: Fwd: Columbia accident --PAO/FOIA memo re requests for records
Cc: M.P.FINNERAN@larc.nasa.gov, D.C.FREEMAN@larc.nasa.gov,
L.M.COUCH@larc.nasa.gov, S.L.YOKUM@larc.nasa.gov

A revision to the last one
Kathy

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-chiefcounsel using -f
X-Sender: wbierbow@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Wed, 05 Feb 2003 18:08:29 -0500
To: ChiefCounsel@spinoza.public.hq.nasa.gov
From: William Bierbower <wbierbow@hq.nasa.gov>
Subject: Columbia accident --PAO/FOIA memo re requests for records
Cc: ppastore@hq.nasa.gov, rstephen@hq.nasa.gov, jsteptoe@hq.nasa.gov,
dthomas1@hq.nasa.gov, gmiller@hq.nasa.gov, dgayle@hq.nasa.gov,
George.P.Sloup@nasa.gov, Blakely.A.Lord@nasa.gov,
Kaprice.L.Harris@nasa.gov, David.S.Schuman@nasa.gov,
THowell@nmo.jpl.nasa.gov, Geoffrey.S.Swanson@nasa.gov,
t.mccury@larc.nasa.gov, Christi.L.Dame@nasa.gov,
Robert.Magnuson@ssc.nasa.gov
Sender: owner-chiefcounsel@lists.hq.nasa.gov

Please find attached the latest version of the draft memorandum regarding FOIA treatment of requests for Columbia-related records. This draft contains a revision, in italics, to the draft cc'ed to you by Carolyn Johnson approximately one hour ago, plus the list of Chief Counsels' designated attorneys on the FOIA legal team.

Bill

William J. Bierbower
Senior Attorney
Office of the General Counsel
NASA Headquarters
3rd and E Streets, SW
Washington, D.C.
202-358-1780

This document, including any attachments, contains information that is confidential, protected by the attorney-client or other applicable privileges, or constitutes non-public information. It is intended only for the designated recipient(s). If you are not an intended recipient of this information, please take appropriate steps to destroy this document in its entirety and notify the sender of its destruction. Use, dissemination, distribution, or reproduction of this information by unintended recipients is not authorized and may be unlawful.

Kathy Ann Kurke
Chief Counsel
NASA Langley Research Center

@larc.nasa.gov

Office of Chief Counsel

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NASA Langley Research Center,
Hampton, VA 23681-0001

E- mail: k.a.kurke

Phone: (757) 864-3221
FAX: (757) 864-8296

 FOIA -- Columbia records requ 1

DRAFT 2/5/03 6:00 P.M. Eastern Time

TO: PAO/FOIA Offices
FROM: Assistant Administrator, Office of Public Affairs
SUBJECT: Requests for Records Related to the Columbia Accident
DATE: February __, 2003

This memorandum establishes the procedures for processing “third party” requests to NASA Centers and Headquarters for all records related to the Columbia/STS-107 accident and related investigations (referred to below as “Columbia-related records”). *This memorandum does not establish new procedures, but instead addresses the application of NASA’s existing Freedom of Information Act procedures (14 C.F.R. Section 1206) to the unique situation at hand.* The goals of this process include assurance of timely responses to requests, thorough documentation of all records requested by and released to third parties, and publication of those records through a NASA internet web site described below.

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 - Any request from third-parties for Columbia-related records will be processed under NASA’s Freedom of Information Act (FOIA) procedures, 14 C.F.R. Part 1206, including log-in/log out of all requests.
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 - All requests will be processed promptly: the requests and records determined responsive to the requests will be promptly located and reviewed, and timely decisions will be made concerning releasability.
 - [Dave Kings’ group in Lufin – need to discuss procedures]

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- Centers' and HQ FOIA Officers will provide NASA Headquarters PAO with all initial determinations and released records [in digital format] on the date they are issued to the requesting party.
- These records will be published promptly on a publicly available web site to be established by HQ PAO.

- **Chief Counsels' Designated Attorneys:**

Ames:	George Sloup
Dryden:	Blakely A Lord
Glenn:	Kaprice Harris
Goddard:	David Schuman
JPL/NMO:	Tim Howell
KSC:	Geoff Swanson
LaRC:	Tom McMurry
Marshall:	Christi Dame
Stennis:	Robert Magnuson

cc:
Center News Chiefs

Date: Sat, 1 Feb 2003 19:08:41 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

Information Withheld Under
FOIA Exemption (b)(6)

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Customer has selected 'No Reply'.

Comments:

Hello, I been involved with Nasa from the time I communitcated with Ron Praise aboard the Columbia STS-35/Astro-1, from Dec. 2-10 1990, this was a SAREX mission. The news for todays loss of Columbia is very sad for me. I have some insight which may help, so please get this message to the appropriate authorities. This foam from the main tank to the shuttle, my experience with it from being a body man working on cars, I have actually popped cement with it burning. This in my mind makes me think that during seperation this foam from the seperation of the main tank hit the aileron causing the shuttle to not make its pitches to slow it down, this foam burning on the tiles during re-entry may have been the catapult that caused the loss of manuverability, thus with the shuttle hitting that critical area for the most heat in the atmosphere to be absorbed by the tiles would have melted the wing or aileron completly off without the heat absorbing tiles. Please send or convey this messag!
e to the team of specalists that are working on this problem. I also suggest on future missions that at least one astronaut do a space walk to examine the complete bottom of the exterior of the tiles. These are my thoughts, If I can be of any further assistance feel free to contact me.

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 5.5; Windows 98; Win 9x 4.90)

X-Originating-IP: [REDACTED]
From: [REDACTED]
To: feedback+admin@larc.nasa.gov
Subject: Columbia
Date: Sat, 01 Feb 2003 21:09:25 -0500
X-OriginalArrivalTime: 02 Feb 2003 02:09:25.0952 (UTC) FILETIME=[1C417C00:01C2CA60]

It is indeed a very sad day for the families. May God bless them all. This kind of history making we can well do without.
Is it possible that Columbia may have made contact with some object or small untracked piece of space junk? Something too small to detect. Or something lost and not reported? Something golf ball size at those speeds, wow! My mind's eye can't seem to see the damage. However, you must continue. [REDACTED]

Tired of spam? Get advanced junk mail protection with MSN 8.
<http://join.msn.com/?page=features/junkmail>

**Information Withheld Under
FOIA Exemption (b)(6)**

Date: Sat, 1 Feb 2003 22:56:12 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Customer has selected 'No Reply'.

Comments:

Like many, I am saddened at the loss of life in the recent shuttle tragedy. My question is this: Why can we not have a reentry vehicle specifically suited? It could be carried into space or even built there. It seems as though we think that a spaceship must land like a plane. Why? If it entered the atmosphere the way it exited, it would build up less heat. All you have to do then is apply the brakes. I know that I am ignorant of space aeronautical physics, but it makes little sense to approach landing like a traditional jet. There must be a simpler way with less risk. Thank you for your attention. I know that your efforts will be rewarding.

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

X-Originating-IP: [REDACTED]
From: [REDACTED]
To: [REDACTED]
Subject: News !?!!
Date: Sun, 02 Feb 2003 21:33:50 +0000
X-OriginalArrivalTime: 02 Feb 2003 21:33:50.0712 (UTC) FILETIME=[C6E5D780:01C2CB02]

A few people die in an airplane crash and thats supposed to be news!?!!

What about all the rest of the people that were killed today what about them !
What about all the people killed in car crashes today what about them!

How about all the children that were starved to death today so pope johnny could make money off all of their pain and suffering by pope johnny demanding everyone overpopulate the world to death and then have the local priests stand up and say look at all that starvation over there everybody Quickly give me money.

How come we haven't heard about them on the news, I guess they only talk about them on sunday mornings in church so the priests can make money!!!

WHAT ABOUT THEM !

MSN 8 with e-mail virus protection service: 2 months FREE* <http://join.msn.com/?page=features/virus>

**Information Withheld Under
FOIA Exemption (b)(6)**

From: [REDACTED]
To: <feedback+admin@larc.nasa.gov>
Subject: Columbia Reconstruction
Date: Sun, 2 Feb 2003 16:51:04 -0500
X-Priority: 3

A suggestion... I will make this as brief as possible.

Because of a project I was working on I thought you might consider this...

1. Overlay debris field with a grid, assigning a unique colour to each West to East grid row.
2. Each colour would go from Dark to Light (or vice versa) by grid square one shade at a time.
3. Each recovered component would be assigned a grid reference.
4. The data would be used to drive 3D rendering software that had been configured for reconstruction of Columbia.
5. The rendered image would display a 3D representation of Columbia showing the colours from the original grid. This would give an excellent visual representation of Columbia showing what sections landed where.

Just a thought. I know it can be done with tables but a picture is worth a thousand words.

Please accept my condolences for the NASA family's loss.

[REDACTED]

**Information Withheld Under
FOIA Exemption (b)(6)**

Date: Mon, 3 Feb 2003 11:43:31 -0500 (EST)
To: feedback+site@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Web Site Design or Navigation
EMail Address: [REDACTED]

**Information Withheld Under
FOIA Exemption (b)(6)**

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Customer has requested a Reply.

Comments:

In regard to the shuttle accident:

I saw a photo showing three separate objects which by the fact that their contrails (?) were sensibly parallel seemed to be flying formation. If an explosion had caused their initial separation, should not the trails be divergent, emanating from the point of the explosion? If so, the event that caused their separation must have occurred much farther back along the trail and the initial separation velocity must have been low.

I was a NACA Nut and a NASA engineer for 30 years. I would not be able to sleep if I had not made sure that someone on the investigating team saw what I did.

The photo was published on a CNN News URL,

Sincerely,
[REDACTED]

Additional Information:

Browser: Mozilla/4.76 [en] (Windows NT 5.0; U)

SG-235

Date: Mon, 3 Feb 2003 13:34:56 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Customer has selected 'No Reply'.

Comments:
Worked as Senior engineer for NNS&DD Co. in sixties.
I have an idea for improving the structural integrity and impact resistance of the heat shield tiles.
Would like to discuss it with knowledgeable engineer.

Additional Information:
Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Q312461)

From: [REDACTED]
To: C.W.CLEGHORN@larc.nasa.gov
Date: Mon, 3 Feb 2003 20:20:09 +0100
Subject: Device for impact testing of space shuttle shield
Reply-to: [REDACTED]
X-Confirm-Reading-To: [REDACTED]
X-pmrqc: 1
Priority: normal

**Information Withheld Under
FOIA Exemption (b)(6)**

Dear Mr. Cleghorn,

We were very shocked when we learned about the accident with the Columbia; our thoughts and prayers are with the crew members, their family,s and the American and Israeli people.

We saw the images of the impact during take-off, which can be the cause of the accident, on CNN today. According to CNN, you are focussing your attention on this impact. We know that impact testing (simulation) is very difficult and therefore we would like to offer you our help in finding the cause of the accident.

We have developed a basically very simple method which makes it possible to built an impact device for testing a part of the shield with a number of tiles (or the seam of the loading gear door) under fully realistic impact conditions; that is:

- with precise impact velocities which can be varied from less than 10 m/sec to probably well over 1000 m/sec;
- at variable impact frequencies, and,
- at variable angles of impact.

Tests can be performed with one impact but also with continuous impact. The impacting material and objects (shape of object) can be chosen with sizes up to 50 cm and more; but also fine particle impact can be tested; and simultaneously coarse and fine particles.

Very important for you is that also the temperature and other conditions can be widely varied; for example temperatures from below freezing to well over 1000/1500 degrees and even testing in flames is possible.

The method has been considered for impact testing of air plane materials, which are developed at the Technical University of Delft; unfortunately the University does not have enough funding available yet. Based on this method of impact we have developed a new impact crusher (for stones).

When we can be of any help to you in finding the cause of the accident (and developing a safer shuttle) we would be only too happy to assist you and make our method available to NASA for building such an impact testing device. The test machine can probably be best built by you and we can provide the basics for the design. A computer simulation programm is available.

Wishing you many luck with the investigations and we hope that the shuttle programm will be operational again soon.

Kind regards,

[REDACTED]

[REDACTED]
Phone [REDACTED]
Fax [REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

X-Sender: n.l.heimerl@pop.larc.nasa.gov
X-Priority: 2 (High)
Date: Mon, 03 Feb 2003 14:52:15 -0500
To: r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov
From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
Subject: Fwd: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: n.l.heimerl@larc.nasa.gov

Bob and Cheryl:

Per Mike's email, we are referring the three inquiries (file attached) to you concerning the Columbia event. In each case, they have been told by our help desk that we were referring their comments to the appropriate NASA organization.

Thanks for the help.

Regards,

Lynn Heimerl
STI Program Office

X-Sender: m.p.finneran@pop.larc.nasa.gov
Date: Mon, 3 Feb 2003 14:03:41 -0500
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: k.r.credeur@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,
r.d.allen@larc.nasa.gov

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

Mike:

I understand. Our help desk is thanking folks for their sympathies, referring to the NASA HQ Columbia site, but holding the ones with suggestions and technical questions to forward to the appropriate office (and telling them that we are doing so).

Do you want me to send those to you or hold until you get info from HQ regarding who in NASA will take and handle these questions?

Regards,

Lynn H

At 10:18 AM 2/3/2003 -0500, you wrote:

Lynn, I've asked D.C. for guidance before responding. I haven't heard back yet. I don't mind so much responding by phone, but want to be careful with e-mails since they can be flashed around the world.

Handwritten 'Dup' in the left margin.

I'll let you know when we get guidance.

Thanks.

Mike

Mike:

Both our help desks (for STI and NIX) are getting a lot of inquiries and comments, many of which we can handle. However, do you know what NASA is doing with the ones that request specific information or give suggestions such that we cannot just refer them to the website information? If this being handled via HQ PAO or can you handle them via Langley and is any one specific organization tracking these?

Thanks.

Lynn Heimerl

X-Sender: n.l.heimerl@pop.larc.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 5.0.2
Date: Mon, 03 Feb 2003 09:33:32 -0500
To: "Ronald T. Kurnik" <kurnik@alum.mit.edu>
From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
Subject: Re: Space Shuttle Columbia - Mission STS-107
Cc: n.l.heimerl@larc.nasa.gov, m.p.finneran@larc.nasa.gov

Dear Mr. Kurnik

Thank you for your email. I am forwarding your questions to Michael Finneran here at NASA Langley Research Center since my duties in the STI Program do not put me in a position to know the answers to your questions.

I am confident that the points you mention will be reviewed as NASA determines the causes of the Columbia tragedy and fixes them so they do not occur again. We are all greatly saddened by this loss.

We appreciate you contacting NASA.

Best regards,

Lynn Heimerl
Technical Publications Manager
NASA Scientific and Technical Information Program

At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

- 1) It was mentioned on the news that the crew took photographic (film)

pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because it was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?

2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

Ronald T. Kurnik,
kurnik@alum.mit.edu

--

Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

--

Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

Attachment converted: Macintosh HD:Columbia.inquiries.doc (WDBN/MSWD) (00005375)

Subject: FW: re-designed heat shield idea
Date: Mon, 3 Feb 2003 15:02:37 -0500
Thread-Topic: re-designed heat shield idea
Thread-Index: AcLKDrykcZtTizfHSLy53W4k/HSDPwBgrDVQAACfHkAACpfwMA==
From: "Eric Vogel" <evogel@sti.nasa.gov>
To: <r.d.allen@larc.nasa.gov>
Cc: "Cheryl Cleghorn" <c.w.cleghorn@larc.nasa.gov>

The following message containing a suggestion for improving the Space Shuttle's design after the STS-107 accident is forwarded to your office for further action.

Sincerely,

Eric Vogel

NASA STI Help Desk

help@sti.nasa.gov

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

From: helpdesk
Sent: Monday, February 03, 2003 9:55 AM
To: [REDACTED]
Cc: Lynn Heimerl
Subject: RE: re-designed heat shield idea

**Information Withheld Under
FOIA Exemption (b)(6)**

Dear [REDACTED],

Thank you for your expression of sympathy for the loss of the crew of STS-107 Columbia on Saturday. We appreciate your interest in finding the cause of accident and your suggestion for improving the Shuttle's design and will forward your communication to the appropriate NASA organization.

Sincerely,

For the NASA STI Help Desk,

Eric Vogel

ASRC Aerospace Corp.

help@sti.nasa.gov

The NASA Scientific and Technical Information Program is dedicated to providing superior service. Please help us achieve this goal by completing and submitting the STI Products/Services Feedback form at URL:

<http://poll.larc.nasa.gov/STI/>

If you are a repeat customer who prefers not to submit the survey each time you access service, we will assume that we have provided you satisfactory service; however, if the service was excellent or needs improvement, we would appreciate hearing from you.

Thanks for your cooperation.

**Information Withheld Under
FOIA Exemption (b)(6)**

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

From: [REDACTED]
Sent: Saturday, February 01, 2003 11:26 AM
To: helpdesk
Subject: re-designed heat shield idea

NASA,

My dad and I have talked in the past about the problems that exist during re-entry of spacecraft into the stratosphere. Now that this tragic disaster has taken place with the shuttle today, we feel compelled to offer our simple idea that would seem to cure the 'heat shield' problems.

Our idea is to install ceramic nozzles that would simply spray a mist of water or another similar solution that would absorb all this excess heat during the re-entry.

I would be very curious and appreciative if I could get a response to this 'idea'.

With great sincerity and sorrow,

[REDACTED]

[REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

X-Sender: sti+id@larc.nasa.gov
Date: Mon, 03 Feb 2003 15:04:13 -0500
To: r.d.allen@larc.nasa.gov
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Fwd: Re: NIX Comment (LARC-822)
Cc: c.w.cleghorn@larc.nasa.gov, n.l.heimerl@larc.nasa.gov,
sti+id@larc.nasa.gov

*Forwarded as per Lynn Heimerl, STI Program Office,
... for inquiries that require a technical response, an evaluation of what may have occurred, or that give
suggestions to NASA, respond that you are sending their comments to the appropriate organization within
NASA; these categories of
comments should be sent to r.d.allen@larc.nasa.gov with a cc to c.w.cleghorn@larc.nasa.gov*

[Lynn this reply contains no "sending their comments to the appropriate organization within NASA"
because we responded prior to getting your instructions.]

X-Sender: sti+id@larc.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 5.0.2
Date: Mon, 03 Feb 2003 14:54:23 -0500
To: [REDACTED]
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Re: NIX Comment (LARC-822)
Cc: sti+nix@larc.nasa.gov

[REDACTED]

Thank you for your condolences over the loss of Space Shuttle Columbia and the STS-107 crew.
NASA has a dedicated page for collecting and distributing information about the crew, the mission
and the ongoing investigation. We suggest you direct your comments to the page at URL:
<http://www.nasa.gov/columbia/>

At 02:07 PM 2/3/2003 -0500, you wrote:

ID: LARC-822
Date: 02/03/2003 (14:07 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

condolences on columbia 7 loss. would an egect module similar to the egect seat on fighter planes be a
modification beneficial to future shuttle flights? Were all astronauts could be in amodule which could
automatically egect them if trouble in the shuttle with an automatic oarachute when reaching low enough
altitude. the module should have a heat sheild and oxygen supply and could be placed in the currect cone
nose of the existing shuttle design. [REDACTED]

NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov

**Information Withheld Under
FOIA Exemption (b)(6)**

NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov

X-Sender: c.p.rink@express.larc.nasa.gov
Date: Mon, 3 Feb 2003 16:04:26 -0500
To: "CLEGHORN, CHERYL W" <C.W.CLEGHORN@larc.nasa.gov>
From: Chris Rink <c.p.rink@larc.nasa.gov>
Subject: Fwd: Send inquiries re: Space Shuttle Columbia - Mission STS-107

Hi Cheryl,

Please forward the written response. Thanks.

Chris

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Mon, 3 Feb 2003 15:50:37 -0500
To: Public Services Offic:Public Services Offic:@larc.nasa.gov,
;;J.J.MEEHAN@larc.nasa.gov, M.PITTS@larc.nasa.gov,
L.R.RICH@larc.nasa.gov, M.P.FINNERAN@larc.nasa.gov,
H.K.HENRY@larc.nasa.gov, R.D.ALLEN@larc.nasa.gov,
K.A.BARNSTORFF@larc.nasa.gov, C.P.RINK@larc.nasa.gov,
M.M.SKORA@larc.nasa.gov
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Send inquiries re: Space Shuttle Columbia - Mission STS-107

FYI on how to handle any non-media inquiries that might come to you. Send to Cheryl and Bob any non-media inquiries other than condolences (say thanks - Cheryl has a written response if you wish, pass on to Marny any nice comments such as "really appreciate the work that NASA does", "reminded me of the value of NASA" to Marny for possible RN/media use). Cheryl and Bob will send the non-media ones we can't or shouldn't address to Evelyn Thames, Director of the Public Services Division, Code P, HQ. Karen

Date: Mon, 3 Feb 2003 14:03:41 -0500
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: k.r.credeur@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,
r.d.allen@larc.nasa.gov

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

Mike:

I understand. Our help desk is thanking folks for their sympathies, referring to the NASA HQ Columbia site, but holding the ones with suggestions and technical questions to forward to the appropriate office (and telling them that we are doing so).

Do you want me to send those to you or hold until you get info from HQ regarding who in NASA will take and handle these questions?

Regards,

Lynn H

At 10:18 AM 2/3/2003 -0500, you wrote:

Lynn, I've asked D.C. for guidance before responding. I haven't heard back yet. I don't mind so much responding by phone, but want to be careful with e-mails since they can be flashed around the world. I'll let you know when we get guidance.

Thanks.

Mike

Mike:

Both our help desks (for STI and NIX) are getting a lot of inquiries and comments, many of which we can handle. However, do you know what NASA is doing with the ones that request specific information or give suggestions such that we cannot just refer them to the website information? If this being handled via HQ PAO or can you handle them via Langley and is any one specific organization tracking these?

Thanks.

Lynn Heimerl

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FOIA Exemption (b)(6)**

Date: Mon, 03 Feb 2003 09:33

To: [REDACTED]

From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>

Subject: Re: Space Shuttle Columbia - Mission STS-107

Cc: n.l.heimerl@larc.nasa.gov, m.p.finneran@larc.nasa.gov

Dear Mr. [REDACTED]

Thank you for your email. I am forwarding your questions to Michael Finneran here at NASA Langley Research Center since my duties in the STI Program do not put me in a position to know the answers to your questions.

I am confident that the points you mention will be reviewed as NASA determines the causes of the Columbia tragedy and fixes them so they do not occur again. We are all greatly saddened by this loss.

We appreciate you contacting NASA.

Best regards,

Lynn Heimerl
Technical Publications Manager
NASA Scientific and Technical Information Program

At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

1) It was mentioned on the news that the crew took photographic (film) pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because it was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?

2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

[Redacted signature]

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FOIA Exemption (b)(6)

--
Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

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Karen R. Credeur, Ph.D.
Head, Office of Public Services Phone: 757-864-3307
Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

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Chris Rink
Office of Public Affairs
NASA Langley Research Center
Hampton, Va. 23681-2199
(757) 864-6786 / fax -6166 / cel 344-7711 / Mail Stop 145 / Bldg. 1153

<http://oea.larc.nasa.gov/>

Date: Mon, 3 Feb 2003 14:56:02 -0800 (PST)

From: [REDACTED]

Subject: Thank you, Mr. Dittmore

To: feedback+admin@larc.nasa.gov

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thank you for the excellent briefings, the patience,
the exhaustive sharing of data, the leadership. It's
easy to see why our country is the leader in this
field with people like you at the helm. My thoughts
are with you. [REDACTED]

Do you Yahoo!?

Yahoo! Mail Plus - Powerful. Affordable. Sign up now.

<http://mailplus.yahoo.com>

Date: Mon, 3 Feb 2003 19:44:40 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

Information Withheld Under
FOIA Exemption (b)(6)

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]
Daytime Phone: [REDACTED]
Home Address: [REDACTED]

Customer has selected 'No Reply'.

Comments:

First I extend my prayers to all the families, and the hard working folks at NASA. Why did'nt they dock at the spacestation and inspect or effect any possable repairs? And would that be a viable opt. in the future?

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

Date: Mon, 3 Feb 2003 21:00:33 -0500 (EST)
To: feedback+site@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Web Site Design or Navigation
EMail Address: [REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

Daytime Phone: [REDACTED]
Home Address: N/A

Customer has requested a Reply.

Comments:

My father, [REDACTED] told me about a concern that was neglected at the time of construction. A set of braces were removed from the fuel cell canisters at the rear of the Columbia. They were in a very tight area and min. wall thickness was effected at isolated locations. If heat expanded the canisters they would be turned into explosive balloons with weak spots or if there was an electrical short in the area of one of these weakened walls it could be the root cause of our disaster. I know this work did NOT have to be performed on any other shuttles as the Columbia was first and the modification became a revision for future construction.

Please Forward to correct agency, Thank You [REDACTED]

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90)

X-Sender: m.p.finneran@pop.larc.nasa.gov
Date: Mon, 3 Feb 2003 21:54:16 -0500
To: c.w.cleghorn@larc.nasa.gov, r.d.allen@larc.nasa.gov
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Fwd: how does one see the flight path of the shuttle

Here's another to either respond to or put in the batch for HQ.

Mike

X-Sender: j.m.seaton@express.larc.nasa.gov
Date: Mon, 03 Feb 2003 13:21:55 -0500
To: M P Finneran <M.P.Finneran@larc.nasa.gov>
From: Jeff Seaton <j.m.seaton@larc.nasa.gov>
Subject: Fwd: how does one see the flight path of the shuttle

Mike,

Received this request a moment ago. No idea who this is (it's a Juno account that looks to be temporary) nor how to satisfy the request (if we should at all), but since it is likely related to the Columbia accident, I'm forwarding to you for any action.

Jeff

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FOIA Exemption (b)(6)

From: [REDACTED]
To: j.m.seaton@larc.nasa.gov
Date: Mon, 3 Feb 2003 09:50:23 -0800
Subject: how does one see the flight path of the shuttle
X-Mailer: Juno 5.0.33

like to see 3d model of the flight of the shuttle or any kemps on the last missions, and or all missions. how do i get to see a 3d model of the shuttle or a com board on the internet .thank you.

Jeff Seaton
Learning Technologies Project Leader
Robotics Education Project Leader

Aerospace Systems, Concepts, and Analysis
Competency
NASA Langley Research Center Voice: (757) 864-6687
18D W Taylor St, Room 185A Fax: (757) 864-9713
Mail Stop 139, Bldg 1192D
Hampton, VA 23681
E-mail: j.m.seaton@larc.nasa.gov

Jeff Seaton
Learning Technologies Project Leader
Robotics Education Project Leader

Aerospace Systems, Concepts, and Analysis Competency
NASA Langley Research Center Voice: (757) 864-6687

18D W Taylor St, Room 185A Fax: (757) 864-9713
Mail Stop 139, Bldg 1192D
Hampton, VA 23681
E-mail: j.m.seaton@larc.nasa.gov

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Head, Office of External Affairs
NASA Langley Research Center
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Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

Date: Mon, 3 Feb 2003 23:18:35 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: ██████████
Reply-To: ██████████
Subject: Langley Feedback Form

From: ██████████
Subject: Other
EMail Address: ██████████

**Information Withheld Under
FOIA Exemption (b)(6)**

Daytime Phone: ██████████
Home Address: ██████████
██████████

Customer has requested a Reply.

Comments:

Analizing the Shuttle's breakup: I suggest that NASA publicize the shuttle's ground track in the media so the people in Ca, AZ, N.Mexico and west Texas could know where to scout out and look for early-in-the-breakup debris. Also, I suggest that the foam impact on the left wing might have become embedded in and attached to some tiles, altering the Thermodynamic and Heat Transfer Properties of the Tiles, causing the burn through and shuttle breakup. Even if the foam impact forces were not strong enough to dislodge a/some tile(s).

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; MSNIA; Windows NT 5.0)

X-Sender: sti+id@larc.nasa.gov
Date: Tue, 04 Feb 2003 08:40:44 -0500
To: [REDACTED]
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Re: NIX Comment (LARC-830)
Cc: sti+nix@larc.nasa.gov, r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov

Mr. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew.
You may be contacted to share your idea as we are forwarding your comments to the appropriate organization within NASA.

To monitor news, information, and the ongoing investigation link to:
<http://www.nasa.gov/columbia/>

At 06:48 AM 2/4/2003 -0500, you wrote:

**Information Withheld Under
FOIA Exemption (b)(6)**

ID: LARC-830
Date: 02/04/2003 (06:48 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

HLOO for all the NASA comunity I seur weth you the lost of the 7 astronaut I have agreeet idia for you .
contact to my email and i will explain to you all about .

NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov

X-Sender: sti+id@larc.nasa.gov
Date: Tue, 04 Feb 2003 08:51:32 -0500
To: [REDACTED]
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Re: NIX Comment (LARC-827)
Cc: sti+nix@larc.nasa.gov, r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov

Mr. [REDACTED]

Thank you for your comments. They will be forwarded to the appropriate NASA organization.

At 10:53 PM 2/3/2003 -0500, you wrote:

ID: LARC-827
Date: 02/03/2003 (22:53 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

**Information Withheld Under
FOIA Exemption (b)(6)**

Dear Nasa: With the 'Columbia' disaster ever present in my heart and mind, I must tell you that I am appalled. Personally, I would never say anything to anyone about Nasa that would be construed as derogatory. However, I can't help but wonder about the cause of the crash. Something tells me that it could have been prevented. Based on the disclosure that the Astronauts knew that there was a defect in the wing two days before the landing (per CNN). This conjecture leads me to believe that it could have been seen from a Satellite inspection within hours of the liftoff. If this is true, then it my humble opinion that the Space Station could have been reached. And it would have been 100% better to take this for granted. Scuttling the ship would have been far better than erroneously calculating the odds that a landing was a safe bet (15 days later). It's quite possible that a small object could have made a breach in the tiles. This breach could have eroded to a larger hole. I can't believe that We could not know have known in this in short order. Handrails, jetpacks, satellite photo's, Space Station within range during the first week (atleast)? If one dearest friends: Flight Commander Bill Buchanan, Mercury says: it could have been prevented with 60's technology; then don't you surmise that you should take the advantage of superior technology to safeguard precious human cargo? Also, the way one of your bureaucrats choked on the word 'radio-active' makes me really wonder about the other possible causes. I distinctly remember seeing the 'Shuttle Model' in my Grammar school class @ Marquez Elementary in the late '60's. Also, there was a lady that tried to teach us Yoga. She was with the Nasa guy too. I have nothing but respect for your Agency, and proud to have a Constitution and a State in this Nation under God, America. I hope the 43rd President can get your Agency back in the pursuit of Human Space development and exploration of the same. These are my confidential and classified comments. [REDACTED], Form!
er Defense worker

NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov

X-Sender: j.rocker@pop.larc.nasa.gov
Date: Tue, 04 Feb 2003 09:26:53 -0500
To: DNAspinall@aol.com
From: Joanne Rucker <j.rocker@larc.nasa.gov>
Subject: Request for STS 107 patch
Cc: r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,
j.rocker@larc.nasa.gov

Don,

I cannot help you with your request because I am not in the public affairs office. I'm forwarding your message to the public affairs officers at NASA Langley. They may be able to tell you how to get a patch.

Thank you,

JoAnne

**Information Withheld Under
FOIA Exemption (b)(6)**

From: [REDACTED]
Date: Mon, 3 Feb 2003 19:34:23 EST
Subject: Goddard Space Center
To: j.rocker@larc.nasa.gov
X-Mailer: AOL 7.0 for Windows US sub 10637

Hello,

I hope That I am not intruding on your computer.

This past week-end has brought back a "flood" of memories.

I was a back up computer operator at Goddard Space Center ,Greenbelt MD when one of the first space "shots" were done. I cannot remember the pilots name but I believe he made 3 orbits before deploying his parachutes and landing some place in the Atlantic.

That was many years ago and my memory is not what it once was.

I was also stationed at Langley Field when it Was NACA (National Advisory for the Committee of Aeronitics).

I have written to NASA , but no reply. To your knowledge is there any way I may purchase, beg, borrow or steal a patch from STS 107?

Thanks,

[REDACTED]
Ret USAF

X-Originating-IP: [REDACTED]
From: "[REDACTED]"
To: <feedback+admin@larc.nasa.gov>
Subject: Design Correction
Date: Tue, 4 Feb 2003 09:27:33 -0500
X-Priority: 3
X-OriginalArrivalTime: 04 Feb 2003 14:27:35.0174 (UTC) FILETIME=[8F83F260:01C2CC59]

[REDACTED]
[REDACTED]
[REDACTED]
Email: [REDACTED]
[REDACTED]

SHUTTLE FAILURE PANACEA

Sir,

This is an adendum to a previous memo suggestion. A lightweight POLYCARBONATE CAP should be laminated over the

foam insulation on the NOSE CONE and extended. This will prevented unduley accelerated aerodynamic forces

near the edge of the cone from catastrophically failing the structure.

Any equitable emolument will be apposite.

Sincerely,

[REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

From: [REDACTED]
Date: Tue, 4 Feb 2003 09:44:56 EST
Subject: hi.....
To: feedback+admin@larc.nasa.gov

Hi,

Does anyone know of a fundraiser called Space Shuttle Childrens Fund?
Please contact me with any info or contacts!!!

Thanx

[REDACTED]

**Information Withheld Under
FOIA Exemption (b)(6)**

Subject: RE: Specific: a dedication
Date: Tue, 4 Feb 2003 10:30:17 -0500
Thread-Topic: Specific: a dedication
Thread-Index: AcLMXW0/MnY5DnLXSoCXq0vu3tAigQAA2UBg
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear [REDACTED]

Thank you so much for your kind words and your wish to dedicate your new song to the families of the Columbia crew. I am forwarding your message to the NASA Public Affairs Office who can further direct your communication to the appropriate people.

Sincerely,

Eric Vogel

NASA STI Help Desk

ASRC Aerospace Corporation

Information Withheld Under
FOIA Exemption (b)(6)

Phone: 1-301-621-0390

Fax: 1-301-621-0134

E-Mail: help@sti.nasa.gov

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 7:50 PM
To: helpdesk
Subject: Specific: a dedication

Hello from Bulgaria!

We want to dedicate our song "No one between" to the families of the Columbia crew.

It's a song composed by the norwegian composer Oddgeir Rosslund and arranged, performed, recorded and produced by us.

Could you, please, give us advice /if possible/ how can we do this?

Thank you in advance.

Kind regards from [REDACTED]

[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]

here is the link to the song:

<http://popcorn.dir.bg/music/NoOneBetween.mp3>

**Information Withheld Under
FOIA Exemption (b)(6)**

[REDACTED]
[REDACTED]

X-Sender: sti+id@larc.nasa.gov
Date: Tue, 04 Feb 2003 10:34:19 -0500
To: [REDACTED]
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Re: NIX Comment (LARC-831)
Cc: sti+nix@larc.nasa.gov, r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov

Mr. [REDACTED]

Thank you for your comments. We will forward them to the appropriate NASA organization.

At 09:39 AM 2/4/2003 -0500, you wrote:

ID: LARC-831
Date: 02/04/2003 (09:39 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

As I watch the tragedy of Columbia; I had a thought. Why not install sensors connected to each area covered by a tile that would tell Mission Control how many tiles were missing; the temperature of that area at any given time? Is there any way to install a cooling foam line non-combustible foam, that would rush to the area exposed that would lower the temperature on a damaged area--assuming the foam would blow away as soon as it came out but enough available for a limited number of missing tiles-and for the critical minutes of highest reentry heat? I am not an engineer, just thoughts. Thanks for listening. [REDACTED]

NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov

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Subject: RE: Columbia Letters
Date: Tue, 4 Feb 2003 10:50:40 -0500
Thread-Topic: Columbia Letters
Thread-Index: AcLMWiXHNWZC6ZZgSqueuACfdbm5hxQACJ7Cg
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear Mr [REDACTED]

Thank you for your interest and that of your students in the NASA space program. Please send any letters that you wish to be forwarded to the families of the Columbia crew to the NASA Public Affairs Office at the address below. They will coordinate the further delivery.

Mr. Robert Allen
MS 154/Public Affairs Office
NASA Langley Research Center
Hampton, VA 23681-2199

Sincerely,

Eric Vogel
NASA STI Help Desk
ASRC Aerospace Corporation

**Information Withheld Under
FOIA Exemption (b)(6)**

Phone: 301-621-0390
Fax: 301-621-0134
E-Mail: help@sti.nasa.gov

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 9:31 AM
To: helpdesk
Subject: Columbia Letters

Students in the Gifted program at Wichita East High School have been following the space program with great interest. They have decided that they would like to write to the families of the astronauts to express their appreciation and admiration of these heroes.

How might I best forward these letters to ensure that the families receive these letters?

Thank you for your assistance,

[REDACTED]

Subject: RE: shuttle
Date: Tue, 4 Feb 2003 10:55:39 -0500
Thread-Topic: shuttle
Thread-Index: AcLMMHSMUsDDwVeEQzmMckb9PxVCHAANIRyQ
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear [REDACTED]

Thank you for your interest and concern about the loss of STS-107 Columbia. I am forwarding your suggestion to the appropriate NASA organization for further review.

Sincerely,

Eric Vogel
NASA STI Help Desk
ASRC Aerospace Corporation

**Information Withheld Under
FOIA Exemption (b)(6)**

Phone: 1-301-621-0390
Fax: 1-301-621-0134
E-Mail: help@sti.nasa.gov

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 4:34 AM
To: helpdesk
Subject: shuttle

Dear Sir,

I know that you will probably get many emails about the shuttle disaster, but on looking at the meagre facts that we are given, and as I am not a scientist of any form.....I had an idea...could you sandwich carbon fibre in each of the tiles on the shuttle in groups that would possibly stop this from happening again..... I know that you are probably not the right person to talk to but you may be able to forward this to the person that may be interested. [REDACTED]

Subject: RE: SIGHTING OF AIRBORNE DEBRIS - SOUTH AFRICA
Date: Tue, 4 Feb 2003 11:04:35 -0500
Thread-Topic: SIGHTING OF AIRBORNE DEBRIS - SOUTH AFRICA
Thread-Index: AcLMHPYFjOm2kLiqTBKAULzCHSyQLwASM9Kw
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear [REDACTED]

Thank you for your expression of sympathy for the loss of the Space Shuttle Columbia on Saturday and for reporting your sighting. I am forwarding your communication to the appropriate NASA organization for further review.

Sincerely,

Eric Vogel

NASA STI Help Desk

ASRC Aerospace Corporation

Information Withheld Under
FOIA Exemption (b)(6)

Phone: 1-301-621-0390

Fax: 1-301-621-0134

E-mail: help@sti.nasa.gov

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 2:43 AM
To: helpdesk
Subject: SIGHTING OF AIRBORNE DEBRIS - SOUTH AFRICA

Hi, my name is [REDACTED]

This report may be unrelated and of no value, but I am not in a position to judge - if of value to your organisation please contact me for any further information you may require in this regard.

Report:

At 23:01B on Saturday nite spotted an orange object - apparently at high altitude - travelling at great speed from West to East over my location in Germiston, South Africa - observation lasted approximately 4 seconds from first sighting to last sighting overhead.

When first sighted the object seemed to be a low level satellite as it appeared to be a dot of yellow/orange colour and moving at an observable speed.

As the object came nearer to my position its trail could be observed - the trail was bright orange/gold - and looked very much like I would expect a meteor or other body burning up in the atmosphere to look. The appearance of the trail was not solid - it appeared to be dense effervesant - much like one sees behind the fireworks rockets one finds around 5th of November each year.

The observation ended when the object was overhead - I looked around to see if it had disappeared behind cloud cover - but no significant clouds were in sight.

SUMMARY:

Large object - travelling at high speed - at high altitude [kilometers] - burning up in atmosphere - direction of travel approximately West to East - final burnout overhead Germiston South Africa - at 23:01 on 1st February 2003.

If this report has no bearing on your Columbia incident, please ignore.

Should you, however, require more accurate details please contact me either telephonically at South Africa [REDACTED] or

Cell phone [REDACTED] or

Fax [REDACTED] or

e-mail : [REDACTED]

Please accept my sympathies for the loss resulting from the loss of the Columbia.

Regards,

[REDACTED]

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FOIA Exemption (b)(6)**

Server protocol: HTTP/1.1
Remote host: toronto-hse-ppp3745696.sympatico.ca
Remote IP address: 67.68.85.249

**Information Withheld Under
FOIA Exemption (b)(6)**

Subject: RE: NASA STI Program Products and Services Comments
Date: Tue, 4 Feb 2003 12:17:49 -0500
Thread-Topic: NASA STI Program Products and Services Comments
Thread-Index: AcLL2IviJvyY+s3uS/qW4mVThnHk9AAIs3EQ
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: "[REDACTED]"
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear Ms. [REDACTED]

Thank you for your expression of sorrow at the loss of the STS-107 Columbia and its crew and your interest in the NASA space program. I am forwarding your inquiry to the appropriate NASA organization for further review.

Sincerely,

Eric Vogel
NASA STI Help Desk
ASRC Aerospace Corporation

Information Withheld Under
FOIA Exemption (b)(6)

Phone: 1-301-621-0390
Fax: 1-301-621-0134
E-Mail: help@sti.nasa.gov

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

From: Nobody [mailto:nobody@websrv.casi.sti.nasa.gov] *nl*
Sent: Monday, February 03, 2003 6:04 PM
To: helpdesk
Subject: NASA STI Program Products and Services Comments

[REDACTED] sent the following comments about the NASA STI Program Products and Services:

Does the shuttle have pneumatic tires? Could the tires have exploded in the landing gear bay from change in temperature/pressure, with explosive decompression of the gear bay being the triggering event? Almost certainly you have considered this, and probably the tires, to support such a huge weight are only semi-pneumatic at worst. I would be interested if with all the rest that is going on, someone could answer the question about the type of tires? I am sorry for your loss.

Server protocol: HTTP/1.1
Remote host: [REDACTED]
Remote IP address: [REDACTED]

Subject: RE: NASA STI Program Products and Services Comments
Date: Tue, 4 Feb 2003 12:20:53 -0500
Thread-Topic: NASA STI Program Products and Services Comments
Thread-Index: AcLL2XbqC7oIDibOQ2uMLZYKAaaMegAl7Wwg
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear Mr. [REDACTED]

Thank you so much for reporting your sighting on Friday morning. I am forwarding your communication to the appropriate NASA organization for further review.

Sincerely,

Eric Vogel
NASA STI Help Desk
ASRC Aerospace Corporation

Information Withheld Under
FOIA Exemption (b)(6)

Phone: 301-621-0390
Fax: 301-621-0134
E-Mail: help@sti.nasa.gov

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

From: Nobody [mailto:nobody@websrv.casi.sti.nasa.gov]
Sent: Monday, February 03, 2003 6:11 PM
To: helpdesk
Subject: NASA STI Program Products and Services Comments

[REDACTED] sent the following comments about the NASA STI Program Products and Services:

I DON'T KNOW IF THIS IS OF ANY CONSEQUENCE HOWEVER IWANT TO PASS IT ON AS IT PERTAINS TO COLUMBIA. ON FRIDAY MORNING 1/31/03 SOME TIME BETWEEN 5AM AND 6AM I SAW WHAT APPEARED TO BE A METEOR FALL THROUGH THE ATMOSPHERE, HOWEVER IT SEEMED TO BE VERY CLOSE TO EARTH BEFORE IT WAS EXTINGUISHED. I WONDER IF BY SOME CHANCE THE SHUTTLE WAS PASSING OVER ORLANDO/ALTAMONTE SPRINGS AT THAT TIME AND WHAT I SAW WAS ACTUALLY A TILE OFF THE SHUTTLE COMING OFF ON FRIDAY A LITTLE MORE THAN TWENTY FOUR HOURS BEFORE IT ENTERED THE EARTH'S ATMOSPHERE ON SATURDAY. IF IT WAS, PERHAPS THAT WILL HELP YOU PIECE TOGETHER THE PUZZLE. I ONLY SAW THE ONE SITING. I HOPE MAYBE THIS WILL HELP IN SOME WAY.

SINCERELY

[REDACTED]
RET TSGT USAF

Server protocol: HTTP/1.1
Remote host: [REDACTED]

Remote IP address: [REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

Subject: RE: Shuttle thoughts.
Date: Tue, 4 Feb 2003 12:27:52 -0500
Thread-Topic: Shuttle thoughts.
Thread-Index: AcLL5QvmN5i4PPm9REOiUklsexakpwAjPPAw
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear Mr. [REDACTED]

Thank you for your expressions of understanding to the NASA community and the families of the Columbia crew. I am forwarding your comments to the appropriate NASA organization for further review and thank you for your observations.

Sincerely,

Eric Vogel

NASA STI Help Desk

ASRC Aerospace Corporation

Phone: 301-621-0390

Fax: 301-621-0134

E-Mail: help@sti.nasa.gov

**Information Withheld Under
FOIA Exemption (b)(6)**

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

From: [REDACTED]
Sent: Monday, February 03, 2003 7:33 PM
To: helpdesk
Cc: [REDACTED]
Subject: Shuttle thoughts.

Dear Mr. Dettemore, If I may express my most sincere expression of understanding of what you and your cadre are experiencing, and convey my most sincere feeling for the families of the crew. As a former USAF pilot, I might have some understanding of the elements of adventure. Sir, tonight, in your news conference, the press, you understand, is a well of quick sands of honesty and truth. You were more than generous with your statements of the realizations of this tragic event to our "inquiring" press. Sir, as a

victim of the wisdom of the press, may I say that I am probably dealing with a short deck, however considering myself as reasonably perceptive human, may I offer my observation? One, there is no element of discussion that a piece of debris hit the left wing. You described this piece on Fox as a relatively minor piece of debris. Yes, except this small piece could be important, as in the time old saying, "for want of a nail . . ." If I may observe, the piece of debris, in the views that I observed, the errant the forward piece of insulation hit the forward edge of the wing, therefore, the rest of the element would have been swung and with a leveraged impact against the bottom of the wing, perhaps dislodging a tile or two. You are in position to assess such events and implications. If I may observe, the fact that the internal temperatures rose so slowly, and not significantly indicates that perhaps the extraordinary heat was generated on the exterior. This might then suggest that the problem, in fact, was an external phenomenon with the tiles and surface temps, and with the velocities and extraordinary external heat caused dissipation exponentially? All of the best, [REDACTED]

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FOIA Exemption (b)(6)**

From: [REDACTED]
To: "Cheryl Cleghorn" <c.w.cleghorn@larc.nasa.gov>
Subject: Re: SIGHTING OF AIRBORNE DEBRIS - SOUTH AFRICA
Date: Tue, 4 Feb 2003 21:26:20 +0200
X-Priority: 3

Hi Cheryl

thank you for responding to my e-mail.

The following may be coincidental but could well have a bearing on my Saturday nite sighting:

Watching the CNN news at lunch time today I saw the graphics they were showing which indicated the direction of travel of Columbias debris - the track was over Denver [Colorado] then Westwards over Dallas Texas.

Using a desk globe and joining these cities on a great circle I found that if this track was extended to South Africa the track is close to the position of the sighting.

Briefly, this would indicate if debris of some sort could have travelled so far on this track it would have passed near to overhead of my position.

I have no idea how such debris would only appear overhead nearly 10 hours after the break up of the shuttle. Endless speculations could be made, such as delayed entry to the atmosphere from a break up before re-entry, but I am in no position to make any suggestions.

Thanks once again for acknowledging my sighting report.

Regards,

[REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

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

From: Cheryl Cleghorn

To: helpdesk ; [REDACTED]

Cc: Eric Vogel ; r.d.allen@larc.nasa.gov ; Lynn Heimerl

Sent: Tuesday, February 04, 2003 6:38 PM

Subject: RE: SIGHTING OF AIRBORNE DEBRIS - SOUTH AFRICA

Hi Eric,

Thanks for forwarding the Columbia messages to us. Langley's Office of External Affairs is also responding to each one of the e-mail messages that we receive regarding Space Shuttle Columbia. If you like, you can simply forward the messages you receive to us and we will send a response from the Agency. This way the senders are not receiving two separate messages (one from your office and one from our office).

Cordially,

Cheryl

At 11:04 AM -0500 2/4/03, helpdesk wrote:

Dear [REDACTED],

Thank you for your expression of sympathy for the loss of the Space Shuttle Columbia on Saturday and for reporting your sighting. I am forwarding your communication to the appropriate NASA organization for further review.

Sincerely,

Eric Vogel

NASA STI Help Desk

ASRC Aerospace Corporation

Phone: 1-301-621-0390

Fax: 1-301-621-0134

E-mail: help@sti.nasa.gov

Information Withheld Under
FOIA Exemption (b)(6)

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 2:43 AM
To: helpdesk
Subject: SIGHTING OF AIRBORNE DEBRIS - SOUTH AFRICA

Hi, my name is [REDACTED]

This report may be unrelated and of no value, but I am not in a position to judge - if of value to your organisation please contact me for any further information you may require in this regard.

Report:

At 23:01B on Saturday nite spotted an orange object - apparently at high altitude - travelling at great speed from West to East over my location in Germiston, South Africa - observation lasted approximately 4 seconds from first sighting to last sighting overhead.

When first sighted the object seemed to be a low level satellite as it appeared to be a dot of yellow/orange colour and moving at an observable speed.

As the object came nearer to my position its trail could be observed - the trail was bright orange/gold - and looked very much like I would expect a meteor or other body burning up in the atmosphere to look. The appearance of the trail was not solid - it appeared to be dense effervescent - much like one sees behind the fireworks rockets one finds around 5th of November

each year.

The observation ended when the object was overhead - I looked around to see if it had disappeared behind cloud cover - but no significant clouds were in sight.

SUMMARY:

Large object - travelling at high speed - at high altitude [kilometers] - burning up in atmosphere - direction of travel approximately West to East - final burnout overhead Germiston South Africa - at 23:01 on 1st February 2003.

If this report has no bearing on your Columbia incident, please ignore.

Should you, however, require more accurate details please contact me either telephonically at South Africa [REDACTED] or

Cell phone [REDACTED] or

Fax [REDACTED] or

e-mail : [REDACTED]

Please accept my sympathies for the loss resulting from the loss of the Columbia.

Regards,

Information Withheld Under
FOIA Exemption (b)(6)

[REDACTED]

CHERYL CLEGHORN
Public Affairs Specialist
NASA Langley Research Center
Office of Public Services
PHONE: (757) 864-2497
FAX: (757) 864-7732

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

**Information Withheld Under
FOIA Exemption (b)(6)**

X-Originating-IP: [65.235.147.27]
From: "[REDACTED]"
To: <feedback+admin@larc.nasa.gov>
Subject: Attachment Of Poly Rocket booster to Metal Shuttle
Date: Tue, 4 Feb 2003 14:45:35 -0500
X-Priority: 3
X-OriginalArrivalTime: 04 Feb 2003 19:45:35.0848 (UTC) FILETIME=[FC7BBE80:01C2CC85]

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Sir,

This is a tertiary memorandum.

Technology should be pioneered in the attachment of a polycarbonate structure to a metal structure.

This will be invaluable to the Automotive Industry.

A substantial chalk could be placed in the Rocket Mold. The Frame of the Shuttle would then be connected using Bolts, Bearing Plates and a Rubberlike interface. The thrust would be in only one direction. There is a nonmetallic

used in the undercarriage of Plymouth Horizons that wears better than metal.

Sincerely,

[REDACTED]
[REDACTED]

**Information Withheld Under
FOIA Exemption (b)(6)**

Subject: FW: Ground track over California
Date: Tue, 4 Feb 2003 16:44:34 -0500
Thread-Topic: Ground track over California
Thread-Index: AcLMb4pmoVIhbW/3QoG7NppBzMUPUwAJrjzg
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: <r.d.allen@larc.nasa.gov>
Cc: "Cheryl Cleghorn" <c.w.cleghorn@larc.nasa.gov>,
"Eric Vogel" <evogel@sti.nasa.gov>,
"Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 12:04 PM
To: helpdesk
Subject: Ground track over California

First my condolences to the NASA family at this time. Although I have not been an avid follower of the space program I think my friends and I might be helpful at this time in the search for debris from the Columbia tragedy. We and a number of others that I'm aware of are desert rats to one degree or another. I was wondering if NASA might be able to provide an accurate ground track of the Columbia's path. I heard today on one of the news programs that the earliest debris might be the most useful. Since my friends and I spend a good deal of time walking over miles of California desert, we could relocate our outings to the most likely locations. I was thinking of the Owens Valley observations that first noticed problems with Columbia's flight and farther along the flight path over the California desert. Thank you, [REDACTED]

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FOIA Exemption (b)(6)

From: [REDACTED]
Date: Tue, 4 Feb 2003 17:58:42 EST
Subject: Urgent Assistance Requested
To: feedback+admin@larc.nasa.gov

My name is [REDACTED] and I am a Boy Scout volunteer. Every other year we hold a Merit Badge College for the Scouts of Central Virginia. During this time we take over the campus of a local college for a series of Saturday mornings over a six-week period. This year the College opens at 9:00 AM on February 8, 2003. Two of the Merit Badges we offer are Aviation and Space Exploration.

Since all four of the American male astronauts of Columbia were former Scouts and Cmdr McCool was an Eagle Scout and I believe from Virginia, we feel that it would be more than fitting for us to hold a memorial service at the beginning of our Merit Badge College. Therefore, we were wondering if we could borrow for the day a NASA or Columbia flag for the service.

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

BTW: I was a former NASA employee at the Goddard Space Flight Center in Maryland.

**Information Withheld Under
FOIA Exemption (b)(6)**

Date: Tue, 4 Feb 2003 23:20:52 -0500 (EST)
To: feedback+site@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Web Site Design or Navigation
EMail Address: [REDACTED]

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FOIA Exemption (b)(6)**

Daytime Phone:
Home Address:

Customer has requested a Reply.

Comments:
Could the foam have baked on the surface of the left wing and compromised the deflection or the inherent properties of the tiles to stop the intense heat?
[REDACTED]

Additional Information:
Browser: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.2.1) Gecko/20021130

Date: Wed, 5 Feb 2003 03:40:21 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

Customer has requested a Reply.

Comments:

Items that may be considered in the shuttle breakup:

1. The sloughed off foam that hit under the left wing tiles.
2. The foam shard (2.7 lbs) may not have had the force strength to knock the tile(s) off, but it may have embedded into or attached on the tiles and degraded the Thermodynamic or Heat Transfer Properties, causing a thermal break path to the structure underneath, which in turn caused the Breakup.
3. Why now when it didn't happen in previous situations when foam broke away from the external tank and impacted the tiles and nothing bad happened? I heard there was a reformulation of the foam insulation, removing (formaldehyde?), or... anyway a different foam composition. This new formulation may cause the Heat Transfer properties to have different effects causing the burn through of the foam-corrupted-tiles to the vulnerable inside shuttle structure.
4. Spokesman pooh-poohing a 40 deg temp difference. The 40 deg difference wouldn't imply a significant effect on the OUTSIDE(3000 deg) of the shuttle, but IN the INSULATED interior, it is a LARGE Difference.
5. Was there ICE which could have been embedded, along with the foam in micro tile openings or, could the ICE have enough mass to knock a/some tile(s) off?

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; MSNIA; Windows NT 5.0)

X-Originating-IP: [REDACTED]
From: [REDACTED]
To: <feedback+admin@larc.nasa.gov>
Subject: Shuttle Deceleration
Date: Wed, 5 Feb 2003 05:03:13 -0500
X-Priority: 3
X-OriginalArrivalTime: 05 Feb 2003 10:03:13.0621 (UTC) FILETIME=[CBB4C850:01C2CCFD]

Re-entry velocity

Sir,

Shouldn't it be quite possible to lessen the the vellocity of the Shuttle from MACH 6+ during re-entry?

Sincerely,

[REDACTED]
[REDACTED]

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FOIA Exemption (b)(6)**

X-Sender: n.l.heimerl@pop.larc.nasa.gov
Date: Wed, 05 Feb 2003 10:09:20 -0500
To: r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov
From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
Subject: Fwd: Shuttle safety
Cc: n.l.heimerl@larc.nasa.gov

X-Originating-IP: [199.35.194.84]

From: [REDACTED]

To: <n.l.heimerl@larc.nasa.gov>

Subject: Shuttle safety

Date: Wed, 5 Feb 2003 01:27:34 -0500

X-Mailer: MSN Mail 8.00.0022.3100

X-OriginalArrivalTime: 05 Feb 2003 06:27:37.0004 (UTC) FILETIME=[ACE1AEC0:01C2CCDF]

<?xml:namespace prefix="v" /><?xml:namespace prefix="o" />

Dear Sir,

This is a brief note to Nasa, & whoever might be concerned, regarding the lost of the shuttle, has anyone ever tried to secure the foam barrier on the external fuel tank by the means of a woven basket, like they sell frozen turkeys in at grocery stores, in some kind of suitable material.

Regards [REDACTED]
[REDACTED]
[REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

X-Sender: sti+id@larc.nasa.gov
Date: Wed, 05 Feb 2003 13:46:17 -0500
To: c.w.cleghorn@larc.nasa.gov, r.d.allen@larc.nasa.gov
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Fwd: Re: NIX Comment (LARC-827)
Cc: n.l.heimerl@larc.nasa.gov, sti+id@larc.nasa.gov

From: [REDACTED]
To: "NASA STI Information Desk" <sti+id@larc.nasa.gov>
Subject: Re: NIX Comment (LARC-827)
Date: Wed, 5 Feb 2003 12:30:01 -0600
X-Mailer: Microsoft Outlook Express 6.00.2800.1106

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FOIA Exemption (b)(6)**

Dear Nasa:

My humblest apologies for my contention. After a long cry I felt much better. Tears are so comforting. I enjoyed the Memorial, it was very healing to me. Please accept my apology, because I didn't think that it (my note; incase it did) would hit below the belt.

All theory aside, I'm sure you did what's best. By the way Bill Buchanan didn't say that. I said: If. I just didn't have anyway to realize that grief was ever-present in our atmosphere (if you will).

What I said about Marquez elementary school is true. I won't write about it. I'm sure there's an explanation that is not necessary to make. Although I wish to report I found Yoga to be a fascinating theoretical science all its own. I found it to be quite useful as an exercise.

I hope that in the future, I can work for Nasa. I have some interesting data on Yoga, and by-products. I believe what knowledge I may have gained is formed out of the orbital locations of the brain. Therefore, in concert with: Gestalt, and what I call extreme processes (gained in part with interaction of John Lilly, The Presbyterian Church and Self Realization Fellowship), my life's work is focused on the collaboration of technology and consciousness.

Should you need any other clarification please contact me through: [REDACTED]

Anyway, I've dropped all contention in favor of becoming a Geologist. I'm hopeful that I'll find a place to study in great depth, K-State, K-U, or George Washington University (if they have a Geological program)

I consider this message Commitatus Classified and Confidential in its entirety

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

From: NASA STI Information Desk
To: [REDACTED]
Cc: sti+nix@larc.nasa.gov ; r.d.allen@larc.nasa.gov ; c.w.cleghorn@larc.nasa.gov
Sent: Tuesday, February 04, 2003 7:51 AM
Subject: Re: NIX Comment (LARC-827)

Mr. [REDACTED]

Thank you for your comments. They will be forwarded to the appropriate NASA organization.

At 10:53 PM 2/3/2003 -0500, you wrote:

ID: LARC-827
Date: 02/03/2003 (22:53 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

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FOIA Exemption (b)(6)

Dear Nasa: With the 'Columbia' disaster ever present in my heart and mind, I must tell you that I am appalled. Personally, I would never say anything to anyone about Nasa that would be construed as derogatory. However, I can't help but wonder about the cause of the crash. Something tells me that it could have been prevented. Based on the disclosure that the Astronauts knew that there was a defect in the wing two days before the landing (per CNN). This conjecture leads me to believe that it could have been seen from a Satellite inspection within hours of the liftoff. If this is true, then it my humble opinion that the Space Station could have been reached. And it would have been 100% better to take this for granted. Scuttling the ship would have been far better than erroneously calculating the odds that a landing was a safe bet (15 days later). It's quite possible that a small object could have made a breach in the tiles. This breach could have eroded to a larger hole. I can't believe that We could not know have known in this in short order. Handrails, jetpacks, satellite photo's, Space Station within range during the first week (atleast)? If one dearest friends: Flight Commander Bill Buchanan, Mercury says: it could have been prevented with 60's technology; then don't you surmise that you should take the advantage of superior technology to safeguard precious human cargo? Also, the way one of your bureaucrats choked on the word 'radio-active' makes me really wonder about the other possibile causes. I distinctly remember seeing the 'Shuttle Model' in my Grammar school class @ Marquez Elementary in the late '60's. Also, there was a lady that tried to teach us Yoga. She was with the Nasa guy too. I have nothing but respect for your Agency, and proud to have a Constitution and a State in this Nation under God, America. I hope the 43rd President can get your Agency back in the pursuit of Human Space development and exploration of the same. These are my confi dential and classified comments.
[REDACTED], Form!
er Defense worker

NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov

X-Sender: sti+id@larc.nasa.gov
Date: Wed, 05 Feb 2003 14:01:46 -0500
To: r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Fwd: NIX Comment (LARC-834)
Cc: sti+nix@larc.nasa.gov

Date: Wed, 5 Feb 2003 13:44:58 -0500 (EST)
From: [REDACTED]
Reply-To: [REDACTED] (w.h.c.vonofenheim@larc.nasa.gov) *ok*
To: sti+nix@larc.nasa.gov
Subject: NIX Comment (LARC-834)

ID: LARC-834
Date: 02/05/2003 (13:44 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

I Have an Idea about the outer skin of the shuttle. I wonder if you tried to put some type of metal skin over the tiles to protect them during launch, something that would burn off upon reentry into the atmosphere. It seems to me that the tiles are vulnerable to damage during the launch, and any way to protect them would secure a safe return and landing. I have no idea as to how to attach any type of outer skin, but i'm sure all of the engineers you have can figure it out. Just a thought. Our thoughts and prayers go out to the NASA Family, and the loved ones of the Columbia Crew.

NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov

**Information Withheld Under
FOIA Exemption (b)(6)**

X-Sender: msfc\wallsbk/Bryan.Walls@MSECHO3.msfc.nasa.gov (Unverified)
Date: Mon, 3 Feb 2003 10:12:23 -0600
To: Brian Dunbar <bdunbar@mail.hq.nasa.gov>, nasa-webmasters@larc.nasa.gov,
catherine.e.watson1@jsc.nasa.gov, Lynn.A.Jenner.1@gsfc.nasa.gov,
R.D.ALLEN@larc.nasa.gov, Keith.A.Koehler.1@gsfc.nasa.gov,
kay.grinter-1@ksc.nasa.gov, Ed.Medal@msfc.nasa.gov,
david.defelice@grc.nasa.gov, susan.reichley@jpl.nasa.gov,
jenny.baer-riedhart@dfrc.nasa.gov, jdino@mail.arc.nasa.gov,
Dennis.Armstrong-1@ksc.nasa.gov, C.W.Cleghorn@larc.nasa.gov,
ahutchison@mail.arc.nasa.gov, Paul.Foerman@ssc.nasa.gov
From: Bryan Walls <Bryan.K.Walls@nasa.gov>
Subject: Re: Web memorials for 107 crew
Cc: shelley.canright@hq.nasa.gov, christine.johnson@hq.nasa.gov

Not so much a memorial or anything, but I think it is important that we get out some kind of information to our mailing list of 250,000 or so. We told them to go out and look for the shuttle, and quite a few of our readers are probably among those who did see it breaking up.

I think we ought to at least tell them to go to <http://www.nasa.gov/columbia> to find more information or to report what they saw.

Is there an approval process available for the message we send out? It's important that we not be without compassion and feeling in what we say, but I realize the balance must be careful.

I think we also need a link from our main pages to the Columbia page. Will there be some kind of icon (even the mission patch) that is an approved link?

At 3:46 PM -0500 2/1/03, Brian Dunbar wrote:

All,

This is obviously a time of deep grief at NASA and people are starting to think about how to best honor the memory of the STS-107. Less than 7 hours after the tragic loss of the crew, emotions are still very raw, and beyond lowering flags to half-staff, the Administrator himself has not decided the most appropriate means of memorializing the crew. Given that, and out of deference to the families of the crew who are still dealing with the terrible shock, please do not create or post memorial sites or pages for the mission and crew. The timing is simply not appropriate, and we should all follow the Administrator's lead when the time comes.

In the days to come, we will all have an opportunity to show our respect for the crew and our sympathy for their families. In the meantime, if you wish to keep your users up to date on the 107 investigation, please point them to www.nasa.gov. Sometime this weekend we will remove the advisory page from the top level and go back to the standard home page (without the animated introduction) with the rotating Flash banner replaced by a fixed graphic link to the latest information. This is not the way would we have hoped to do load testing on the new hosting environment.

I have sometimes wondered, in my 13 years at NASA, if I would ever have to live through a day like Jan. 27, 1967, or Jan. 28, 1986. Today I can honestly say I would have lived well and happily for all my days without ever having done so.

Brian

--

Bryan Walls
Bryan.K.Walls@nasa.gov
<http://science.nasa.gov>

My words are not NASA policy.
(256)544-3311 voice, 544-7128 fax
<http://liftoff.msfc.nasa.gov> <http://kids.msfc.nasa.gov>

X-Sender: m.p.finneran@pop.larc.nasa.gov
Date: Mon, 3 Feb 2003 14:03:41 -0500
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: k.r.credeur@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,
r.d.allen@larc.nasa.gov

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

Mike:

I understand. Our help desk is thanking folks for their sympathies, referring to the NASA HQ Columbia site, but holding the ones with suggestions and technical questions to forward to the appropriate office (and telling them that we are doing so).

Do you want me to send those to you or hold until you get info from HQ regarding who in NASA will take and handle these questions?

Regards,

Lynn H

At 10:18 AM 2/3/2003 -0500, you wrote:

Lynn, I've asked D.C. for guidance before responding. I haven't heard back yet. I don't mind so much responding by phone, but want to be careful with e-mails since they can be flashed around the world. I'll let you know when we get guidance.

Thanks.

Mike

Mike:

Both our help desks (for STI and NIX) are getting a lot of inquiries and comments, many of which we can handle. However, do you know what NASA is doing with the ones that request specific information or give suggestions such that we cannot just refer them to the website information? If this being handled via HQ PAO or can you handle them via Langley and is any one specific organization tracking these?

Thanks.

Lynn Heimerl

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FOIA Exemption (b)(6)

X-Sender: n.l.heimerl@pop.larc.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 5.0.2
Date: Mon, 03 Feb 2003 09:33:32 -0500
To: [REDACTED]

From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
Subject: Re: Space Shuttle Columbia - Mission STS-107
Cc: n.l.heimerl@larc.nasa.gov, m.p.finneran@larc.nasa.gov

Dear Mr. [REDACTED]

Thank you for your email. I am forwarding your questions to Michael Finneran here at NASA Langley Research Center since my duties in the STI Program do not put me in a position to know the answers to your questions.

I am confident that the points you mention will be reviewed as NASA determines the causes of the Columbia tragedy and fixes them so they do not occur again. We are all greatly saddened by this loss.

We appreciate you contacting NASA.

Best regards,

Lynn Heimerl
Technical Publications Manager
NASA Scientific and Technical Information Program

At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

- 1) It was mentioned on the news that the crew took photographic (film) pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because it was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?
- 2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

[REDACTED]

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FOIA Exemption (b)(6)

--
Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

--

Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Mon, 3 Feb 2003 15:50:37 -0500
To: Public Services Offic:Public Services Offic:@larc.nasa.gov,
;J.J.MEEHAN@larc.nasa.gov, M.PITTS@larc.nasa.gov,
L.R.RICH@larc.nasa.gov, M.P.FINNERAN@larc.nasa.gov,
H.K.HENRY@larc.nasa.gov, R.D.ALLEN@larc.nasa.gov,
K.A.BARNSTORFF@larc.nasa.gov, C.P.RINK@larc.nasa.gov,
M.M.SKORA@larc.nasa.gov
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Send inquiries re: Space Shuttle Columbia - Mission STS-107

FYI on how to handle any non-media inquiries that might come to you. Send to Cheryl and Bob any non-media inquiries other than condolences (say thanks - Cheryl has a written response if you wish, pass on to Marny any nice comments such as "really appreciate the work that NASA does", "reminded me of the value of NASA" to Marny for possible RN/media use). Cheryl and Bob will send the non-media ones we can't or shouldn't address to Evelyn Thames, Director of the Public Services Division, Code P, HQ.
Karen

Date: Mon, 3 Feb 2003 14:03:41 -0500
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: k.r.credeur@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,
r.d.allen@larc.nasa.gov

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Lynn, I've asked D.C. for guidance before responding. I haven't heard back yet. I don't mind so much responding by phone, but want to be careful with e-mails since they can be flashed around the world. I'll let you know when we get guidance.

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Thanks.

Lynn Heimerl

**Information Withheld Under
FOIA Exemption (b)(6)**

Date: Mon, 03 Feb 2003 09:33
To: [REDACTED]
From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
Subject: Re: Space Shuttle Columbia - Mission STS-107
Cc: n.l.heimerl@larc.nasa.gov, m.p.finneran@larc.nasa.gov

Dear Mr. [REDACTED]

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We appreciate you contacting NASA.

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Technical Publications Manager
NASA Scientific and Technical Information Program

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Dear: Lynn Heimerl,

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Dup

send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

[Redacted signature]

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--
Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

Def

Karen R. Credeur, Ph.D.
Head, Office of Public Services
Dep. Head, Office of External Affairs
M.S. 154, NASA
Langley Research Center
Hampton, VA 23681-0001
Phone: 757-864-3307
Fax: 757-864-7732
E-mail: k.r.credeur@larc.nasa.gov

X-Sender: k.r.credeur@express.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Mon, 3 Feb 2003 15:57:16 -0500
To: H.K.HENRY@larc.nasa.gov, L.R.RICH@larc.nasa.gov, M.PITTS@larc.nasa.gov,
Marny Skora <M.M.SKORA@larc.nasa.gov>, M.P.FINNERAN@larc.nasa.gov,
Public Services Offic:Public Services Offic:@larc.nasa.gov,
;J.J.MEEHAN@larc.nasa.gov
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Cancel 2 wk NASA Speakers re Columbia mishap-URGENT

HQ has asked that we cancel our out-reach speakers for the next two weeks and provided directions in what to say in the future before the accident cause is officially released. Details if wished are below.
Karen

Date: Mon, 3 Feb 2003 15:51
To: K.R.Credeur@larc.nasa.gov, J.G.LEHMAN@larc.nasa.gov,
S.C.West@larc.nasa.gov
From: Elaine Gause <D.E.Gause@larc.nasa.gov>
Subject: Fwd: NASA Speakers and the Columbia mishap-URGENT

FYI.

Elaine

X-Sender: dmangel@mail.hq.nasa.gov
Date: Mon, 3 Feb 2003 15:45:02 -0400
To: sajohnson@arc.nasa.gov, lisa.mattox@dfrc.nasa.gov,
rebecca.a.elliott.1@gssc.nasa.gov, marc.a.razze@jpl.nasa.gov,
D.E.Gause@larc.nasa.gov, marcia.cobun@msfc.nasa.gov,
jeanie.maxwell@ssc.nasa.gov, sallie.bilbo@ssc.nasa.gov,
betty.flowers@gssc.nasa.gov,
"Warren-1, Kandy" <Kathleen.Warren-1@kmail.ksc.nasa.gov>,
Cheryl.A.McCallum@grc.nasa.gov
From: "Diane M. Mangel" <dmangel@hq.nasa.gov>
Subject: NASA Speakers and the Columbia mishap-URGENT

Hello All,

Many of you are already receiving requests from the public to have NASA speakers address various aspects of issues relating to the Columbia mishap. Additionally, you have speakers slated to go out in the near future and are concerned about what they can and cannot say if they are asked.

The guidance from the NASA HQ Office of Public Affairs is that you cancel your speaking event for the next 2 weeks. This has also been done for astronaut appearances.

After that time, the general message is that it is too early for anyone to speculate on the incident or on the future of the space program as a result of the incident.

NASA speakers should politely decline discussing it until further notice.

Please call me if you have any questions.

--

Diane M. Mangel
Agency Speakers Bureau Coordinator
Public Services Division
Office of Public Affairs
NASA Headquarters
202/358-1751

--

D. Elaine Gause
Public Affairs Specialist

NASA Langley Research Center
Public Services Office
Mail Stop 154
Hampton, VA 23681-2199

Phone: 757-864-7318, Fax: 757-864-7732
E-Mail: d.e.gause@larc.nasa.gov
Website: www.larc.nasa.gov

--

Karen R. Credeur, Ph.D.
Head, Office of Public Services Phone: 757-864-3307
Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Tue, 4 Feb 2003 08:44:03 -0500
To: Marny Skora <M.M.SKORA@larc.nasa.gov>
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Fwd: Message of Gratitude
Cc: M.P.FINNERAN@larc.nasa.gov, M.PITTS@larc.nasa.gov

| A note from one of our past LARSS students. Karen

X-Originating-IP: [REDACTED]
From: [REDACTED]
To: k.r.credeur@larc.nasa.gov
Subject: Message of Gratitude
Date: Tue, 04 Feb 2003 00:33:24 +0000
X-OriginalArrivalTime: 04 Feb 2003 00:33:26.0141 (UTC) FILETIME=[07F792D0:01C2CBE5]

Dear Karen R. Credeur, Ph.D.

Space shuttle Columbia hit close to my home in Texas. Debris and [REDACTED] were found twenty miles from my house. My heart goes out to those astronauts and to everyone in the space exploration community who try so hard and sacrifice so much to further our knowledge of the solar system we live in. After having an internship at NASA Langley Research Center I feel connected to the space program. Thank you for that experience.

[REDACTED]

Tired of spam? Get [advanced junk mail protection](#) with MSN 8.

--

Karen R. Credeur, Ph.D.
Head, Office of Public Services Phone: 757-864-3307
Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

Information Withheld Under
FOIA Exemption (b)(6)

X-Sender: c.c.lee@express.larc.nasa.gov
Date: Tue, 4 Feb 2003 10:27:56 -0400
To: "CLEGHORN, CHERYL W" <C.W.CLEGHORN@larc.nasa.gov>
From: Cindy Lee <c.c.lee@larc.nasa.gov>
Subject: Fwd: proposed email on ISS
Cc: "FINNERAN, MICHAEL P" <M.P.FINNERAN@larc.nasa.gov>,
"CRUZ, JONATHAN N" <J.N.CRUZ@larc.nasa.gov>,
"BREWER, LAURA M" <L.M.BREWER@larc.nasa.gov>

Cheryl,

In our morning meeting that Del has convened on actions from Columbia, I mentioned to Mike that Jonathan Cruz from our Competency has a standing ISS email site that has had several questions posed to it on the Shuttle incident as related to ISS. This email distribution includes the press, NASA employees, and retirees. While I think Jonathan's responses are well formulated, I was not sure how we would want to handle information coming from a variety of sources that go to the press and thought it best for you to give us guidance on how to proceed with these requests.

Thanks,
Cindy Lee

X-Sender: j.n.cruz@pop.larc.nasa.gov
Date: Mon, 03 Feb 2003 13:37:13 -0500
To: C.C.LEE@larc.nasa.gov
From: Jonathan Cruz <j.n.cruz@larc.nasa.gov>
Subject: proposed email on ISS

Cindy,

I had prepared an email to send to my ISS sightings list to answer some of their questions, but in light of being told to speak about the accident only through Mike Finneran, thought I'd run this by you first. Basically wanted to know if I could send it, and if so, would it be limited only to NASA employees. I've had several of them call me with concerns about the ISS, and thought I could answer them at one shot.

I'm mainly answering questions as related to the ISS. My list contains mostly NASA employees (or a few retirees), but with a couple of friends who are within the media (whom I've met through my job). If necessary, I can remove them before sending this. (have Holly Oneill Rink who works at Daily Press, Cathy Jorgensen, who worked out here and is now with the New York Times, and actually Mike Finneran is on it as well, so will know if I send this out).

Thanks,

Jonathan

Just a quick note to everyone on my ISS sightings list. I've had several people call me with questions or concerns about the ISS in light of the Columbia tragedy this weekend. Thought I'd answer a few of them here in a group forum. For up-to-date official information on the Columbia accident itself, NASA has set up a website for just that purpose (<http://www.nasa.gov/columbia/>), or I've been told that any questions to LaRC directly related to the accident are to be directed through Mike Finneran (864-6124), Langley's Head, Office of External Affairs.

Why couldn't the Columbia fly to the ISS to check on damage? Or to stay there cramped until another shuttle to be sent up to get them?

Although the shuttle looks like an airplane, once in orbit it cannot just "fly" to another point - at that point it is controlled by orbital mechanics. The amount of energy required to both boost its altitude and change its orbit inclination was just not available. Simply put, the shuttle wasn't carrying (and in fact can't carry)

enough fuel to be able to do any of the maneuvers that would have been required to accomplish this.

Why couldn't they do an EVA to check on damage?

EVAs (Extra Vehicular Activities, or "space walks") require much more than just putting on a space suit. The Columbia was not prepared on this mission to perform any (nor do I believe they had any reason to suspect any real problem to justify the dangers associated with performing a space walk, especially an unplanned one). In addition, there are many problems associated with attempting an EVA to the underside of the shuttle - we have only done them within the shuttle payload bay up until now.

Is the ISS in any imminent danger due to the loss of the Columbia? (Questions have ranged from stranding the crew currently on the ISS to loss of reboost to keep the ISS in orbit to resupplying food.)

No. The loss of the Columbia has not affected the safety of the ISS. In fact, the Columbia, being the oldest, and thus heaviest, shuttle in our fleet, had never visited the ISS as its payload capability up to the higher orbit of the ISS was much smaller than any of the other shuttles.

The crew is not stranded. The Russians have regularly supplied fresh Soyuz return modules to the ISS to provide a crew return vehicle in case of emergency for when the shuttle is not present (think Denis Tito or Lance Bass - they went, or were supposed to go, on fresh Soyuz spacecraft up to the ISS, and return on the Soyuz that was already docked at ISS, leaving the fresh one for either the next time or if the permanent crew needed it. The Soyuz is the Russian equivalent of our Apollo module).

Reboost (or orbit maintenance) is primarily provided by the Russian segment of the ISS. They have three modules that have both jets and fuel to provide reboost, one of which is regularly replaced (see next paragraph). The shuttle, when docked, would use any reserve fuel deemed unnecessary for the return trip to reboost the ISS, thus conserving fuel on the Russian segment, but this was just used as an augmentation.

Resupply has normally been done by both the shuttle and the Russian Progress vehicle. In fact, a regularly scheduled Progress launch occurred on Sunday, with a scheduled docking on ISS on Tuesday. The provisions on board the Progress, in addition to what is already on ISS, are adequate to sustain the crew through June, so there is no immediate concern for their safety.

I hope this helps answer some of your questions.

Jonathan

Jonathan N. Cruz
NASA/LaRC Spacecraft and Sensors Branch
j.n.cruz@larc.nasa.gov
757-864-1951

--

Cindy Lee
Deputy Director, Aerospace Systems, Concepts and Analysis Competency (ASCAC)
c.c.lee@larc.nasa.gov
M.S. 327 Phone: (757) 757-864-6533
NASA Langley Research Center FAX: (757) 864-1649
Bldg 1232A, Rm 217
Hampton, VA 23681-0001

X-Sender: D.E.Gause@pop.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Tue, 4 Feb 2003 16:59:30 -0500
To: K.R.CREDEUR@larc.nasa.gov, D.G.LAWSON@larc.nasa.gov,
P.J.VERNIEL@larc.nasa.gov, G.S.LANGEVIN@larc.nasa.gov,
C.W.CLEGHORN@larc.nasa.gov, S.C.WEST@larc.nasa.gov,
C.L.HANCOCK@larc.nasa.gov, E.E.FENNER@larc.nasa.gov,
M.PITTS@larc.nasa.gov, L.R.RICH@larc.nasa.gov,
M.P.FINNERAN@larc.nasa.gov, H.K.HENRY@larc.nasa.gov,
I.GILMAN@larc.nasa.gov, C.P.RINK@larc.nasa.gov,
M.M.SKORA@larc.nasa.gov, R.D.ALLEN@larc.nasa.gov,
K.A.BARNSTORFF@larc.nasa.gov, A.Z.PARKER@larc.nasa.gov
From: Elaine Gause <D.E.Gause@larc.nasa.gov>
Subject: Fwd: STS-107 commemorative

FYI.

If you receive requests reference the email message below, please forward to me, and I will email a collective response.

Thanks,
Elaine

From: "HASSON, ELIZABETH R. (RENE) (JSC-NA) (NASA)"
<elizabeth.r.hasson@nasa.gov>
To: "Elaine Gause (E-mail)" <D.E.Gause@larc.nasa.gov>,
Gail James
<gjames@mail.arc.nasa.gov>,
"JONAS, STEPHEN B. (STEVE) (JSC-BD) (DCMA)"
<stephen.b.jonas1@jsc.nasa.gov>,
"Lynette Raburn (E-mail)"
<lraburn@mail.arc.nasa.gov>,
"Lynne Wiersma (E-mail)"
<Lynne.M.Wiersma@grc.nasa.gov>,
"Monica Palivoda (E-mail)"
<Monica.M.Palivoda@larc.nasa.gov>,
Sandy Meske
<sandy.meske@dfrc.nasa.gov>
Cc: "URPS, GWENDOLYN F. (GWEN) (JSC-NX) (NASA)"
<gwendolyn.f.urps@nasa.gov>,
"ZELON, BARBARA E. (JSC-NA) (NASA)"
<barbara.e.zelon@nasa.gov>
Subject: STS-107 commemorative
Date: Tue, 4 Feb 2003 15:40:04 -0600

SFA is currently working to design some sort of commemorative item for the employees in tribute of the STS-107 crew and Columbia. If you receive requests for other STS-107 memorabilia from your Senior managers, please forward these requests to Gwen Urps at Gwendolyn.f.urps@nasa.gov. Gwen is handling the SFA activities for the Research Centers in the interim until an official selection has been made. You might cc me as well so that I can help Gwen work through your questions and requests. Lynne at GRC had asked about decals and truly reprinting of these products have not been discussed yet.

I have been thinking about the Research Centers and how much this mission meant to all of you especially. I now we all lost the crew and the hardware, but you all lost the research and years of hard work. My thoughts and prayers are with you and your teams as well. Take care. I'll be in touch soon.

X-Sender: sholger1@mail.hq.nasa.gov
Date: Wed, 5 Feb 2003 09:32:13 -0500
To: Terry Pagaduan <Terence.A.Pagaduan@nasa.gov>,
Kim Lewis <kim.lewis@dfrc.nasa.gov>,
"Virginia A. Bittinger" <Virginia.Bittinger@grc.nasa.gov>,
Joan Belt <jbelt@pop200.gsfc.nasa.gov>,
Stella luna <stella.luna1@jsc.nasa.gov>,
Penny Myers <penny.myers@ksc.nasa.gov>,
Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>,
Judy Hollingsworth <Judi.Hollingsworth@msfc.nasa.gov>,
"Diane M. Sims" <Diane.Sims@ssc.nasa.gov>
From: Sharon Holgerson <sholger1@hq.nasa.gov>
Subject: requests re Columbia

Apparently the General Counsel has asked that the Chief Counsels at the Centers designate a specific attorney who will be dedicated to working the FOIA requests for the accident. I am still waiting for guidance on how the whole process at HQ and the Centers will be dealt with.

In the interim, go ahead and log in all requests coming into your office and process them as you normally do. When you log them in, use the word COLUMBIA in the notes section so that these can be sorted out if needed.

Please continue to send me copies of the incoming requests. I will update you on further guidance as I receive it. Thanks Sharon

--
Sharon Holgerson
FOIA Officer
Code PS
202-358-0205

X-Sender: k.a.kurke@express.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Wed, 05 Feb 2003 10:49:51 -0500
To: C.W.CLEGHORN@larc.nasa.gov
From: Kathy Ann Kurke <k.a.kurke@larc.nasa.gov>
Subject: Fwd: Re: Release of documents and information
Cc: M.P.FINNERAN@larc.nasa.gov, w.t.mcmurry@larc.nasa.gov

Cheryl:

FYI. As soon as I learn anything else - I will let you know.

FYI - Bill Bierbower is the HQ lawyer that is working a FOIA team in Code G. Tom McMurry will be our POC.

Kathy

Date: Wed, 05 Feb 2003 10:47:09 -0500
To: William Bierbower <wbierbow@hq.nasa.gov>
From: Kathy Ann Kurke <k.a.kurke@larc.nasa.gov>
Subject: Re: Release of documents and information

Thanks. Did the meeting with Paul after the Chief Counsel briefing last night lead to any particular language you all want us to use regarding filing of FOIA requests? I am going to send out an email today reminding people that all requests for documents by 3rd parties should be processed through the FOIA office. I am also going to advise that this does not, of course, apply to requests from the investigation boards. Those should be provided immediately and without hesitation.

Can I assume that your HQ FOIA group includes the non-lawyer FOIA folks? I certainly need to keep my FOIA officer in the Public Affairs Office aware of any decisions you all are making. Otherwise we may find ourselves working at odds with each other.

Kathy

At 10:35 AM 2/5/2003 -0500, you wrote:

thank you, Kathy, for these helpful and rapidly assembled insights, and thanks to your team of attorneys who immediately accepted our request for assistance.

As you know, things are moving quickly here -- I will keep you informed of developments re FOIA that are not discussed in your daily telecons with Paul.

Bill

At 04:54 PM 2/4/2003 -0500, you wrote:

As I understand your request to my folks, you have asked for a list of top level thoughts for Bill Sikora as his group advises the Admiral and his team regarding FOIA as well as general release of documents and information. Tom McMurry, Karen Reilley, and Jon Arena all put their heads together and came up with the following:

First - the team is comprised of Federal employees - so they are acquiring this information within the scope of their employment. That fact is relevant to most of the following thoughts:

- 1) Much of the information that the board will be considering is information from NASA or other government agencies that might be subject to FOIA requests even if the board itself might not be subject to FOIA. The board should consider this situation before releasing documents received from other agencies.

- 2) If the board opts to make a discretionary disclosure of information outside the government, that could constitute a waiver of an agency's ability to withhold release of the information under a FOIA exemption. The board should understand that once information is released, its future release cannot be withheld based on an applicable FOIA exemption under a "waiver" concept. That is, release to one individual or entity is release to all. Discretionary release of documents or detailed technical information to an individual or entity at an early stage in the investigation could also impede the board's ability to control the progress, timing and focus of the investigation.
- 3) Sometimes other statutes and laws preclude discretionary disclosure of information. Examples include the Privacy Act and the Trade Secrets Act that would preclude release of some information about astronauts and information received from private contractors. FOIA Exemption 6 (The "Personal Privacy Interests" Exemption) was the subject of 1990 litigation regarding the Challenger crew. Exemption 6 was used to withhold release of "the last words of the space shuttle Challenger crew, which revealed the sound and inflection of the crew's voices during the last seconds of their lives..." *New York Times Co. v. NASA*, 920 F2d 1002, 1005 (D.C. Cir 1990).
- 4) As government employees, including the members of the board, it is a crime, under 18 USC 1905 (The Trade Secrets Act), to disclose "proprietary information" received from a contractor except as permitted by law (e.g., pursuant to the FOIA process, judicial discovery process or the like).
- 5) Obviously, it would be inappropriate to release any "classified" information. However, there may also be cause not to release certain unclassified information that could be subject to export controls. Information related to articles listed as Defense Articles within the International Traffic in Arms Regulations (ITAR) generally cannot be released to a non-US citizen, even within the United States, without a license from Dept of State (or a determination that no license is required under an existing exemption). Defense Article Category XV - Space Systems and Associated Equipment restricts disclosure of technical data applicable to "Spacecraft (including communications satellites, remote sensing satellites, scientific satellites, research satellites, navigation satellites, experimental and multi-mission satellites), Ground Control Stations for telemetry, tracking and control of spacecraft...and certain GPS Receiving Equipment." An export control advisor should review technical data related to such equipment to determine its releasability.
- 6) In general, the board will not run afoul of any of the above limitations by publicly referencing to the existence of documents...but the board should carefully consider implications based on the above before discussing the technical information or data within documents that may be subject to limitations on release.
- 7) Some of the information provided to the board could relate to new technology and inventions by NASA or its contractors. Both NASA and its contractors could face difficulty in pursuing patents on such new technology if technical information describing it is prematurely disclosed to the public. This is one of the areas where the board should carefully avoid making discretionary releases that could bring harm to a private company or to NASA.
- 8) Some of the information provided to the board could relate to technology or inventions that NASA uses subject to license agreements from contractors. Under such license agreements, NASA has the ability to use the inventions or technology only for government purposes. Such license agreements would not permit release of underlying technical data for non-government purposes.

Finally - You asked us to consider whether we/NASA could be liable for the board's release of information under certain circumstances.

We have not fully researched the question in the limited time we have had to get back to you. But in the meantime we felt that we could minimize the potential for liability if the Centers alert the board to the existence of contractor proprietary information within information that we provide to the board - along with an explanation that under FOIA we are required to notify the contractors and

consider their responses prior to release of such information. We will continue to research this issue if you so desire.

I will talk to you at 5:00 PM
Kathy

Kathy Ann Kurke
Chief Counsel
NASA Langley Research Center

| | |
|-------------------------------|-----------------------------------|
| Office of Chief Counsel | E- mail: k.a.kurke @larc.nasa.gov |
| M.S. 141, 9A Langley Blvd | Phone: (757) 864-3221 |
| NASA Langley Research Center, | FAX: (757) 864-8296 |
| Hampton, VA 23681-0001 | |

Kathy Ann Kurke
Chief Counsel
NASA Langley Research Center

| | |
|-------------------------------|-----------------------------------|
| Office of Chief Counsel | E- mail: k.a.kurke @larc.nasa.gov |
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Kathy Ann Kurke
Chief Counsel
NASA Langley Research Center

| | |
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| Office of Chief Counsel | E- mail: k.a.kurke @larc.nasa.gov |
| M.S. 141, 9A Langley Blvd | Phone: (757) 864-3221 |
| NASA Langley Research Center, | FAX: (757) 864-8296 |
| Hampton, VA 23681-0001 | |

X-Sender: k.m.reilley@pop.larc.nasa.gov
Date: Wed, 05 Feb 2003 11:01:34 -0500
To: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
From: "Karen M. Reilley" <k.m.reilley@larc.nasa.gov>
Subject: Re: Fwd: requests re Columbia
Cc: D S Drabeck <D.S.Drabeck@larc.nasa.gov>,
"MCMURRY, WILLIAM T, JR" <W.T.MCMURRY@larc.nasa.gov>

Cheryl,

I believe Tom McMurry will be the designated attorney for Columbia FOIA requests. The last I heard from Kathy was that all Columbia-related documents to be released to third parties under FOIA must go through OCC review prior to release.

Karen

At 10:33 AM 2/5/2003 -0500, you wrote:

Karen & Dawn,

Have you heard anything regarding the message shown below from HQ?

Cheryl

X-Sender: sholger1@mail.hq.nasa.gov
Date: Wed, 5 Feb 2003 09:32:13 -0500
To: Terry Pagaduan <Terence.A.Pagaduan@nasa.gov>,
Kim Lewis <kim.lewis@dfrc.nasa.gov>,
"Virginia A. Bittinger" <Virginia.Bittinger@grc.nasa.gov>,
Joan Belt <jbelt@pop200.gsfc.nasa.gov>,
Stella luna <stella.luna1@jsc.nasa.gov>,
Penny Myers <penny.myers@ksc.nasa.gov>,
Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>,
Judy Hollingsworth <Judi.Hollingsworth@msfc.nasa.gov>,
"Diane M. Sims" <Diane.Sims@ssc.nasa.gov>
From: Sharon Holgerson <sholger1@hq.nasa.gov>
Subject: requests re Columbia

Apparently the General Counsel has asked that the Chief Counsels at the Centers designate a specific attorney who will be dedicated to working the FOIA requests for the accident. I am still waiting for guidance on how the whole process at HQ and the Centers will be dealt with.

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Please continue to send me copies of the incoming requests. I will update you on further guidance as I receive it. Thanks Sharon

--

Sharon Holgerson
FOIA Officer
Code PS
202-358-0205

X-Sender: sholger1@mail.hq.nasa.gov
Date: Wed, 5 Feb 2003 15:15:38 -0500
To: Terry Pagaduan <Terence.A.Pagaduan@nasa.gov>,
Kim Lewis <kim.lewis@dfrc.nasa.gov>,
"Virginia A. Bittinger" <Virginia.Bittinger@grc.nasa.gov>,
Joan Belt <jbelt@pop200.gsfc.nasa.gov>,
Stella luna <stella.luna1@jsc.nasa.gov>,
Penny Myers <penny.myers@ksc.nasa.gov>,
Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>,
Judy Hollingsworth <Judi.Hollingsworth@msfc.nasa.gov>,
"Diane M. Sims" <Diane.Sims@ssc.nasa.gov>
From: Sharon Holgerson <sholger1@hq.nasa.gov>
Subject: FOIA log entries

When logging these new requests for the accident, please enter the word COLUMBIA (all caps) in the Document Requested field. Tara is setting up a report for us that will pull a running list for all of the requests so that we don't have to go through so many steps. This report will not show anything from the Notes field. We are going to be required to provide a list on a daily basis so I thought this would make things easier. There is a telecon today at 4:00 with Legal and Public Affairs to give new guidance including FOIA processing. I will keep you all updated the best I can and I'm sure you will also hear directly from your attorneys.

--
Sharon Holgerson
FOIA Officer
Code PS
202-358-0205

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Wed, 5 Feb 2003 17:55:23 -0500
To: J.J.MEEHAN@larc.nasa.gov
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Fwd: Shuttle debris

If anyone calls and tells you that they have shuttle debris, the person should contact their local authorities - the police unless their city / town / rural county has let all know to contact someone else, e.g., local FBI, local NTSB, ... Police is the general place to send them. If they say they think they will instead keep it, tell them the below. Karen

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Wed, 5 Feb 2003 13:02:24 -0500
To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,
i.gilman@larc.nasa.gov, c.p.rink@larc.nasa.gov,
r.d.allen@larc.nasa.gov, w.c.uher@larc.nasa.gov,
k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov,
l.r.rich@larc.nasa.gov, a.z.parker@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Shuttle debris

Take heed

Date: Wed, 5 Feb 2003 13:01:16 -0500
To:
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Fwd: arrests and press conference
Cc:
Bcc:
X-Attachments:

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

X-Sender: rjacobs@mail.hq.nasa.gov
Date: Wed, 05 Feb 2003 12:28:12 -0500
To: News-Chiefs@hq.nasa.gov, PAO-Directors@hq.nasa.gov
From: Robert Jacobs <rjacobs@hq.nasa.gov>
Subject: Fwd: arrests and press conference
Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI... from the NASA IG.

Word is the local attorney general wants to make an example... but that the IG here will offer a 24 hour amnesty. If you have material now... turn it in. Otherwise, if we catch you with it, you're in trouble.

But this will be the first arrest.

bj

X-Sender: pshawcro@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Wed, 05 Feb 2003 11:43:26 -0500

To: Bob Jacobs <rbjacobs@mail.hq.nasa.gov>, Doc Mirelson <rmirelso@mail.hq.nasa.gov>
From: Paul Shawcross <pshawcro@hq.nasa.gov>
Subject: arrests and press conference

Bob, Doc -

Latest news is that there will be a press conference at 1 pm (2 pm Eastern) in Lufkin to announce 2 arrests for taking debris. NASA OIG is not the lead agency, but we will have some agents there, one of whom will mention the misuse of debris web page. Let me know if you need any more information.

- Paul

Paul Shawcross
Executive Officer
NASA Office of Inspector General
Voice: (202) 358-2558
Fax: (202) 358-2767
paul.shawcross@hq.nasa.gov

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

Karen R. Credeur, Ph.D.
Head, Office of Public Services Phone: 757-864-3307
Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

From: [REDACTED]
To: <feedback+admin@larc.nasa.gov>
Subject: My condolence to the families of the Columbia Shuttle
Date: Mon, 3 Feb 2003 20:44:51 -0000
X-Priority: 3

Hi

I wish to express my condolences and deepest sympathy to all the families of the Pilot's on board the Columbia Shuttle Space Craft. I have followed your progress for many years and of course I have visited your site in Florida and have always been in "awe" at the size of everything there it is truly amazing? But this time there has been a tragic accident and those very brave people risk their lives so that you can continue to explore outer space I hope that you all will continue to do so i follow your progress on my computer here in Ireland all the time.

"by "for now

my

deepest sympathies to them and may they rest in peace.

Yours truly

[REDACTED]
[REDACTED]

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FOIA Exemption (b)(6)

Subject: FW: All my condolences for the 7 Heroes....
Date: Tue, 4 Feb 2003 16:43:41 -0500
Thread-Topic: All my condolences for the 7 Heroes....
Thread-Index: AcLMfdhhIOP/VZFCTtqpRSx3YkHkhWAGD87A
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: <r.d.allen@larc.nasa.gov>
Cc: "Cheryl Cleghorn" <c.w.cleghorn@larc.nasa.gov>,
"Eric Vogel" <evogel@sti.nasa.gov>,
"Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 9:56 AM
To: helpdesk
Subject: All my condolences for the 7 Heroes....

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FOIA Exemption (b)(6)

Ladies & Gentlemen,

I don't know if you'll reply to my mail. (Or maybe I've
got the wrong e-mail address).

I'd like you to receive my sincerest condolences after
the tragedy of the shuttle " Columbia ".

I'm very sad.

All my life, I've dreamt to become astronaut (I was 2 years
old when I saw Neil Armstrong on the moon).

These Men & Women who have given their lives for the
spatial research are also the Heroes of America & all the
rest of the World.

Because of you, one day all Mankind will share space in
Peace....

The exploration will go on....

All my pain go to the families & all the American people.

Yours Truly....

[REDACTED]

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X-Sender: sti+id@larc.nasa.gov
Date: Wed, 05 Feb 2003 14:01:46 -0500
To: r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Fwd: NIX Comment (LARC-834)
Cc: sti+nix@larc.nasa.gov

Date: Wed, 5 Feb 2003 13:44:58 -0500 (EST)
From: [REDACTED]
Reply-To: [REDACTED], w.h.c.vonofenheim@larc.nasa.gov
To: sti+nix@larc.nasa.gov
Subject: NIX Comment (LARC-834)

ID: LARC-834
Date: 02/05/2003 (13:44 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

I Have an Idea about the outer skin of the shuttle. I wonder if you tried to put some type of metal skin over the tiles to protect them during lanch, something that would burn off upon reentry into the atmosphere. It seems to me that the tiles are vunorable to damage during the lanch, and any way to protect them would secure a safe return and landing. I have no idea as to how to attach any type of outer skin, but i'm sure all of the engineers you have can figure it out. Just a thought. Our thoughts and prayers go out to the NASA Family, and the loved ones of the Columbia Crew.

NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov

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.....

X-Sender: sti+id@larc.nasa.gov
Date: Wed, 05 Feb 2003 13:46:17 -0500
To: c.w.cleghorn@larc.nasa.gov, r.d.allen@larc.nasa.gov
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Fwd: Re: NIX Comment (LARC-827)
Cc: n.l.heimerl@larc.nasa.gov, sti+id@larc.nasa.gov

From: [REDACTED]
To: "NASA STI Information Desk" <sti+id@larc.nasa.gov>
Subject: Re: NIX Comment (LARC-827)
Date: Wed, 5 Feb 2003 12:30:01 -0600
X-Mailer: Microsoft Outlook Express 6.00.2800.1106

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FOIA Exemption (b)(6)

Dear Nasa:

My humblest apologies for my contention. After a long cry I felt much better. Tears are so comforting. I enjoyed the Memorial, it was very healing to me. Please accept my apology, because I didn't think that it (my note; incase it did) would hit below the belt.

All theory aside, I'm sure you did what's best. By the way Bill Buchanan didn't say that. I said: If. I just didn't have anyway to realize that grief was ever-present in our atmosphere (if you will).

What I said about Marquez elementary school is true. I won't write about it. I'm sure there's an explanation that is not necessary to make. Although I wish to report I found Yoga to be a fascinating theoretical science all its own. I found it to be quite useful as an exercise.

I hope that in the future, I can work for Nasa. I have some interesting data on Yoga, and by-products. I believe what knowledge I may have gained is formed out of the orbital locations of the brain. Therefore, in concert with: Gestalt, and what I call extreme processes (gained in part with interaction of John Lilly, The Presbyterian Church and Self Realization Fellowship), my life's work is focused on the collaboration of technology and consciousness.

Should you need any other clarification please contact me through: [REDACTED]

Anyway, I've dropped all contention in favor of becoming a Geologist. I'm hopeful that I'll find a place to study in great depth, K-State, K-U, or George Washington University (if they have a Geological program)

I consider this message Commitatus Classified and Confidential in its entirety

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

From: NASA STI Information Desk
To: [REDACTED]
Cc: sti+nix@larc.nasa.gov ; r.d.allen@larc.nasa.gov ; c.w.cleghorn@larc.nasa.gov
Sent: Tuesday, February 04, 2003 7:51 AM
Subject: Re: NIX Comment (LARC-827)

[REDACTED]

Thank you for your comments. They will be forwarded to the appropriate NASA organization.

At 10:53 PM 2/3/2003 -0500, you wrote:

Dup

ID: LARC-827
Date: 02/03/2003 (22:53 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

Dep

Dear Nasa: With the 'Columbia' disaster ever present in my heart and mind, I must tell you that I am apalled. Personally, I would never say anything to anyone about Nasa that would be construed as derogatory. However, I can't help but wonder about the cause of the crash. Something tells me that it could have been prevented. Based on the disclosure that the Astronauts knew that there was a defect in the wing two days before the landing (per CNN). This conjecture leads me to believe that it could have been seen from a Satellite inspection within hours of the liftoff. If this is true, then it my humble opinion that the Space Station could have been reached. And it would have been 100% better to take this for granted. Scuttling the ship would have been far better than erroneously calculating the odds that a landing was a safe bet (15 days later). It's quite possible that a small object could have made a breach in the tiles. This breach could have eroded to a larger hole. I can't believe that We could not know have known in this in short order. Handrails, jetpacks, satellite photo's, Space Station within range during the first week (atleast)? If one dearest friends: Flight Commander Bill Buchanan, Mercury says: it could have been prevented with 60's technology; then don't you surmise that you should take the advantage of superior technology to safeguard precious human cargo? Also, the way one of your bureaucrats choked on the word 'radio-active' makes me really wonder about the other possible causes. I distinctly remember seeing the 'Shuttle Model' in my Grammar school class @ Marquez Elementary in the late '60's. Also, there was a lady that tried to teach us Yoga. She was with the Nasa guy too. I have nothing but respect for your Agency, and proud to have a Constitution and a State in this Nation under God, America. I hope the 43rd President can get your Agency back in the pursuit of Human Space development and exploration of the same. These are my confi dential and classified comments. [REDACTED] Form!
er Defense worker

—
NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov

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FOIA Exemption (b)(6)

X-Sender: n.l.heimerl@pop.larc.nasa.gov
Date: Wed, 05 Feb 2003 10:09:20 -0500
To: r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov
From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
Subject: Fwd: Shuttle safety
Cc: n.l.heimerl@larc.nasa.gov

X-Originating-IP: [199.35.194.84]
From: [REDACTED]
To: <n.l.heimerl@larc.nasa.gov>
Subject: Shuttle safety
Date: Wed, 5 Feb 2003 01:27:34 -0500
X-Mailer: MSN Mail 8.00.0022.3100
X-OriginalArrivalTime: 05 Feb 2003 06:27:37.0004 (UTC) FILETIME=[ACE1AEC0:01C2CCDF]

<?xml:namespace prefix="v" /><?xml:namespace prefix="o" />
Dear Sir,

This is a brief note to Nasa, & whoever might be concerned, regarding the lost of the shuttle, has anyone ever tried to secure the foam barrier on the external fuel tank by the means of a woven basket, like they sell frozen turkeys in at grocery stores, in some kind of suitable material.

Regards [REDACTED]
[REDACTED]
[REDACTED]

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X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Wed, 5 Feb 2003 08:28:03 -0500
To: r.d.allen@larc.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Fwd: how does one see the flight path of the shuttle

X-Sender: m.p.finneran@pop.larc.nasa.gov
Date: Mon, 3 Feb 2003 21:54:16 -0500
To: c.w.cleghorn@larc.nasa.gov, r.d.allen@larc.nasa.gov
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Fwd: how does one see the flight path of the shuttle

Here's another to either respond to or put in the batch for HQ.

Mike

X-Sender: j.m.seaton@express.larc.nasa.gov
Date: Mon, 03 Feb 2003 13:21:55 -0500
To: M P Finneran <M.P.Finneran@larc.nasa.gov>
From: Jeff Seaton <j.m.seaton@larc.nasa.gov>
Subject: Fwd: how does one see the flight path of the shuttle

Mike,

Received this request a moment ago. No idea who this is (it's a Juno account that looks to be temporary) nor how to satisfy the request (if we should at all), but since it is likely related to the Columbia accident, I'm forwarding to you for any action.

Jeff

From: [REDACTED]
To: j.m.seaton@larc.nasa.gov
Date: Mon, 3 Feb 2003 09:50:23 -0800
Subject: how does one see the flight path of the shuttle
X-Mailer: Juno 5.0.33

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like to see 3d model of the flight of the shuttle or any kemps on the last missions, and or all missions. how do i get to see a 3d model of the shuttle or a com board on the internet .thank you.

Jeff Seaton
Learning Technologies Project Leader
Robotics Education Project Leader

Aerospace Systems, Concepts, and Analysis
Competency
NASA Langley Research Center Voice: (757) 864-6687
18D W Taylor St, Room 185A Fax: (757) 864-9713
Mail Stop 139, Bldg 1192D
Hampton, VA 23681
E-mail: j.m.seaton@larc.nasa.gov

Dup

Jeff Seaton
Learning Technologies Project Leader
Robotics Education Project Leader

Aerospace Systems, Concepts, and Analysis Competency
NASA Langley Research Center Voice: (757) 864-6687
18D W Taylor St, Room 185A Fax: (757) 864-9713
Mail Stop 139, Bldg 1192D
Hampton, VA 23681
E-mail: j.m.seaton@larc.nasa.gov

--

Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

X-Originating-IP: [65.235.132.235]
From: [REDACTED]
To: <feedback+admin@larc.nasa.gov>
Subject: Shuttle Deceleration
Date: Wed, 5 Feb 2003 05:03:13 -0500
X-Priority: 3
X-OriginalArrivalTime: 05 Feb 2003 10:03:13.0621 (UTC) FILETIME=[CBB4C850:01C2CCFD]

Re-entry velocity

Sir,

Shouldn't it be quite possible to lessen the the vellocity of the Shuttle from MACH 6+ during re-entry?

Sincerely,

[REDACTED]
[REDACTED]

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Date: Wed, 5 Feb 2003 03:40:21 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: whitebru@pacbell.net
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

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Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Customer has requested a Reply.

Comments:

Items that may be considered in the shuttle breakup:

1. The sloughed off foam that hit under the left wing tiles.
2. The foam shard (2.7 lbs) may not have had the force strength to knock the tile(s) off, but it may have embedded into or attached on the tiles and degraded the Thermodynamic or Heat Transfer Properties, causing a thermal break path to the structure underneath, which in turn caused the Breakup.
3. Why now when it didn't happen in previous situations when foam broke away from the external tank and impacted the tiles and nothing bad happened? I heard there was a reformulation of the foam insulation, removing (formaldehyde?), or... anyway a different foam composition. This new formulation may cause the Heat Transfer properties to have different effects causing the burn through of the foam-corrupted-tiles to the vulnerable inside shuttle structure.
4. Spokesman pooh-pooing a 40 deg temp difference. The 40 deg difference wouldn't imply a significant effect on the OUTSIDE(3000 deg) of the shuttle, but IN the INSULATED interior, it is a LARGE Difference.
5. Was there ICE which could have been embedded, along with the foam in micro tile openings or, could the ICE have enough mass to knock a/some tile(s) off?

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; MSNIA; Windows NT 5.0)

Date: Tue, 4 Feb 2003 23:20:52 -0500 (EST)
To: feedback+site@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Web Site Design or Navigation
EMail Address: [REDACTED]

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Daytime Phone:
Home Address:

Customer has requested a Reply.

Comments:

Could the foam have baked on the surface of the left wing and compromised the deflection or the inherent properties of the tiles to stop the intense heat?

Additional Information:

Browser: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.2.1) Gecko/20021130

Reply-To: [REDACTED]
From: [REDACTED]
To: <r.d.allen@larc.nasa.gov>
Subject: Condolences
Date: Tue, 4 Feb 2003 17:25:47 -0600
Organization: [REDACTED]
X-Priority: 3
X-Loop-Detect: 1

Please send my condolences to the families of the late astronauts. I pray Hashem will give them all peace and understanding

Sincerely

[REDACTED]
[REDACTED]
[REDACTED]

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FOIA Exemption (b)(6)

From: [REDACTED]
Date: Tue, 4 Feb 2003 17:58:42 EST
Subject: Urgent Assistance Requested
To: feedback+admin@larc.nasa.gov

My name is [REDACTED] and I am a Boy Scout volunteer. Every other year we hold a Merit Badge College for the Scouts of Central Virginia. During this time we take over the campus of a local college for a series of Saturday mornings over a six-week period. This year the College opens at 9:00 AM on February 8, 2003. Two of the Merit Badges we offer are Aviation and Space Exploration.

Since all four of the American male astronauts of Columbia were former Scouts and Cmdr McCool was an Eagle Scout and I believe from Virginia, we feel that it would be more than fitting for us to hold a memorial service at the beginning of our Merit Badge College. Therefore, we were wondering if we could borrow for the day a NASA or Columbia flag for the service.

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

BTW: I was a former NASA employee at the Goddard Space Flight Center in Maryland.

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SG-293

Subject: FW: Ground track over California
Date: Tue, 4 Feb 2003 16:44:34 -0500
Thread-Topic: Ground track over California
Thread-Index: AcLMb4pmoVlhbw/3QoG7NppBzMUPUwAJrjzg
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: <r.d.allen@larc.nasa.gov>
Cc: "Cheryl Cleghorn" <c.w.cleghorn@larc.nasa.gov>,
"Eric Vogel" <evogel@sti.nasa.gov>,
"Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 12:04 PM
To: helpdesk
Subject: Ground track over California

First my condolences to the NASA family at this time. Although I have not been an avid follower of the space program I think my friends and I might be helpful at this time in the search for debris from the Columbia tragedy. We and a number of others that I'm aware of are desert rats to one degree or another. I was wondering if NASA might be able to provide an accurate ground track of the Columbia's path. I heard today on one of the news programs that the earliest debris might be the most useful. Since my friends and I spend a good deal of time walking over miles of California desert, we could relocate our outings to the most likely locations. I was thinking of the Owens Valley observations that first noticed problems with Columbia's flight and farther along the flight path over the California desert. Thank you [REDACTED]

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FOIA Exemption (b)(6)

Subject: FW: All my condolences for the 7 Heroes....
Date: Tue, 4 Feb 2003 16:43:41 -0500
Thread-Topic: All my condolences for the 7 Heroes....
Thread-Index: AcLMfdhhi0P/VZFCTtqpRSx3YkHkhWAGD87A
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: <r.d.allen@larc.nasa.gov>
Cc: "Cheryl Cleghorn" <c.w.cleghorn@larc.nasa.gov>,
"Eric Vogel" <evogel@sti.nasa.gov>,
"Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 9:56 AM
To: helpdesk
Subject: All my condolences for the 7 Heroes....

Information Withheld Under
FOIA Exemption (b)(6)

Ladies & Gentlemen,

I don't know if you'll reply to my mail. (Or maybe I've
got the wrong e-mail address).

I'd like you to receive my sincerest condolences after
the tragedy of the shuttle " Columbia ".

I'm very sad.

All my life, I've dreamt to become astronaut (I was 2 years
old when I saw Neil Armstrong on the moon).

These Men & Women who have given their lives for the
spatial research are also the Heroes of America & all the
rest of the World.

Because of you, one day all Mankind will share space in
Peace....

The exploration will go on....

All my pain go to the families & all the American people.

Yours Truly....

[REDACTED]

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[REDACTED] 2/4/03 3:24 PM -0500,

1

X-Originating-IP: [REDACTED]
From: [REDACTED]
To: r.d.allen@larc.nasa.gov
Date: Tue, 04 Feb 2003 20:24:15 +0000
X-OriginalArrivalTime: 04 Feb 2003 20:24:16.0110 (UTC) FILETIME=[6377A0E0:01C2CC8B]

I know I speak on behalf of many of your Canadian Family..Our Heartfelt Sympathy and Prayers are extended to the Families who lost their Dearest Loved Ones. May the Good L-rd Protect and Strengthen in their time of Sorrow.
Sincerely,

[REDACTED]

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Have a good day.

[REDACTED]

Help STOP SPAM with [the new MSN 8](#) and get 2 months FREE*

99-296

From: "Tracie Ligid" <tliguid@pilotonline.com> *TL*
To: <r.d.allen@larc.nasa.gov>
Subject: HamptonRoads.com/Pilot Online
Date: Tue, 4 Feb 2003 11:48:14 -0800
X-Priority: 3
X-ELNK-Trace:
0697ce7394ebca3db9c5f02c9afaebd09005729ef8da38f28963dcb78fc816ea8438e0f32a48e08350badd
9bab72f9c350badd9bab72f9c350badd9bab72f9c

Bob,

Megan Clark of the Va. Air & Space Center suggested that I contact you. I am with the websites for the Virginian-Pilot newspaper and we've developed memorial content for the Columbia including an online "guestbook" for viewers to share their thoughts about the loss. Could you recommend a way for us to get these messages to family members of the crew?

Here are the messages:

<http://home.hamptonroads.com/guestbook/guestbook.cfm?id=8>

As well as other content:

<http://www.hamptonroads.com/hr0204shuttle.html>

I realize this is a difficult and busy time for NASA so I appreciate any feedback or information you can offer.

Regards,

Tracie Ligid *TL*
Associate Producer
Interactive Media
Pilot Online / HamptonRoads.com
757.446.4635
tliguid@pilotonline.com

X-Originating-IP: [REDACTED]
From: [REDACTED]
To: <feedback+admin@larc.nasa.gov>
Subject: Attachment Of Poly Rocket booster to Metal Shuttle
Date: Tue, 4 Feb 2003 14:45:35 -0500
X-Priority: 3
X-OriginalArrivalTime: 04 Feb 2003 19:45:35.0848 (UTC) FILETIME=[FC7BBE80:01C2CC85]

[REDACTED]

Sir,

This is a tertiary memorandum.

Technology should be pioneered in the attachment of a polycarbonate structure to a metal structure. This will be invaluable to the Automotive Industry.

A substantial chalk could be place in the Rocket Mold. The Frame of the Shuttle would then be connected using Bolts, Bearing Plates and a Rubberlike interface. The thrust would be in only one direction. There is a nonmetallic used in the undercarriage of Plymouth Horizons that wears better than metal.

Sincerely,

[REDACTED]

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Subject: RE: Shuttle thoughts.
Date: Tue, 4 Feb 2003 12:27:52 -0500
Thread-Topic: Shuttle thoughts.
Thread-Index: AcLL5QvmN5i4PPm9REOiUklsexakpwAjPPAw
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear Mr. [REDACTED]

Thank you for your expressions of understanding to the NASA community and the families of the Columbia crew. I am forwarding your comments to the appropriate NASA organization for further review and thank you for your observations.

Sincerely,

Eric Vogel

NASA STI Help Desk

ASRC Aerospace Corporation

Information Withheld Under
FOIA Exemption (b)(6)

Phone: 301-621-0390

Fax: 301-621-0134

E-Mail: help@sti.nasa.gov

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

From: [REDACTED]
Sent: Monday, February 03, 2003 7:33 PM
To: helpdesk
Cc: [REDACTED]
Subject: Shuttle thoughts.

Dear Mr. Dettemore, If I may express my most sincere expression of understanding of what you and your cadre are experiencing, and convey my most sincere feeling for the families of the crew. As a former USAF pilot, I might have some understanding of the elements of adventure. Sir, tonight, in your news conference, the press, you understand, is a well of quick sands of honesty and truth. You were more than generous with your statements of the realizations of this tragic event to our "inquiring" press. Sir, as a victim of the wisdom of the press, may I say that I am probably dealing with a short deck, however considering myself as reasonably perceptive human, may I offer my observation? One, there is no element of discussion that a piece of debris hit the left wing. You described this piece on Fox as a relatively minor piece of debris. Yes, except this small

SG-299

piece could be important, as in the time old saying, "for want of a nail . . ." If I may observe, the piece of debris, in the views that I observed, the errant the forward piece of insulation hit the forward edge of the wing, therefore, the rest of the element would have been swung and with a "leveraged impact" against the bottom of the wing, perhaps dislodging a tile or two. You are in position to assess such events and implications. If I may observe, the fact that the internal temperatures rose so slowly, and not significantly indicates that perhaps the extraordinary heat was generated on the exterior. This might then suggest that the problem, in fact, was an external phenomenon with the tiles and surface temps, and with the velocities and extraordinary external heat caused dissipation exponentially? All of the best, [REDACTED]

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Subject: RE: NASA STI Program Products and Services Comments
Date: Tue, 4 Feb 2003 12:20:53 -0500
Thread-Topic: NASA STI Program Products and Services Comments
Thread-Index: AcLL2XbqC7oIDibOQ2uMLZYKAaaMegAl7Wwg
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear Mr [REDACTED]

Thank you so much for reporting your sighting on Friday morning. I am forwarding your communication to the appropriate NASA organization for further review.

Sincerely,

Eric Vogel
NASA STI Help Desk
ASRC Aerospace Corporation

Information Withheld Under
FOIA Exemption (b)(6)

Phone: 301-621-0390
Fax: 301-621-0134
E-Mail: help@sti.nasa.gov

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

From: Nobody [mailto:nobody@websrv.casi.sti.nasa.gov]
Sent: Monday, February 03, 2003 6:11 PM
To: helpdesk
Subject: NASA STI Program Products and Services Comments

[REDACTED] sent the following comments about the NASA STI Program Products and Services:

I DON'T KNOW IF THIS IS OF ANY CONSEQUENCE HOWEVER IWANT TO PASS IT ON AS IT PERTAINS TO COLUMBIA. ON FRIDAY MORNING 1/31/03 SOME TIME BETWEEN 5AM AND 6AM I SAW WHAT APPEARED TO BE A METEOR FALL THROUGH THE ATMOSPHERE, HOWEVER IT SEEMED TO BE VERY CLOSE TO EARTH BEFORE IT WAS EXTINGUISHED. I WONDER IF BY SOME CHANCE THE SHUTTLE WAS PASSING OVER ORLANDO/ALTAMONTE SPRINGS AT THAT TIME AND WHAT I SAW WAS ACTUALLY A TILE OFF THE SHUTTLE COMING OFF ON FRIDAY A LITTLE MORE THAN TWENTY FOUR HOURS BEFORE IT ENTERED THE EARTH'S ATMOSPHERE ON SATURDAY. IF IT WAS, PERHAPS THAT WILL HELP YOU PIECE TOGETHER THE PUZZLE. I ONLY SAW THE ONE SITING. I HOPE MAYBE THIS WILL HELP IN SOME WAY.

SINCERELY

[REDACTED]
[REDACTED]

Server protocol: HTTP/1.1
Remote host: [REDACTED]

Remote IP address: [REDACTED]

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FOIA Exemption (b)(6)

Subject: RE: NASA STI Program Products and Services Comments
Date: Tue, 4 Feb 2003 12:17:49 -0500
Thread-Topic: NASA STI Program Products and Services Comments
Thread-Index: AcLL2lviJvyY+s3uS/qW4mVThnHk9AAIs3EQ
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear Ms. [REDACTED]

Thank you for your expression of sorrow at the loss of the STS-107 Columbia and its crew and your interest in the NASA space program. I am forwarding your inquiry to the appropriate NASA organization for further review.

Sincerely,

Eric Vogel
NASA STI Help Desk
ASRC Aerospace Corporation

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Phone: 1-301-621-0390
Fax: 1-301-621-0134
E-Mail: help@sti.nasa.gov

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

From: Nobody [mailto:nobody@websrv.casi.sti.nasa.gov]
Sent: Monday, February 03, 2003 6:04 PM
To: helpdesk
Subject: NASA STI Program Products and Services Comments

[REDACTED] sent the following comments about the NASA STI Program Products and Services:

Does the shuttle have pneumatic tires? Could the tires have exploded in the landing gear bay from change in temperature/pressure, with explosive decompression of the gear bay being the triggering event? Almost certainly you have considered this, and probably the tires, to support such a huge weight are only semi-pneumatic at worst. I would be interested if with all the rest that is going on, someone could answer the question about the type of tires? I am sorry for your loss.

Server protocol: HTTP/1.1
Remote host: [REDACTED]
Remote IP address: [REDACTED]

Subject: RE: NASA STI Program Products and Services Comments
Date: Tue, 4 Feb 2003 12:05:11 -0500
Thread-Topic: NASA STI Program Products and Services Comments
Thread-Index: AcLL0vgInYddW1BzSkOZQy3BGdDkUQAmmLpQ
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear [REDACTED]

Thank you for your interest in sending condolences to the families of the crew of STS-107 Columbia. The NASA Public Affairs Offices will accept messages and forward them to the families. We will be happy to forward any message you have to the Public Affairs Office or if you wish to communicate directly, please send to r.d.allen@larc.nasa.gov.

Sincerely,

Eric Vogel
NASA STI Help Desk
ASRC Aerospace Corporation

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FOIA Exemption (b)(6)

Phone: 1-301-621-0390
Fax: 1-301-621-0134
E-Mail: help@sti.nasa.gov

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

From: Nobody [mailto:nobody@websrv.casi.sti.nasa.gov]
Sent: Monday, February 03, 2003 5:24 PM
To: helpdesk
Subject: NASA STI Program Products and Services Comments

[REDACTED] sent the following comments about the NASA STI Program Products and Services:

WHERE IS THE E-MAIL ADDR FOR CONDOLENCES RE COLUMBIA FAMILIES???????????

OR THE WEBSITE ON NASA?

OR anything to send our prayers to them??/

I already sent my condolences to the ramon family direct to the idf in israel

Does america have a "heart" anymore?

I ask you?

respectfully

[REDACTED]

[REDACTED]

Server protocol: HTTP/1.1
Remote host: [REDACTED]
Remote IP address: [REDACTED]

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X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Tue, 4 Feb 2003 11:47:53 -0500
To: r.d.allen@larc.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Fwd: News !?!!

To get your juices flowing!!! This is one of the first messages I received after the accident. I'm assuming he's talking about the Shuttle. Maybe he's actually referring to a plane crash.

X-Originating-IP: [REDACTED]
From: [REDACTED]
To: [REDACTED]
Subject: News !?!!
Date: Sun, 02 Feb 2003 21:33:50 +0000
X-OriginalArrivalTime: 02 Feb 2003 21:33:50.0712 (UTC) FILETIME=[C6E5D780:01C2CB02]

Dup

A few people die in an airplane crash and thats supposed to be news!?!?

What about all the rest of the people that were killed today what about them !
What about all the people killed in car crashes today what about them!

How about all the children that were starved to death today so pope johnny could make money off all of their pain and suffering by pope johnny demanding everyone overpopulate the world to death and then have the local priests stand up and say look at all that starvation over there everybody Quickly give me money.

How come we haven't heard about them on the news, I guess they only talk about them on sunday mornings in church so the priests can make money!!!

WHAT ABOUT THEM !

MSN 8 with e-mail virus protection service: 2 months FREE* <http://join.msn.com/?page=features/virus>

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X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Tue, 4 Feb 2003 11:38:35 -0500
To: "helpdesk" <helpdesk@sti.nasa.gov>, [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: RE: SIGHTING OF AIRBORNE DEBRIS - SOUTH AFRICA
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Hi Eric,

Thanks for forwarding the Columbia messages to us. Langley's Office of External Affairs is also responding to each one of the e-mail messages that we receive regarding Space Shuttle Columbia. If you like, you can simply forward the messages you receive to us and we will send a response from the Agency. This way the senders are not receiving two separate messages (one from your office and one from our office).

Cordially,

Cheryl

At 11:04 AM -0500 2/4/03, helpdesk wrote:

Dear [REDACTED],

Thank you for your expression of sympathy for the loss of the Space Shuttle Columbia on Saturday and for reporting your sighting. I am forwarding your communication to the appropriate NASA organization for further review.

Sincerely,

Eric Vogel
NASA STI Help Desk
ASRC Aerospace Corporation

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FOIA Exemption (b)(6)

Phone: 1-301-621-0390
Fax: 1-301-621-0134
E-mail: help@sti.nasa.gov

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 2:43 AM
To: helpdesk
Subject: SIGHTING OF AIRBORNE DEBRIS - SOUTH AFRICA

Dup

36-304

Hi, my name is [REDACTED]

This report may be unrelated and of no value, but I am not in a position to judge - if of value to your organisation please contact me for any further information you may require in this regard.

Report:

At 23:01B on Saturday nite spotted an orange object - apparently at high altitude - travelling at great speed from West to East over my location in Germiston, South Africa - observation lasted approximately 4 seconds from first sighting to last sighting overhead.

When first sighted the object seemed to be a low level satellite as it appeared to be a dot of yellow/orange colour and moving at an observable speed.

As the object came nearer to my position its trail could be observed - the trail was bright orange/gold - and looked very much like I would expect a meteor or other body burning up in the atmosphere to look. The appearance of the trail was not solid - it appeared to be dense effervescent - much like one sees behind the fireworks rockets one finds around 5th of November each year.

The observation ended when the object was overhead - I looked around to see if it had disappeared behind cloud cover - but no significant clouds were in sight.

Dup

SUMMARY:

Large object - travelling at high speed - at high altitude [kilometers] - burning up in atmosphere - direction of travel approximately West to East - final burnout overhead Germiston South Africa - at 23:01 on 1st February 2003.

If this report has no bearing on your Columbia incident, please ignore.

Should you, however, require more accurate details please contact me either telephonically at South Africa [REDACTED] or

Cell phone [REDACTED] or

Fax [REDACTED]

e-mail [REDACTED]

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Please accept my sympathies for the loss resulting from the loss of the Columbia.

Regards,

[REDACTED]

--

Dup

CHERYL CLEGHORN.....
Public Affairs Specialist....
NASA Langley Research Center..
Office of Public Services.....
PHONE: (757) 864-2497.....
FAX: (757) 864-7732.....
<http://www.larc.nasa.gov>

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Subject: RE: shuttle
Date: Tue, 4 Feb 2003 10:55:39 -0500
Thread-Topic: shuttle
Thread-Index: AcLMMHSMUsDDwVeEQzmMckb9PxVCHAANIRyQ
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear [REDACTED]

Thank you for your interest and concern about the loss of STS-107 Columbia. I am forwarding your suggestion to the appropriate NASA organization for further review.

Sincerely,

Eric Vogel
NASA STI Help Desk
ASRC Aerospace Corporation

Phone: 1-301-621-0390
Fax: 1-301-621-0134
E-Mail: help@sti.nasa.gov

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 4:34 AM
To: helpdesk
Subject: shuttle

Dear Sir,

I know that you will probably get many emails about the shuttle disaster, but on looking at the meagre facts that we are given, and as I am not a scientist of any form.....I had an idea...could you sandwich carbon fibre in each of the tiles on the shuttle in groups that would possibly stop this from happening again..... I know that you are probably not the right person to talk to but you may be able to forward this to the person that may be interested. [REDACTED]

Subject: RE: Columbia Letters
Date: Tue, 4 Feb 2003 10:50:40 -0500
Thread-Topic: Columbia Letters
Thread-Index: AcLMWiXHNWZC6ZZgSqeUACfdbm5hxQACJ7Cg
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear Mr. [REDACTED]

Thank you for your interest and that of your students in the NASA space program. Please send any letters that you wish to be forwarded to the families of the Columbia crew to the NASA Public Affairs Office at the address below. They will coordinate the further delivery.

Mr. Robert Allen
MS 154/Public Affairs Office
NASA Langley Research Center
Hampton, VA 23681-2199

Sincerely,

Eric Vogel
NASA STI Help Desk
ASRC Aerospace Corporation

Phone: 301-621-0390
Fax: 301-621-0134
E-Mail: help@sti.nasa.gov

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 9:31 AM
To: helpdesk
Subject: Columbia Letters

Students in the Gifted program at Wichita East High School have been following the space program with great interest. They have decided that they would like to write to the families of the astronauts to express their appreciation and admiration of these heroes.

How might I best forward these letters to ensure that the families receive these letters?

Thank you for your assistance,

[REDACTED]

X-Sender: sti+id@larc.nasa.gov
Date: Tue, 04 Feb 2003 10:34:19 -0500
To: [REDACTED]
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Re: NIX Comment (LARC-831)
Cc: sti+nix@larc.nasa.gov, r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov

Mr. [REDACTED]

Thank you for your comments. We will forward them to the appropriate NASA organization.

At 09:39 AM 2/4/2003 -0500, you wrote:

ID: LARC-831
Date: 02/04/2003 (09:39 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

As I watch the tragedy of Columbia; I had a thought. Why not install sensors connected to each area covered by a tile that would tell Mission Control how many tiles were missing; the temperature of that area at any given time? Is there any way to install a cooling foam line non-combustible foam, that would rush to the area exposed that would lower the temperature on a damaged area--assuming the foam would blow away as soon as it came out but enough available for a limited number of missing tiles--and for the critical minutes of highest reentry heat? I am not an engineer, just thoughts. Thanks for listening.
[REDACTED]

NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov

.....

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Subject: RE: Specific: a dedication
Date: Tue, 4 Feb 2003 10:30:17 -0500
Thread-Topic: Specific: a dedication
Thread-Index: AcLMXW0/MnY5DnLXSoCXq0vu3tAigQAA2UBg
From: "helpdesk" <helpdesk@sti.nasa.gov>
To: [REDACTED]
Cc: "Eric Vogel" <evogel@sti.nasa.gov>, <r.d.allen@larc.nasa.gov>, <c.w.cleghorn@larc.nasa.gov>, "Lynn Heimerl" <n.l.heimerl@larc.nasa.gov>

Dear [REDACTED]

Thank you so much for your kind words and your wish to dedicate your new song to the families of the Columbia crew. I am forwarding your message to the NASA Public Affairs Office who can further direct your communication to the appropriate people.

Sincerely,

Eric Vogel

NASA STI Help Desk

ASRC Aerospace Corporation

Information Withheld Under
FOIA Exemption (b)(6)

Phone: 1-301-621-0390

Fax: 1-301-621-0134

E-Mail: help@sti.nasa.gov

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

From: [REDACTED]
Sent: Tuesday, February 04, 2003 7:50 PM
To: helpdesk
Subject: Specific: a dedication

Hello from Bulgaria!

We want to dedicate our song "No one between" to the families of the Columbia crew.

It's a song composed by the norwegian composer Oddgeir Rosslund and arranged, performed, recorded and produced by us.

Could you, please, give us advice /if possible/ how can we do this?

Thank you in advance.

Kind regards from [REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

here is the link to the song:

<http://popcorn.dir.bg/music/NoOneBetween.mp3>

[REDACTED]
[REDACTED]

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X-Originating-IP: [REDACTED]
From: [REDACTED]
To: <feedback+admin@larc.nasa.gov>
Subject: Design Correction
Date: Tue, 4 Feb 2003 09:38:09 -0500
X-Priority: 3
X-OriginalArrivalTime: 04 Feb 2003 14:38:10.0711 (UTC) FILETIME=[0A533270:01C2CC5B]

[REDACTED]
[REDACTED]
[REDACTED]
Email: [REDACTED]
[REDACTED]

SHUTTLE FAILURE PANACEA

Sir,

This is an addendum to a previous memo suggestion. A lightweight POLYCARBONATE CAP should be laminated over the

foam insulation on the NOSE CONE and extended. This will prevented unduly accelerated aerodynamic forces

near the edge of the cone from catastrophically failing the structure.

Or, the insulation could be place INSIDE. This configuration might enable the Rocket to be constructed of polycarbonate

Any equitable emolument will be apposite.

Sincerely,

[REDACTED]
[REDACTED]

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X-Originating-IP: [REDACTED]
From: [REDACTED]
To: <feedback+admin@larc.nasa.gov>
Subject: Design Correction
Date: Tue, 4 Feb 2003 09:27:33 -0500
X-Priority: 3
X-OriginalArrivalTime: 04 Feb 2003 14:27:35.0174 (UTC) FILETIME=[8F83F260:01C2CC59]

[REDACTED]
[REDACTED]
[REDACTED]
Email: [REDACTED]
[REDACTED]

SHUTTLE FAILURE PANACEA

Sir,

This is an adendum to a previous memo suggestion. A lightweight POLYCARBONATE CAP should be laminated over the foam insulation on the NOSE CONE and extended. This will prevented unduley accelerated aerodynamic forces near the edge of the cone from catastrophically failing the structure.

Any equitable emolument will be apposite.

Sincerely,

[REDACTED]
[REDACTED]

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X-Sender: j.rocker@pop.larc.nasa.gov
Date: Tue, 04 Feb 2003 09:26:53 -0500
To: [REDACTED]
From: Joanne Rocker <j.rocker@larc.nasa.gov>
Subject: Request for STS 107 patch
Cc: r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,
j.rocker@larc.nasa.gov

[REDACTED]

I cannot help you with your request because I am not in the public affairs office. I'm forwarding your message to the public affairs officers at NASA Langley. They may be able to tell you how to get a patch.

Thank you,

JoAnne

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From: [REDACTED]
Date: Mon, 3 Feb 2003 19:34:23 EST
Subject: Goddard Space Center
To: j.rocker@larc.nasa.gov
X-Mailer: AOL 7.0 for Windows US sub 10637

Hello,

I hope That I am not intruding on your computer.

This past week-end has brought back a "flood" of memories.

I was a back up computer operator at Goddard Space Center ,Greenbelt MD when one of the first space "shots" were done. I cannot remember the pilots name but I believe he made 3 orbits before deploying his parachutes and landing some place in the Atlantic.

That was many years ago and my memory is not what it once was.

I was also stationed at Langley Field when it Was NACA (National Advisory for the Committee of Aeronitics).

I have written to NASA , but no reply. To your knowledge is there any way I may purchase, beg, borrow or steal a patch from STS 107?

Thanks,

[REDACTED]

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Tue, 4 Feb 2003 09:14:57 -0500
To: ethames@mail.hq.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Columbia - Mission STS-107 Questions/Comments
Cc: r.d.allen@larc.nasa.gov

Hi Evelyn,

Mike Finneran, Head of Langley's Office of External Affairs, indicated to me that all non-media public inquiries regarding Space Shuttle Columbia - Mission STS-107 should be forwarded to your attention. I will start forwarding the messages received through Langley's public web site to you today and let the requesters know that their inquiry has been sent to the appropriate organization within NASA.

Thanks,

Cheryl Cleghorn

--

CHERYL CLEGHORN
Public Affairs Specialist
NASA Langley Research Center
Office of Public Services
PHONE: (757) 864-2497
FAX: (757) 864-7732
<http://www.larc.nasa.gov>

X-Sender: sti+id@larc.nasa.gov
Date: Tue, 04 Feb 2003 08:51:32 -0500
To: [REDACTED]
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Re: NIX Comment (LARC-827)
Cc: sti+nix@larc.nasa.gov, r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov

Mr. [REDACTED],

Thank you for your comments. They will be forwarded to the appropriate NASA organization.

At 10:53 PM 2/3/2003 -0500, you wrote:

ID: LARC-827
Date: 02/03/2003 (22:53 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

dup

Dear Nasa: With the 'Columbia' disaster ever present in my heart and mind, I must tell you that I am appalled. Personally, I would never say anything to anyone about Nasa that would be construed as derogatory. However, I can't help but wonder about the cause of the crash. Something tells me that it could have been prevented. Based on the disclosure that the Astronauts knew that there was a defect in the wing two days before the landing (per CNN). This conjecture leads me to believe that it could have been seen from a Satellite inspection within hours of the liftoff. If this is true, then it my humble opinion that the Space Station could have been reached. And it would have been 100% better to take this for granted. Scuttling the ship would have been far better than erroneously calculating the odds that a landing was a safe bet (15 days later). It's quite possible that a small object could have made a breach in the tiles. This breach could have eroded to a larger hole. I can't believe that We could not know have known in this in short order. Handrails, jetpacks, satellite photo's, Space Station within range during the first week (atleast)? If one dearest friends: Flight Commander Bill Buchanan, Mercury says: it could have been prevented with 60's technology; then don't you surmise that you should take the advantage of superior technology to safeguard precious human cargo? Also, the way one of your bureaucrats choked on the word 'radio-active' makes me really wonder about the other possible causes. I distinctly remember seeing the 'Shuttle Model' in my Grammar school class @ Marquez Elementary in the late '60's. Also, there was a lady that tried to teach us Yoga. She was with the Nasa guy too. I have nothing but respect for your Agency, and proud to have a Constitution and a State in this Nation under God, America. I hope the 43rd President can get your Agency back in the pursuit of Human Space development and exploration of the same. These are my confidential and classified comments [REDACTED]

[REDACTED] Form!
er Defense worker

NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov

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SG-313

X-Sender: sti+id@larc.nasa.gov
Date: Tue, 04 Feb 2003 08:40:44 -0500
To: [REDACTED]
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Re: NIX Comment (LARC-830)
Cc: sti+nix@larc.nasa.gov, r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov

Mr. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. You may be contacted to share your idea as we are forwarding your comments to the appropriate organization within NASA.

To monitor news, information, and the ongoing investigation link to:
<http://www.nasa.gov/columbia/>

At 06:48 AM 2/4/2003 -0500, you wrote:

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ID: LARC-830
Date: 02/04/2003 (06:48 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

Dup

HLOO for all the NASA comunity I seur weth you the lost of the 7 astronaut I have agreeet idia for you . contact to my email and i will explain to you all about .

NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
<mailto:sti+id@larc.nasa.gov>

.....

Date: Mon, 3 Feb 2003 23:18:35 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: whitebru@pacbell.net
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Customer has requested a Reply.

Comments:

Analizing the Shuttle's breakup: I suggest that NASA publicize the shuttle's ground track in the media so the people in Ca, AZ, N.Mexico and west Texas could know where to scout out and look for early-in-the-breakup debris. Also, I suggest that the foam impact on the left wing might have become embedded in and attached to some tiles, altering the Thermodynamic and Heat Transfer Properties of the Tiles, causing the burn through and shuttle breakup. Even if the foam impact forces were not strong enough to dislodge a/some tile(s).

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; MSNIA; Windows NT 5.0)

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X-Sender: m.p.finneran@pop.larc.nasa.gov
Date: Mon, 3 Feb 2003 21:54:16 -0500
To: c.w.cleghorn@larc.nasa.gov, r.d.allen@larc.nasa.gov
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Fwd: how does one see the flight path of the shuttle

Here's another to either respond to or put in the batch for HQ.

Mike

X-Sender: j.m.seaton@express.larc.nasa.gov
Date: Mon, 03 Feb 2003 13:21:55 -0500
To: M P Finneran <M.P.Finneran@larc.nasa.gov>
From: Jeff Seaton <j.m.seaton@larc.nasa.gov>
Subject: Fwd: how does one see the flight path of the shuttle

Mike,

Received this request a moment ago. No idea who this is (it's a Juno account that looks to be temporary) nor how to satisfy the request (if we should at all), but since it is likely related to the Columbia accident, I'm forwarding to you for any action.

Jeff

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From: [REDACTED]
To: j.m.seaton@larc.nasa.gov
Date: Mon, 3 Feb 2003 09:50:23 -0800
Subject: how does one see the flight path of the shuttle
X-Mailer: Juno 5.0.33

like to see 3d model of the flight of the shuttle or any kemps on the last missions, and or all missions. how do i get to see a 3d model of the shuttle or a com board on the internet .thank you.

Dup

Jeff Seaton
Learning Technologies Project Leader
Robotics Education Project Leader

Aerospace Systems, Concepts, and Analysis
Competency
NASA Langley Research Center Voice: (757) 864-6687
18D W Taylor St, Room 185A Fax: (757) 864-9713
Mail Stop 139, Bldg 1192D
Hampton, VA 23681
E-mail: j.m.seaton@larc.nasa.gov

Jeff Seaton
Learning Technologies Project Leader
Robotics Education Project Leader

Aerospace Systems, Concepts, and Analysis Competency
NASA Langley Research Center Voice: (757) 864-6687

18D W Taylor St, Room 185A Fax: (757) 864-9713
Mail Stop 139, Bldg 1192D
Hampton, VA 23681
E-mail: j.m.seaton@larc.nasa.gov

--
Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

Date: Mon, 3 Feb 2003 21:00:33 -0500 (EST)
To: feedback+site@larc.nasa.gov
From: [REDACTED]
Reply: [REDACTED]
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Web Site Design or Navigation
E-Mail Address: [REDACTED]
Daytime Phone: [REDACTED]
Home Address: N/A

Information Withheld Under
FOIA Exemption (b)(6)

Customer has requested a Reply.

Comments:

My father, [REDACTED], told me about a concern that was neglected at the time of construction. A set of braces were removed from the fuel cell canisters at the rear of the Columbia. They were in a very tight area and min. wall thickness was effected at isolated locations. If heat expanded the canisters they would be turned into explosive balloons with weak spots or if there was an electrical short in the area of one of these weakened walls it could be the root cause of our disaster. I know this work did NOT have to be performed on any other shuttles as the Columbia was first and the modification became a revision for future construction.

Please Forward to correct agency, Thank You... [REDACTED]

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90)

Date: Mon, 3 Feb 2003 19:44:40 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

Information Withheld Under
FOIA Exemption (b)(6)

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Daytime Phone: [REDACTED]
Home Address: [REDACTED]

Customer has selected 'No Reply'.

Comments:

First I extend my prayers to all the families, and the hard working folks at NASA. Why did'nt they dock at the spacestation and inspect or effect any possable repairs? And would that be a viable opt. in the future?

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

Date: Mon, 3 Feb 2003 14:56:02 -0800 (PST)

From: [REDACTED]

Subject: Thank you, Mr. Dittmore

To: feedback+admin@larc.nasa.gov

thank you for the excellent briefings, the patience, the exhaustive sharing of data, the leadership. It's easy to see why our country is the leader in this field with people like you at the helm. My thoughts are with you. [REDACTED]

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<http://mailplus.yahoo.com>

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X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Mon, 3 Feb 2003 15:51:10 -0500
To: r.d.allen@larc.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Fwd: My condolence to the families of the Columbia Shuttle

Bob,

You can go ahead and respond to this one since it is a condolence and not a technical question/comment. You are so good at wording other responses to LaRC Feedback that I'm sure you will come up with an appropriate thank you for condolences.

Thanks,

Cheryl

Dup

From: [REDACTED]
To: <feedback+admin@larc.nasa.gov>
Subject: My condolence to the families of the Columbia Shuttle
Date: Mon, 3 Feb 2003 20:44:51 -0000
X-Priority: 3

Hi

I wish to express my condolences and deepest sympathy to all the families of the Pilot's on board the "Columbia Shuttle Space Craft. I have followed your progress for many years and of course I have visited your site in Florida and have always been in "awe" at the size of everything there it is truly amazing? But this time there has been a tragic accident and those very brave people risk their lives so that "you" can continue to explore outer space I hope that you all will continue to do so i follow your progress on my computer here in Ireland all the time.

"by "for now

my

deepest sympathies to them and may they rest in peace.

Yours truly

[REDACTED]
[REDACTED]

**Information Withheld Under
FOIA Exemption (b)(6)**

From: [REDACTED]
To: <feedback+admin@larc.nasa.gov>
Subject: My condolence to the families of the Columbia Shuttle
Date: Mon, 3 Feb 2003 20:44:51 -0000
X-Priority: 3

Hi

I wish to express my condolences and deepest sympathy to all the families of the Pilot's on board the Columbia Shuttle Space Craft. I have followed your progress for many years and of course I have visited your site in Florida and have always been in "awe" at the size of everything there it is truly amazing? But this time there has been a tragic accident and those very brave people risk their lives so that you can continue to explore outer space I hope that you all will continue to do so i follow your progress on my computer here in Ireland all the time.

"by "for now

my

deepest sympathies to them and may they rest in peace.

Yours truly

[REDACTED]
[REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

Subject: FW: re-designed heat shield idea
Date: Mon, 3 Feb 2003 15:02:37 -0500
Thread-Topic: re-designed heat shield idea
Thread-Index: AcLKDrykcZtTizfHSLy53W4k/HSDPwBgrDVQAACfHkAACpfwMA==
From: "Eric Vogel" <evogel@sti.nasa.gov>
To: <r.d.allen@larc.nasa.gov>
Cc: "Cheryl Cleghorn" <c.w.cleghorn@larc.nasa.gov>

The following message containing a suggestion for improving the Space Shuttle s design after the STS-107 accident is forwarded to your office for further action.

Sincerely,

Eric Vogel

NASA STI Help Desk

help@sti.nasa.gov

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

From: helpdesk
Sent: Monday, February 03, 2003 9:55 AM
To: [REDACTED]
Cc: Lynn Heimerl
Subject: RE: re-designed heat shield idea

Information Withheld Under
FOIA Exemption (b)(6)

Dear [REDACTED]

Thank you for your expression of sympathy for the loss of the crew of STS-107 Columbia on Saturday. We appreciate your interest in finding the cause of accident and your suggestion for improving the Shuttle s design and will forward your communication to the appropriate NASA organization.

Sincerely,

For the NASA STI Help Desk,

Eric Vogel

327-322

ASRC Aerospace Corp.

help@sti.nasa.gov

The NASA Scientific and Technical Information Program is dedicated to providing superior service. Please help us achieve this goal by completing and submitting the STI Products/Services Feedback form at URL:

<http://poll.larc.nasa.gov/STI/>

If you are a repeat customer who prefers not to submit the survey each time you access service, we will assume that we have provided you satisfactory service; however, if the service was excellent or needs improvement, we would appreciate hearing from you.

Thanks for your cooperation.

**Information Withheld Under
FOIA Exemption (b)(6)**

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

From: [REDACTED]
Sent: Saturday, February 01, 2003 11:26 AM
To: helpdesk
Subject: re-designed heat shield idea

NASA,

My dad and I have talked in the past about the problems that exist during re-entry of spacecraft into the stratosphere. Now that this tragic disaster has taken place with the shuttle today, we feel compelled to offer our simple idea that would seem to cure the 'heat shield' problems.

Our idea is to install ceramic nozzles that would simply spray a mist of water or another similar solution that would absorb all this excess heat during the re-entry.

I would be very curious and appreciative if I could get a response to this 'idea'.

With great sincerity and sorrow,

[REDACTED]

[REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

X-Sender: n.l.heimerl@pop.larc.nasa.gov
X-Priority: 2 (High)
Date: Mon, 03 Feb 2003 14:52:15 -0500
To: r.d.allen@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov
From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
Subject: Fwd: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: n.l.heimerl@larc.nasa.gov

Bob and Cheryl:

Per Mike's email, we are referring the three inquiries (file attached) to you concerning the Columbia event. In each case, they have been told by our help desk that we were referring their comments to the appropriate NASA organization.

Thanks for the help.

Regards,

Lynn Heimerl
STI Program Office

X-Sender: m.p.finneran@pop.larc.nasa.gov
Date: Mon, 3 Feb 2003 14:03:41 -0500
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: k.r.credeur@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,
r.d.allen@larc.nasa.gov

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

Mike:

I understand. Our help desk is thanking folks for their sympathies, referring to the NASA HQ Columbia site, but holding the ones with suggestions and technical questions to forward to the appropriate office (and telling them that we are doing so).

Do you want me to send those to you or hold until you get info from HQ regarding who in NASA will take and handle these questions?

Regards,

Lynn H

At 10:18 AM 2/3/2003 -0500, you wrote:

Lynn, I've asked D.C. for guidance before responding. I haven't heard back yet. I don't mind so much responding by phone, but want to be careful with e-mails since they can be flashed around the

world. I'll let you know when we get guidance.

Thanks.

Mike

Mike:

Both our help desks (for STI and NIX) are getting a lot of inquiries and comments, many of which we can handle. However, do you know what NASA is doing with the ones that request specific information or give suggestions such that we cannot just refer them to the website information? If this being handled via HQ PAO or can you handle them via Langley and is any one specific organization tracking these?

Thanks.

Lynn Heimerl

X-Sender: n.l.heimerl@pop.larc.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 5.0.2
Date: Mon, 03 Feb 2003 09:33:32 -0500
To: [REDACTED]
From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
Subject: Re: Space Shuttle Columbia - Mission STS-107
Cc: n.l.heimerl@larc.nasa.gov, m.p.finneran@larc.nasa.gov

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Dear Mr. [REDACTED]

Thank you for your email. I am forwarding your questions to Michael Finneran here at NASA Langley Research Center since my duties in the STI Program do not put me in a position to know the answers to your questions.

I am confident that the points you mention will be reviewed as NASA determines the causes of the Columbia tragedy and fixes them so they do not occur again. We are all greatly saddened by this loss.

We appreciate you contacting NASA.

Best regards,

Lynn Heimerl
Technical Publications Manager
NASA Scientific and Technical Information Program

At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

- 1) It was mentioned on the news that the crew took photographic (film)

Dep

pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because if was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?

2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

[Redacted signature]

--
Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

**Information Withheld Under
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Dep

--
Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

Attachment converted: Macintosh HD:Columbia.inquiries.doc (WDBN/MSWD) (00070740)

Date: Mon, 3 Feb 2003 13:34:56 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Customer has selected 'No Reply'.

Comments:

Worked as Senior engineer for NNS&DD Co. in sixties.
I have an idea for improving the structural integrity and impact resistance of the heat shield tiles.
Would like to discuss it with knowledgeable engineer.

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Q312461)

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Date: Mon, 3 Feb 2003 11:43:31 -0500 (EST)
To: feedback+site@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Web Site Design or Navigation
Email Address: [REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Customer has requested a Reply.

Comments:

In regard to the shuttle accident:

I saw a photo showing three separate objects which by the fact that their contrails (?) were sensibly parallel seemed to be flying formation. If an explosion had caused their initial separation, should not the trails be divergent, emanating from the point of the explosion? If so, the event that caused their separation must have occurred much farther back along the trail and the initial separation velocity must have been low.

I was a NACA Nut and a NASA engineer for 30 years. I would not be able to sleep if I had not made sure that someone on the investigating team saw what I did.

The photo was published on a CNN News URL,

Sincerely,
[REDACTED]

Additional Information:

Browser: Mozilla/4.76 [en] (Windows NT 5.0; U)

From: "Megan Clark" <mclark@vasc.org>
To: <r.d.allen@larc.nasa.gov>
Subject: FW: VASC Feedback Form
Date: Mon, 3 Feb 2003 09:32:47 -0500
X-Priority: 3 (Normal)
Importance: Normal

Hi there.

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One for you.

Thanks, Megan

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

From: vasc.org@vasc.org [mailto:vasc.org@vasc.org]
Sent: Saturday, February 01, 2003 5:13 PM
To: mclark@vasc.org; nmount@vasc.org; lramey@vasc.org
Subject: VASC Feedback Form

name = [REDACTED]
company = Individual
Address = [REDACTED]
Address2 =
City = [REDACTED]
State = [REDACTED]
Zip = [REDACTED]
phone = [REDACTED]
email = [REDACTED]
web_source = Internet Search Engine
Comments = Please forward to the group monitoring the Shuttle Columbia Failure.

To Whom it may concern:

The Shuttle "may" have re-entered through a massive weather modification program conducted over the Pacific on 1/31 and 2/1 which involves high altitude spraying of Barium Salts, Aluminum Oxide, Ploymer Fibers, Ethylene-Dibromide by KC-130 tankers. This spraying activity was massive and could have increased the friction on the Shuttle causing the structural integrity failure. The Sky Obscuration program is top secret so information is not readily available but to use one source of proof of it's existence the National Weather Satellite Photo on AOL showing the area off the coast of California was blanked out! It is still blanked! Please! This could very well have contributed to the structural failure and needs to be investigated!

If you would like a quick primer on the program go to anomalies-unlimited.com. This would be a very sad example of the law of unintended consequences.

[REDACTED]
checkbox = Yes - email list
Submit = Submit

From: [REDACTED]
To: <feedback+admin@larc.nasa.gov>
Subject: Columbia Reconstruction
Date: Sun, 2 Feb 2003 16:51:04 -0500
X-Priority: 3

A suggestion... I will make this as brief as possible.

Because of a project I was working on I thought you might consider this...

1. Overlay debris field with a grid, assigning a unique colour to each West to East grid row.
2. Each colour would go from Dark to Light (or vice versa) by grid square one shade at a time.
3. Each recovered component would be assigned a grid reference.
4. The data would be used to drive 3D rendering software that had been configured for reconstruction of Columbia.
5. The rendered image would display a 3D representation of Columbia showing the colours from the original grid. This would give an excellent visual representation of Columbia showing what sections landed where.

Just a thought. I know it can be done with tables but a picture is worth a thousand words.

Please accept my condolences for the NASA family's loss.

[REDACTED]
[REDACTED]
[REDACTED]

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Date: Sat, 1 Feb 2003 22:56:12 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Customer has selected 'No Reply'.

Comments:

Like many, I am saddened at the loss of life in the recent shuttle tragedy. My question is this: Why can we not have a reentry vehicle specifically suited? It could be carried into space or even built there. It seems as though we think that a spaceship must land like a plane. Why? If it entered the atmosphere the way it exited, it would build up less heat. All you have to do then is apply the brakes. I know that I am ignorant of space aeronautical physics, but it makes little sense to approach landing like a traditional jet. There must be a simpler way with less risk. Thank you for your attention. I know that your efforts will be rewarding.

[REDACTED]

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

X-Originating-IP: [151.199.156.12]
From: [REDACTED]
To: feedback+admin@larc.nasa.gov
Subject: Columbia
Date: Sat, 01 Feb 2003 21:09:25 -0500
X-OriginalArrivalTime: 02 Feb 2003 02:09:25.0952 (UTC) FILETIME=[1C417C00:01C2CA60]

It is indeed a very sad day for the families. May God bless them all. This kind of history making we can well do without.
Is it possible that Columbia may have made contact with some object or small untracked piece of space junk? Something too small to detect. Or something lost and not reported? Something golf ball size at those speeds, wow! My mind's eye can't seem to see the damage. However, you must continue. [REDACTED]

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Date: Sat, 1 Feb 2003 19:08:41 -0500 (EST)
To: feedback+other@larc.nasa.gov
From: [REDACTED]
Reply-To: [REDACTED]
Subject: Langley Feedback Form

Information Withheld Under
FOIA Exemption (b)(6)

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Customer has selected 'No Reply'.

Comments:

Hello, I been involved with Nasa from the time I communitcated with Ron Praise aboard the Columbia STS-35/Astro-1, from Dec. 2-10 1990, this was a SAREX mission. The news for todays loss of Columbia is very sad for me. I have some insight which may help, so please get this message to the appropriate authorities. This foam from the main tank to the shuttle, my experience with it from being a body man working on cars, I have actually popped cement with it burning. This in my mind makes me think that during seperation this foam from the seperation of the main tank hit the aileron causing the shuttle to not make its pitches to slow it down, this foam burning on the tiles during re-entry may have been the catapult that caused the loss of manuverability, ths with the shuttle hitting that critical area for the most heat in the atmosphere to be absorbed by the tiles would have melted the wing or aileron completly off without the heat absorbing tiles. Please send or convey this messag!
e to the team of specalists that are working on this problem. I also suggest on future missions that at least one astronaut do a space walk to examine the complete bottom of the exterior of the tiles. These are my thoughts, If I can be of any further assistance feel free to contact me.

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 5.5; Windows 98; Win 9x 4.90)

567-331

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Wed, 5 Feb 2003 16:59:54 -0500
To: r.d.allen@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Fwd: NASA Astronauts

X-Sender: d.c.freeman@pop.larc.nasa.gov
Date: Wed, 5 Feb 2003 13:03:27 -0500
To: "SKORA, MARY M" <M.M.SKORA@larc.nasa.gov>
From: del freeman <d.c.freeman@larc.nasa.gov>
Subject: Fwd: NASA Astronauts

Marny, Delma would like to have this put on At LaRC for everyone to read and enjoy. Please say that it came from an old friend of LaRC's named Ken Cox.

Yesterday I received a gift that was meant to be shared with the Universe.

Let us never forget our fallen heroes and their wish that we continue up the path they have blazed for us.

Ken

--

Delma C. Freeman, Jr.
Deputy Director
NASA Langley Research Center
Mail Stop 106
Hampton, VA 23681

757-864-4222 (Telephone)
757-864-6117 (Fax)

Attachment converted: Macintosh HD:NASA.pps.ppt (SLD3/PPT3) (00070F2A)

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.

Hampton, VA 23681
(757) 864-6121

X-Sender: D.E.Gause@pop.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Tue, 4 Feb 2003 16:59:30 -0500
To: K.R.CREDEUR@larc.nasa.gov, D.G.LAWSON@larc.nasa.gov,
P.J.VERNIEL@larc.nasa.gov, G.S.LANGEVIN@larc.nasa.gov,
C.W.CLEGHORN@larc.nasa.gov, S.C.WEST@larc.nasa.gov,
C.L.HANCOCK@larc.nasa.gov, E.E.FENNER@larc.nasa.gov,
M.PITTS@larc.nasa.gov, L.R.RICH@larc.nasa.gov,
M.P.FINNERAN@larc.nasa.gov, H.K.HENRY@larc.nasa.gov,
I.GILMAN@larc.nasa.gov, C.P.RINK@larc.nasa.gov,
M.M.SKORA@larc.nasa.gov, R.D.ALLEN@larc.nasa.gov,
K.A.BARNSTORFF@larc.nasa.gov, A.Z.PARKER@larc.nasa.gov
From: Elaine Gause <D.E.Gause@larc.nasa.gov>
Subject: Fwd: STS-107 commemorative

FYI.

If you receive requests reference the email message below, please forward to me, and I will email a collective response.

Thanks,
Elaine

From: "HASSON, ELIZABETH R. (RENE) (JSC-NA) (NASA)"
<elizabeth.r.hasson@nasa.gov>
To: "Elaine Gause (E-mail)" <D.E.Gause@larc.nasa.gov>,
Gail James
<gjames@mail.arc.nasa.gov>,
"JONAS, STEPHEN B. (STEVE) (JSC-BD) (DCMA)"
<stephen.b.jonas1@jsc.nasa.gov>,
"Lynette Raburn (E-mail)"
<lraburn@mail.arc.nasa.gov>,
"Lynne Wiersma (E-mail)"
<Lynne.M.Wiersma@grc.nasa.gov>,
"Monica Palivoda (E-mail)"
<Monica.M.Palivoda@larc.nasa.gov>,
Sandy Meske
<sandy.meske@dfrc.nasa.gov>
Cc: "URPS, GWENDOLYN F. (GWEN) (JSC-NX) (NASA)"
<gwendolyn.f.urps@nasa.gov>,
"ZELON, BARBARA E. (JSC-NA) (NASA)"
<barbara.e.zelon@nasa.gov>
Subject: STS-107 commemorative
Date: Tue, 4 Feb 2003 15:40:04 -0600

SFA is currently working to design some sort of commemorative item for the employees in tribute of the STS-107 crew and Columbia. If you receive requests for other STS-107 memorabilia from your Senior managers, please forward these requests to Gwen Urps at Gwendolyn.f.urps@nasa.gov. Gwen is handling the SFA activities for the Research Centers in the interim until an official selection has been made. You might cc me as well so that I can help Gwen work through your questions and requests. Lynne at GRC had asked about decals and truly reprinting of these products have not been discussed yet.

I have been thinking about the Research Centers and how much this mission meant to all of you especially. I now we all lost the crew and the hardware, but you all lost the research and years of hard work. My thoughts and prayers are with you and your teams as well. Take care. I'll be in touch soon.

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Tue, 4 Feb 2003 08:26:36 -0500
To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,
i.gilman@larc.nasa.gov, c.p.rink@larc.nasa.gov,
r.d.allen@larc.nasa.gov, w.c.uher@larc.nasa.gov,
k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov,
l.r.rich@larc.nasa.gov, a.z.parker@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Info on Thursday's memorial
Cc: m.p.finneran@larc.nasa.gov

All--

FYI

Bob--

Please post on @LaRC after today's ceremony and for tomorrow

marny

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**.

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>**.

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
X-Priority: 2 (High)
Date: Mon, 3 Feb 2003 14:59:32 -0500
To: feedback+site@larc.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Space Shuttle Columbia Questions/Comments

Dup

Please do not respond to any of the Columbia tragedy questions/comments that we are receiving through the Langley Feedback Form via Langley's Public web site. Langley's Office of External Affairs is working with NASA HQ on this issue and will respond to all requests received based on the guidance received from HQs.

Thanks,

Cheryl

--

CHERYL CLEGHORN
Public Affairs Specialist
NASA Langley Research Center
Office of Public Services
PHONE: (757) 864-2497
FAX: (757) 864-7732
<http://www.larc.nasa.gov>

SGT 335

X-Sender: m.pitts@express.larc.nasa.gov
 Date: Mon, 3 Feb 2003 14:50:01 -0500
 To: M.P.FINNERAN@larc.nasa.gov, M.M.Skora@larc.nasa.gov,
 K.R.CREDEUR@larc.nasa.gov, a.z.parker@larc.nasa.gov,
 r.d.allen@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,
 H.K.Henry@larc.nasa.gov, C.L.HANCOCK@larc.nasa.gov,
 L.R.RICH@larc.nasa.gov, P.J.VERNIEL@larc.nasa.gov,
 D.E.Gause@larc.nasa.gov, M.E.WOODCOCK@larc.nasa.gov,
 J.G.LEHMAN@larc.nasa.gov, J.C.SHANKS@larc.nasa.gov,
 S.C.WEST@larc.nasa.gov, K.W.LAND@larc.nasa.gov,
 T.A.DIXON@larc.nasa.gov, C.W.CLEGHORN@larc.nasa.gov,
 D.G.Lawson@larc.nasa.gov, C.P.RINK@larc.nasa.gov,
 J.R.ROBERTS@larc.nasa.gov, J.B.CAPLAN@larc.nasa.gov,
 E.M.CONWAY@larc.nasa.gov, w.c.uher@larc.nasa.gov,
 h.a.hunter@larc.nasa.gov, g.s.langevin@larc.nasa.gov,
 g.a.banziger@larc.nasa.gov, a.l.carden@larc.nasa.gov,
 j.d.simons@larc.nasa.gov, d.c.christensen@larc.nasa.gov,
 j.j.meehan@larc.nasa.gov, A.N.BLACK@larc.nasa.gov,
 D.L.BLANCHARD-GROSS@larc.nasa.gov, N.S.Friend@larc.nasa.gov,
 K.J.EVANS@larc.nasa.gov, e.e.fenner@larc.nasa.gov
 From: Margarette Pitts <m.pitts@larc.nasa.gov>
 Subject: Fwd: STS-107 Memorial Service

X-Sender: m.pitts@express.larc.nasa.gov
 Date: Mon, 3 Feb 2003 14:25:51 -0500
 To: title=secretary@larc.nasa.gov
 From: Margarette Pitts <m.pitts@larc.nasa.gov>
 Subject: STS-107 Memorial Service
 Date: Mon, 3 Feb 2003 14:25:59 -0500 (EST)

Please forward the following information to the employees in your organization:

Langley civil service and contractor employees are invited to participate in a memorial service for the STS-107 crew being held at the Johnson Space Center tomorrow. Speakers will include President Bush and Administrator O'Keefe.

The memorial will be broadcast via NASA TV and be held in the Reid Conference Center.

Employees are asked to be in place by 12:50 p.m. Associate Director Douglas Dwoyer will make opening remarks on behalf of Acting Director Freeman. The service is expected to conclude about 1:30.

Margarette Pitts
 Office of External Affairs
 Building 1219, Room 304
 Mail Stop 115
 NASA Langley Research Center
 Hampton, VA 23681-2199
 757-864-6124 - Phone
 757-864-6333 - Fax

Margarette Pitts
 Office of External Affairs
 Building 1219, Room 304
 Mail Stop 115

SG - 336

NASA Langley Research Center
Hampton, VA 23681-2199
757-864-6124 - Phone
757-864-6333 - Fax

X-Sender: m.p.finneran@pop.larc.nasa.gov
Date: Mon, 3 Feb 2003 14:03:41 -0500
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: k.r.credeur@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,
r.d.allen@larc.nasa.gov

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

Mike:

I understand. Our help desk is thanking folks for their sympathies, referring to the NASA HQ Columbia site, but holding the ones with suggestions and technical questions to forward to the appropriate office (and telling them that we are doing so).

Do you want me to send those to you or hold until you get info from HQ regarding who in NASA will take and handle these questions?

Regards,

Lynn H

At 10:18 AM 2/3/2003 -0500, you wrote:

Lynn, I've asked D.C. for guidance before responding. I haven't heard back yet. I don't mind so much responding by phone, but want to be careful with e-mails since they can be flashed around the world. I'll let you know when we get guidance.

Thanks.

Mike

Mike:

Both our help desks (for STI and NIX) are getting a lot of inquiries and comments, many of which we can handle. However, do you know what NASA is doing with the ones that request specific information or give suggestions such that we cannot just refer them to the website information? If this being handled via HQ PAO or can you handle them via Langley and is any one specific organization tracking these?

Thanks.

Lynn Heimerl

Information Withheld Under
FOIA Exemption (b)(6)

X-Sender: n.l.heimerl@pop.larc.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 5.0.2
Date: Mon, 03 Feb 2003 09:33:32 -0500
To: [REDACTED]

56-337

From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
Subject: Re: Space Shuttle Columbia - Mission STS-107
Cc: n.l.heimerl@larc.nasa.gov, m.p.finneran@larc.nasa.gov

Dear Mr. [REDACTED]

Thank you for your email. I am forwarding your questions to Michael Finneran here at NASA Langley Research Center since my duties in the STI Program do not put me in a position to know the answers to your questions.

I am confident that the points you mention will be reviewed as NASA determines the causes of the Columbia tragedy and fixes them so they do not occur again. We are all greatly saddened by this loss.

We appreciate you contacting NASA.

Best regards,

Lynn Heimerl
Technical Publications Manager
NASA Scientific and Technical Information Program

**Information Withheld Under
FOIA Exemption (b)(6)**

At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

1) It was mentioned on the news that the crew took photographic (film) pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because it was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?

2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

[REDACTED]

--
Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

Dep

DJP

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

--
Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
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Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

X-Sender: msfc/wallsbk/Bryan.Walls@MSECHO3.msfc.nasa.gov (Unverified)
Date: Mon, 3 Feb 2003 10:12:23 -0600
To: Brian Dunbar <bdunbar@mail.hq.nasa.gov>, nasa-webmasters@larc.nasa.gov,
catherine.e.watson1@jsc.nasa.gov, Lynn.A.Jenner.1@gssc.nasa.gov,
R.D.ALLEN@larc.nasa.gov, Keith.A.Koehler.1@gssc.nasa.gov,
kay.grinter-1@ksc.nasa.gov, Ed.Medal@msfc.nasa.gov,
david.defelice@grc.nasa.gov, susan.reichley@jpl.nasa.gov,
jenny.baer-riedhart@dfrc.nasa.gov, jdino@mail.arc.nasa.gov,
Dennis.Armstrong-1@ksc.nasa.gov, C.W.Cleghorn@larc.nasa.gov,
ahutchison@mail.arc.nasa.gov, Paul.Foerman@ssc.nasa.gov
From: Bryan Walls <Bryan.K.Walls@nasa.gov>
Subject: Re: Web memorials for 107 crew
Cc: shelley.canright@hq.nasa.gov, christine.johnson@hq.nasa.gov

Not so much a memorial or anything, but I think it is important that we get out some kind of information to our mailing list of 250,000 or so. We told them to go out and look for the shuttle, and quite a few of our readers are probably among those who did see it breaking up.

I think we ought to at least tell them to go to <http://www.nasa.gov/columbia> to find more information or to report what they saw.

Is there an approval process available for the message we send out? It's important that we not be without compassion and feeling in what we say, but I realize the balance must be careful.

I think we also need a link from our main pages to the Columbia page. Will there be some kind of icon (even the mission patch) that is an approved link?

At 3:46 PM -0500 2/1/03, Brian Dunbar wrote:

All,

This is obviously a time of deep grief at NASA and people are starting to think about how to best honor the memory of the STS-107. Less than 7 hours after the tragic loss of the crew, emotions are still very raw, and beyond lowering flags to half-staff, the Administrator himself has not decided the most appropriate means of memorializing the crew. Given that, and out of deference to the families of the crew who are still dealing with the terrible shock, please do not create or post memorial sites or pages for the mission and crew. The timing is simply not appropriate, and we should all follow the Administrator's lead when the time comes.

In the days to come, we will all have an opportunity to show our respect for the crew and our sympathy for their families. In the meantime, if you wish to keep your users up to date on the 107 investigation, please point them to www.nasa.gov. Sometime this weekend we will remove the advisory page from the top level and go back to the standard home page (without the animated introduction) with the rotating Flash banner replaced by a fixed graphic link to the latest information. This is not the way we would have hoped to do load testing on the new hosting environment.

I have sometimes wondered, in my 13 years at NASA, if I would ever have to live through a day like Jan. 27, 1967, or Jan. 28, 1986. Today I can honestly say I would have lived well and happily for all my days without ever having done so.

Brian

--

Bryan Walls
Bryan.K.Walls@nasa.gov
<http://science.nasa.gov>

My words are not NASA policy.
(256)544-3311 voice, 544-7128 fax
<http://liftoff.msfc.nasa.gov> <http://kids.msfc.nasa.gov>

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Sun, 2 Feb 2003 18:48:00 -0500
To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,
c.p.rink@larc.nasa.gov, r.d.allen@larc.nasa.gov,
w.c.uher@larc.nasa.gov, k.w.land@larc.nasa.gov,
j.r.roberts@larc.nasa.gov, g.a.banziger@larc.nasa.gov,
k.j.evans@larc.nasa.gov, m.pitts@larc.nasa.gov,
j.j.meehan@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Thanks
Cc: m.p.finneran@larc.nasa.gov, k.r.credeur@larc.nasa.gov

Thanks to all who helped us get through this difficult event -- those who came in over the weekend as well as those of you who offered to help. Everyone played a role -- either on Center or by telephone.

Keith has done a masterful job as Center spokesperson --both explaining the Center's contributions to Shuttle and current capabilities as well as assisting Mark Saunders in explaining technical issues for our questioning media.

Thanks to Margarette for coming in to manage the telephones and for providing information as it became available. Without her organization and communication skills in seeing to contingency details for each and every mission, we would not have been prepared to respond so quickly.

Kathy has been invaluable in badging and escorting media, mining the Internet for background information, being everywhere at the same time.

Thanks to Kim for helping with the technical aspects of the news briefings and arranging for taping of news reports.

And to Jim Meehan for making his folks available if needed, for his technical expertise and for having anyone's and everyone's phone number available.

Finally, special thanks to Leslie, Wes and his folks -- but that's another e-mail.

It's not over by any means, but this office has accomplished an impressive effort. Thank you.

marny
--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

X-Sender: d.g.lawson@pop.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Wed, 5 Feb 2003 15:16:57 -0500
To: R.D.ALLEN@larc.nasa.gov
From: Donna Lawson <d.g.lawson@larc.nasa.gov>
Subject: Fwd: Urgent Assistance Requested

Information Withheld Under
FOIA Exemption (b)(6)

X-Priority: 1 (Highest)
Date: Wed, 5 Feb 2003 14:55:34 -0800
To: D.G.LAWSON@larc.nasa.gov, A.N.BLACK@larc.nasa.gov,
J.J.MEEHAN@larc.nasa.gov
From: Meghan Woodcock <m.e.woodcock@larc.nasa.gov>
Subject: Fwd: Urgent Assistance Requested

Donna, I'm sorry, when you called me about this earlier I thought [redacted] was an employee here (thus, I sent you to Nicole for Employee Loan Agreement). As [redacted] is not a Langley employee I will handle the Property Loan Agreement documentation for this event, it will have to be loaned to his Boy Scout organization, we can not loan it to him directly. -Meghan

X-Sender: d.g.lawson@pop.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Wed, 5 Feb 2003 14:38:44 -0500
To: Nicole Black <A.N.BLACK@larc.nasa.gov>
From: Donna Lawson <d.g.lawson@larc.nasa.gov>
Subject: Fwd: Urgent Assistance Requested
Cc: R.D.ALLEN@larc.nasa.gov, <J.J.Meehan@larc.nasa.gov>,
M.E.WOODCOCK@larc.nasa.gov, K.R.CREDEUR@larc.nasa.gov,
M.P.FINNERAN@larc.nasa.gov, D.G.LAWSON@larc.nasa.gov

Nicole,

Monica Schrum has agreed to loan a NASA flap to [redacted] for a VA merit badge scout event this Saturday at which they intend to honor the Columbia. You need to draft the loan agreement, fax it and get it signed, then work out the details of transmission of the flag and its timely return. Bob Allen will be a valuable resource.

Thanks,

Donna

From: [redacted]
Date: Tue, 4 Feb 2003 17:58:42 EST
Subject: Urgent Assistance Requested
To: feedback+admin@larc.nasa.gov

My name is [redacted] and I am a Boy Scout volunteer. Every other year we hold a Merit Badge College for the Scouts of Central Virginia. During this time we take over the campus of a local college for a series of Saturday mornings over a six-week period. This year the College opens at 9:00 AM on February 8, 2003. Two of the Merit Badges we offer are Aviation and Space Exploration.

Since all four of the American male astronauts of Columbia were former Scouts and Cmdr McCool was an Eagle Scout and I believe from Virginia, we feel that it would be more than fitting for us to hold a memorial service at the beginning of our Merit Badge College.

54-340

1
Dup

DLP

Therefore, we were wondering if we could borrow for the day a NASA or Columbia flag for the service.

[Redacted text block]

Information Withheld Under FOIA Exemption (b)(6)

BTW: I was a former NASA employee at the Goddard Space Flight Center in Maryland.

--

SUZANNE N. BARNES
Secretary, Security Office

NASA Langley Research Center
Building 1163, Room 112
7 Hunsaker Loop
Hampton, VA 23681

Phone: (757) 864-3420
Fax: (757) 864-8868

--

Monica Green Schrum
Security Office, OSEM

Voice: (757) 864-3420
Fax: (757) 864-8868
Page: (757) 864-8952/0024

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
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Hampton, VA 23681
(757) 864-6121

--
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Cell phone: (757) 344-4611

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Dep

--

Karen R. Credeur, Ph.D.
Head, Office of Public Services Phone: 757-864-3307
Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

--

Donna G. Lawson Phone: 757-864-2505
Public Affairs Specialist Fax: 757-864-7732
Office of External Affairs E-mail: d.g.lawson@larc.nasa.gov

--
Meghan Woodcock
Exhibits Manager
Mail Stop 145
NASA Langley Research Center
Hampton, VA 23681
Ph: 757-864-3296
Fx: 757-864-9512
e-mail: m.e.woodcock@larc.nasa.gov

--

Donna G. Lawson Phone: 757-864-2505
Public Affairs Specialist Fax: 757-864-7732
Office of External Affairs E-mail: d.g.lawson@larc.nasa.gov

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Wed, 5 Feb 2003 15:10:40 -0500
To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,
c.p.rink@larc.nasa.gov, r.d.allen@larc.nasa.gov,
w.c.uher@larc.nasa.gov, k.w.land@larc.nasa.gov,
j.r.roberts@larc.nasa.gov, g.a.banziger@larc.nasa.gov,
k.j.evans@larc.nasa.gov, m.pitts@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Update from Today's PAO tag-up
Cc: m.p.finneran@larc.nasa.gov

* No 11:30 STS-107 news briefing from HQ tomorrow
10 a.m. Washington National Cathedral memorial takes precedence

* 11:30 and 4:30 briefings on Friday

* No schedule yet for weekend
We should make preparations to be open and have Q&A capability--Gary
Easier to cancel than to make last minute preparations
I am thinking about the right number of people we need to have on board
This may be a long haul -- everyone will be called upon at some time
For this weekend I'd like to call on Gary, Keith, Bill
If any of you are not available, speak quickly so I can substitute
I'd like to ask Marg to monitor the phone from home.
She can call me with media requests to come out

* HQ has set up a Columbia PAO room
Staffed by Feinstein, Braukus, Melissa, Elvia, and _____
They can be reached by calling the newroom # (202-359-1600)
Their direct line forthcoming
Forward Qs for which we have had no guidance
We can answer Qs on info in the public domain
We can provide documents that have already been released
(more guidance coming)

* Several astronauts have been approved to do interviews
Names coming
They will talk about -astronaut training
-the close astronaut family
-what it's like -- launch, landing

* More to come

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
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11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

SG-34

X-Sender: d.g.lawson@pop.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Wed, 5 Feb 2003 14:43:58 -0500
To: Nicole Black <A.N.BLACK@larc.nasa.gov>
From: Donna Lawson <d.g.lawson@larc.nasa.gov>
Subject: Fwd: Urgent Assistance Requested
Cc: D.G.LAWSON@larc.nasa.gov, <J.J.Meehan@larc.nasa.gov>, M.E.WOODCOCK@larc.nasa.gov, R.D.ALLEN@larc.nasa.gov

Nicole,

I am willing to cover the Fed-X charges both ways for sending the flag. You must have his signature though. Please work with Meghan if you need advice on covering the shipping Fed-X charge.

Donna

Date: Wed, 5 Feb 2003 14:38:44 -0500
To: Nicole Black <A.N.BLACK@LaRC.NASA.GOV>
From: Donna Lawson <d.g.lawson@larc.nasa.gov>
Subject: Fwd: Urgent Assistance Requested
Cc: R.D.ALLEN@LaRC.NASA.GOV, <J.J.Meehan@larc.nasa.gov>, M.E.WOODCOCK@LaRC.NASA.GOV, K.R.CREDEUR@LaRC.NASA.GOV, M.P.FINNERAN@LaRC.NASA.GOV, D.G.LAWSON@LaRC.NASA.GOV
Bcc:
X-Attachments:

Nicole,

Monica Schrum has agreed to loan a NASA flap to Mr. [REDACTED] for a VA merit badge scout event this Saturday at which they intend to honor the Columbia. You need to draft the loan agreement, fax it and get it signed, then work out the details of transmission of the flag and its timely return. Bob Allen will be a valuable resource.

Thanks,

Donna

Information Withheld Under
FOIA Exemption (b)(6)

From: <Rcwscouts@aol.com>
Date: Tue, 4 Feb 2003 17:58:42 EST
Subject: Urgent Assistance Requested
To: feedback+admin@larc.nasa.gov

My name is [REDACTED] and I am a Boy Scout volunteer. Every other year we hold a Merit Badge College for the Scouts of Central Virginia. During this time we take over the campus of a local college for a series of Saturday mornings over a six-week period. This year the College opens at 9:00 AM on February 8, 2003. Two of the Merit Badges we offer are Aviation and Space Exploration.

Since all four of the American male astronauts of Columbia were former Scouts and Cmdr McCool was an Eagle Scout and I believe from Virginia, we feel that it would be more than fitting for us to hold a memorial service at the beginning of our Merit Badge College. Therefore, we were wondering if we could borrow for the day a NASA or Columbia flag for the service.

[REDACTED]

26-342

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

BTW: I was a former NASA employee at the Goddard Space Flight Center in Maryland.

--

SUZANNE N. BARNES.....
Secretary, Security Office
.....

NASA Langley Research Center
Building 1163, Room 112.....
7 Hunsaker Loop.....
Hampton, VA 23681.....
.....

Phone: (757) 864-3420.....
Fax: (757) 864-8868.....

--

Monica Green Schrum
Security Office, OSEM

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Fax: (757) 864-8868
Page: (757) 864-8952/0024

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
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11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

--

Michael Finneran

X-Sender: d.g.lawson@pop.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Wed, 5 Feb 2003 14:38:44 -0500
To: Nicole Black <A.N.BLACK@larc.nasa.gov>
From: Donna Lawson <d.g.lawson@larc.nasa.gov>
Subject: Fwd: Urgent Assistance Requested
Cc: R.D.ALLEN@larc.nasa.gov, <J.J.Meehan@larc.nasa.gov>, M.E.WOODCOCK@larc.nasa.gov, K.R.CREDEUR@larc.nasa.gov, M.P.FINNERAN@larc.nasa.gov, D.G.LAWSON@larc.nasa.gov

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Thanks,

Donna

Information Withheld Under
FOIA Exemption (b)(6)

From: <Rcwscouts@aol.com>
Date: Tue, 4 Feb 2003 17:58:42 EST
Subject: Urgent Assistance Requested
To: feedback+admin@larc.nasa.gov

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[REDACTED]

BTW: I was a former NASA employee at the Goddard Space Flight Center in Maryland.

SUZANNE N. BARNES
Secretary, Security Office
.....

NASA Langley Research Center
Building 1163, Room 112
7 Hunsaker Loop
Hampton, VA 23681

Phone: (757) 864-3420
Fax: (757) 864-8868

--

Monica Green Schrum
Security Office, OSEM

Voice: (757) 864-3420
Fax: (757) 864-8868
Page: (757) 864-8952/0024

--

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Michael Finneran
Head, Office of External Affairs
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Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

--

Marny Skora
Head, Office of Public Affairs

X-Sender: k.r.credeur@express.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Wed, 5 Feb 2003 13:50:42 -0500
To: Donna Gail Roper Lawson <d.g.lawson@larc.nasa.gov>
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Urgent Assistance Requested
Cc: r.d.allen@larc.nasa.gov, Carole Hancock <C.L.HANCOCK@larc.nasa.gov>

Donna, Please get with Bob and help him. Perhaps Meghan is the one you will need to send him to.
Karen

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Wed, 5 Feb 2003 13:29:12 -0500
To: r.d.allen@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Fwd: Re: Fwd: Urgent Assistance Requested
Cc: k.r.credeur@larc.nasa.gov,
"SCHRUM, MONICA GREEN" <M.G.SCHRUM@larc.nasa.gov>

Bob--

Mike agrees. I think we have only one Columbia flag and that need to stay here. Monica indicates she is willing to loan NASA flag if we concur.

Work with Karen and whomever she designates to draft the loan agreement, fax it and get it signed, then work out the details of transmission of the flag and its timely return.

Thanks,
marny

X-Sender: m.p.finneran@pop.larc.nasa.gov
Date: Wed, 5 Feb 2003 13:01:20 -0500
To: Marny Skora <m.m.skora@larc.nasa.gov>
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Re: Fwd: Urgent Assistance Requested
Cc: r.d.allen@larc.nasa.gov, "SCHRUM, MONICA GREEN" <M.G.SCHRUM@larc.nasa.gov>

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367 - 344

marny

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Date: Wed, 5 Feb 2003 12:09:51 -0500
To: "Marny M. Skora" <M.M.SKORA@larc.nasa.gov>
From: "Robert D. Allen" <r.d.allen@larc.nasa.gov>
Subject: Fwd: Urgent Assistance Requested
Cc: "SCHRUM, MONICA GREEN" <M.G.SCHRUM@larc.nasa.gov>, "Cheryl W. Cleghorn" <C.W.CLEGHORN@larc.nasa.gov>

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Date: Wed, 5 Feb 2003 10:27:56 -0500
To: m.g.schrum@larc.nasa.gov
From: Suzanne Barnes <s.n.barnes@larc.nasa.gov>
Subject: Fwd: Urgent Assistance Requested

Information Withheld Under
FOIA Exemption (b)(6)

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Any review and consideration is appreciated. Let me know either way, so that I can respond to [REDACTED]

Bob Allen

r.d.allen@larc.nasa.gov
Phone: x46176
Fax: x46477
Public Affairs Office

From: [REDACTED]
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To: feedback+admin@larc.nasa.gov

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BTW: I was a former NASA employee at the Goddard Space Flight Center in Maryland.

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Karen R. Credeur, Ph.D.
Head, Office of Public Services
Dep. Head, Office of External Affairs
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To: feedback+admin@larc.nasa.gov

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Since all four of the American male astronauts of Columbia were former Scouts and Cmdr McCool was an Eagle Scout and I believe from Virginia, we feel that it would be more than fitting for us to hold a memorial service at the beginning of our Merit Badge College. Therefore, we were wondering if we could borrow for the day a NASA or Columbia flag for the service.

267 - 349

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

BTW: I was a former NASA employee at the Goddard Space Flight Center in Maryland.

--

SUZANNE N. BARNES
Secretary, Security Office

NASA Langley Research Center
Building 1163, Room 112
7 Hunsaker Loop
Hampton, VA 23681

Phone: (757) 864-3420
Fax: (757) 864-8868

Information Withheld Under
FOIA Exemption (b)(6)

--
Monica Green Schrum
Security Office, OSEM

Voice: (757) 864-3420
Fax: (757) 864-8868
Page: (757) 864-8952/0024

To: "BARNES, SUZANNE N" <S.N.BARNES@LaRC.NASA.GOV>
From: "Robert D. Allen" <r.d.allen@larc.nasa.gov>
Subject: Fwd: Urgent Assistance Requested
Cc:
Bcc: "":Columbia / STS-107"
X-Attachments:

Suzanne:

Here is the Boy Scouts request for a flag that I talked with you about over the telephone.

Any review and consideration is appreciated. Let me know either way, so that I can respond to [REDACTED]

Bob Allen
r.d.allen@larc.nasa.gov
Phone: x46176
Fax: x46477
Public Affairs Office

**Information Withheld Under
FOIA Exemption (b)(6)**

From: [REDACTED]
Date: Tue, 4 Feb 2003 17:58:42 EST
Subject: Urgent Assistance Requested
To: feedback+admin@larc.nasa.gov

My name is [REDACTED] and I am a Boy Scout volunteer. Every other year we hold a Merit Badge College for the Scouts of Central Virginia. During this time we take over the campus of a local college for a series of Saturday mornings over a six-week period. This year the College opens at 9:00 AM on February 8, 2003. Two of the Merit Badges we offer are Aviation and Space Exploration.

Since all four of the American male astronauts of Columbia were former Scouts and Cmdr McCool was an Eagle Scout and I believe from Virginia, we feel that it would be more than fitting for us to hold a memorial service at the beginning of our Merit Badge College. Therefore, we were wondering if we could borrow for the day a NASA or Columbia flag for the service.

[REDACTED]

BTW: I was a former NASA employee at the Goddard Space Flight Center in Maryland.

36-350

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Tue, 4 Feb 2003 10:37:27 -0500
To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Space Shuttle Columbia - Mission STS-107

Mr. [REDACTED],

We appreciate your interest in finding the cause of this tragic accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

From: [REDACTED]
Subject: Web Site Design or Navigation
EMail Address: [REDACTED]

**Information Withheld Under
FOIA Exemption (b)(6)**

Daytime Phone: [REDACTED]
Home Address: N/A

Customer has requested a Reply.

Comments:
My father, [REDACTED], told me about a concern that was neglected at the time of construction. A set of braces were removed from the fuel cell canisters at the rear of the Columbia. They were in a very tight area and min. wall thickness was effected at isolated locations. If heat expanded the canisters they would be turned into explosive balloons with weak spots or if there was an electrical short in the area of one of these weakened walls it could be the root cause of our disaster. I know this work did NOT have to be performed on any other shuttles as the Columbia was first and the modification became a revision for future construction.

Please Forward to correct agency, Thank You [REDACTED]

Additional Information:
Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows 98; Win 9x 4.90)

CHERYL CLEGHORN
Public Affairs Specialist
NASA Langley Research Center
Office of Public Services
PHONE: (757) 864-2497
FAX: (757) 864-7732
<http://www.larc.nasa.gov>

56-351

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Tue, 4 Feb 2003 10:33:46 -0500
To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: Thank you, Mr. Dittmore

[REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

thank you for the excellent briefings, the patience, the exhaustive sharing of data, the leadership. It's easy to see why our country is the leader in this field with people like you at the helm. My thoughts are with you. [REDACTED]

Do you Yahoo!?
Yahoo! Mail Plus - Powerful. Affordable. Sign up now.
<http://mailplus.yahoo.com>

--

CHERYL CLEGHORN
Public Affairs Specialist
NASA Langley Research Center
Office of Public Services
PHONE: (757) 864-2497
FAX: (757) 864-7732
<http://www.larc.nasa.gov>

**Information Withheld Under
FOIA Exemption (b)(6)**

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Tue, 4 Feb 2003 10:30:37 -0500
To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Space Shuttle Columbia - Mission STS-107

Ms. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of the accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

**Information Withheld Under
FOIA Exemption (b)(6)**

ID: LARC-822
Date: 02/03/2003 (14:07 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

condolences on columbia 7 loss. would an egect module similar to the egect seat on fighter planes be a modification beneficial to future shuttle flights? Were all astronauts could be in amodule which could automatically egect them if trouble in the shuttle with an automatic oarachute when reaching low enough altitude. the module should have a heat sheild and oxygen supply and could be placed in the current cone nose of the existing shuttle desig [REDACTED]

CHERYL CLEGHORN
Public Affairs Specialist
NASA Langley Research Center
Office of Public Services
PHONE: (757) 864-2497
FAX: (757) 864-7732
<http://www.larc.nasa.gov>

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Tue, 4 Feb 2003 10:27:35 -0500
To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Space Shuttle Columbia - Mission STS-107

Mr. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of this tragic accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

**Information Withheld Under
FOIA Exemption (b)(6)**

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]
Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Customer has selected 'No Reply'.

Comments:
Hello, I been involved with Nasa from the time I communitcated with Ron Praise aboard the Columbia STS-35/Astro-1, from Dec. 2-10 1990, this was a SAREX mission. The news for todays loss of Columbia is very sad for me. I have some insight which may help, so please get this message to the appropriate authorities. This foam from the main tank to the shuttle, my experience with it from being a body man working on cars, I have actually popped cement with it burning. This in my mind makes me think that during seperation this foam from the seperation of the main tank hit the aileron causing the shuttle to not make its pitches to slow it down, this foam burning on the tiles during re-entry may have been the catapult that caused the loss of manuverability, thus with the shuttle hitting that critical area for the most heat in the atmosphere to be absorbed by the tiles would have melted the wing or aileron completly off without the heat absorbing tiles. Please send or convey this messag!
e to the team of specalists that are working on this problem. I also suggest on future missions that at least one astronaut do a space walk to examine the complete bottom of the exterior of the tiles. These are my thoughts, If I can be of any further assistance feel free to contact me.

[REDACTED]

Additional Information:
Browser: Mozilla/4.0 (compatible; MSIE 5.5; Windows 98; Win 9x 4.90)

--

CHERYL CLEGHORN
Public Affairs Specialist

56-354

NASA Langley Research Center
Office of Public Services
PHONE: (757) 864-2497
FAX: (757) 864-7732
<http://www.larc.nasa.gov>

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
X-Priority: 2 (High)
Date: Tue, 4 Feb 2003 10:12:30 -0500
To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Space Shuttle Columbia - Mission STS-107

Mr. [REDACTED]

We appreciate your interest in finding the cause of this tragic accident. Your questions have been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

- 1) It was mentioned on the news that the crew took photographic (film) pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because it was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?
- 2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

[REDACTED]
[REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

CHERYL CLEGHORN
Public Affairs Specialist
NASA Langley Research Center
Office of Public Services
PHONE: (757) 864-2497
FAX: (757) 864-7732
<http://www.larc.nasa.gov>

Jan - 355

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Tue, 4 Feb 2003 10:05:10 -0500
To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: Langley Feedback Form

Mr. [REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of this tragic accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Information Withheld Under
FOIA Exemption (b)(6)

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Customer has selected 'No Reply'.

Comments:

Like many, I am saddened at the loss of life in the recent shuttle tragedy. My question is this: Why can we not have a reentry vehicle specifically suited? It could be carried into space or even built there. It seems as though we think that a spaceship must land like a plane. Why? If it entered the atmosphere the way it exited, it would build up less heat. All you have to do then is apply the brakes. I know that I am ignorant of space aeronautical physics, but it makes little sense to approach landing like a traditional jet. There must be a simpler way with less risk. Thank you for your attention. I know that your efforts will be rewarding.

[REDACTED]

Additional Information:

Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1)

--

CHERYL CLEGHORN
Public Affairs Specialist
NASA Langley Research Center
Office of Public Services
PHONE: (757) 864-2497
FAX: (757) 864-7732
<http://www.larc.nasa.gov>

36-356

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Tue, 4 Feb 2003 09:57:23 -0500
To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Space Shuttle Columbia - Mission STS-107

Mr. [REDACTED]

We appreciate your interest in improving the structural integrity and impact resistance of the heat shield tiles on the Space Shuttle. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

From: [REDACTED]
Subject: Other
EMail Address: [REDACTED]

Daytime Phone: [REDACTED]
Home Address: [REDACTED]
[REDACTED]

Customer has selected 'No Reply'.

Comments:
Worked as Senior engineer for NNS&DD Co. in sixties.
I have an idea for improving the structural integrity and impact resistance of the heat shield tiles.
Would like to discuss it with knowledgeable engineer.

Additional Information:
Browser: Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; Q312461)

CHERYL CLEGHORN
Public Affairs Specialist
NASA Langley Research Center
Office of Public Services
PHONE: (757) 864-2497
FAX: (757) 864-7732
<http://www.larc.nasa.gov>

Information Withheld Under
FOIA Exemption (b)(6)

54-357

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Tue, 4 Feb 2003 09:42:02 -0500
To: [REDACTED]
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: Device for impact testing of space shuttle shield
Cc: r.d.allen@larc.nasa.gov

[REDACTED]

Thank you for your expression of sympathy over the loss of Space Shuttle Columbia and the STS-107 crew. We appreciate your interest in finding the cause of the accident. Your message has been forwarded to the appropriate organization within NASA.

You can monitor news, information, and the ongoing investigation of the Space Shuttle Columbia - Mission STS-107 at <http://www.nasa.gov/columbia>.

Cordially,

Cheryl Cleghorn

**Information Withheld Under
FOIA Exemption (b)(6)**

Dear Mr. Cleghorn,

We were very shocked when we learned about the accident with the Columbia; our thoughts and prayers are with the crew members, their families and the American and Israeli people.

We saw the images of the impact during take-off, which can be the cause of the accident, on CNN today. According to CNN, you are focussing your attention on this impact. We know that impact testing (simulation) is very difficult and therefore we would like to offer you our help in finding the cause of the accident.

We have developed a basically very simple method which makes it possible to built an impact device for testing a part of the shield with a number of tiles (or the seam of the loading gear door) under fully realistic impact conditions; that is:

- with precise impact velocities which can be varied from less than 10 m/sec to probably well over 1000 m/sec;
- at variable impact frequencies, and,
- at variable angles of impact.

Tests can be performed with one impact but also with continuous impact. The impacting material and objects (shape of object) can be chosen with sizes up to 50 cm and more; but also fine particle impact can be tested; and simultaneously coarse and fine particles.

Very important for you is that also the temperature and other conditions can be widely varied; for example temperatures from below freezing to well over 1000/1500 degrees and even testing in flames is possible.

The method has been considered for impact testing of air plane materials, which are developed at the Technical University of Delft; unfortunately the University does not have enough funding available

yet. Based on this method of impact we have developed a new impact crusher (for stones).

When we can be of any help to you in finding the cause of the accident (and developing a safer shuttle) we would be only too happy to assist you and make our method available to NASA for building such an impact testing device. The test machine can probably be best built by you and we can provide the basics for the design. A computer simulation programm is available.

Wishing you many luck with the investigations and we hope that the shuttle programm will be operational again soon.

Kind regards,

[Redacted signature]

[Redacted signature]

Phone [Redacted]

Fax [Redacted]

--

Information Withheld Under
FOIA Exemption (b)(6)

CHERYL CLEGHORN.....
Public Affairs Specialist***
NASA Langley Research Center**
Office of Public Services*****
PHONE: (757) 864-2497.....
FAX: (757) 864-7732.....
<http://www.larc.nasa.gov>

To: Marny Skora <m.m.skora@larc.nasa.gov>
From: "Robert D. Allen" <r.d.allen@larc.nasa.gov>
Subject: Re: Message for @LaRC
Cc:
Bcc: "":Columbia / STS-107"
X-Attachments:

Marny,

That will work. However, the last line will read awkwardly to viewers, as written.

Currently, it will read:
To view the enclosure, go to view Starscapes

You might want to edit the last line to something like:
The enclosure, Starscapes, is available for viewing.

The latter example would end up reading as:
The enclosure, Starscapes, is available for viewing.

...or some other, similar words. The important thing is that the stuff goes around the word(s) the viewer should click on to view the pages.

RDA

This is what I plan to post on @LaRC for tomorrow's morning mail. Are these the right words to allow folks to view the enclosure?

MESSAGE TO LANGLEY EMPLOYEES

Acting Director Del Freeman received a message that he wishes to share with all employees. It is from an old friend of Langley Research Center. The message reads:

"Yesterday I received a gift that was meant to be shared with the Universe. Let us never forget our fallen heroes and their wish that we continue up the path they have blazed for us." Ken Cox

To view the enclosure, go to view Starscapes

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

56-359

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Wed, 5 Feb 2003 19:51:20 -0500
To: r.d.allen@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Message for @LaRC

This is what I plan to post on @LaRC for tomorrow's morning mail. Are these the right words to allow folks to view the enclosure?

MESSAGE TO LANGLEY EMPLOYEES

Acting Director Del Freeman received a message that he wishes to share with all employees. It is from an old friend of Langley Research Center. The message reads:

"Yesterday I received a gift that was meant to be shared with the Universe. Let us never forget our fallen heroes and their wish that we continue up the path they have blazed for us." Ken Cox

To view the enclosure, go to view Starscapes

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

To: "Marny M. Skora" <M.M.SKORA@LaRC.NASA.GOV>
From: "Robert D. Allen" <r.d.allen@larc.nasa.gov>
Subject: Starscapes - URL for @LaRC
Cc:
Bcc: "":Columbia / STS-107"
X-Attachments:

Marny,

Eventually, the URL for the 'slideshow' will be:

<http://oea.larc.nasa.gov/starscapes.html>

In the @LaRC citation, you'll need to code it something like:

text text text text view Starscapes.

It would be helpful if you could create the @LaRC article so that it begins to display tomorrow, 2/6/2003.
That way, I'll have until midnight to set it up.

RDA

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>
list-unsubscribe: <mailto:ksc-news_release-unsubscribe@kscnews.ksc.nasa.gov>
list-post: <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: KENNEDY SPACE CENTER TO HOLD EMPLOYEE MEMORIAL SERVICE FOR THE CREW OF
COLUMBIA ON FEB. 7
Date: Wed, 5 Feb 2003 18:30:28 -0500

NASA News
National Aeronautics and
Space Administration

John F. Kennedy Space Center
Kennedy Space Center, Florida 32899
AC 321-867-2468

For Release: Feb. 5, 2003

KSC Contact: George Diller
(321) 867-2468

KSC Release No. 16 - 03

NOTE TO EDITORS:
KENNEDY SPACE CENTER TO HOLD EMPLOYEE MEMORIAL SERVICE FOR THE CREW OF
COLUMBIA ON FEB. 7

A ceremony to honor the crew of Space Shuttle Columbia -- NASA astronauts
Rick Husband, William McCool, Michael Anderson, David Brown, Kalpana Chawla,
Laurel Clark, and Israeli astronaut Ilan Ramon -- is scheduled for Friday,
Feb. 7, at 8:15 a.m. EST at the Kennedy Space Center (KSC) Shuttle Landing
Facility (SLF) in Florida.

This is a private ceremony for NASA employees, contractors, and invited
guests. The ceremony will be carried live on NASA Television and available
on the Internet at <http://www.ksc.nasa.gov>.

NASA Television is available 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 this event should be at the KSC Press Site no later
than 7:15 a.m. EST for transportation to the Shuttle Landing Facility.
Media access to KSC will begin at 6 a.m. EST. Bus transportation for those
media who must be escorted will also begin at 6 a.m. from Gate 3.
Television live trucks will not be permitted at the SLF. Unilateral hookups
for this event will be available at the Press Site. Media requiring
accreditation should contact the KSC Newsroom at (321) 867-2468 for
instructions.

Additional information about the STS-107 crew and the Space Shuttle Columbia is available on the Internet at <http://spaceflight.nasa.gov/shuttle/>.

-- end --

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. 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 . 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> .

X-Sender: k.w.land@express.larc.nasa.gov
Date: Wed, 5 Feb 2003 16:29:58 -0400
To: "Gary A. Banziger" <g.a.banziger@larc.nasa.gov>
From: "Kimberly W. Land" <k.w.land@larc.nasa.gov>
Subject: Re: 4:30 press briefing
Cc: Marny Skora <m.m.skora@larc.nasa.gov>, K.A.BARNSTORFF@larc.nasa.gov,
R.D.ALLEN@larc.nasa.gov, j.r.roberts@larc.nasa.gov,
c.p.rink@larc.nasa.gov, w.c.uher@larc.nasa.gov, m.pitts@larc.nasa.gov

according to Chris Rink, **GO HOME!**

We are dialed in for the 4:30 press briefing. If there is a no go due to lack of interest from the media please let me know.

Thank you,
Gary

--

Gary Banziger
Office of Public Affairs
Videographer
864-1590
Mail Stop 145
5a North Dryden Street
NASA Langley Research Center
Hampton, VA 23681-2199
Building 1202A, Room 132

--

Kimberly W. Land
Public Affairs Specialist, Office of Public Affairs
NASA Langley Research Center
Bldg 1219/Mail Stop 115, Hampton, VA 23681
Office (757) 864-9885/Fax -6333; cell (757) 344-8611
<http://www.larc.nasa.gov>

Have a Blessed Day!

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Wed, 5 Feb 2003 13:02:24 -0500
To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,
i.gilman@larc.nasa.gov, c.p.rink@larc.nasa.gov,
r.d.allen@larc.nasa.gov, w.c.uher@larc.nasa.gov,
k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov,
l.r.rich@larc.nasa.gov, a.z.parker@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Shuttle debris

Take heed

Date: Wed, 5 Feb 2003 13:01:16 -0500
To:
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Fwd: arrests and press conference
Cc:
Bcc:
X-Attachments:

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f
X-Sender: rjacobs@mail.hq.nasa.gov
Date: Wed, 05 Feb 2003 12:28:12 -0500
To: News-Chiefs@hq.nasa.gov, PAO-Directors@hq.nasa.gov
From: Robert Jacobs <rjacobs@hq.nasa.gov>
Subject: Fwd: arrests and press conference
Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI... from the NASA IG.

Word is the local attorney general wants to make an example... but that the IG here will offer a 24 hour amnesty. If you have material now... turn it in. Otherwise, if we catch you with it, you're in trouble.

But this will be the first arrest.

bj

X-Sender: pshawcro@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Wed, 05 Feb 2003 11:43:26 -0500
To: Bob Jacobs <rjacobs@mail.hq.nasa.gov>,
Doc Mirelson <rmirelso@mail.hq.nasa.gov>
From: Paul Shawcross <pshawcro@hq.nasa.gov>
Subject: arrests and press conference

Bob, Doc -

Latest news is that there will be a press conference at 1 pm (2 pm Eastern) in Lufkin to announce 2 arrests for taking debris. NASA OIG is not the lead agency, but we will have some agents there, one of whom will mention the misuse of debris web page. Let me know if you need any more information.

- Paul

Paul Shawcross
Executive Officer
NASA Office of Inspector General
Voice: (202) 358-2558
Fax: (202) 358-2767
paul.shawcross@hq.nasa.gov

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

X-Sender: c.w.cleghorn@pop.larc.nasa.gov

X-Priority: 2 (High)

Date: Wed, 5 Feb 2003 10:47:59 -0500

To: r.d.allen@larc.nasa.gov, l.r.rich@larc.nasa.gov,
k.a.barnstorff@larc.nasa.gov, m.p.finneran@larc.nasa.gov,
i.gilman@larc.nasa.gov, h.k.henry@larc.nasa.gov,
k.r.creteur@larc.nasa.gov, c.l.hancock@larc.nasa.gov,
s.c.west@larc.nasa.gov, d.g.lawson@larc.nasa.gov,
M.PITTS@larc.nasa.gov, C.P.RINK@larc.nasa.gov, m.m.skora@larc.nasa.gov,
p.j.verniel@larc.nasa.gov, e.e.finner@larc.nasa.gov,
c.w.cleghorn@larc.nasa.gov, G.S.LANGEVIN@larc.nasa.gov,
d.e.gause@larc.nasa.gov, a.z.parker@larc.nasa.gov

From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>

Subject: Columbia Condolence Cards Address/Children's Fund

Just in case you receive inquiries regarding where the public can send condolence cards regarding Columbia STS-107, the address is:

Mr. Kent Rominger
Astronaut Office
NASA Johnson Space Center
2101 NASA Road 1
Code CB
Houston, TX 77058

FYI! - Children's Fund

I have received a few inquiries from the public wanting to donate money to the Columbia crew's children. Some of the inquiries mentioned a fund called the "Space Shuttle Children's Fund" which was also announced on the Larry King Live show last night with a P.O. Box address in Washington, D.C. I spoke with HQ this morning regarding this fund. HQ is looking into it, but as far as they can tell, this is not a NASA sponsored fund. They are trying to find out where it originated. HQ will call me back when they have more info on this fund or wants me to call them if I receive more info on the fund.

Cheryl

SG-365

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Wed, 5 Feb 2003 08:33:49 -0500
To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,
i.gilman@larc.nasa.gov, c.p.rink@larc.nasa.gov,
r.d.allen@larc.nasa.gov, w.c.uher@larc.nasa.gov,
k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov,
l.r.rich@larc.nasa.gov, a.z.parker@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Fwd: 02.05.03 CS#03-024-2

X-Sender: jwood@mail.hq.nasa.gov
Date: Wed, 05 Feb 2003 07:08:21 -0500
To: franklin.odonnell@jpl.nasa.gov, rob.navias1@jsc.nasa.gov,
m.p.finneran@larc.nasa.gov, jerry.berg@msfc.nasa.gov,
keith.a.koehler.1@gsfc.nasa.gov, lisa.malone-1@ksc.nasa.gov,
bruce.buckingham-1@kmail.ksc.nasa.gov, Janet.K.Ruff.1@gsfc.nasa.gov,
eileen.hawley1@jsc.nasa.gov, brandolp@hq.nasa.gov,
lanee.cooksey@ssc.nasa.gov, fbrown1@hq.nasa.gov,
ahutchison@mail.arc.nasa.gov, m.m.skora@larc.nasa.gov,
fred.johnsen@mail.dfrc.nasa.gov, ecampion@pop100.gsfc.nasa.gov,
lori.j.rachul@grc.nasa.gov, veronica.mcgregor@jpl.nasa.gov,
rmirelso@hq.nasa.gov, mmewhinney@mail.arc.nasa.gov,
William.Johnson-5@ksc.nasa.gov, Mark.S.Hess@nasa.gov
From: Jennifer Wood <jwood@hq.nasa.gov>
Subject: 02.05.03 CS#03-024-2

Jennifer Wood
Office of Public Affairs
NASA Headquarters
Washington, DC

Ofc# (202) 358-0097
Cell# (202) 494-8128
Fax# (202) 358-4345

Attachment converted: Macintosh HD:02.05.03_CS#03-024-2.doc (WDBN/MSWD) (00070E97)

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Wed, 5 Feb 2003 08:33:31 -0500
To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,
i.gilman@larc.nasa.gov, c.p.rink@larc.nasa.gov,
r.d.allen@larc.nasa.gov, w.c.uher@larc.nasa.gov,
k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov,
l.r.rich@larc.nasa.gov, a.z.parker@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Fwd: 02.05.03 CN#03-024-2

X-Sender: jwood@mail.hq.nasa.gov
Date: Wed, 05 Feb 2003 07:06:52 -0500
To: franklin.odonnell@jpl.nasa.gov, rob.navias1@jsc.nasa.gov,
m.p.finneran@larc.nasa.gov, jerry.berg@msfc.nasa.gov,
keith.a.koehler.1@gsc.nasa.gov, lisa.malone-1@ksc.nasa.gov,
bruce.buckingham-1@kmail.ksc.nasa.gov, Janet.K.Ruff.1@gsc.nasa.gov,
eileen.hawley1@jsc.nasa.gov, brandolp@hq.nasa.gov,
lanee.cooksey@ssc.nasa.gov, fbrown1@hq.nasa.gov,
ahutchison@mail.arc.nasa.gov, m.m.skora@larc.nasa.gov,
fred.johnsen@mail.dfrc.nasa.gov, ecampion@pop100.gsc.nasa.gov,
lori.j.rachul@grc.nasa.gov, veronica.mcgregor@jpl.nasa.gov,
rmirelso@hq.nasa.gov, mmewhinney@mail.arc.nasa.gov,
William.Johnson-5@ksc.nasa.gov, Mark.S.Hess@nasa.gov
From: Jennifer Wood <jwood@hq.nasa.gov>
Subject: 02.05.03 CN#03-024-2

Jennifer Wood
Office of Public Affairs
NASA Headquarters
Washington, DC

Ofc# (202) 358-0097
Cell# (202) 494-8128
Fax# (202) 358-4345

Attachment converted: Macintosh HD:02.05.03_CN#03-024-2.doc (WDBN/MSWD) (00070EAD)

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

SG-367

X-Sender: m.m.skora@express.larc.nasa.gov
 Date: Tue, 4 Feb 2003 16:21:36 -0500
 To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,
 c.p.rink@larc.nasa.gov, r.d.allen@larc.nasa.gov,
 w.c.uher@larc.nasa.gov, k.w.land@larc.nasa.gov,
 j.r.roberts@larc.nasa.gov, g.a.banziger@larc.nasa.gov,
 k.j.evans@larc.nasa.gov, m.pitts@larc.nasa.gov,
 k.r.credeur@larc.nasa.gov, l.r.rich@larc.nasa.gov,
 a.z.parker@larc.nasa.gov
 From: Marny Skora <m.m.skora@larc.nasa.gov>
 Subject: Fwd: Shuttle Speakers

Guidance from HQ

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-news-chiefs using -f
 X-Sender: rjacobs@mail.hq.nasa.gov
 Date: Tue, 04 Feb 2003 14:55:30 -0500
 To: News-Chiefs@hq.nasa.gov, PAO-Directors@hq.nasa.gov
 From: Robert Jacobs <rjacobs@hq.nasa.gov>
 Subject: Shuttle Speakers
 Sender: owner-news-chiefs@lists.hq.nasa.gov

A quick note...

Let's be as responsive as possible, but please have your talkers coordinate messages with program investigators with either Dittmore's team at JSC or Michael Kostelnik's people here at HQ.

No other NASA officials have the authority to allow people to talk (short of Readdy or the Administrator).

We need to be as open as possible... but let's not blindside anyone at JSC or HQ. For example, you don't want to put a tile expert in front of the media without some prior message coordination.

For example, earlier this week... we had the program saying the Shuttle came apart over Texas... yet an astronomer at Cal Tech said he saw pieces coming off over California. That's the kind of confusing messages that can get us in trouble.

I like openness... I like communication. We're getting high marks in the public for doing it. Please just make sure it's coordinated.

Thanks,
bj

--

Marny Skora
 Head, Office of Public Affairs
 NASA Langley Research Center
 Mail Stop 115, Bldg 1219, Rm 303
 11 Langley Blvd.
 Hampton, VA 23681
 (757) 864-6121

567-368

X-Sender: m.p.finneran@pop.larc.nasa.gov
X-Priority: 2 (High)
Date: Tue, 4 Feb 2003 15:58:15 -0500
To: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Re: Columbia Link on LaRC Web Site
Cc: m.m.skora@larc.nasa.gov, r.d.allen@larc.nasa.gov

Great idea. Thanks.

Mike

At 11:45 AM -0500 2/4/03, Cheryl Cleghorn wrote:

Mike,

Bob and I think it would be beneficial to put a link to the NASA Columbia web site directly on LaRC's public web site on the front page. This may help cut down on the number of inquiries we receive from the public.

Do we have your approval to do this?

Cheryl

--
Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
X-Priority: 2 (High)
Date: Tue, 4 Feb 2003 14:11:58 -0500
To: "Robert D. Allen" <r.d.allen@larc.nasa.gov>
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: Columbia Link on LaRC Web Site
Cc: Mike Finneran <M.P.FINNERAN@larc.nasa.gov>, "Marny M. Skora" <M.M.SKORA@larc.nasa.gov>

Bob,

Good job - Great Idea!

Cheryl

At 12:38 PM -0500 2/4/03, Robert D. Allen wrote:

Cheryl/Mike:

I just talked to Marny about this and showed her a mock-up of the proposed page. She approved, and I am about to 'go live' with it now.

RDA

Mike,

Bob and I think it would be beneficial to put a link to the NASA Columbia web site directly on LaRC's public web site on the front page. This may help cut down on the number of inquiries we receive from the public.

Do we have your approval to do this?

Cheryl

To: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
From: "Robert D. Allen" <r.d.allen@larc.nasa.gov>
Subject: Re: Columbia Link on LaRC Web Site
Cc: Mike Finneran <M.P.FINNERAN@LaRC.NASA.GOV>, "Marny M. Skora" <M.M.SKORA@LaRC.NASA.GOV>
Bcc: "":Columbia / STS-107"
X-Attachments:

Cheryl/Mike:

I just talked to Marny about this and showed her a mock-up of the proposed page. She approved, and I am about to 'go live' with it now.

RDA

Mike,

Bob and I think it would be beneficial to put a link to the NASA Columbia web site directly on LaRC's public web site on the front page. This may help cut down on the number of inquiries we receive from the public.

Do we have your approval to do this?

Cheryl

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Tue, 4 Feb 2003 12:35:54 -0500
To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,
i.gilman@larc.nasa.gov, c.p.rink@larc.nasa.gov,
r.d.allen@larc.nasa.gov, w.c.uher@larc.nasa.gov,
k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov,
l.r.rich@larc.nasa.gov, a.z.parker@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Fwd: reminder about referral of Hill calls

Please note.

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

X-Sender: rmirelso@mail.hq.nasa.gov
Date: Tue, 04 Feb 2003 11:12:42 -0500
To: adiaz@mail.hq.nasa.gov, abeutel@hq.nasa.gov, beth.beck@hq.nasa.gov,
rjacobs@hq.nasa.gov, dsteitz@hq.nasa.gov, drahn@hq.nasa.gov,
rmirelso@hq.nasa.gov, dbeasley@hq.nasa.gov, dsavage@hq.nasa.gov,
dbrown3@hq.nasa.gov, ecampion@hq.nasa.gov, elvia.thompson@hq.nasa.gov,
ethames@hq.nasa.gov, afeinber@mail.hq.nasa.gov, fbrown1@hq.nasa.gov,
gmahone@hq.nasa.gov, egoldste@hq.nasa.gov, greardon@hq.nasa.gov,
hprince@hq.nasa.gov, jwood@hq.nasa.gov, kbennett@mail.hq.nasa.gov,
kherring@hq.nasa.gov, lcline@hq.nasa.gov, mmotiche@hq.nasa.gov,
mbraukus@hq.nasa.gov, nneal@mail.hq.nasa.gov,
stephen.a.nesbitt@nasa.gov, news-chiefs@hq.nasa.gov,
pao-directors@hq.nasa.gov, pwilliam@hq.nasa.gov, pcleget@hq.nasa.gov,
rjuhans@hq.nasa.gov, skeegan@hq.nasa.gov, salexand@hq.nasa.gov
From: Robert Mirelson <rmirelso@hq.nasa.gov>
Subject: Fwd: reminder about referral of Hill calls
Sender: owner-news-chiefs@lists.hq.nasa.gov

When congress calls....

X-Sender: skeegan@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Tue, 04 Feb 2003 10:56:06 -0500
To: Robert Mirelson <rmirelso@hq.nasa.gov>
From: Sarah Keegan <skeegan@hq.nasa.gov>
Subject: reminder about referral of Hill calls

Just a reminder from Code L that any calls from members of Congress, their staffs or Congressional committee staffs should be referred to the Office of Legislative Affairs (358-1055 is a good number) and NOT handled in Public Affairs. Please remind your centers to follow a similar procedure with their center legislative staffs. Thanks!!

Doc Mirelson
Chief, NASA News & Imaging
(202) 358-4495/1600

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

X-Sender: m.m.skora@express.larc.nasa.gov
X-Priority: 2 (High)
Date: Tue, 4 Feb 2003 12:35:00 -0500
To: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Re: Columbia Link on LaRC Web Site
Cc: m.p.finneran@larc.nasa.gov, r.d.allen@larc.nasa.gov

Cheryl--

I have seen the mockup Bob prepared. Please go forward. I know Mike will approve.

marny

Mike,

Bob and I think it would be beneficial to put a link to the NASA Columbia web site directly on LaRC's public web site on the front page. This may help cut down on the number of inquiries we receive from the public.

Do we have your approval to do this?

Cheryl

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
X-Priority: 2 (High)
Date: Tue, 4 Feb 2003 11:45:31 -0500
To: m.p.finneran@larc.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Columbia Link on LaRC Web Site
Cc: m.m.skora@larc.nasa.gov, r.d.allen@larc.nasa.gov

Mike,

Bob and I think it would be beneficial to put a link to the NASA Columbia web site directly on LaRC's public web site on the front page. This may help cut down on the number of inquiries we receive from the public.

Do we have your approval to do this?

Cheryl

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
Date: Tue, 4 Feb 2003 07:43:30 -0500
To: "Robin K. Land" <r.k.land@larc.nasa.gov>
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: feedback+site@larc.nasa.gov
Cc: r.d.allen@larc.nasa.gov

Thanks! I wasn't sure if it went to anyone else or not. Just wanted to make sure no one is responding to the Columbia comments/questions. We have been given a POC at HQ to forward them to.

The following 2 emails are in the alias. They are the only ones receive feedback+site email.

C.W.CLEGHORN@LaRC.NASA.GOV
r.d.allen@larc.nasa.gov

Robin

At 02:20 PM 2/3/2003 -0500, you wrote:

Hi Robin,

Who is actually included in the feedback+site@larc.nasa.gov distribution list these days. We want to make sure no one responds to the Columbia questions/comments that are coming in via the Langley Feedback Form except for the Office of External Affairs. OEA is working with HQ on the proper way to respond.

Thanks,

Cheryl

--

CHERYL CLEGHORN
Public Affairs Specialist
NASA Langley Research Center
Office of Public Services
PHONE: (757) 864-2497
FAX: (757) 864-7732
<http://www.larc.nasa.gov>

X-Sender: m.p.finneran@pop.larc.nasa.gov
X-Priority: 2 (High)
Date: Mon, 3 Feb 2003 21:34:14 -0500
To: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: r.d.allen@larc.nasa.gov

Cheryl, go ahead and forward questions or offers we have not been able to respond to directly. Thanks.

Mike

At 3:24 PM -0500 2/3/03, Cheryl Cleghorn wrote:

Mike,

Are we to hold the questions for a certain amount of time or go ahead and forward them to Evelyn as they come in? I have collected 11 of them so far. All of them are technical advice or questions.

I assume it will be OK for us to respond to the requester that we have forwarded their inquiry to the appropriate office.

Cheryl

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

--

Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

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>
list-unsubscribe: <mailto:ksc-news_release-unsubscribe@kscnews.ksc.nasa.gov>
list-post: <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: VICE-PRESIDENT TO HONOR COLUMBIA'S CREW AT NATIONAL CATHEDRAL
Date: Mon, 3 Feb 2003 20:37:33 -0500

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>>.

-end-

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. With no subject or message. The system will reply with a confirmation via e-mail of each subscription.

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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> .

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>
list-unsubscribe: <mailto:ksc-news_release-unsubscribe@kscnews.ksc.nasa.gov>
list-post: <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 MCC Status Report #21
Date: Mon, 3 Feb 2003 20:17:51 -0500

STS-107
Report #21
Monday, Feb. 3, 2003 - 7:00 p.m. CST
Mission Control Center, Houston, Texas

NASA engineers continued to review data and recover debris from the Space Shuttle Columbia today as the analysis of what caused the orbiter to break up Saturday en route to landing continued.

Space Shuttle Program Manager Ron Dittmore told an afternoon briefing that several teams of engineers are making progress in their study of data and video from Columbia's launch and entry, but cautioned that it is a "massive job" requiring round-the-clock efforts to piece together the events that led to a loss of communications with the Shuttle over north central Texas 16 minutes prior to touchdown.

Still, Dittmore said NASA would pause Tuesday for a memorial ceremony at the Johnson Space Center at 1:00 p.m. EST to honor the lives and the memory of Columbia's astronauts, Rick Husband, William McCool, Dave Brown, Kalpana Chawla, Mike Anderson, Laurel Clark and Ilan Ramon. President and Mrs. Bush will join NASA Administrator Sean O'Keefe at JSC for the memorial which is closed to the public, but which will be broadcast on NASA Television.

Dittmore said the memorial represents an opportunity to take time to remember the sacrifice of the astronauts, to mourn them and to "remember our friends."

Dittmore offered additional and refined information regarding the timeline of events that led to Columbia's breakup on Saturday (all times CST):

Æ At 7:52 a.m. CST, three-left main gear brake line temperature sensors showed an unusual rise in the left wheel well area.

Æ At 7:53 a.m., a fourth left brake line strut actuator temperature sensor showed a 30-40 degree rise in temperature over a five-minute period, slightly higher than reported yesterday.

Æ At 7:55 a.m., A fifth left brake line main gear sensor showed a sharp rise in temperature.

Æ At 7:57 a.m., left wing temperature sensors failed "off-scale low", meaning no further data was being received on the ground.

Æ And at 7:59 a.m., just before communications was lost with Columbia, there was evidence of drag on the aerosurfaces of the left wing, causing two out of four yaw steering jets in that area of the Shuttle to fire for 1.5 seconds to counteract the increased drag.

Dittemore said more time will be needed to retrieve an additional 32 seconds of data acquired by ground computers after communications was lost with Columbia to see if it is useful to the inquiry. He said engineers would go directly to the Tracking and Data Relay Satellite System ground station hub in White Sands, New Mexico to collect and analyze that data in its pristine form.

Although the investigative teams have a "high interest" in the left hand wheel well area of Columbia, Dittemore cautioned that a temperature increase there does not indicate that a structural problem occurred as a factor in the vehicle's breakup. In fact, Dittemore said the data suggests that "something else" may have been happening at the time, not indicative of a structural breach.

Responding to inquiries regarding a piece of foam insulation which fell off Columbia's external fuel tank about 80 seconds after launch that struck the left wing of the Shuttle, Dittemore said imagery analysis showed that the foam measured about 20 inches by 16 inches by 6 inches and weighed about 2.67 pounds. He reiterated that engineering analysis conducted during the flight concluded for NASA managers that although the foam might have caused some structural damage to the wing area, it would not have been sufficient to cause a catastrophic event.

"There is some other missing link contributing to this event," Dittemore said. We are extremely interested in seeing any debris that may have fallen upstream of the main impact area," referring to any additional debris which might be recovered in an area to the west of Texas.

Earlier today, former President George H.W. Bush and Mrs. Barbara Bush visited the International Space Station flight control room at the Johnson Space Center, Houston, TX to pay their respects to the flight controllers and to the Expedition 6 crew aboard the orbital complex.

The former president told Expedition 6 Commander Ken Bowersox, Flight Engineer Nikolai Budarin and NASA ISS Science Officer Don Pettit that President Bush relayed his "full confidence in the space program" in a conversation with the elder Bush Sunday. The former president told the crew the men and women of NASA were showing "great courage" in the wake of the accident.

Bowersox, Budarin and Pettit spent the day preparing for the docking of a Russian Progress resupply vehicle to the ISS Tuesday at 9:50 a.m. EST. The new cargo ship, which contains a ton of food, fuel and supplies for the crew, was successfully launched Sunday from the Baikonur Cosmodrome in Kazakhstan. NASA TV coverage of the Progress docking to the ISS begins at 9 a.m. CST Tuesday.

The next STS-107 Accident Response briefing will be held on Tuesday, Feb. 4 at NASA Headquarters in Washington at 4:30 p.m. EST. Status reports will be issued as developments warrant.

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

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list-post: <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: SHUTTLE COLUMBIA ACCIDENT PRESS CONFERENCE SCHEDULE CHANGED
Date: Mon, 3 Feb 2003 18:57:20 -0500

Report #03-044

SHUTTLE COLUMBIA ACCIDENT PRESS CONFERENCE SCHEDULE CHANGED

Robert Mirelson
Headquarters, Washington February 3, 2003
(Phone: 202/3580-1600)

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

RELEASE: 03-044

SHUTTLE COLUMBIA ACCIDENT PRESS CONFERENCE SCHEDULE CHANGED

The press conference schedule for Tuesday, Feb. 4, 2003 has changed.

There will not be a NASA Headquarters press conference at 11:30 a.m. EST on Feb. 4. It has been cancelled out of respect for the Space Shuttle Columbia crew memorial service and to allow NASA employees to watch the tribute.

There will not be a 4:30 EST press conference at the Johnson Space Center tomorrow. The 4:30 EST press conference for Feb. 4, 2003 will be in the NASA Headquarters auditorium, 300 E Street SW, Washington.

The press conference will feature questions from reporters at participating NASA centers and will be broadcast live on NASA Television. There will be an 11:30 a.m. EST press conference at NASA Headquarters and a 4:30 p.m. press conference at the Johnson Space Center on Wednesday, Feb. 5, 2003.

NASA TV is available 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 is available on the Internet at:

<http://www.nasa.gov>

<http://spaceflight.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> .

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
X-Priority: 2 (High)
Date: Mon, 3 Feb 2003 15:24:15 -0500
To: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: r.d.allen@larc.nasa.gov

Mike,

Are we to hold the questions for a certain amount of time or go ahead and forward them to Evelyn as they come in? I have collected 11 of them so far. All of them are technical advice or questions.

I assume it will be OK for us to respond to the requester that we have forwarded their inquiry to the appropriate office.

Che;ryl

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
X-Priority: 2 (High)
Date: Mon, 3 Feb 2003 15:13:36 -0500
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Re: Fwd: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: r.d.allen@larc.nasa.gov

Hi Lynn,

We will make sure we send them through the proper channels.

Thanks,

Cheryl

Bob and Cheryl:

Per Mike's email, we are referring the three inquiries (file attached) to you concerning the Columbia event. In each case, they have been told by our help desk that we were referring their comments to the appropriate NASA organization.

Thanks for the help.

Regards,

Lynn Heimerl
STI Program Office

X-Sender: m.p.finneran@pop.larc.nasa.gov
Date: Mon, 3 Feb 2003 14:03:41 -0500
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: k.r.creteur@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,
r.d.allen@larc.nasa.gov

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

Mike:

I understand. Our help desk is thanking folks for their sympathies, referring to the NASA HQ Columbia site, but holding the ones with suggestions and technical questions to forward to the appropriate office (and telling them that we are doing so).

Do you want me to send those to you or hold until you get info from HQ regarding who in NASA will take and handle these questions?

Regards,

Lynn H

At 10:18 AM 2/3/2003 -0500, you wrote:

Lynn, I've asked D.C. for guidance before responding. I haven't heard back yet. I don't mind so much responding by phone, but want to be careful with e-mails since they can be flashed around the world. I'll let you know when we get guidance.

Thanks.

Mike

Mike:

Both our help desks (for STI and NIX) are getting a lot of inquiries and comments, many of which we can handle. However, do you know what NASA is doing with the ones that request specific information or give suggestions such that we cannot just refer them to the website information? If this being handled via HQ PAO or can you handle them via Langley and is any one specific organization tracking these?

Thanks.

Lynn Heimerl

X-Sender: n.l.heimerl@pop.larc.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 5.0.2
Date: Mon, 03 Feb 2003 09:33:32 -0500
To: [REDACTED]
From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
Subject: Re: Space Shuttle Columbia - Mission STS-107
Cc: n.l.heimerl@larc.nasa.gov, m.p.finneran@larc.nasa.gov

**Information Withheld Under
FOIA Exemption (b)(6)**

Dear Mr. [REDACTED]

Thank you for your email. I am forwarding your questions to Michael Finneran here at NASA Langley Research Center since my duties in the STI Program do not put me in a position to know the answers to your questions.

I am confident that the points you mention will be reviewed as NASA determines the causes of the Columbia tragedy and fixes them so they do not occur again. We are all greatly saddened by this loss.

We appreciate you contacting NASA.

Best regards,

Lynn Heimerl
Technical Publications Manager
NASA Scientific and Technical Information Program

At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

1) It was mentioned on the news that the crew took photographic (film) pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because it was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?

2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

[REDACTED]

--
Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

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--
Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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Attachment converted: Macintosh HD:Columbia.inquiries.doc (WDBN/MSWD) (00005375)

X-Sender: sti+id@larc.nasa.gov
Date: Mon, 03 Feb 2003 15:04:13 -0500
To: r.d.allen@larc.nasa.gov
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Fwd: Re: NIX Comment (LARC-822)
Cc: c.w.cleghorn@larc.nasa.gov, n.l.heimerl@larc.nasa.gov,
sti+id@larc.nasa.gov

*Forwarded as per Lynn Heimerl, STI Program Office,
... for inquiries that require a technical response, an evaluation of what may have occurred, or that give
suggestions to NASA, respond that you are sending their comments to the appropriate organization
within NASA; these categories of
comments should be sent to r.d.allen@larc.nasa.gov with a cc to c.w.cleghorn@larc.nasa.gov****

[Lynn this reply contains no "sending their comments to the appropriate organization within NASA"
because we responded prior to getting your instructions.]

X-Sender: sti+id@larc.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 5.0.2
Date: Mon, 03 Feb 2003 14:54:23 -0500
To: [REDACTED]
From: NASA STI Information Desk <sti+id@larc.nasa.gov>
Subject: Re: NIX Comment (LARC-822)
Cc: sti+nix@larc.nasa.gov

Thank you for your condolences over the loss of Space Shuttle Columbia and the STS-107 crew.
NASA has a dedicated page for collecting and distributing information about the crew, the mission
and the ongoing investigation. We suggest you direct your comments to the page at URL:
<http://www.nasa.gov/columbia/>

At 02:07 PM 2/3/2003 -0500, you wrote:

ID: LARC-822
Date: 02/03/2003 (14:07 EST)
Name: [REDACTED]
Email: [REDACTED]
Comment:

**Information Withheld Under
FOIA Exemption (b)(6)**

condolences on columbia 7 loss. would an egect module similar to the egect seat on fighter planes be a
modification beneficial to future shuttle flights? Were all astronauts could be in amodule which could
automatically egect them if trouble in the shuttle with an automatic oarachute when reaching low
enough altitude. the module should have a heat sheild and oxygen supply and could be placed in the
correct cone nose of the existing shuttle design [REDACTED]

NASA STI Information Desk
NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov
.....

SG-382

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NASA Langley Research Center
Telephone: +1 757 864-3592
mailto:sti+id@larc.nasa.gov

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list-post: <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: NASA ANNOUNCES CORRECTED PROCEDURE FOR FILING DAMAGE CLAIMS
Date: Mon, 3 Feb 2003 12:37:10 -0500

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
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

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* * *

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list-post: <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: A STATEMENT FROM THE FAMILIES OF COLUMBIA
Date: Mon, 3 Feb 2003 12:14:50 -0500

A STATEMENT FROM THE FAMILIES OF COLUMBIA

On January 16th, we saw our loved ones launch into a brilliant, cloud-free sky. Their hearts were full of enthusiasm, pride in country, faith in their God, and a willingness to accept risk in the pursuit of knowledge --- knowledge that might improve the quality of life for all mankind. Columbia's 16-day mission of scientific discovery was a great success, cut short by mere minutes ---- yet it will live on forever in our memories. We want to thank the NASA family and people from around the world for their incredible outpouring of love and support. Although we grieve deeply, as do the families of Apollo 1 and Challenger before us, the bold exploration of space must go on. Once the root cause of this tragedy is found and corrected, the legacy of Columbia must carry on --- for the benefit of our children and yours.

Approved by:

Robert Cabana/CA/Director, Flight Crew Operations
Feb. 3, 2003

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At 7:58 a.m. over New Mexico, telemetry showed a larger than normal drag on the left side of the shuttle, and an indication of an increase in pressure in the left main landing gear tires. Dittmore said the data suggests the tires remained intact. Columbia's altitude was 209,000 feet.

At 7:59 a.m. over west Texas, the data showed Columbia continuing to react to an increased drag on its left side, trying to correct the movement by rolling back to the right. Dittmore said the response of the orbiter was well within its capability to handle such maneuvers.

At that time, seconds before 8 a.m. CST, all communications was lost with Columbia as it flew at an altitude of 207,000 feet, 18 times the speed of sound.

Dittmore indicated that ground computers may contain an additional 32 seconds of data which could provide additional information in the analysis of Columbia's breakup.

He added that the loss of some foam insulation from Columbia's external fuel tank, which struck the shuttle's left wing about 80 seconds after launch was "inconsequential" based on video imagery review conducted by engineering specialists. However, he said nothing has been ruled out as a possible cause for the accident.

Robert Cabana, the Director of Flight Crew Operations at the Johnson Space Center, relayed thanks from the families of the astronauts for the outpouring of support received from around the nation and the world.

Cabana said that the Expedition 6 crewmembers aboard the International Space Station are "grieving" for the loss of Columbia's crew, but are in good spirits as they continue human spaceflight and scientific research aboard the orbital outpost. Cabana said Commander Ken Bowersox, Flight Engineer Nikolai Budarin and NASA ISS Science Officer Don Pettit are preparing for Tuesday's arrival of a Russian Progress cargo ship. Progress 10 was launched this morning from the Baikonur Cosmodrome in Kazakhstan.

On Tuesday, Feb. 4, President and Mrs. Bush will join NASA Administrator Sean O'Keefe at the Johnson Space Center to pay tribute to Columbia's astronauts during a special memorial service. The ceremony to honor Columbia's seven crewmembers is scheduled to begin at 1 p.m. EST and will be broadcast on NASA Television. The service is not open to the public.

The next STS-107 Accident Response briefings are on Monday, Feb. 3 at NASA Headquarters in Washington at 11:30 a.m. EST and at the Johnson Space Center at 4:30 p.m. EST. Status reports will be issued as developments warrant.

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list-post: <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 MCC Status Report #20
Date: Sun, 2 Feb 2003 21:30:44 -0500

STS-107
Report #20
Sunday, February 2, 2003 - 8:30 p.m. CST
Mission Control Center, Houston, Texas

Aided by federal and local agencies, NASA stepped up its inquiry into the loss of the Space Shuttle Columbia and its seven astronauts. Multiple investigative teams continue to pore over engineering data in an effort to uncover the cause of the breakup of the orbiter over Texas on Saturday 16 minutes from landing.

Space Shuttle Program Manager Ron Dittmore told an afternoon briefing that a Mishap Response Team is gathering data from numerous engineering teams in the early stages of the investigation and is receiving assistance from the Federal Emergency Management Agency, the National Transportation Safety Board, the Federal Bureau of Investigation and local law enforcement agencies, among others.

Dittmore said that as Commander Rick Husband, Pilot William McCool, Mission Specialists Dave Brown, Kalpana Chawla, Mike Anderson, Laurel Clark and Israeli Payload Specialist Ilan Ramon are mourned, the recovery of debris from Columbia and human remains is being coordinated at Barksdale Air Force Base, La.

Dittmore thanked residents in the areas where debris fell after Columbia's breakup for cooperating in the recovery effort but cautioned them not to handle debris that could contain toxic substances.

Dittmore reconstructed the final minutes of Columbia's flight before communications was lost. He reiterated the failure of four temperature sensors associated with the shuttle's left hand elevons at 7:53 a.m. CST Saturday amidst a 20-30 degree rise in left hand bondline and strut temperatures over a five-minute period near the left wheel well of the orbiter. Columbia was flying over California at the time at an altitude of about 220,000 feet traveling 21 times the speed of sound.

One minute later, over the region of eastern California and western Nevada, Columbia's mid-fuselage bondline temperatures above the left wing experienced an unusual temperature increase. It rose 60 degrees over a five-minute period. No such temperature increase was noted on the right side of Columbia or in the Shuttle's cargo bay. Columbia was about 212,000 feet above the Earth, flying at Mach 20.

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Subject: SPACE SHUTTLE COLUMBIA ACCIDENT BRIEFINGS SCHEDULED
Date: Sun, 2 Feb 2003 19:19:37 -0500

Robert Mirelson
Headquarters, Washington February 2, 2003
(Phone: 202/3580-1600)

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

RELEASE: 03-040

SPACE SHUTTLE COLUMBIA ACCIDENT BRIEFINGS SCHEDULED

Two briefings are scheduled Monday in NASA's continuing effort to keep the public up-to-date on the latest developments involving the investigation into the tragic accident that killed the seven-member crew of the Space Shuttle Columbia.

The first briefing is scheduled at NASA Headquarters Monday morning at 11:30 a.m. EST. A second briefing is tentatively scheduled for 4:30 p.m. EST from the NASA Johnson Space Center in Houston.

Both briefings will feature questions from reporters at participating NASA centers and will be broadcast live on NASA Television.

NASA TV is available 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 is available on the Internet at:

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To: "1 'ksc-news_release@kscnews.ksc.nasa.gov' (E-mail)"
<ksc-news_release@kscnews.ksc.nasa.gov>
Subject: NASA MEMORIAL SERVICE SCHEDULED AT JOHNSON SPACE CENTER
Date: Sun, 2 Feb 2003 19:18:27 -0500

Glenn Mahone/Bob Jacobs
Headquarters, Washington February 2, 2003
(Phone: 202/358-1898/1600)

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

RELEASE: 03-37

NASA MEMORIAL SERVICE SCHEDULED AT JOHNSON SPACE CENTER

The President and Mrs. George W. Bush will join NASA Administrator Sean O'Keefe Tuesday afternoon in paying tribute to the brave heroes of the Space Shuttle Columbia crew during a special memorial service at the NASA Johnson Space Center in Houston.

The ceremony to honor NASA astronauts Rick Husband, William McCool, Michael Anderson, Kalpana Chawla, David Brown, Laurel Clark, and Israeli astronaut Ilan Ramon is scheduled to begin at 12:45 p.m. EST in the Central Mall area behind Building One. Gates are scheduled to open at 10 a.m.

This is a private ceremony for family members, friends, and invited guests, along with NASA employees and contractors. The service will be carried live on NASA Television and available on the Internet at www.nasa.gov.

Media access to the memorial service will be restricted with television and still photography access provided on a pool basis.

NASA Television is available 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 STS-107 crew and the Space Shuttle Columbia is available on the Internet at <http://spaceflight.nasa.gov>.

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Subject: NASA PRESS CONFERENCES ANNOUNCED
Date: Sun, 2 Feb 2003 14:15:35 -0500

Robert Mirelson
Headquarters, Washington

Feb. 2, 2003
1:00 p.m. EST

RELEASE: 03-036

NASA PRESS CONFERENCES ANNOUNCED

A press conference by Space Shuttle Program Manager Ron Dittmore and the Director of Flight Crew Operations, Bob Cabana will take place from NASA's Johnson Space Center, Houston, at 4:30 p.m. EST today. The briefing will be carried on NASA TV with limited two-way question and answer capability from other agency centers.

NASA is planning two-per-day press briefings starting Monday, Feb. 3, 2003. There will be a daily press briefing from NASA Headquarters, 300 E Street SW, Washington, at 11:30 a.m. EST and at 4:30 p.m. EST from the Johnson Space Center. Senior NASA officials will participate in the press briefings.

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

More information will be released as it becomes available. NASA information is available on the Internet at:

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<ksc-news_release@kscnews.ksc.nasa.gov>
Subject: STS-107 Statement # 5 NASA ANNOUNCES SPACE SHUTTLE COLUMBIA ACCIDENT INVESTIGATION BOARD (THE GEHMAN BOARD)
Date: Sun, 2 Feb 2003 11:03:16 -0500

Glenn Mahone/Bob Jacobs
Headquarters, Washington

February 2, 2003

RELEASE: 03-034

NASA ANNOUNCES SPACE SHUTTLE COLUMBIA ACCIDENT INVESTIGATION BOARD (THE GEHMAN BOARD)

NASA Administrator Sean O'Keefe today announced the members of the Space Shuttle Mishap Interagency Investigation Board, which will provide an independent review of the events and activities that led up to the tragic loss of the seven astronauts Saturday on board the Space Shuttle Columbia.

The board's first meeting is scheduled for tomorrow at Barksdale Air Force Base in Louisiana.

Retired U.S. Navy Admiral Harold W. Gehman, Jr., who co-chaired the independent commission that investigated the attack on the U.S.S. Cole in Aden, Yemen, Oct. 12, 2000, and once served as the commander-in-chief of U.S. Joint Forces Command, will chair the panel.

"While the NASA family and the entire world mourn the loss of our colleagues, we have a responsibility to quickly move forward with an external assessment to determine exactly what happened and why," said Administrator O'Keefe. "We're honored to have such a distinguished panel of experts, led by Admiral Gehman."

Other members of the investigative board includes:

- * 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, Commander, U.S. Air Force Chief of Safety, Kirtland Air Force Base, N.M.
- * Dr. James N. Hallock, Aviation Safety Division Chief, U.S. Department of Transportation, Cambridge, Mass.
- * Steven B. Wallace, Director of Accident Investigation, Federal Aviation Administration, Washington
- * Brigadier General Duane Deal, Commander 21st Space Wing, Peterson Air Force Base, Colo.

Several senior NASA leaders also will be a part of the panel, including G. Scott Hubbard, Director, NASA Ames Research Center, Moffett Field, Calif. Bryan D. O'Connor, NASA Associate Administrator and former astronaut, Office of Safety and Mission Assurance, Headquarters, will serve as Ex-Officio Member, and

Theron Bradley, Jr., NASA Chief Engineer, NASA Headquarters, Washington, will be Executive Secretary.

"We need to be responsible, accountable, and extremely thorough in this investigation," added Administrator O'Keefe. "This panel is charged with a most difficult task, but I am confident in their ability, their integrity, and their dedication to doing what's right. Their findings will help push America's space program successfully into the future."

"Currently, NASA is beginning an internal investigation, drawing on the extensive expertise throughout the agency. Public officials for NASA, the Federal Emergency Management Agency, and other federal, state, and local entities are coordinating talents to help find the cause of this tragedy," concluded Administrator O'Keefe

Additional information about the investigation and the STS-107 mission is available on the Internet at:

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

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Subject: STS-107 MCC Status Report #19
Date: Sat, 1 Feb 2003 19:44:13 -0500

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.

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<ksc-news_release@kscnews.ksc.nasa.gov>
Subject: STS-107 Statement # 3 – STATEMENT BY NASA ADMINISTRATOR SEAN O'KEEFE
Date: Sat, 1 Feb 2003 18:20:34 -0500

Robert Mirelson
Headquarters, Washington

Feb. 1, 2003
4 p.m. EST

RELEASE: 03-032

STATEMENT BY NASA ADMINISTRATOR SEAN O'KEEFE

"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.

"Immediately upon indication of a loss of communications from STS-107, at a little after 9:00 a.m. this morning, we began our contingency plan to preserve all the information relative to the flight activities.

"I immediately advised the President and the Secretary of Homeland Security, Tom Ridge, at the point after landing was due to have occurred at 9:16 a.m., and spoke to them very briefly to advise them that we had lost contact with the Shuttle orbiter, Columbia, and STS-107 crew. They offered, the President specifically offered, full and immediate support to determine the appropriate steps to be taken.

"We then spent the next hour and a half working through the details and information of what we have received and Bill Readdy, Associate Administrator for the NASA Office of Space Flight, will walk you through the specifics of those operational and technical issues.

"We met with the family members of the astronauts who were here at the Kennedy Space Center and are soon to be departing back to the Johnson Space Center in Houston. The President has called and spoken to the family members to express our deepest national regrets. We have assured them that we will begin the process immediately to recover their loved ones and understand the cause of this tragedy.

"We have no indication that the mishap was caused by anything or anyone on the ground.

"We assembled a Mishap Investigation Team at a point past the stage that the orbiter was to have landed here at Kennedy Space Center a little after 9:30.

That team, in turn, is coordinating on a regular basis on all the facts that are pertaining to this from the Johnson Space Center with help from a Rapid Response Team from here at the Kennedy Space Center, as well participants from the Marshall Space Flight Center in Huntsville, Alabama.

"In addition to these internal efforts, we have appointed a Mishap Investigation Board, an external group of people who are independent from NASA who will be charged with the responsibility to look at all the information that was immediately locked down right after the absence of communications.

"Each of these individuals are Safety and Mission Assurance related officials in other departments of the Federal government, from the Air Force, the Navy, the Department of Transportation, and across the federal expanse. This Investigation Team will be chaired by an individual who is external to the federal agencies and will have the responsibility to coordinate all the information from an external view.

"So we'll be conducting both the internal activity as well as the external review immediately to ascertain the causes and circumstances under which this tragedy occurred.

"We have pulled together all the federal agencies and local governments as well. I have been in discussion several times this morning with Secretary Tom Ridge. The effort is under way to coordinate an understanding of exactly where the orbiter path had taken it from West Texas towards the Kennedy Space Center here in Florida and to make sure that the material on the ground is secured so that the investigation can begin promptly.

"We would urge people who believe they have found any material to stay away from it and to please contact local officials. The local first responder groups for emergency services have been authorized and directed by Secretary Tom Ridge to assist in any way. The Federal Emergency Management Agency is coordinating that effort on behalf of the Department of Homeland Security.

"I was here this morning with the families of the astronauts and their friends. It started out as a pretty happy morning, as we awaited the landing of STS-107. We had highly anticipated their return because we couldn't wait to congratulate them for their extraordinary performance and their excellent effort on this very important science mission.

"They dedicated their lives to pushing scientific challenges for all of us here on Earth. They dedicated themselves to that objective and did it with a happy heart, willingly and with great enthusiasm.

"The loss of this valued crew is something we will never be able to get over. We have assured the families that we will do everything, everything we can possibly do to guarantee that we work our way through this horrific tragedy.

We ask the members of the media to honor that too. Please respect their privacy and please understand the tragedy that they are going through at this time. We will help the media assure that this will be the case as well.

"We trust the prayers of the Nation will be with them and with their families. A more courageous group of people you could not have hoped to

know- an extraordinary group of astronauts who gave their lives-and the families of these crewmembers. They knew exactly the risks. And never, ever did we want to see a circumstance in which this could happen.

"We diligently dedicate ourselves every single day to assuring these things don't occur. And when they do we have to act responsibly, accountably and that is exactly what we will do."

For more information on the Internet:

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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: STS-107 Statement # 4 -- NASA ASKS FOR HELP WITH COLUMBIA INVESTIGATION
Date: Sat, 1 Feb 2003 18:05:39 -0500

Robert Mirelson
Headquarters, Washington

Eileen Hawley
Johnson Space Center, Houston

Feb. 1, 2003
5 p.m. EST

RELEASE: 03-033

NASA ASKS FOR HELP WITH COLUMBIA INVESTIGATION

NASA has established a telephone hotline and electronic mail address for the public to use for reporting information that may help investigators studying today's Space Shuttle mishap.

Anyone who discovers debris from the accident or who has film or video evidence that may be of value to the investigation team is urged to use these contacts. Please avoid contact with any debris, because it may be hazardous as a result of toxic propellants aboard the Shuttle.

Telephone reports should be directed to the following number:

281/483-3388

Text reports and images should be e-mailed to:

nasamitimages@jsc.nasa.gov <<mailto:nasamitimages@jsc.nasa.gov>>

The e-mail address is:
columbiaimages@nasa.gov <<mailto:columbiaimages@nasa.gov>>

All debris is U.S. Government property and is critical to the investigation of the mishap. All debris from the accident is to be left alone and reported to Government authorities. Unauthorized persons found in possession of accident debris will be prosecuted to the full extent of the law.

-end-

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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 Statement # 2 NASA PRESS CONFERENCE ANNOUNCED
Date: Sat, 1 Feb 2003 17:54:41 -0500

Robert Mirelson
Headquarters, Washington

Feb. 1, 2003
1:15 p.m. EST

RELEASE: 03-031

NASA PRESS CONFERENCE ANNOUNCED

A press conference by Space Shuttle Program Manager Ron Dittmore and Chief Flight Director Milt Heflin will take place from NASA's Johnson Space Center, Houston, beginning at 3 p.m. EST today. The briefing will be carried on NASA TV with two-way question and answer capability from other agency centers.

A Space Shuttle contingency was declared earlier this morning in Mission Control when communication was lost with the Space Shuttle Columbia during its return to Earth following a 16-day mission.

Communication and tracking of the shuttle was lost at 9 a.m. at an altitude of about 203,000 feet above north central Texas while traveling approximately 12,500 miles per hour (Mach 18). No communication and tracking information was received in Mission Control after that time.

Flight controllers in Mission Control immediately began the process of securing all information, notes and data pertinent to today's reentry and landing.

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

More information will be released as it becomes available. NASA information is available on the Internet at:

www.nasa.gov

-end-

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list-post: <mailto:ksc-news_release@kscnews.ksc.nasa.gov>
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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 Statement # 1 – NASA STATEMENT ON LOSS OF COMMUNICATIONS WITH COLUMBIA
Date: Sat, 1 Feb 2003 17:52:42 -0500

Robert Mirelson
Headquarters, Washington
Feb. 1, 2003

RELEASE: 03-030

NASA STATEMENT ON LOSS OF COMMUNICATIONS WITH COLUMBIA

A Space Shuttle contingency has been declared in Mission Control, Houston, as a result of the loss of communication with the Space Shuttle Columbia at approximately 9 a.m. EST Saturday as it descended toward a landing at the Kennedy Space Center, Fla. It was scheduled to touchdown at 9:16 a.m. EST.

Communication and tracking of the shuttle was lost at 9 a.m. EST at an altitude of about 203,000 feet in the area above north central Texas. At the time communications were lost. The shuttle was traveling approximately 12,500 miles per hour (Mach 18). No communication and tracking information were received in Mission Control after that time.

Search and rescue teams in the Dallas-Fort Worth and in portions of East Texas have been alerted. Any debris that is located in the area that may be related to the Space Shuttle contingency should be avoided and may be hazardous as a result of toxic propellants used aboard the shuttle. The location of any possible debris should immediately be reported to local authorities.

Flight controllers in Mission Control have secured all information, notes and data pertinent to today's entry and landing by Space Shuttle Columbia and continue to methodically proceed through contingency plans.

More information will be released as it becomes available.

-end-

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X-Sender: bdunbar@mail.hq.nasa.gov
Date: Sat, 01 Feb 2003 15:46:00 -0500
To: nasa-webmasters@larc.nasa.gov, catherine.e.watson1@jsc.nasa.gov,
Lynn.A.Jenner.1@gsc.nasa.gov, R.D.ALLEN@larc.nasa.gov,
Keith.A.Koehler.1@gsc.nasa.gov, kay.grinter-1@ksc.nasa.gov,
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susan.reichley@jpl.nasa.gov, jenny.baer-riedhart@dfrc.nasa.gov,
jdino@mail.arc.nasa.gov, Dennis.Armstrong-1@ksc.nasa.gov,
C.W.Cleghorn@larc.nasa.gov, ahutchison@mail.arc.nasa.gov,
Paul.Foerman@ssc.nasa.gov
From: Brian Dunbar <bdunbar@mail.hq.nasa.gov>
Subject: Web memorials for 107 crew
Cc: shelley.canright@hq.nasa.gov, christine.johnson@hq.nasa.gov

All,

This is obviously a time of deep grief at NASA and people are starting to think about how to best honor the memory of the STS-107. Less than 7 hours after the tragic loss of the crew, emotions are still very raw, and beyond lowering flags to half-staff, the Administrator himself has not decided the most appropriate means of memorializing the crew. Given that, and out of deference to the families of the crew who are still dealing with the terrible shock, please do not create or post memorial sites or pages for the mission and crew. The timing is simply not appropriate, and we should all follow the Administrator's lead when the time comes.

In the days to come, we will all have an opportunity to show our respect for the crew and our sympathy for their families. In the meantime, if you wish to keep your users up to date on the 107 investigation, please point them to www.nasa.gov. Sometime this weekend we will remove the advisory page from the top level and go back to the standard home page (without the animated introduction) with the rotating Flash banner replaced by a fixed graphic link to the latest information. This is not the way would we have hoped to do load testing on the new hosting environment.

I have sometimes wondered, in my 13 years at NASA, if I would ever have to live through a day like Jan. 27, 1967, or Jan. 28, 1986. Today I can honestly say I would have lived well and happily for all my days without ever having done so.

Brian

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To: "1 'ksc-news_release@kscnews.ksc.nasa.gov' (E-mail)"
<ksc-news_release@kscnews.ksc.nasa.gov>
Subject: 1/31/03 STS-107 END OF MISSION LANDING WEATHER FORECAST
Date: Fri, 31 Jan 2003 09:24:57 -0500

STS-107 END OF MISSION
LANDING WEATHER FORECAST
SPACEFLIGHT METEOROLOGY GROUP
Forecaster: G. Wayne Baggett

ISSUED: Friday, January 31, 2003

George H. Diller
NASA Kennedy Space Center
321/867-2468

Rob Navias
NASA Johnson Space Center
281/483-5111

WEATHER SYNOPSIS: High pressure over Texas Saturday morning will push drier over Florida for tomorrow's landing opportunities accompanied by increasing northwesterly winds. By Sunday morning, the high will be centered over Florida creating light northerly winds and only a few, if any clouds. Acceptable weather is expected at KSC for Monday's landing opportunities in the event of two wave-off days.

No weather constraints are expected at Edwards or White Sands on Saturday, but winds will increase at Edwards for the later opportunity as a cold front approaches Southern California. Sunday and Monday opportunities should have acceptable weather except for strong winds and blowing dust at White Sands on Sunday.

END OF MISSION LANDING WEATHER FORECASTS FOR 2/1/03

Kennedy Space Center Shuttle Landing Facility
Valid 9:16 AM EST

Clouds: Scattered 3,500
Scattered 25,000

Visibility: 7 miles

Winds: 300 degrees 10 knots, Peak 15 knots
310 degrees 15 knots, Peak 20 knots 2nd Opportunity

Runway: 33 planned for both opportunities

Temperature: 56 degrees
Dew Point: 48 degrees
Relative humidity: 66%

Precipitation: None

Edwards Air Force Base
Valid 10:42 AM EDT / 9:42 AM CST

Clouds: Scattered 25,000

Visibility: 7 miles

Winds: 230 degrees 8 knots, Peak 13 knots
230 degrees 15 knots, Peak 25 knots 2nd opportunity

Runways: 22/04

Precipitation: None

WAVE-OFF LANDING WEATHER FORECASTS FOR 2/02/03

Kennedy Space Center Shuttle Landing Facility
Valid 7:39 AM EST / 6:39 AM CST

Clouds: Few 3,500

Visibility: 7 miles

Winds: 350 degrees at 4 knots, Peak 6 knots
Runways: 33/15

Temperature: 54 degrees

Dew Point: 44 degrees

Relative humidity: 59%

Precipitation: None

Edwards Air Force Base
Valid 10:39 EST / 9:39 CST

Clouds: Few 12,000
Scattered 25,000

Visibility: 7 miles

Winds: 020 degrees 12 knots, Peak 18 knots
030 degrees 15 knots, Peak 25 knots 2nd Opportunity

Runways: 22/04

Precipitation: None

NOAA National Weather Service
Spaceflight Meteorology Group
Johnson Space Center

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From: "Buckingham-1, Bruce" <Bruce.Buckingham-1@nasa.gov>
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Subject: STS-107 END OF MISSION LANDING WEATHER FORECAST
Date: Thu, 30 Jan 2003 12:47:47 -0500

STS-107 END OF MISSION
LANDING WEATHER FORECAST
SPACEFLIGHT METEOROLOGY GROUP
Forecaster: G. Wayne Baggett

ISSUED: Thursday, January 30, 2003

George H. Diller
NASA Kennedy Space Center
321/867-2468

Rob Navias
NASA Johnson Space Center
281/483-5111

WEATHER SYNOPSIS: High pressure over on Texas Saturday morning will build eastward across the gulf states creating drying conditions over Florida for Saturday's landing opportunities. On Sunday, winds begin turning to the northeast creating a slight chance of broken cloud ceiling below 5 thousand feet, but generally good weather otherwise. Acceptable weather is expected at KSC for Monday's landing opportunities in the event of two wave-off days.

No weather constraints are expected at Edwards or White Sands on Saturday, but winds will increase at Edwards for the later opportunity Saturday as a cold front mover through Southern California. Sunday and Monday opportunities should have acceptable weather except for strong winds and blowing dust at White Sands on Sunday.

END OF MISSION LANDING WEATHER FORECASTS FOR 2/1/03

Kennedy Space Center Shuttle Landing Facility
Valid 9:16 AM EST / 8:16 AM CST

Clouds: Few 3,500
Scattered 25,000

Visibility: 7 miles

Winds: 300 degrees/6 knots, peak 9 knots

Temperature: 58 degrees

Dew Point: 49 degrees

Relative humidity: 63%

Precipitation: None

Edwards Air Force Base
Valid 10:42 AM EDT / 9:42 AM CST

Clouds: Scattered 25,000

Visibility: 7 miles

Winds: 240 degrees/8 knots, peak 13 knots

Remarks: Wind 260 degrees/12 knots, peak 8 knots for 2nd opportunity

Precipitation: None
WAVE-OFF LANDING WEATHER FORECASTS FOR 2/02/03

Kennedy Space Center Shuttle Landing Facility
Valid 7:39 AM EST / 6:39 AM CST

Clouds: Scattered 3,500

Visibility: 7 miles

Winds: 040 degrees/7 knots, peak 10 knots

Temperature: 65

Dew Point: 60

Relative humidity: 78%

Remarks: Slight Chance of broken clouds at 3,500 feet

Precipitation: None

Edwards Air Force Base
Valid 10:39 EST / 9:39 CST

Clouds: Few 12,000
Few 25,000

Visibility: 7 miles

Winds: 030 degrees/13 knots, peak 23 knots

Precipitation: None

NOAA National Weather Service
Spaceflight Meteorology Group
Johnson Space Center

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<ksc-news_release@kscnews.ksc.nasa.gov>
Subject: COLUMBIA SCHEDULED TO LAND AT KSC FEB. 1
Date: Thu, 30 Jan 2003 11:29:47 -0500

NASA News
National Aeronautics and
Space Administration

John F. Kennedy Space Center
Kennedy Space Center, Florida 32899
AC 321-867-2468

For Release: Jan. 30, 2003

KSC Contact: Bruce Buckingham
(321) 867-2468

KSC Release No. 14 - 03

NOTE TO EDITORS:
COLUMBIA SCHEDULED TO LAND AT KSC FEB. 1

The orbiter Columbia is scheduled to land at Kennedy Space Center (KSC) Saturday, Feb. 1, at about 9:16 a.m. EST completing the 16-day STS-107 international microgravity research mission. Columbia launched from KSC on Jan. 16, 2003, at 10:39 a.m. EST.

Landing at KSC's Shuttle Landing Facility (SLF) is slated to occur on orbit 255 at mission elapsed time 15 days, 22 hours, 37 minutes. The deorbit burn will occur at about 8:15 a.m. EST. A second KSC landing opportunity is also available on Feb. 1 at 10:50 a.m. EST with a deorbit burn coming at 9:50 a.m. EST.

If managers must keep Columbia in orbit beyond Saturday, two landing opportunities are available at KSC on Sunday, Feb. 2, at 7:38 a.m. EST and at 9:12 a.m. EST. Two additional times are also available at KSC on Monday, Feb. 3.

No landing opportunities are planned for the back-up landing location at Edwards Air Force Base (EAFB), Calif., on Saturday or Sunday.

If landing occurs as scheduled, it will be the 62nd landing at KSC in the history of the Shuttle program. Following landing, Columbia will be serviced and prepared for its next mission, STS-118, targeted to launch in November 2003.

After touchdown, the STS-107 crew will be taken to their KSC quarters to meet with their families and undergo initial physical examinations. A post-mission press conference with select members of the STS-107 crew is scheduled to occur at the KSC News Center at about 6 p.m. EST. Media should check with the KSC Press Site for details.

SLF and KSC Ground Operations

The Shuttle Landing Facility was built in 1975. It is 300 feet wide and 15,000 feet long with 1,000-foot overruns at each end. The strip runs northwest to southeast and is located about three miles northwest of the 525-foot tall Vehicle Assembly Building.

Once the orbiter is on the ground, safing operations will commence and the flight crew will prepare the vehicle for post-landing operations. The Crew Transport Vehicle (CTV) will be used to assist the crew, allowing them to leave the vehicle and remove their launch and re-entry suits easier and quicker.

The CTV and other KSC landing convoy operations have been "on-call" since the launch of Columbia. The primary functions of the Space Shuttle recovery convoy are to provide immediate service to the orbiter after landing, assist crew egress, and prepare the orbiter for towing to the processing facility a few hours following touchdown.

Convoy vehicles are stationed at the SLF's mid-point. About two hours prior to landing, convoy personnel don SCAPE suits, or Self-Contained Atmospheric Protective Ensemble, and communications checks are made. A warming-up of coolant and purge equipment is conducted and nearly two-dozen convoy vehicles are positioned to move onto the runway as quickly and as safely as possible once the orbiter coasts to a stop. When the vehicle is deemed safe of all potential explosive hazards and toxic gases, the purge and coolant umbilical access vehicles move into position at the rear of the orbiter.

Following purge and coolant operations, flight crew egress preparations will begin and the CTV will be moved into position at the crew access hatch located on the orbiter's port side. A physician will board the Shuttle and conduct a brief preliminary examination of the astronauts. The crew will then make preparations to leave the vehicle.

NOTICE TO EDITORS: The KSC press site will open for landing activities at 5 a.m. Saturday, Feb. 1. Accredited news media wishing to view Columbia's landing should be at the KSC News Center no later than 7:45 a.m. for transport to the SLF. STS-107 launch 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, landing photo opportunities, post-landing press conferences with the STS-107 crew, and News Center operational hours is available by calling the KSC News Center at (321) 867-2468.

-- end --

For the landing weather forecast visit
<<http://www-pao.ksc.nasa.gov/kscpao/status/weatstat/forecast.htm>>
For the latest Shuttle status on the web visit

<<http://www-pao.ksc.nasa.gov/kscpao/status/stsstat/current.htm>>
Visit <<http://www-pao.ksc.nasa.gov/kscpao/schedule/schedule.htm>> on the KSC
Home Page for the latest schedule of future Shuttle missions.
KSC press releases can be found at
<<http://www-pao.ksc.nasa.gov/kscpao/release/release.htm>>
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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: 1-30-03 shuttle status
Date: Thu, 30 Jan 2003 09:30:14 -0500

**KENNEDY SPACE CENTER
SHUTTLE & PAYLOAD PROCESSING STATUS REPORT
Thursday, Jan. 30, 2003 (10 a.m. EST)**

For the latest Shuttle status on the web visit
<<http://www-pao.ksc.nasa.gov/kscpao/status/stsstat/current.htm>>.
For the latest weather forecast visit
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<<http://www-pao.ksc.nasa.gov/kscpao/release/release.htm>>.
The KSC home page can be found at <<http://www.ksc.nasa.gov/>>.

MISSION STS-107 -SPACEHAB/ FREESTAR MICROGRAVITY RESEARCH MISSION

VEHICLE - Columbia/OV-102
LAUNCH DATE: Jan. 16, 2003
OFFICIAL LAUNCH TIME: 10:39 a.m. EST
TARGET LANDING DATE: Feb. 1, 2003 at 9:16 a.m. EST
MISSION DURATION: 16 days
CREW: Husband, McCool, Anderson, Chawla, Brown, Clark, Ramon
ORBITAL INSERTION ALTITUDE AND INCLINATION: 150 nautical miles/39 degrees

Shuttle Processing Note: Shuttle Columbia continues to perform well on its SPACEHAB microgravity research mission. On the medical research front, work with the bone and prostate cancer studies continued in the Bioreactor Demonstration System, and crewmembers participated in experiments for the Physiology and Biochemistry suite. The 16-day international science mission is scheduled to land on Feb. 1 at about 9:16 a.m. at Kennedy Space Center's Shuttle Landing Facility. Early weather forecast indicate favorable conditions for a landing on Saturday.

MISSION STS-114 – 17TH ISS FLIGHT (ULF1) - CREW ROTATION/MULTI-PURPOSE LOGISTICS MODULE

VEHICLE: Atlantis/OV-104
TARGET LAUNCH DATE: March 1, 2003
TARGET LANDING DATE: March 13, 2003
MISSION DURATION: 12 days
SHUTTLE CREW: Collins, Kelly, Noguchi, Robinson
ISS EXPEDITION CREW 7: Malenchenko, Kaleri, Lu
ORBITAL ALTITUDE AND INCLINATION: 122 nautical miles, 51.6 degrees

Shuttle Processing Note: Orbiter Atlantis was mated to the Orbiter Transporter System on Tuesday and

was rolled over on Wednesday to be mated to its Solid Rocket Boosters and External Tank in preparation for a launch to the International Space Station on March 1.

MISSION STS-115 -- 18th ISS FLIGHT (12A) ? P3/P4 SOLAR ARRAYS

VEHICLE - Endeavour/OV-105

TARGET LAUNCH DATE: May 23, 2003

TARGET LANDING DATE: June 3, 2003

MISSION DURATION: 10 days

CREW: Jett, Ferguson, Tanner, Burbank, MacLean, Stefanyshyn-Piper

ORBITAL INSERTION ALTITUDE AND INCLINATION: 122 nautical miles/51.6 degrees

Shuttle Processing Note: Processing continues on schedule for the STS-115 launch to the International Space Station scheduled in May 2003. Installation of all three of Endeavour's Auxiliary Power Units is complete and the APU exhaust duct leak checks are in work. Technicians in the processing facility are preparing to remove the right-hand Orbiter Maneuvering System pod.

ORBITER MAJOR MODIFICATION PERIOD

VEHICLE: Discovery/OV-103

Shuttle Processing Note: The Orbiter Major Modification (OMM) period for Discovery continues with Avionics Bay 3A structures modifications, and Avionics Bay 1 and 2 integrated wiring modifications. Multi-Purpose Logistics Module dedicated heat exchanger and radiator isolation modifications are in work. Wire inspections and repairs are ongoing.

-- end --

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. 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 . 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> .

Date: Mon, 27 Jan 2003 16:12:02 -0600
Subject: Look at that Spaceship: STS-107 Sightings
To: "NASA Science News" <snglist@snglist.msfc.nasa.gov>
From: NASA Science News <snglist@snglist.msfc.nasa.gov>
List-Unsubscribe: <mailto:leave-snglist-108321L@snglist.msfc.nasa.gov>
List-Subscribe: <mailto:subscribe-snglist@snglist.msfc.nasa.gov>
List-Owner: <mailto:owner-snglist@snglist.msfc.nasa.gov>
X-URL: <http://science.nasa.gov>
Reply-To: "NASA Science News" <snglist@snglist.msfc.nasa.gov>
Sender: bounce-snglist-108321@snglist.msfc.nasa.gov

NASA Science News for January 27, 2003

The space shuttle Columbia (STS-107), which is on a 16-day mission dedicated to scientific research, will make a lovely series of morning passes over the United States this week.

FULL STORY at

http://science.nasa.gov/headlines/y2003/27jan_dejavu.htm?list108321

You are currently subscribed to snglist as: r.d.allen@larc.nasa.gov

This is a free service.

To UNSUBSCRIBE, or CHANGE your address on this service, go to <http://science.nasa.gov/news/subscribe.asp?e=r.d.allen@larc.nasa.gov> or send a blank email to leave-snglist-108321L@snglist.msfc.nasa.gov.

NASA is looking for Teachers to be Astronauts! Are you the right person, or do you know someone who might be? Check out <http://edspace.nasa.gov/?science.nasa.gov> for information.

If you need to get in touch with us directly, please go to <http://science.nasa.gov/comments>

Home page: <http://science.nasa.gov>

X-Sender: k.r.credeur@express.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Thu, 16 Jan 2003 09:27:02 -0500
To:
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Shuttle launch 10:39 a.m. Thurs

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

X-Sender: fbrown1@mail.hq.nasa.gov
X-Priority: 1 (Highest)
Date: Thu, 16 Jan 2003 08:56:56 -0500
To: media-list@hq.nasa.gov, rmoreno@ebuwsht.com, ebu@ebuwsht.com, Cheryl.Cox-1@ksc.nasa.gov, meyoung%pop200@gsfc.nasa.gov, noticias@tucontacto.larc.nasa.gov, len.peterson1@jsc.nasa.gov, andre.valentine1@jsc.nasa.gov, RayLC@kscems.ksc.nasa.gov, NThibault@weather.com, dolores.beasley@hq.nasa.gov, David.Santucci@turner.com, sbuyting@discovery.ca, bquerna@natgeochannel.com, langus@natgeochannel.com, Julie Barry <jbarr@mail.hq.nasa.gov>
From: Fred Brown <fbrown1@hq.nasa.gov>
Subject: NASA TV Video-File For January 16, 2003
Sender: owner-media-list@lists.hq.nasa.gov

NASA TV VIDEO-FILE FOR January 16, 2003

**Programming note: STS-107 is scheduled for launch from the Kennedy Space Center at 10:39 a.m. EST. The NASA TV Video-File will not run today.

DURING SPACE SHUTTLE MISSIONS, THE NASA TELEVISION SCHEDULE CAN BE FOUND AT THE FOLLOWING WEB ADDRESS:
http://spaceflight.nasa.gov/realdata/nasatv/schedule.html

All updates to the Video-File Content List will be posted to:
http://www.nasa.gov/ntv/ click on the NTV Video file link.

NASA TV Programs:

This Week:

January 16, Thursday
7:30 a.m. - STS-107 Launch Coverage and Commentary - KSC/JSC

NOTE: ALL TIMES EASTERN. ALL PROGRAMS MAY BE PRE-EMPTED WITHOUT ADVANCE NOTICE. DURING SPACE SHUTTLE MISSIONS, THE NASA TELEVISION SCHEDULE CAN BE FOUND AT THE FOLLOWING WEB ADDRESS:
HTTP://SPACEFLIGHT.NASA.GOV/REALDATA/NASATV/SCHEDULE.HTML

NASA TELEVISION IS AVAILABLE ON AMC2, TRANSPONDER 9C AT 85 DEGREES WEST LONGITUDE, WITH VERTICAL POLARIZATION. FREQUENCY IS ON 3880.0 MEGAHERTZ, WITH AUDIO ON 6.8 MEGAHERTZ. FOR QUESTIONS ABOUT THE VIDEO-FILE CALL FRED BROWN 202/358-0713 OR FRAN TOLIVER AT 202/358-0016.

Fred Brown
NASA Television
Executive Producer

967-400

Code PM, NASA HQ
202/358-0713 Desk
202/997-4891Cell

--

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Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Sun, 2 Feb 2003 19:32:52 -0500
To: Donna Gail Roper Lawson <d.g.lawson@larc.nasa.gov>,
Elaine Gause <D.E.GAUSE@larc.nasa.gov>
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: FYI re JM: Earlier: JSC Memorial Service

Donna, Elaine, FYI re. contract, Jim Meehan. Karen

Date: Sun, 2 Feb 2003 19:27
To: L.R.RICH@LaRC.NASA.GOV, J.J.MEEHAN@LaRC.NASA.GOV
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Earlier: JSC Memorial Service

Lee, Jim, Below is an earlier e-mail I sent on JSC, which provides a little more background. Use the one dated later for the time and latest speaker inform, etc. Karen

Date: Sun, 2 Feb 2003 16:03:05 -0500
To: M.PITTS@LaRC.NASA.GOV, M.P.FINNERAN@LaRC.NASA.GOV, Marny Skora <M.M.SKORA@LaRC.NASA.GOV>,
Public Services Offic:c.w.cleghorn@larc.nasa.gov, D.E.GAUSE@LaRC.NASA.GOV,
C.L.Hancock@LaRC.NASA.GOV, g.s.langevin@larc.nasa.gov, d.g.lawson@larc.nasa.gov,
P.J.VERNIEL@LaRC.NASA.GOV, S.C.WEST@LaRC.NASA.GOV, E.E.FENNER@LaRC.NASA.GOV;
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: JSC Memorial Service
Cc: k.r.credeur@larc.nasa.gov

I talked with Dan Carpenter, Director, Public Affairs, JSC (Mike's counterpart, JSC's organization is called Public Affairs instead of External Affairs) 281-483-3671, 281-483-5111.

They are meeting at 5 p.m. today (Sunday) to plan their Tuesday program. Meeting will last a good hour. He suggested I call back about 6:30 CDT (7:30 EST). Thus far, he can say the following:

The program will be roughly 11:45 a.m. or noon on Tuesday. Modeled after Challenger program. 20-30 minutes max. President Bush and the Administrator will speak, unsure yet about whether any one else. A missing-man formation will pass overhead. The program will be televised to all centers.

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Karen R. Credeur, Ph.D.
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Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

26 401

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Sun, 2 Feb 2003 19:34:47 -0500
To: Donna Gail Roper Lawson <d.g.lawson@larc.nasa.gov>,
Elaine Gause <D.E.GAUSE@larc.nasa.gov>
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: FYI: HQ: Astronaut Memorial Services

| Donna, Elaine, FYI re. contract, Jim Meehan. Karen

Date: Sun, 2 Feb 2003 19:30:42 -0500
To: L.R.RICH@LaRC.NASA.GOV, J.J.MEEHAN@LaRC.NASA.GOV
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: HQ: Astronaut Memorial Services

| FYI on HQ status as of 3:23 today (Sunday). Karen

Date: Sun, 2 Feb 2003 15:23:01 -0500
To: ethames <ethames@mail.hq.nasa.gov>
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Astronaut Memorial Services
Cc: M.P.FINNERAN@LaRC.NASA.GOV, Marny Skora <M.M.SKORA@LaRC.NASA.GOV>, M.PITTS@LaRC.NASA.GOV
Bcc: k.r.credeur@larc.nasa.gov, Public Services Offic:c.w.cleghorn@larc.nasa.gov,
D.E.GAUSE@LaRC.NASA.GOV, C.L.Hancock@LaRC.NASA.GOV, g.s.langevin@larc.nasa.gov,
d.g.lawson@larc.nasa.gov, P.J.VERNIEL@LaRC.NASA.GOV, S.C.WEST@LaRC.NASA.GOV,
E.E.FENNER@LaRC.NASA.GOV;
X-Attachments:

Evelyn Thames, Director Public Services Division, HQ Office of Public Affairs / Code P,
202-358-1719

Evelyn,

Thanks for offering to call me back after your 4 p.m. telecon today. Following are the e-mailed questions as you suggested.

Do you plan any type of memorial for all NASA employees? Among possible options might be if you plan to televise the Washington Cathedral Service to all NASA centers so that they could watch or remotely participate.

Do you plan to televise the Thursday service to all centers?

Do you plan any permanent memorial (perhaps too early to plan given the coming services)?

Do you plan, when, will you release an outline of the planned events: JSC and HQ?

Thus far, I understand:

Tuesday: JSC service on JSC property. Probably outside.

Thursday: Washington Cathedral service. Either nondenominational or having representatives of all three faiths (Hindu, Christian, Jewish). Open to all badged NASA employees (no retirees, no families), Presidents/CEO's of the aerospace community and some # of employees per company or organization, Congress, the White House, and International Community such as ambassadors and heads of space agencies. No event planned jointly with the community. NASA HQ will plan this event and invite others as just noted.

Please correct and let me know anything else that might help us in determining what we do at LaRC.

Thanks Evelyn,

56-402

|| Karen

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Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Sun, 2 Feb 2003 19:36:42 -0500
To: Donna Gail Roper Lawson <d.g.lawson@larc.nasa.gov>, Elaine Gause <D.E.GAUSE@larc.nasa.gov>
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: FYI JM: Update on JSC memorial

Donna, Elaine, I included Jim Meehan on the original sending of this. Karen

Date: Sun, 2 Feb 2003 19:22:37 -0500
To: L.R.RICH@LaRC.NASA.GOV, M.PITTS@LaRC.NASA.GOV, Marny Skora <M.M.SKORA@LaRC.NASA.GOV>, M.P.FINNERAN@LaRC.NASA.GOV, Public Services Offic:c.w.cleghorn@larc.nasa.gov, D.E.GAUSE@LaRC.NASA.GOV, C.L.Hancock@LaRC.NASA.GOV, g.s.langevin@larc.nasa.gov, d.g.lawson@larc.nasa.gov, P.J.VERNIEL@LaRC.NASA.GOV, S.C.WEST@LaRC.NASA.GOV, E.E.FENNER@LaRC.NASA.GOV;J.J.MEEHAN@LaRC.NASA.GOV
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Update on JSC memorial

Dan Carpenter JSC Director Public Affairs (Mike's counterpart) told me the latest on the memorial service on Tuesday.

Time noon CDT (1 p.m. EST) Tuesday 2/4/03
Planning uplink to all NASA Centers so each center can show live to employees
Service about 20 minutes (want to keep it short)
Order not yet decided but I will get it tomorrow afternoon 3-4:30 p.m.
Planning AF band, Color Guard
Planning possible Navy choral group. Ask to sign "God of our Fathers" a favorite Pres. Bush hymn
President Bush, Administrator O'Keefe, and Kent Rominger (Head of Astronaut Corps) will speak
Inviting White House, HQs, few from all centers, leaders from Fed., State, Community
on site at JSC
employees (CS & contractors) invited
3 chaplains (Hindu, Christian, Jewish) if White House allows

Karen

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Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

36-403

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Sun, 2 Feb 2003 19:06:36 -0500
To:
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Fwd: Many thanks

FYI on some of the effort involved this past weekend. Thanks Pam for your help with the Reid Cener and Carole, Elaine, and Donna for questions I reached them on. Karen

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Sun, 2 Feb 2003 18:57:28 -0500
To: L.C.ROSS@larc.nasa.gov, L.D.CREWE@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Many thanks
Cc: m.p.finneran@larc.nasa.gov, k.r.credeur@larc.nasa.gov,
h.k.henry@larc.nasa.gov

Lillian and Larry--

Please forward my thanks and that of everyone in the Office of External Affairs for the support offered Saturday and today. Wes and his crew made themselves immediately available to support news events as a result of the loss of Space Shuttle Columbia.

We were able to participate in briefings and the Q&A portion was flawless.

Special thanks to Leslie Elliott who responded immediately to Saturday morning's call, opened the Reid Conference Center and brought up the appropriate electronics to support news operations.

The contract was quick to provide anything requested. Crewestone is to be congratulated for a job well done.

Many thanks,

marny
--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

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Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Sun, 2 Feb 2003 19:07:17 -0500
To:
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Fwd: Thanks

FYI on some of the effort involved this past weekend. Thanks Pam for your help with the Reid Cener and Carole, Elaine, and Donna for questions I reached them on. Karen

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Sun, 2 Feb 2003 18:48:00 -0500
To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,
c.p.rink@larc.nasa.gov, r.d.allen@larc.nasa.gov,
w.c.uher@larc.nasa.gov, k.w.land@larc.nasa.gov,
j.r.roberts@larc.nasa.gov, g.a.banziger@larc.nasa.gov,
k.j.evans@larc.nasa.gov, m.pitts@larc.nasa.gov,
j.j.meehan@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Thanks
Cc: m.p.finneran@larc.nasa.gov, k.r.credeur@larc.nasa.gov

Thanks to all who helped us get through this difficult event -- those who came in over the weekend as well as those of you who offered to help. Everyone played a role -- either on Center or by telephone.

Keith has done a masterful job as Center spokesperson --both explaining the Center's contributions to Shuttle and current capabilities as well as assisting Mark Saunders in explaining technical issues for our questioning media.

Thanks to Margarette for coming in to manage the telephones and for providing information as it became available. Without her organization and communication skills in seeing to contingency details for each and every mission, we would not have been prepared to respond so quickly.

Kathy has been invaluable in badging and escorting media, mining the Internet for background information, being everywhere at the same time.

Thanks to Kim for helping with the technical aspects of the news briefings and arranging for taping of news reports.

And to Jim Meehan for making his folks available if needed, for his technical expertise and for having anyone's and everyone's phone number available.

Finally, special thanks to Leslie, Wes and his folks -- but that's another e-mail.

It's not over by any means, but this office has accomplished an impressive effort. Thank you.

marny
--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

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Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

Date: Mon, 3 Feb 2003 11:01:57 -0500
To: K.A.BARNSTORFF@larc.nasa.gov, R.D.ALLEN@larc.nasa.gov,
C.P.RINKE@larc.nasa.gov, H.K.HENRY@larc.nasa.gov,
L.R.RICH@larc.nasa.gov, M.PITTS@larc.nasa.gov,
M.P.FINNERAN@larc.nasa.gov, M.M.SKORA@larc.nasa.gov,
A.Z.PARKER@larc.nasa.gov, C.L.HANCOCK@larc.nasa.gov,
C.W.CLEGHORN@larc.nasa.gov, D.G.LAWSON@larc.nasa.gov,
K.R.CREDEUR@larc.nasa.gov, P.J.VERNIEL@larc.nasa.gov,
S.C.WEST@larc.nasa.gov, G.S.LANGEVIN@larc.nasa.gov,
D.E.GAUSE@larc.nasa.gov, E.E.FENNER@larc.nasa.gov,
D.L.BLANCHARD-GROSS@larc.nasa.gov, J.B.CAPLAN@larc.nasa.gov,
a.l.carden@larc.nasa.gov, D.C.CHRISTENSEN@larc.nasa.gov,
E.M.CONWAY@larc.nasa.gov, T.A.DIXON@larc.nasa.gov,
h.a.hunter@larc.nasa.gov, K.W.LAND@larc.nasa.gov,
J.G.LEHMAN@larc.nasa.gov, J.J.MEEHAN@larc.nasa.gov,
j.r.roberts@larc.nasa.gov, J.C.SHANKS@larc.nasa.gov,
w.c.uher@larc.nasa.gov, M.E.WOODCOCK@larc.nasa.gov
From: "Carole L. Hancock" <c.l.hancock@larc.nasa.gov>
Subject: Web Page with Columbia Pictures

The following web page has pictures of Columbia that can be downloaded:

<http://www.webshots.com/g/56/37389-sh.html>

clh

X-Sender: k.r.credeur@express.larc.nasa.gov
X-Priority: 1 (Highest)
Date: Mon, 3 Feb 2003 15:57:16 -0500
To: H.K.HENRY@larc.nasa.gov, L.R.RICH@larc.nasa.gov, M.PITTS@larc.nasa.gov,
Marny Skora <M.M.SKORA@larc.nasa.gov>, M.P.FINNERAN@larc.nasa.gov,
Public Services Offic:Public Services Offic:@larc.nasa.gov,
;;J.J.MEEHAN@larc.nasa.gov
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Cancel 2 wk NASA Speakers re Columbia mishap-URGENT

HQ has asked that we cancel our out-reach speakers for the next two weeks and provided directions in what to say in the future before the accident cause is officially released. Details if wished are below. Karen

Date: Mon, 3 Feb 2003 15:51
To: K.R.Credeur@larc.nasa.gov, J.G.LEHMAN@larc.nasa.gov,
S.C.West@larc.nasa.gov
From: Elaine Gause <D.E.Gause@larc.nasa.gov>
Subject: Fwd: NASA Speakers and the Columbia mishap-URGENT

FYI.

Elaine

X-Sender: dmangel@mail.hq.nasa.gov
Date: Mon, 3 Feb 2003 15:45:02 -0400
To: sajohnson@arc.nasa.gov, lisa.mattox@dfrc.nasa.gov,
rebecca.a.elliott.1@gssc.nasa.gov, marc.a.razze@jpl.nasa.gov,
D.E.Gause@larc.nasa.gov, marcia.cobun@msfc.nasa.gov,
jeanie.maxwell@ssc.nasa.gov, sallie.bilbo@ssc.nasa.gov,
betty.flowers@gssc.nasa.gov,
"Warren-1, Kandy" <Kathleen.Warren-1@kmail.ksc.nasa.gov>,
Cheryl.A.McCallum@grc.nasa.gov
From: "Diane M. Mangel" <dmangel@hq.nasa.gov>
Subject: NASA Speakers and the Columbia mishap-URGENT

Hello All,

Many of you are already receiving requests from the public to have NASA speakers address various aspects of issues relating to the Columbia mishap. Additionally, you have speakers slated to go out in the near future and are concerned about what they can and cannot say if they are asked.

The guidance from the NASA HQ Office of Public Affairs is that you cancel your speaking event for the next 2 weeks. This has also been done for astronaut appearances.

After that time, the general message is that it is too early for anyone to speculate on the incident or on the future of the space program as a result of the incident.

NASA speakers should politely decline discussing it until further notice.

Please call me if you have any questions.

--

Diane M. Mangel
Agency Speakers Bureau Coordinator
Public Services Division

Office of Public Affairs
NASA Headquarters
202/358-1751

--

D. Elaine Gause
Public Affairs Specialist

NASA Langley Research Center
Public Services Office
Mail Stop 154
Hampton, VA 23681-2199

Phone: 757-864-7318, Fax: 757-864-7732
E-Mail: d.e.gause@larc.nasa.gov
Website: www.larc.nasa.gov

--

Karen R. Credeur, Ph.D.
Head, Office of Public Services Phone: 757-864-3307
Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Mon, 3 Feb 2003 15:50:37 -0500
To: Public Services Offic:Public Services Offic:@larc.nasa.gov,
;J.J.MEEHAN@larc.nasa.gov, M.PITTS@larc.nasa.gov,
L.R.RICH@larc.nasa.gov, M.P.FINNERAN@larc.nasa.gov,
H.K.HENRY@larc.nasa.gov, R.D.ALLEN@larc.nasa.gov,
K.A.BARNSTORFF@larc.nasa.gov, C.P.RINK@larc.nasa.gov,
M.M.SKORA@larc.nasa.gov
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Send inquiries re: Space Shuttle Columbia - Mission STS-107

FYI on how to handle any non-media inquiries that might come to you. Send to Cheryl and Bob any non-media inquiries other than condolences (say thanks - Cheryl has a written response if you wish, pass on to Marny any nice comments such as "really appreciate the work that NASA does", "reminded me of the value of NASA" to Marny for possible RN/media use). Cheryl and Bob will send the non-media ones we can't or shouldn't address to Evelyn Thames, Director of the Public Services Division, Code P, HQ. Karen

Date: Mon, 3 Feb 2003 14:03:41 -0500
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: k.r.credeur@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,
r.d.allen@larc.nasa.gov

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

Mike:

I understand. Our help desk is thanking folks for their sympathies, referring to the NASA HQ Columbia site, but holding the ones with suggestions and technical questions to forward to the appropriate office (and telling them that we are doing so).

Do you want me to send those to you or hold until you get info from HQ regarding who in NASA will take and handle these questions?

Regards,

Lynn H

At 10:18 AM 2/3/2003 -0500, you wrote:

Lynn, I've asked D.C. for guidance before responding. I haven't heard back yet. I don't mind so much responding by phone, but want to be careful with e-mails since they can be flashed around the world. I'll let you know when we get guidance.

Thanks.

Mike

Mike:

Both our help desks (for STI and NIX) are getting a lot of inquiries and comments, many of which we can handle. However, do you know what NASA is doing with the ones that request specific information or give suggestions such that we cannot just refer them to the website information? If this being handled via HQ PAO or can you handle them via Langley and is any one specific organization tracking these?

Thanks.

Lynn Heimerl

Date: Mon, 03 Feb 2003 09:33
To: [REDACTED]
From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
Subject: Re: Space Shuttle Columbia - Mission STS-107
Cc: n.l.heimerl@larc.nasa.gov, m.p.finneran@larc.nasa.gov

Dear Mr. [REDACTED]

Thank you for your email. I am forwarding your questions to Michael Finneran here at NASA Langley Research Center since my duties in the STI Program do not put me in a position to know the answers to your questions.

I am confident that the points you mention will be reviewed as NASA determines the causes of the Columbia tragedy and fixes them so they do not occur again. We are all greatly saddened by this loss.

We appreciate you contacting NASA.

Best regards,

Lynn Heimerl
Technical Publications Manager
NASA Scientific and Technical Information Program

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FOIA Exemption (b)(6)**

At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

- 1) It was mentioned on the news that the crew took photographic (film) pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because it was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?
- 2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.

[REDACTED]

--

Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

--

Karen R. Credeur, Ph.D.
Head, Office of Public Services Phone: 757-864-3307
Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

X-Sender: k.r.credeur@express.larc.nasa.gov
 Date: Mon, 3 Feb 2003 17:12:12 -0500
 To: L.R.RICH@larc.nasa.gov, M.PITTS@larc.nasa.gov,
 Marny Skora <M.M.SKORA@larc.nasa.gov>, M.P.FINNERAN@larc.nasa.gov,
 J.J.MEEHAN@larc.nasa.gov, tbridgfo@vasc.org, jkelly@vasc.org,
 khinson@vasc.org, sgates@vasc.org, nkoltun@vasc.org, bsmith@vasc.org,
 ahoilman@vasc.org
 From: Karen Credeur <k.r.credeur@larc.nasa.gov>
 Subject: GRC memorial service plans

Regarding Glenn Research Center's plans:

Its visitor center extended its hours over the weekend. Have had 4 TV stations there. GRC is having an all-hands meeting tomorrow (Tu) after showing the JSC service. GRC's prayer group is putting together the all-hands meeting. It plans to read from cards and letters GRC has received besides anything else the group plans. The Director just told John Hairston, Director of External Programs, that they now need to do a community memorial so GRC will be planning something. John expects tentatively to hold it downtown Cleveland (Ohio).

--

 Karen R. Credeur, Ph.D.
 Head, Office of Public Services Phone: 757-864-3307
 Dep. Head, Office of External Affairs
 M.S. 154, NASA Fax: 757-864-7732
 Langley Research Center
 Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

567-409

To: PSO, Mike Finneran, Marny Skora, "RICH, LEE R" <L.R.RICH@LaRC.NASA.GOV>, "MEEHAN, JAMES J" <J.J.MEEHAN@LaRC.NASA.GOV>
From: Elaine Gause <D.E.Gause@larc.nasa.gov>
Subject: SSC Memorial Service
Cc:
Bcc:
X-Attachments:

FYI:

Stennis Space Center plans to hold a 30-minute memorial service for SSC employees only at 7:45 a.m. on Thursday, Feb. 6. Agenda as follows:

- Welcome - Master of Ceremonies - Robert Lightfoot
- Honor Guard
- Moment of Silence - 7:59 a.m.
- Fly-Over
- Center Director Speech
- Security Officers present Columbia's flag to Center Director
- Raise American flag back to full staff during singing of Star Spangled Banner

Date: Tue, 04 Feb 2003 07:26:19 -0500
From: [REDACTED]
Subject: RE: Invitation to NASA Space Shuttle Launch
To: Elaine Gause <D.E.Gause@larc.nasa.gov>
Importance: Normal
X-Priority: 3 (Normal)

Elaine:

Please know that my thoughts are with all of you there and the tragedy that you are dealing with on a very personal basis.

Sincerely,

[REDACTED]

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FOIA Exemption (b)(6)

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

From: Elaine Gause [mailto:D.E.Gause@larc.nasa.gov]
Sent: Tuesday, January 21, 2003 4:47 PM
To: [REDACTED]
Subject: RE: Invitation to NASA Space Shuttle Launch
Importance: High

Hello [REDACTED]

If [REDACTED] would like to attend the launch of STS-114 scheduled for March 1, I will need his information by February 10.

Thanks,
Elaine

Thank you. I will pass these on to [REDACTED] and get back to you.

[REDACTED]

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

From: Elaine Gause [mailto:D.E.Gause@larc.nasa.gov]
Sent: Tuesday, January 07, 2003 2:57 PM
To: [REDACTED]
Subject: RE: Invitation to NASA Space Shuttle Launch

Hello [REDACTED]

Launches are currently scheduled for March 1, May 23, and July 24.

Elaine

Elaine:

In checking my e-mail I noticed that we had sent you an e-mail back but you must not have received it. We have a Board meeting scheduled around the time of the launch on January 16th so [REDACTED] will be unable to attend. Please let me know when the next couple of launches are scheduled so we can work something out for a future launch. Thank you for all the work you do and I look forward to hearing back from you soon.

[REDACTED]

Executive Assistant

[REDACTED]

[REDACTED]

[REDACTED]

PH: [REDACTED]

FX: [REDACTED]

E-mail: [REDACTED]

[REDACTED]

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FOIA Exemption (b)(6)

Date: Tue, 4 Feb 2003 09:54:37 -0500
To: J.G.LEHMAN@larc.nasa.gov
From: "Carole L. Hancock" <c.l.hancock@larc.nasa.gov>
Subject: Request for Speaker
Cc: "GAUSE, DONITA E" <D.E.GAUSE@larc.nasa.gov>

Joan,

I received the following request at 9:50 this morning:

[REDACTED] Request for speaker at Cub Scout Awards ceremony on Saturday, 2/22. Topic - space
Possible mention that one of the Columbia Astronauts was an Eagle Scout

I know that we have a 2 week moritorium on speakers, but the date on this one puts it right on the line.

clh

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FOIA Exemption (b)(6)**

From: "HASSON, ELIZABETH R. (RENE) (JSC-NA) (NASA)"
<elizabeth.r.hasson@nasa.gov>
To: "Elaine Gause (E-mail)" <D.E.Gause@larc.nasa.gov>,
Gail James
<gjames@mail.arc.nasa.gov>,
"JONAS, STEPHEN B. (STEVE) (JSC-BD) (DCMA)"
<stephen.b.jonas1@jsc.nasa.gov>,
"Lynette Raburn (E-mail)"
<lraburn@mail.arc.nasa.gov>,
"Lynne Wiersma (E-mail)"
<Lynne.M.Wiersma@grc.nasa.gov>,
"Monica Palivoda (E-mail)"
<Monica.M.Palivoda@larc.nasa.gov>,
Sandy Meske
<sandy.meske@dfrc.nasa.gov>
Cc: "URPS, GWENDOLYN F. (GWEN) (JSC-NX) (NASA)"
<gwendolyn.f.urps@nasa.gov>,
"ZELON, BARBARA E. (JSC-NA) (NASA)"
<barbara.e.zelon@nasa.gov>
Subject: STS-107 commemorative
Date: Tue, 4 Feb 2003 15:40:04 -0600

SFA is currently working to design some sort of commemorative item for the employees in tribute of the STS-107 crew and Columbia. If you receive requests for other STS-107 memorabilia from your Senior managers, please forward these requests to Gwen Urps at Gwendolyn.f.urps@nasa.gov. Gwen is handling the SFA activities for the Research Centers in the interim until an official selection has been made. You might cc me as well so that I can help Gwen work through your questions and requests. Lynne at GRC had asked about decals and truly reprinting of these products have not been discussed yet.

I have been thinking about the Research Centers and how much this mission meant to all of you especially. I now we all lost the crew and the hardware, but you all lost the research and years of hard work. My thoughts and prayers are with you and your teams as well. Take care. I'll be in touch soon.

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Tue, 4 Feb 2003 08:44:03 -0500
To: Marny Skora <M.M.SKORA@larc.nasa.gov>
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Fwd: Message of Gratitude
Cc: M.P.FINNERAN@larc.nasa.gov, M.PITTS@larc.nasa.gov

A note from one of our past LARSS students. Karen

X-Originating-IP: [64.152.252.204]
From: [REDACTED]
To: k.r.credeur@larc.nasa.gov
Subject: Message of Gratitude
Date: Tue, 04 Feb 2003 00:33:24 +0000
X-OriginalArrivalTime: 04 Feb 2003 00:33:26.0141 (UTC) FILETIME=[07F792D0:01C2CBE5]

Dear Karen R. Credeur, Ph.D.

Space shuttle Columbia hit close to my home in Texas. Debris and body parts were found twenty miles from my house. My heart goes out to those astronauts and to everyone in the space exploration community who try so hard and sacrifice so much to further our knowledge of the solar system we live in. After having an internship at NASA Langley Research Center I feel connected to the space program. Thank you for that experience.

[REDACTED]

Tired of spam? Get advanced junk mail protection with MSN 8.

--

Karen R. Credeur, Ph.D.
Head, Office of Public Services Phone: 757-864-3307
Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

Information Withheld Under
FOIA Exemption (b)(6)

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Tue, 4 Feb 2003 16:26:22 -0500
To: L.R.RICH@larc.nasa.gov, M.PITTS@larc.nasa.gov,
Marny Skora <M.M.SKORA@larc.nasa.gov>, M.P.FINNERAN@larc.nasa.gov,
A.L.CARDEN@larc.nasa.gov, J.G.LEHMAN@larc.nasa.gov,
J.C.SHANKS@larc.nasa.gov, M.E.WOODCOCK@larc.nasa.gov,
t.a.dixon@larc.nasa.gov, d.c.christensen@larc.nasa.gov,
H.A.HUNTER@larc.nasa.gov, A.N.BLACK@larc.nasa.gov,
J.J.MEEHAN@larc.nasa.gov, J.D.SIMONS@larc.nasa.gov,
N.S.FRIEND@larc.nasa.gov, D.L.BLANCHARD-GROSS@larc.nasa.gov
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Thursday Astronaut Memorial Service

Washington National Cathedral Astronaut Memorial service Th. 10 a.m. We will have NASA TV, Channel 8, in the Reid Center auditorium as well as on our TVs for those who wish to view it. Andrea will make arrangements with Bob Gates. Thanks Andrea! Karen

Date: Tue, 4 Feb 2003 16:05:32 -0500
To: A.L.CARDEN@LaRC.NASA.GOV
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Info on Thursday's memorial

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.

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.

--

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

--

Karen R. Credeur, Ph.D.
Head, Office of Public Services Phone: 757-864-3307
Dep. Head, Office of External Affairs

M.S. 154, NASA
Langley Research Center
Hampton, VA 23681-0001

Fax: 757-864-7732

E-mail: k.r.credeur@larc.nasa.gov

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Tue, 4 Feb 2003 17:51:37 -0500
To: L.R.RICH@larc.nasa.gov, M.PITTS@larc.nasa.gov,
Marny Skora <M.M.SKORA@larc.nasa.gov>, M.P.FINNERAN@larc.nasa.gov,
J.J.MEEHAN@larc.nasa.gov
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: ARC Memorial Service

Mike Mewhinney PAO 650-604-3937. Ames Research Center called its service an "Ames Family Gathering". Held it Monday 2:30. Just for employees, no media, no public. Employees were invited to be at the flag pole. In a semi-circle. Acting Director hosted. Employees invited to speak about feelings and thoughts at mikes. Mike heard about 2,000 employees came. In the program, talked more about Kalpana Chawla than other astronauts because speakers knew her. Picture of all 7. Wreaths. Quiet music. Read the poem "High Flight". Moment of silence. Are signing a book with feelings, comments, names to send to JSC. Showed JSC Memorial Service in the cafeteria and TVs today. Media asked to come out to watch and talk with some employees. ARC approved. Employees cautioned not to speculate. All worked well.

--

Karen R. Credeur, Ph.D.
Head, Office of Public Services Phone: 757-864-3307
Dep. Head, Office of External Affairs
M.S. 154, NASA Fax: 757-864-7732
Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

56-416

X-Sender: c.w.cleghorn@pop.larc.nasa.gov
X-Priority: 2 (High)
Date: Wed, 5 Feb 2003 10:47:59 -0500
To: r.d.allen@larc.nasa.gov, l.r.rich@larc.nasa.gov,
k.a.barnstorff@larc.nasa.gov, m.p.finneran@larc.nasa.gov,
i.gilman@larc.nasa.gov, h.k.henry@larc.nasa.gov,
k.r.credeur@larc.nasa.gov, c.l.hancock@larc.nasa.gov,
s.c.west@larc.nasa.gov, d.g.lawson@larc.nasa.gov,
M.PITTS@larc.nasa.gov, C.P.RINK@larc.nasa.gov, m.m.skora@larc.nasa.gov,
p.j.verniel@larc.nasa.gov, e.e.finner@larc.nasa.gov,
c.w.cleghorn@larc.nasa.gov, G.S.LANGEVIN@larc.nasa.gov,
d.e.gause@larc.nasa.gov, a.z.parker@larc.nasa.gov
From: Cheryl Cleghorn <c.w.cleghorn@larc.nasa.gov>
Subject: Columbia Condolence Cards Address/Children's Fund

Just in case you receive inquiries regarding where the public can send condolence cards regarding Columbia STS-107, the address is:

Mr. Kent Rominger
Astronaut Office
NASA Johnson Space Center
2101 NASA Road 1
Code CB
Houston, TX 77058

FYI! - Children's Fund

I have received a few inquiries from the public wanting to donate money to the Columbia crew's children. Some of the inquiries mentioned a fund called the "Space Shuttle Children's Fund" which was also announced on the Larry King Live show last night with a P.O. Box address in Washington, D.C. I spoke with HQ this morning regarding this fund. HQ is looking into it, but as far as they can tell, this is not a NASA sponsored fund. They are trying to find out where it originated. HQ will call me back when they have more info on this fund or wants me to call them if I receive more info on the fund.

Cheryl

X-Sender: d.g.lawson@pop.larc.nasa.gov
Date: Wed, 5 Feb 2003 12:41:54 -0500
To: M.P.FINNERAN@larc.nasa.gov, M.M.SKORA@larc.nasa.gov,
K.R.CREDEUR@larc.nasa.gov, <J.J.Meehan@larc.nasa.gov>
From: Donna Lawson <d.g.lawson@larc.nasa.gov>
Subject: Fwd: Two Week Moratorium on Participation in Outreach Events
Cc: M.E.WOODCOCK@larc.nasa.gov, J.G.LEHMAN@larc.nasa.gov,
D.E.GAUSE@larc.nasa.gov, G.S.LANGEVIN@larc.nasa.gov,
P.J.VERNIEL@larc.nasa.gov

All--

HQ has placed a two-week moratorium on outreach events that ends February 18. The only activity we have during this time is supporting a speaker at the VASC for Engineers Week. I understand from talking with Joan that we are continuing to send out scheduled speakers as long as they are comfortable and their talk isn't related to STS 107. As such, we will support the speaker at the VASC. Please let me, Joan and Meghan know if any decision is made to the contrary.

Thank you,

Donna

X-Sender: jhull@mail.hq.nasa.gov
Date: Wed, 5 Feb 2003 08:57:27 -0700
To:
From: Jim Hull <jhull@hq.nasa.gov>
Subject: Two Week Moratorium on Participation in Outreach Events
Cc: Evelyn Thames <ethames@mail.hq.nasa.gov>,
Sharon Lord <slord@mail.hq.nasa.gov>,
Nora Normandy <nnormand@mail.hq.nasa.gov>

Dear Exhibit Coordinators,

Out of respect for our fallen Astronauts aboard the Space Shuttle Columbia, NASA Headquarters has issued a moratorium on participation in Exhibit/Outreach events for the next two weeks. After February 18, 2003, we will continue our Outreach efforts unless instructed otherwise. Headquarters will provide talking points for Exhibit/Outreach staffers addressing the general public.

IN ALL CASES, DO NOT PROVIDE INTERVIEWS WITH THE MEDIA. ALL MEDIA QUESTIONS MUST BE FORWARDED TO PAO.

In some cases, there may be a compelling reason to continue participation. Please confer with Headquarters before continuing the event. Be sure to remind all NASA Staffers in exhibits or special events that they should not provide interviews and to handle all public inquiries about the tragedy in a forthright manner and without speculation. "I don't know" is an acceptable answer and in almost all cases, correct.

If you have any questions, please feel free to contact me.

Warm Regards,

Jim

--

Jim Hull

Manager, Exhibits and Artifacts

NASA Headquarters

300 E Street SW

Washington, DC 20546

Voice: 202-358-2192

Fax: 202-358-4332

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Wed, 5 Feb 2003 17:55:23 -0500
To: J.J.MEEHAN@larc.nasa.gov
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Fwd: Shuttle debris

If anyone calls and tells you that they have shuttle debris, the person should contact their local authorities - the police unless their city / town / rural county has let all know to contact someone else, e.g., local FBI, local NTSB, ... Police is the general place to send them. If they say they think they will instead keep it, tell them the below. Karen

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Wed, 5 Feb 2003 13:02:24 -0500
To: h.k.henry@larc.nasa.gov, k.a.barnstorff@larc.nasa.gov,
i.gilman@larc.nasa.gov, c.p.rink@larc.nasa.gov,
r.d.allen@larc.nasa.gov, w.c.uher@larc.nasa.gov,
k.w.land@larc.nasa.gov, j.r.roberts@larc.nasa.gov,
g.a.banziger@larc.nasa.gov, k.j.evans@larc.nasa.gov,
m.pitts@larc.nasa.gov, k.r.credeur@larc.nasa.gov,
l.r.rich@larc.nasa.gov, a.z.parker@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Shuttle debris

Take heed

Date: Wed, 5 Feb 2003 13:01:16 -0500
To:
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: Fwd: arrests and press conference
Cc:
Bcc:
X-Attachments:

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

X-Sender: rjacobs@mail.hq.nasa.gov
Date: Wed, 05 Feb 2003 12:28:12 -0500
To: News-Chiefs@hq.nasa.gov, PAO-Directors@hq.nasa.gov
From: Robert Jacobs <rjacobs@hq.nasa.gov>
Subject: Fwd: arrests and press conference
Sender: owner-news-chiefs@lists.hq.nasa.gov

FYI... from the NASA IG.

Word is the local attorney general wants to make an example... but that the IG here will offer a 24 hour amnesty. If you have material now... turn it in. Otherwise, if we catch you with it, you're in trouble.

But this will be the first arrest.

bj

X-Sender: pshawcro@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Wed, 05 Feb 2003 11:43:26 -0500
To: Bob Jacobs <rjacobs@mail.hq.nasa.gov>,
Doc Mirelson <rmirelso@mail.hq.nasa.gov>
From: Paul Shawcross <pshawcro@hq.nasa.gov>
Subject: arrests and press conference

Bob, Doc -

Latest news is that there will be a press conference at 1 pm (2 pm Eastern) in Lufkin to announce 2 arrests for taking debris. NASA OIG is not the lead agency, but we will have some agents there, one of whom will mention the misuse of debris web page. Let me know if you need any more information.

- Paul

Paul Shawcross
Executive Officer
NASA Office of Inspector General
Voice: (202) 358-2558
Fax: (202) 358-2767
paul.shawcross@hq.nasa.gov

Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
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Hampton, VA 23681
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Karen R. Credeur, Ph.D.
Head, Office of Public Services Phone: 757-864-3307
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Langley Research Center
Hampton, VA 23681-0001 E-mail: k.r.credeur@larc.nasa.gov

College of William and Mary

Office of University Relations

(757) 221-2624

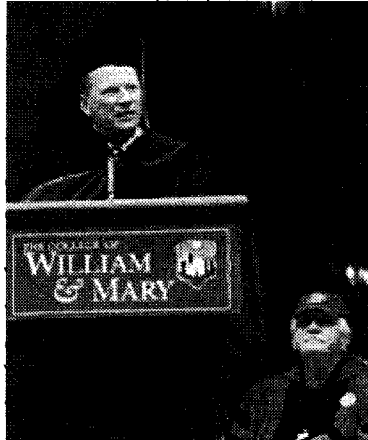
Statement by William and Mary President Timothy J. Sullivan on the Loss of the Space Shuttle and Astronaut David Brown (William and Mary Class of 1978)

Like the entire nation, William and Mary is stunned and saddened by the loss of the NASA space shuttle Columbia. Our sense of loss is heightened by the fact that on board the shuttle was the College's first astronaut, David Brown, a member of the Class of 1978. Dave's dedication to public service, commitment to scientific investigation and love of his alma mater will always endure as a high standard for our students. He was in every way an American hero who died as he lived — trying to make this world a better place.

Stories from the William and Mary News

W&M's Astronaut Challenges Students to Have Vision, Accept Risks

From the Friday, September 6, 2002 issue.



on speaker

ronaut, Dave Brown ('78), told the Class of 2006 that the
ace resulting in a catastrophic accident were nothing
n by the founders of the College in the 1690s.

made five trips and 10 crossings of the Atlantic Ocean that
ding of the university," Brown said. Each voyage was
e wilderness of Virginia at that time was risky. It was
,"We're not only going to build a university here, but
ing to match, one that's world class," Brown said.

Dave Brown speaks at the convocation ceremony in the Wren Courtyard. Photo by Tim Jones. [See more photos](#)

Referring to NASA estimates that one out of every 200 to 300 shuttle launches will end with a loss of the craft and/or the crew, Brown said, "I think my chances of making it back are far better than were Blair's," each time he sailed.

He encouraged students to take similar risks, the kind that prepare one to become an astronaut, the kind that enable colleges to be built that can stand for more than 300 years. Have a "big vision," accept the "risks" and be "persistent in pursuit of goals," he told those sitting in the audience.

"Speaking to the Class of 2006, it's not for me to tell you what vision you should have or might have or shouldn't have. I can tell you, as a guy who stands here, that I do have a vision. I would like to go to Mars. Unfortunately, that will probably be beyond my career, so that one is available for you," he told the students.

About the Wren Building and the Alumni Association

The Wren Building is an image that, I'm going to tell you now, will be with you for the rest of your lives. When I went to NASA, I had to submit a security form that asked for 15 previous addresses in the past 15 years. I had 15. Fifteen moves in 15 years, and I don't know how they did it, but every single move, I got mail from the alumni association, and on every piece of paperwork, there was some part of the Wren Building--if not the whole thing, then just the wind-vane that you see up top. So, I'm telling you now, this image that you see in front of you is here to stay--they will find you; I don't now how they do it, they just do.

The Wren in the Wilderness

How did this Wren Building, this thing that's been following me around for all these years, get here? There was a day when this, in fact, was wilderness. There was a day when ... this was nothing but forest, and someone said, 'We're not only going to build a university here, but we're going to build a building to match, one that's worldclass and will last for 300-plus years. ... That was a pretty audacious thing to do.

James Blair and NASA catastrophic loss calculations

If you pull out the History of the College, the story is about James Blair. He was a fellow who was born in Scotland, moved to London, came here--sailed the Atlantic when he was only 30 years old. You know, I'm about to fly in the space shuttle, and it will be the 112th mission. We've already lost one space shuttle--one out of 112 so far. If you took 112 ships in 1685 and left England, I don't know the number, but my guess is that a lot of them wouldn't make it across the Atlantic. ... Over his life, James Blair made a total of 11 crossings over the Atlantic Ocean. Five trips, 10 crossings dedicated to the university. I don't know what the odds are for that, but I think I have a better chance of making my ride in the space shuttle than he did [making his rides] back then.

Wren as image of the future

When I stand in this courtyard, I don't so much think any more of this building as being a quaint image of the past. What I think about is that this school got started because there was someone with big vision, someone who lived with daily risk, someone who chose to take even more risks, and someone who was persistent. And it was not only James Blair. There were many more. There had to be because you don't make something like this by yourself.

Speaking to the Class of 2006

Now I'm speaking to the Class of 2006, and it's not for me to tell you what vision you should have or might have or shouldn't have. ... I can tell you, as a guy who stands here, that I do have a vision. I want to do scientific research off of the planet. I want to do that with international partners, the largest among them the Russians, who were my enemies when I joined the Navy. And the last thing I want to do, I can tell you, is that I would like to go to Mars. ... I can tell you though that the vision of going to Mars--I hate to say this--will probably be beyond my career, so that one is available to someone who would like to pick it up. If it is not someone in this group, it will be someone in your peer group. That one is available.

First Green and Gold Astronaut To Fly Space Shuttle Next Year

Dave Brown (B. A. '78) was an acrobat on Cliff Gauthier's gymnastics squad, performed in the Busch Gardens circus, earned his private pilot's license shortly after graduation, and eventually became a Naval test pilot qualified to fly the F-18, the fastest jet in the fleet. In short, Brown is thoroughly committed to flying through the air.

But however high Dave has soared in the past, it will be nothing compared to the ride he will take next year when he becomes the first William and Mary graduate to fly in NASA's space shuttle. Brown -- the *first* Green and Gold astronaut -- will serve as flight engineer and mission specialist on STS-107 currently scheduled to blast off in June from the Kennedy Space Center.

I was a young boy during the days of the Gemini and Apollo missions, and I always thought that being an astronaut was the coolest thing that you could do, said Brown, but I could never see a path to that opportunity. It didn't occur to me that I could ever achieve that goal."

So instead of directly pursuing his dream, Dave enrolled at William and Mary in 1974, and started down a pathway that has led to three separate careers. At the college, he majored in biology, served as a resident advisor, and performed as an acrobat on the gymnastic squad. After graduation, he took a year off to learn to fly and to explore Alaska, before heading to medical school at Eastern Virginia Medical School in Norfolk.

I assumed that I would become a general practitioner, but after graduation in 1982, recalled Brown, I decided to combine my love of flying with my career choice and became a Navy flight surgeon.

And then along came career number two. After serving on the aircraft carrier USS Carl Vinson and being recognized as Navy Operational Flight Surgeon of the Year in 1986, he became the only physician in ten years to be chosen for flight training. He was designated a Naval aviator in 1990, ranking number one in his class. For the next five years he flew attack and fighter aircraft from the decks of carriers, and served as a Navy test pilot. He has now logged over 2,700 flight hours with 1,700 of those in high performance military aircraft.

I had long forgotten my boyhood dreams of flying in space, until I got a call one day from an astronaut, who suggested that I should join the program. It had simply never occurred to me. It had to be suggested to me by someone else. So today, the primary message I deliver to the groups to which I talk is Never underestimate yourself. Go after those dreams, said Brown.

The fledgling astronaut reported to the Johnson Space Center in August 1996, where he completed two rigorous years of training that led to his earning certification to fly aboard the shuttle and staff the International Space Station. And that, of course, is career number three, in which he is now fully engaged.

When you come here to be an astronaut, you feel that you simply can't know enough. You're called on to conduct scientific experiments in virtually every field, you have to operate very complex computers, you need to understand the physics of flight. That's where a strong liberal arts education like the one I received at William and Mary is so valuable. The broad liberal arts scope prepares you to undertake almost anything, said the astronaut.

Although he once thought about pursuing a double major in computer science, as well as biology, Brown decided -- in typical William and Mary fashion -- to sample some non-scientific fields. He took several English courses, and even tried his hand at drawing. He confesses, however, that his artistic endeavors fell a bit short of the customary excellence he enjoyed in his primary field -- biology. For that he credits Professor Emeritus Brad Courson, who demanded nothing less than perfection.

Astronaut training has also led me to an appreciation of what William and Mary's strong student-athlete tradition has contributed to my career. The physical and intellectual discipline I learned from Coach Gauthier put me way ahead. In the confines of the space shuttle, teamwork is essential, and I feel well prepared from that perspective, as well, said Brown. My service as an resident advisor and time with Vice President Sam Sadler also helped me establish an appreciation for teamwork.

According to the astronaut, life aboard the shuttle is planned as carefully as trapeze acts in a circus, with time allotted in five-minute segments throughout the course of the flight. As a mission specialist, Dave will work primarily in a scientific laboratory set up in the shuttle's payload area. There he will conduct multiple experiments designed to explore topics ranging from the effects of solar radiation on the earth's ozone layer to how human bodies lose calcium in space.

We will be multitasking from beginning to end. One moment, I'll be studying dust storms rolling out over the Atlantic from central Africa, and the next I'll be examining how combustion occurs in the absence of gravity. That's where the liberal arts background comes into play, said Dave.

In addition to these responsibilities, Dave, who is still a Navy captain, will sit on the flight deck during the shuttle's take off. As a flight engineer, he sits just behind the pilot to help monitor vital instruments and switches.

We are trained to deal with any problem that might develop during the initial stages of the flight. We go over multiple scenarios and are trained to deal with all eventualities, said the astronaut. But perhaps the hardest part of the flight for me will be going to sleep five hours after reaching orbit. That's my schedule, but I know that it will be hard to overcome the excitement.

And will there be any time for looking out of the window? Now that *is* the payoff. The big reward for flying, other astronauts have told me, is the stunning view of Earth you have. The views of the Moon and the stars are pretty much the same as they are from Earth, but looking back at our planet is stunning.

Actually, Dave will have very little free time to Earth-gaze. The intensive schedule calls for brief periods of free time immediately before and after eight-hour periods of sleep. And then, it's off to the old sweatshop back in the payload bay.

When he's relaxing back on Earth, Dave spends much of his time flying in one of two airplanes he owns. To have immediate access to the sky, he bought a house next to a runway.

Some people like to live near a golf course. Well, I enjoy flying, and I live in a development of 55 homes near Houston that surrounds a runway. All I have to do is to walk to the hanger, taxi out and take off.

And precisely where is Dave Brown likely to take off to next?

I am not sure about career number four. It will have to be something that is both interesting and challenging. I thrive on doing new things, for which I was well prepared by a William and Mary education.

Sidebar

Ties that Bind

William and Mary's first astronaut cited three individuals, who were instrumental in his college career, although there were many others who affected his life.

The first is Professor of Biology, Emeritus Bradner W. Coursen, who, said Brown, set a high standard of excellence in his courses. Appointed to the faculty in 1968, Coursen taught classes in

The astronaut still keeps in touch with his gymnastics coach, Cliff Gauthier, who remembers Brown as a fierce competitor. Brown was an acrobat who helped lead the Tribe squad to xxxxxxxxxxxx championships during his four years.

The third

Date: Sat, 01 Feb 2003 12:19:55 -0600
From: "Dottie Wikan" <Dwikan@wvec.com>
To: <k.a.barnstorff@larc.nasa.gov>
Subject: Hey Kathy

Hey, Kathy.

This is just awful.

I'm sorry for even asking, but is there any statement coming out of you folks today?

If so, can I get a copy forwarded to me?

Is NASA-Langley have any involvement in the investigation?

Did David Brown or any of the astronauts ever come to Hampton?

the usual stuff, yo uknow the questions.

Thanks

Dottie

X-Sender: k.r.credeur@express.larc.nasa.gov
Date: Mon, 3 Feb 2003 15:50:37 -0500
To: Public Services Offic:Public Services Offic:@larc.nasa.gov,
;;J.J.MEEHAN@larc.nasa.gov, M.PITTS@larc.nasa.gov,
L.R.RICH@larc.nasa.gov, M.P.FINNERAN@larc.nasa.gov,
H.K.HENRY@larc.nasa.gov, R.D.ALLEN@larc.nasa.gov,
K.A.BARNSTORFF@larc.nasa.gov, C.P.RINK@larc.nasa.gov,
M.M.SKORA@larc.nasa.gov
From: Karen Credeur <k.r.credeur@larc.nasa.gov>
Subject: Send inquiries re: Space Shuttle Columbia - Mission STS-107

FYI on how to handle any non-media inquiries that might come to you. Send to Cheryl and Bob any non-media inquiries other than condolences (say thanks - Cheryl has a written response if you wish, pass on to Marny any nice comments such as "really appreciate the work that NASA does", "reminded me of the value of NASA" to Marny for possible RN/media use). Cheryl and Bob will send the non-media ones we can't or shouldn't address to Evelyn Thames, Director of the Public Services Division, Code P, HQ. Karen

Date: Mon, 3 Feb 2003 14:03:41 -0500
To: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>
From: "Michael P. Finneran" <m.p.finneran@larc.nasa.gov>
Subject: Re: Fwd: Re: Space Shuttle Columbia - Mission STS-107
Cc: k.r.credeur@larc.nasa.gov, c.w.cleghorn@larc.nasa.gov,
r.d.allen@larc.nasa.gov

Lynn, send them to Bob Allen and Cheryl Cleghorn. They will coordinate. The non-media public inquiries we can't answer will be send to Evelyn Thames in Code P. That's the direction I just got on a telecon.

Thanks for helping.

Mike

Mike:

I understand. Our help desk is thanking folks for their sympathies, referring to the NASA HQ Columbia site, but holding the ones with suggestions and technical questions to forward to the appropriate office (and telling them that we are doing so).

Do you want me to send those to you or hold until you get info from HQ regarding who in NASA will take and handle these questions?

Regards,

Lynn H

At 10:18 AM 2/3/2003 -0500, you wrote:

Lynn, I've asked D.C. for guidance before responding. I haven't heard back yet. I don't mind so much responding by phone, but want to be careful with e-mails since they can be flashed around the world. I'll let you know when we get guidance.

Thanks.

Mike

Mike:

Both our help desks (for STI and NIX) are getting a lot of inquiries and comments, many of which we can handle. However, do you know what NASA is doing with the ones that request specific information or give suggestions such that we cannot just refer them to the website information? If this being handled via HQ PAO or can you handle them via Langley and is any one specific organization tracking these?

Thanks.

**Information Withheld Under
FOIA Exemption (b)(6)**

Lynn Heimerl

Date: Mon, 03 Feb 2003 09:33

To: [REDACTED]

From: Lynn Heimerl <n.l.heimerl@larc.nasa.gov>

Subject: Re: Space Shuttle Columbia - Mission STS-107

Cc: n.l.heimerl@larc.nasa.gov, m.p.finneran@larc.nasa.gov

Dear [REDACTED]

Thank you for your email. I am forwarding your questions to Michael Finneran here at NASA Langley Research Center since my duties in the STI Program do not put me in a position to know the answers to your questions.

I am confident that the points you mention will be reviewed as NASA determines the causes of the Columbia tragedy and fixes them so they do not occur again. We are all greatly saddened by this loss.

We appreciate you contacting NASA.

Best regards,

Lynn Heimerl
Technical Publications Manager
NASA Scientific and Technical Information Program

At 06:55 PM 2/1/2003 -0800, you wrote:

Dear: Lynn Heimerl,

Please answer the following questions:

1) It was mentioned on the news that the crew took photographic (film) pictures of the fuel tanks and the damage from the foam break off during liftoff. They couldn't view this, because if was on film. Why didn't NASA take digital film or digital movies that could be analyzed immediately, and even transmitted back to headquarters over a data link ?

2) If NASA did expect there was a problem with the tiles, couldn't NASA have sent the shuttle up to the space station, gotten a rescue shuttle up to

them, and returned in a different shuttle ? Alternatively, couldn't NASA send up another shuttle to meet with Columbia and do a crew transfer in space ?

Thank you for your comments.



--
Michael Finneran
Head, Office of External Affairs
NASA Langley Research Center
Mail Stop 115
Hampton, Va. 23681

Information Withheld Under
FOIA Exemption (b)(6)

(757) 864-6124 / fax 6333
Cell phone: (757) 344-4611

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

--

Karen R. Credeur, Ph.D.
Head, Office of Public Services
Dep. Head, Office of External Affairs
M.S. 154, NASA
Langley Research Center
Hampton, VA 23681-0001

Phone: 757-864-3307

Fax: 757-864-7732

E-mail: k.r.credeur@larc.nasa.gov

X-Sender: m.m.skora@express.larc.nasa.gov
Date: Thu, 6 Feb 2003 11:46:49 -0500
To: k.a.barnstorff@larc.nasa.gov
From: Marny Skora <m.m.skora@larc.nasa.gov>
Subject: ACTION: weird question from aj
Cc: h.k.henry@larc.nasa.gov

Kathy--

Will you work AJ's query? I am quite sure that persons are able to purchase space articles from government excess. I don't know if there are records kept that could trace a certain article back to Columbia.

Also, I suspect such purchases are legal -- but get that OK from our legal folks.

Thanks,

marny

From: <AHostetler@timesdispatch.com>
To: m.m.skora@larc.nasa.gov
Subject: weird question from aj
Date: Thu, 6 Feb 2003 10:56:42 -0500

Marny: We've received a call from an area man who claims to have purchased from NASA, over the years, pieces from space missions, including pieces from Columbia's recent HST mission. Is this possible and legal?

thanks,
aj

A.J. Hostetler
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804-775-8059 (fax)

Notebook.jpg_2.jpg

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Marny Skora
Head, Office of Public Affairs
NASA Langley Research Center
Mail Stop 115, Bldg 1219, Rm 303
11 Langley Blvd.
Hampton, VA 23681
(757) 864-6121

From: <AHostetler@timesdispatch.com>
To: k.a.barnstorff@larc.nasa.gov
Subject: RE: Legal question about space item ownership
Date: Thu, 6 Feb 2003 13:59:35 -0500

thanks, Kathy

aj

A.J. Hostetler
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ahostetler@timesdispatch.com <<mailto:ahostetler@timesdispatch.com>>
804-649-6355 (o)
804-775-8059 (fax)

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

From: Katherine A. Barnstorff [<mailto:k.a.barnstorff@larc.nasa.gov>]
Sent: 2/6/2003 1:29 PM
To: Hostetler, A.J.
Cc: m.m.skora@larc.nasa.gov
Subject: Legal question about space item ownership

Hi AJ-

Marny was absolutely right in her earlier e-mail to you. The NASA Langley Office of the Chief Counsel says it can be legal for NASA items to be excessed and sold to the public. There is a procedure that NASA follows before property is excessed and then sold.

It is the responsibility of the owner to verify the authenticity and any legal ownership questions of a specific item.

Kathy

--

Kathy Barnstorff
Public Affairs Office
Mail Stop 154
1 West Reid St
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