

General Information

Callers with reports of debris should be told to give the report to us and then call their local authority. Most important – tell them **Do not touch** the debris. The debris should not be radioactive but could be chemically contaminated. If a piece is larger than 2ft. x 2ft. then call the Texas Department of Public Safety or if out of state then their State Police.

If a police department calls and it is a finding: Record the report in its entirety. Ask them to report findings to Lufkin FBI at 936-699-1000. On the report form, make the following notation: "I have advised this authority to contact the FBI office in Lufkin at 936-699-1000." Take the report immediately to the logger in room 312. Do not give this telephone number to anyone but the police authorities.

If a police department calls and it is a debris finding: Take a full report of the findings, ask them to secure the debris to the best of their ability.

If in Texas or Louisiana: Tell them to notify the Department of Public Safety at the Lufkin EOC at 936-699-103

If in any other state: Tell them to notify Lufkin FEMA at 936-699-1032 or 936-699-1034 and call their local EP

Exceptions: For any police dept. in other states for large, looks significant, intact, thought hazardous or possibl

Barksdale AFB at 318-456-7441.

If someone has a video or photos to send digitally or by postal: Go to the logger and acquire a log number. Give the log number to the caller and tell them to reference that number on any e-mails, photos, or videos.

If someone calls volunteering materials or their service: Ask them to call 1-800-203-7001. This line is only open 8:00am – 5:00 CST. **Do not publicize this number to the media.**

If someone calls to retract a previous report: Record date of original call, original caller's name and description of debris.

If someone calls to report additional debris: Record original report date and time to help the logger correlate reports.

If someone calls and wants to bring in debris on site JSC: Inform them they must first go to Building 421 Receiving

If someone from the media is calling: Tell them to call the JSC Public Affairs Office at 281-483-5111.

If this call is a claim to property or personal injury: Flag the report as a Legal claim. Please record only their **name, address and phone number**. Advise the caller that someone from the legal department will contact them to provide caller with the proper forms. Please do **not** ask questions regarding the specifics of their claim or discuss any additional details and/or information with the caller.

If someone wants to make scholarship contributions: Challenger Center for Space Science Education, 1055 North Fairfax St., Suite 100, Alexandria, VA 22314, (703) 683-9740 or JSC Federal Credit Union, Columbia Memorial Fund P.O. Box 58346, Houston, TX 77258 or in person at any JSC Federal Credit Union Branch Office. (1-800-940-0708)

Medical management: Information for people who feel that they have been exposed to hazardous or toxic substances from the Space Shuttle Columbia:

There is an Occupational Health official in this room in the EOC. If you receive a medical, hazardous material, or radiation call, ask for this person. They will screen the call.

Environmental questions: If the caller has concerns about environmental contamination/pollution (air, water, soil, vegetation): After you have completed your written report, refer the caller to the EPA rep at the Debris & Center in Lufkin, TX at 936-699-1032. On the report form, make the following notation: "I have advised this caller to contact the EPA office in Lufkin at 936-699-1032."

Numbers to know:

JSC Emergency Operations Center Fax: 281-483-0002 (room 3007) 281-483-4215 (room 3006)

Debris Report: 281-483-3388

Copier Location: Room 3016

David King, 12:53 PM 2/7/2003 -0800, Re: Fwd: STS-107 Caller Information

X-Sender: dking@mail.arc.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 5.1.1
Date: Fri, 07 Feb 2003 12:53:30 -0800
To: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
From: David King <david.b.king@nasa.gov>
Subject: Re: Fwd: STS-107 Caller Information

Jon

Thanks. Forwarded to both Bob Navarro and Laura.

David

At 03:52 PM 2/7/2003 -0500, you wrote:

Your copy for Ms Doty as promised on the SMA telecon. Regards, Jon

X-Sender: jmullin@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Fri, 07 Feb 2003 14:52:51 -0500
To: HCAT@hq.nasa.gov
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: STS-107 Caller Information
Cc: a.h.phillips@larc.nasa.gov, aodonogh@hq.nasa.gov, alee@hq.nasa.gov,
bdolci@arc.nasa.gov, cathy.miller@msfc.nasa.gov,
tsabikos.a.papadimitris.1@gsfc.nasa.gov, chunt@mail.arc.nasa.gov,
clyde.dease@ssc.nasa.gov, dhall@wsf.nasa.gov,
Eric.G.Fuller@jpl.nasa.gov, Ezra.R.Abrahamy@jpl.nasa.gov,
frederick.w.battle.jr@jpl.nasa.gov, h.w.beazley@larc.nasa.gov,
jack_vehil@mail.dfrc.nasa.gov, dennis.g.perrin1@jsc.nasa.gov,
john.griggs@MV.nasa.gov, luequention.wilkins@grc.nasa.gov,
lengelbert@mail.arc.nasa.gov, michael.moore@maf.nasa.gov,
probles@nmo.jpl.nasa.gov, sonja.alexander@hq.nasa.gov,
stephen.a.turner@maf.nasa.gov, terry.m.potterton.1@gsfc.nasa.gov,
tom.ambrose@dfrc.nasa.gov, wayne.kee-1@ksc.nasa.gov,
Robert.Turner@hq.nasa.gov, howard.kass@hq.nasa.gov, alee@hq.nasa.gov,
william.barry-1@ksc.nasa.gov, odomingu@hq.nasa.gov,
Catherine.Angotti@hq.nasa.gov, mmcneill@mail.hq.nasa.gov,
tspagnuo@pop200.gsfc.nasa.gov, Patrick.A.Hancock.1@gsfc.nasa.gov,
Jim.Carter@msfc.nasa.gov, Edwin.Jones@msfc.nasa.gov,
john.rodgers@hq.nasa.gov, bnotley@mail.arc.nasa.gov,
gregory.l.ellis.1@gsfc.nasa.gov, t.f.middleton@larc.nasa.gov,
william.c.roeh1@jsc.nasa.gov, phillip.j.nessler.1@gsfc.nasa.gov,
pete.allen@msfc.nasa.gov, jlabrecq@hq.nasa.gov, cherbert@hq.nasa.gov,
astowes@hq.nasa.gov, Ernest.M.Graham@msfc.nasa.gov,
dan.thomas@hq.nasa.gov, g.m.watson@larc.nasa.gov,
rdilustr@mail.hq.nasa.gov, hstewart@hq.nasa.gov, speyton@hq.nasa.gov,
jlemke@hq.nasa.gov, whill@hq.nasa.gov, michael.stevens-2@ksc.nasa.gov,
jloyd@hq.nasa.gov, prichard@hq.nasa.gov,

robert.t.gaffney1@jsc.nasa.gov, james.o.cheek@usago.ksc.nasa.gov

The enclosed guidance is provided by the Johnson Space Center Emergency Operations Center to help assure a standardized process of Columbia debris collection for the Agency. As the debris fields have extended to many more areas, it is necessary to retransmit some established preferred practices to those centers that may require the information. Please read the process in detail, as it will help assure a thorough investigation. Your cooperation is appreciated.

Regards, Jon

From: "GAFFNEY, ROBERT T. (JSC-JA171) (NASA)" <robert.t.gaffney@nasa.gov>

To: "Jon Mullin" <jmullin@hq.nasa.gov>

Subject: STS-107 Caller Information

Date: Fri, 7 Feb 2003 11:49:03 -0600

X-Mailer: Internet Mail Service (5.5.2448.0)

The attached forms contain the information sheet (JA14 INFORMATION SHEET FOR STS-107 REPORTS OF DEBRIS/) the JSC EOC is using to

collect information provided by any source via telephone or fax. When the other centers receive calls or walk-ins, it would be great if the report form could be used and then faxed directly to our operation in Houston at 281-483-5680. Before faxing the report, please call the JSC EOC at 281-483-9780 to get a log number. PLEASE NOTE: THE LOG NUMBER SHOULD ALSO BE ADDED TO ANY DEBRIS BAGS/ENVELOPES/PACKAGES AS WELL AS REFERENCED IN ANY

IMAGERY E-MAILS. So if a citizen or agency says they have some stuff and want to mail it or e-mail it to us, please give our teams a chance find it all again by keeping log numbers associated with reports. The General Information sheet (small text) contains the awareness training provided to call takers. The remaining sheet (also labeled General Information but in large text) contains the short version of what call takers are told, especially about how to treat information they are exposed to.

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Use the 281-483-9780 telephone number to contact the JSC EO Office if we can answer any questions.

Thanks very much for your continued support,

Bob Gaffney
JSC Emergency Preparedness Manager
(281) 483-4249

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JSC Emergency Preparedness Manager
(281) 483-4249

<<caller information.doc>>

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

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Emergency Preparedness Coordinator
Headquarters National Aeronautics and Space Administration
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Jonathan B. Mullin, 02:52 PM 2/7/2003 -0500, Fwd: STS-107 Caller Information

X-Sender: jmullin@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Fri, 07 Feb 2003 14:52:51 -0500
To: HCAT@hq.nasa.gov
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: STS-107 Caller Information
Cc: a.h.phillips@larc.nasa.gov, aodonogh@hq.nasa.gov, alee@hq.nasa.gov, bdolci@arc.nasa.gov, cathy.miller@msfc.nasa.gov, tsabikos.a.papadimitris.1@gsfc.nasa.gov, chunt@mail.arc.nasa.gov, clyde.dease@ssc.nasa.gov, dhall@wstf.nasa.gov, Eric.G.Fuller@jpl.nasa.gov, Ezra.R.Abrahamy@jpl.nasa.gov, frederick.w.battle.jr@jpl.nasa.gov, h.w.beazley@larc.nasa.gov, jack_vechil@mail.dfrc.nasa.gov, dennis.g.perrin1@jsc.nasa.gov, john.griggs@MV.nasa.gov, luequention.wilkins@grc.nasa.gov, lengelbert@mail.arc.nasa.gov, michael.moore@maf.nasa.gov, probles@nmo.jpl.nasa.gov, sonja.alexander@hq.nasa.gov, stephen.a.turner@maf.nasa.gov, terry.m.potterton.1@gsfc.nasa.gov, tom.ambrose@dfrc.nasa.gov, wayne.kee-1@ksc.nasa.gov, Robert.Turner@hq.nasa.gov, howard.kass@hq.nasa.gov, alee@hq.nasa.gov, william.barry-1@ksc.nasa.gov, odomingu@hq.nasa.gov, Catherine.Angotti@hq.nasa.gov, mmcneill@mail.hq.nasa.gov, tspagnuo@pop200.gsfc.nasa.gov, Patrick.A.Hancock.1@gsfc.nasa.gov, Jim.Carter@msfc.nasa.gov, Edwin.Jones@msfc.nasa.gov, john.rodgers@hq.nasa.gov, bnotley@mail.arc.nasa.gov, gregory.l.ellis.1@gsfc.nasa.gov, t.f.middleton@larc.nasa.gov, william.c.roeh1@jsc.nasa.gov, phillip.j.nessler.1@gsfc.nasa.gov, pete.allen@msfc.nasa.gov, jlabrecq@hq.nasa.gov, cherbert@hq.nasa.gov, astowes@hq.nasa.gov, Ernest.M.Graham@msfc.nasa.gov, dan.thomas@hq.nasa.gov, g.m.watson@larc.nasa.gov, rdilustr@mail.hq.nasa.gov, hstewart@hq.nasa.gov, speyton@hq.nasa.gov, jlemke@hq.nasa.gov, whill@hq.nasa.gov, michael.stevens-2@ksc.nasa.gov, jilloyd@hq.nasa.gov, prichard@hq.nasa.gov, robert.t.gaffney1@jsc.nasa.gov, james.o.cheek@usago.ksc.nasa.gov

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From: "GAFFNEY, ROBERT T. (JSC-JA171) (NASA)" <robert.t.gaffney@nasa.gov>

To: "Jon Mullin" <jmullin@hq.nasa.gov>

Subject: STS-107 Caller Information

Date: Fri, 7 Feb 2003 11:49:03 -0600

X-Mailer: Internet Mail Service (5.5.2448.0)

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(281) 483-4249

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<<caller information.doc>>

Jonathan B. Mullin
Manager Operational Safety
Emergency Preparedness Coordinator
Headquarters National Aeronautics and Space Administration

Phone (202) 358-0589

FAX (202) 358-3104

"Mission Success Starts with Safety"



caller information12.doc

Jonathan B. Mullin, 02:52 PM 2/7/2003 -0500, Fwd: STS-107 Caller Information

X-Sender: jmullin@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Fri, 07 Feb 2003 14:52:51 -0500
To: HCAT@hq.nasa.gov
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: STS-107 Caller Information
Cc: a.h.phillips@larc.nasa.gov, aodonogh@hq.nasa.gov, alee@hq.nasa.gov,
bdolci@arc.nasa.gov, cathy.miller@msfc.nasa.gov,
tsabikos.a.papadimitris.1@gssc.nasa.gov, chunt@mail.arc.nasa.gov,
clyde.dease@ssc.nasa.gov, dhall@wstf.nasa.gov,
Eric.G.Fuller@jpl.nasa.gov, Ezra.R.Abrahamy@jpl.nasa.gov,
frederick.w.battle.jr@jpl.nasa.gov, h.w.beazley@larc.nasa.gov,
jack_vechil@mail.dfrc.nasa.gov, dennis.g.perrin1@jsc.nasa.gov,
john.griggs@NV.nasa.gov, luequenton.wilkins@grc.nasa.gov,
lengelbert@mail.arc.nasa.gov, michael.moore@maf.nasa.gov,
probes@nmo.jpl.nasa.gov, sonja.alexander@hq.nasa.gov,
stephen.a.turner@maf.nasa.gov, terry.m.potterton.1@gssc.nasa.gov,
tom.ambrose@dfrc.nasa.gov, wayne.kee-1@ksc.nasa.gov,
Robert.Turner@hq.nasa.gov, howard.kass@hq.nasa.gov, alee@hq.nasa.gov,
william.barry-1@ksc.nasa.gov, odomingu@hq.nasa.gov,
Catherine.Angotti@hq.nasa.gov, mmcneill@mail.hq.nasa.gov,
tspagnuo@pop200.gssc.nasa.gov, Patrick.A.Hancock.1@gssc.nasa.gov,
Jim.Carter@msfc.nasa.gov, Edwin.Jones@msfc.nasa.gov,
john.rogers@hq.nasa.gov, bnotley@mail.arc.nasa.gov,
gregory.i.ellis.1@gssc.nasa.gov, t.f.middleton@larc.nasa.gov,
william.c.roeh1@jsc.nasa.gov, phillip.j.nessler.1@gssc.nasa.gov,
pete.allen@msfc.nasa.gov, jlabrecq@hq.nasa.gov, cherbert@hq.nasa.gov,
astowes@hq.nasa.gov, Ernest.M.Graham@msfc.nasa.gov,
dan.thomas@hq.nasa.gov, g.m.watson@larc.nasa.gov,
rdiustr@mail.hq.nasa.gov, hstewart@hq.nasa.gov, speyton@hq.nasa.gov,
jlemke@hq.nasa.gov, whill@hq.nasa.gov, michael.stevens-2@ksc.nasa.gov,
jloyd@hq.nasa.gov, prichard@hq.nasa.gov,
robert.t.gaffney1@jsc.nasa.gov, james.o.cheek@usago.ksc.nasa.gov

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From: "GAFFNEY, ROBERT T. (JSC-JA171) (NASA)" <robert.t.gaffney@nasa.gov>

To: "Jon Mullin" <jmullin@hq.nasa.gov>

Subject: STS-107 Caller Information

Date: Fri, 7 Feb 2003 11:49:03 -0600

X-Mailer: Internet Mail Service (5.5.2448.0)

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Bob Gaffney
JSC Emergency Preparedness Manager
(281) 483-4249

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(281) 483-4249

<<caller information.doc>>

Jonathan B. Mullin
Manager Operational Safety
Emergency Preparedness Coordinator
Headquarters National Aeronautics and Space Administration

Jonathan B. Mullin, 02:52 PM 2/7/2003 -0500, Fwd: STS-107 Caller Information

Phone (202) 358-0589

FAX (202) 358-3104

"Mission Success Starts with Safety"



caller information12.doc

ricky.j.serrano@nasa.gov, 02:21 PM 2/7/2003 -0500, Fwd: STS-107 Caller Information

To: ricky.j.serrano@nasa.gov
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: STS-107 Caller Information
Cc: bob-dolci, Clark Hunt, laura.doty@nasa.gov
Bcc: Richardson_Pamela
Attached: c:\program files\europa\attach\caller information1.doc;

Rick here is the latest. I will be re transmitting this with a short cover note. JSC just updated this for the agency. Regards, Jon

From: "GAFFNEY, ROBERT T. (JSC-JA171) (NASA)" <robert.t.gaffney@nasa.gov>
To: "Jon Mullin" <Jmullin@hq.nasa.gov>
Subject: STS-107 Caller Information
Date: Fri, 7 Feb 2003 11:49:03 -0600
X-Mailer: Internet Mail Service (5.5.2448.0)

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(281) 483-4249

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

Card_Michael, 01:01 PM 2/5/2003 -0500, Fwd: Defense Intelligence offer

To: Card_Michael
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: Defense Intelligence offer
Cc:
Bcc:
Attached:

Mike, does this meet the criteria we discussed? Jon

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

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Wed, 05 Feb 2003 10:08:32 -0500

To: hcat@hq.nasa.gov

From: "Wayne R. Frazier" <wfrazier@hq.nasa.gov>

Subject: Defense Intelligence offer

Cc: whill@hq.nasa.gov, prichard@hq.nasa.gov, jlloyd@hq.nasa.gov,

jlemke@hq.nasa.gov, prutledg@hq.nasa.gov, jmullin@hq.nasa.gov

This date received an offer from DIA (through a third party) at Patrick AFB to offer DIA services to overfly the crash site with a hyperspectral scanner that has 3" resolution for hard objects in vegetation. Passed to Jon Mullin in Code QS who called FEMA EST rep Justin Tillman who called back and recommended we have DIA Patrick call Mr. Wayne Farley at the Lufkin DFO at 318.456.7238. Called DIA back at 0950 Feb 5 and talked to LTC Jeff Grantham (321.494.6240) who will contact Lufkin DFO.

Wayne

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

"Mission success starts with safety"

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

"Mission Success Starts with Safety"

Wayne R. Frazier, 10:08 AM 2/5/2003 -0500, Defense Intelligence offer

X-Sender: wfrazier@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Wed, 05 Feb 2003 10:08:32 -0500
To: hcat@hq.nasa.gov
From: "Wayne R. Frazier" <wfrazier@hq.nasa.gov>
Subject: Defense Intelligence offer
Cc: whill@hq.nasa.gov, prichard@hq.nasa.gov, jlloyd@hq.nasa.gov,
jlemke@hq.nasa.gov, prutledg@hq.nasa.gov, jmullin@hq.nasa.gov

This date received an offer from DIA (Bill Hungate through a third party) at Patrick AFB to offer DIA services to overfly the crash site with a hyperspectral scanner that has 3" resolution for hard objects in vegetation. Passed to Jon Mullin in Code QS who called FEMA EST rep Justin Tillman (646.2461) who called back and recommended we have DIA Patrick call Mr. Wayne Farley at the Lufkin DFO at 318.456.7238. Called DIA back at 0950 Feb 5 and talked to LTC Jeff Grantham (321.494.6240) who will contact Lufkin DFO.

Wayne

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

"Mission success starts with safety"

Kee-1, Wayne, 04:48 PM 2/2/2003 -0500, RE: UPDATES of FEMA Points of Contact-Change 2

To: "Kee-1, Wayne" <Wayne.M.Kee@nasa.gov>
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: RE: UPDATES of FEMA Points of Contact-Change 2
Cc: Lloyd_James,lemke-john,Hill_William,Dr. Rich Williams,Angotti-Cathy
Bcc: Mullin_Jonathan
Attached:

Wayne "God Bless" keep up the good work. Regards, Jon
At 02:58 PM 2/2/2003 -0500, you wrote:

The assembly point for the shuttle debris has been changes from hangar 1 to Nose Dock 6, which provides better control and security. Great support here at Barksdale, don't need anything right now but hot coffee. Long days ahead. We have a NASA Security detail (our KSC government) that will be going ot Lufkin this afternoon or tomorrow. Will try to keep you posted.

Wayne

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

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

Lloyd_James, 05:23 PM 2/2/2003 -0500, Fwd: Re: Help?

To: Lloyd_James
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: Re: Help?
Cc: Wayne Kee <Wayne.Kee-1@ksc.nasa.gov>
Bcc:
Attached:

Information. Stand by. Regards, Jon
User-Agent: Microsoft-Entourage/10.1.0.2006
Date: Sun, 02 Feb 2003 14:23:36 -0800
Subject: Re: Help?
From:
To: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>

ESP? That s a scary thought but it s happened to me before.

to FEMA right now. He figured we should know in about 24 hours which is about when we would be ready to go. Actually we can deploy much faster than that but with the potential for contaminants it s a good time frame.

Thanks Jon, it would be good to be able to help.

On 2/2/03 1:42 PM, "Jonathan B. Mullin" <jmullin@hq.nasa.gov> wrote:

Thanks, I spoke to Dr. Rich Williams about this and it was before I read your message.
Are we transmitting by ESP? Regards, Jon
At 12:02 PM 2/2/2003 -0800, you wrote:

Good morning Jon:

I know there probably isn't much we can do to help but I wanted to forward the kind of offers I've been receiving from fellow . . . Their hearts are with us as is their desire to assist.

My response to A.J. follows his offer of assistance

----- Forwarded Message

From:
Date: Sun, 02 Feb 2003 11:52:39 -0800
To:
Subject: Re: Help?
On 2/2/03 9:10 AM,

Lynne, But I do have a question maybe you can answer. be of any value with NASA search operations in TX? Also my partner is with DMORT. If we could be of any help, please let us know. Thanks A.J.

Thanks AJ.

Lucy and I would like to be down there helping as well if there was something we could do.

Unfortunately the debris is spread over such an enormous area I'm not sure how we would organize a search.

Thank you so much for your offer. I'll pass it along to the powers far higher than I.

----- End of Forwarded Message

Jonathan B. Mullin
Manager Operational Safety
Emergency Preparedness Coordinator
Headquarters National Aeronautics and Space Administration
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"Mission Success Starts with Safety"

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04:42 PM 2/2/2003 -0500, Re: FW: Help?

To:
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Re: FW: Help?
Cc:
Bcc:
Attached:

Thanks, I spoke to Dr. Rich Williams about this and it was before I read your message. Are we transmitting by ESP? Regards, Jon
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Their hearts are with us as is their desire to assist.

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To:
Subject: Re: Help?

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maybe you can answer. Would

But I do have a question
be of any value with NASA

04:42 PM 2/2/2003 -0500, Re: FW: Help?

search operations in TX? Also my partner is with DMORT. If we could be of any help, please let us know.

Thanks

A.J.

Thanks AJ.

Lucy and I would like to be down there helping as well if there was something we could do.

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Thank you so much for your offer. I'll pass it along to the powers far higher than I.

----- End of Forwarded Message .

Jonathan B. Mullin
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Emergency Preparedness Coordinator
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"Mission Success Starts with Safety"

To: angotti-Cathy
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: FW: New Website for JSC Employees: Shuttle Columbia Tragedy
Cc: lemke-john
Bcc:
Attached:

Cathy, is this good enough to send to all of our safety directors? Let me know. Regards, Jon

From: "NAKAMURA, STACEY T. (JSC-NS) (NASA)" <stacey.t.nakamura@nasa.gov>
To: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>, jlloyd@hq.nasa.gov
Subject: FW: New Website for JSC Employees: Shuttle Columbia Tragedy
Date: Sun, 2 Feb 2003 10:07:57 -0600
X-Mailer: Internet Mail Service (5.5.2653.19)

FYI...very helpful information. Mike Stewart is the IT guru at JSC Human Resources. The websites he creates are often cloned for other Centers, so he may have already set up similar website for the Agency. But, just in case, here is the weblink. You may want to reforward to the S&MA email distribution.

Regards,
Stacey

Stacey T. Nakamura
Phone: (281) 483-4345
Fax: (281) 483-6275

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

> From: HR E-Mail Notification System
> Sent: Saturday, February 01, 2003 6:17 PM
> To: DL JSC Civil Servants; DL JSC Contractors
> Subject: New Website for JSC Employees: Shuttle Columbia Tragedy

>
> We've activated a new webpage to assist you and your co-workers within the
> JSC workforce as we deal with the Shuttle Columbia Tragedy. You may search
> this page for the latest information on the Center's workforce activities,
> services, and resources related to this tragedy.

> <http://jscpeople.jsc.nasa.gov/columbia/>

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

FAX (202) 358-3104

"Mission Success Starts with Safety"

lemke-john, 04:44 PM 2/2/2003 -0500, Fwd: Re: Fwd: FW: New Website for JSC Employees: Shuttle

To: lemke-john
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: Re: Fwd: FW: New Website for JSC Employees: Shuttle Columbia Tragedy
Cc:
Bcc:
Attached:

More chaff in the slip stream. Jon

X-Sender: cangotti@mail.hq.nasa.gov
Date: Sun, 2 Feb 2003 15:31:58 -0700
To: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
From: "Catherine M. Angotti" <cangotti@hq.nasa.gov>
Subject: Re: Fwd: FW: New Website for JSC Employees: Shuttle Columbia Tragedy

Jon,

Just left you a voice mail as well. This is a little bit different than "Stacy is sending something out to all safety directors on stress". Jackie Reese, JSC EAP probably is a contributor to this even though I was a bit concerned at first when she told me Stacy hadn't coordinated with her. I'm in contact with her and she is going to send me something that may be appropriate for Stacey's purposes as well and she will comment on what you sent me.

cath

Cathy, is this good enough to send to all of our safety directors? Let me know. Regards, Jon
From: "NAKAMURA, STACEY T. (JSC-NS) (NASA)" <stacey.t.nakamura@nasa.gov>
To: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>, jilloyd@hq.nasa.gov
Subject: FW: New Website for JSC Employees: Shuttle Columbia Tragedy
Date: Sun, 2 Feb 2003 10:07:57 -0600
X-Mailer: Internet Mail Service (5.5.2653.19)

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<http://jscpeople.jsc.nasa.gov/columbia/>

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Headquarters National Aeronautics and Space Administration
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Catherine M. Angotti, R.D., L.D.
Director, Occupational Health
Office of the Chief Health and Medical Officer
Code AM
NASA Headquarters
(202) 358-1794
Jonathan B. Mullin
Manager Operational Safety
Emergency Preparedness Coordinator
Headquarters National Aeronautics and Space Administration
Phone (202) 358-0589
FAX (202) 358-3104
"Mission Success Starts with Safety"

Catherine M. Angotti, 05:25 PM 2/2/2003 -0500, Re: Fwd: New Website for JSC Employees: Shuttle

To: "Catherine M. Angotti" <cangotti@hq.nasa.gov>
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Re: Fwd: New Website for JSC Employees: Shuttle Columbia Tragedy
Cc:
Bcc:
Attached:

I am starting to be on the edge. The impact is starting to penetrate. Regards, Jon
At 05:23 PM 2/2/2003 -0700, you wrote:

No Jon, Actually I'm doing well, but nice of you to ask.

If you recall, you started this with a question of "did I know what Stacey was sending out about stress to the safety directors?" Since I didn't know about it and Stacey isn't a mental health professional, I wanted to see it to run it by some of my experts. JSC has a superb CISD team in place so I called Jackie Reese to find out if Stacey had coordinated with her...the answer was "NO". Subsequent to that message, your e-mail clarified that it was only a JSC website, which I suspected, and later confirmed that Jackie had input to...so its a non-event. But again thanks for inquiring after my well-being.

Hope you're hanging in there OK too.

cath

Are you getting a little stress? He is a professional, and what he is doing a sharing of his installation's product. And yes I have been here for 2 days. Be cool. Jon

From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: New Website for JSC Employees: Shuttle Columbia Tragedy

From: "NAKAMURA, STACEY T. (JSC-NS) (NASA)" <stacey.t.nakamura@nasa.gov>
To: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: FW: FW: New Website for JSC Employees: Shuttle Columbia Tragedy
Date: Sun, 2 Feb 2003 13:23:34 -0600
X-Mailer: Internet Mail Service (5.5.2653.19)

Stacey T. Nakamura
Phone: (281) 483-4345
Fax: (281) 483-6275

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

From: James Lloyd [mailto:jilloyd@hq.nasa.gov]
Sent: Sunday, February 02, 2003 12:00 PM
To: smadir@hq.nasa.gov
Cc: NAKAMURA, STACEY T. (JSC-NS) (NASA)
Subject: Fwd: FW: New Website for JSC Employees: Shuttle Columbia

Tragedy

Dear SMA Director,

Stacey has passed this information along for insight into information about STS107.

From: "NAKAMURA, STACEY T. (JSC-NS) (NASA)" <stacey.t.nakamura@nasa.gov>
To: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>, jllloyd@hq.nasa.gov
Subject: FW: New Website for JSC Employees: Shuttle Columbia Tragedy
Date: Sun, 2 Feb 2003 10:07:57 -0600
X-Mailer: Internet Mail Service (5.5.2653.19)

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Regards,
Stacey

Stacey T. Nakamura
Phone: (281) 483-4345
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- > JSC workforce as we deal with the Shuttle Columbia Tragedy. You may search
- > this page for the latest information on the Center's workforce activities,
- > services, and resources related to this tragedy.
- >
- > <http://iscpeople.jsc.nasa.gov/columbia/>
- >
- >

James D. Lloyd (Jim)

Acting Deputy Associate Administrator
Office of Safety and Mission Assurance
Headquarters Room 5U11
desk phone 202-358-0557

fax 202-358-3104

"Mission success stands on the foundation of our unwavering commitment to safety"

Administrator Sean O'Keefe January 2003

Jonathan B. Mullin

Manager Operational Safety

Emergency Preparedness Coordinator

Headquarters National Aeronautics and Space Administration

Phone (202) 358-0589

FAX (202) 358-3104

"Mission Success Starts with Safety"

Jonathan B. Mullin

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Catherine M. Angotti, R.D., L.D.

Director, Occupational Health

Office of the Chief Health and Medical Officer

Code AM

NASA Headquarters

(202) 358-1794

Jonathan B. Mullin

Manager Operational Safety

Emergency Preparedness Coordinator

Headquarters National Aeronautics and Space Administration

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"Mission Success Starts with Safety"

To:
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: airborne sensor to detect/map Colombia debris
Cc:
Bcc:
Attached:

X-Sender: jlloyd@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Sun, 02 Feb 2003 18:37:34 -0500
To: hcat@hq.nasa.gov
From: James Lloyd <jlloyd@hq.nasa.gov>
Subject: Fwd: airborne sensor to detect/map Colombia debris
Cc: prutledg@hq.nasa.gov, jmullin@mail.hq.nasa.gov

Bill Hill and/or Bihner,

Can this offer of assistance be relayed to whomever needs to rule on whether it is something desired.

I would suggest Dave Whittle's operation is the direct beneficiary.

From:
To: "boconnor@mail.hq.nasa.gov" <boconnor@mail.hq.nasa.gov>
Cc: "jlloyd@mail.hq.nasa.gov" <jlloyd@mail.hq.nasa.gov>
Subject: airborne sensor to detect/map Colombia debris
Date: Sun, 2 Feb 2003 17:20:00 -0600
X-Mailer: Internet Mail Service (5.5.2653.19)

Hi Mr. O'Connor,

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

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

Sincerely,

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

phone: 281-486-2112
fax: 281-486-2162

Jim

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

To:
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: Supporting Bryan on the Columbia Accident Investigation Board (CAIB)
Cc:
Bcc:
Attached: c:\program files\eudora\attach\OSMA Support to Bryan O.doc;

Bill, if you have any good ideas, you are welcome to contribute. Regards, Jon
X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-code-q using -f
X-Sender: prutledg@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Sun, 02 Feb 2003 19:49:16 -0500
To: code-q@lists.hq.nasa.gov
From: Pete Rutledge <prutledg@hq.nasa.gov>
Subject: Supporting Bryan on the Columbia Accident Investigation Board (CAIB)
Sender: owner-code-q@lists.hq.nasa.gov

Code Q staff members,

As you may know Bryan is the ex-officio member of the Columbia Accident Investigation Board. He left for Barksdale AFB this afternoon around noon time. That is where he will meet up with the other CAIB members.

One of our main jobs in the immediate future will be to support him. We can support him in at least three ways: 1. We can respond to his requests. 2. We can collect, on our own initiative, data that could be of use to him (but we need to proceed most carefully on this one). 3. We can suggest questions or avenues of investigation that he might be able to inject into the work of the board.

Attached is a rough list we prepared today of investigative areas--for the most part these are areas in which the SMA community has some special expertise. For each area we have tentatively named an OSMA lead (and in some cases more than one person to work together). If you can think of other areas that we have not captured, and should, let me know. If we've associated you with the wrong area(s) or failed to associate you with the right area(s), let me know. We don't want to disrupt the investigation--we want to be prudent; we want to help Bryan. Think about whether and how you might be able to be helpful in these areas; then, before you take any action, write down your plan in a clear, concise manner, and send it to me--state what you might be able to do and how you would propose to do it. Then wait for a go-ahead from Jim or me. Keep in mind that we have asked the SMA directors at JSC, MSFC, KSC, LaRC, ARC, and SSC to work with us as needed, so this can be part of your plan, if appropriate.

We have also asked all 10 SMA directors to think of questions or issues that Bryan might pursue with the CAIB. I will be collecting these inputs. Your questions and issues are solicited, as well. Put your investigator hat on, think about this, do your own personal fault trees and

hazard analyses, send me your ideas. I'll collect them up, as well, to send to Bryan.

Let's do a great job for Bryan on this important matter.

Thanks,

Pete

Peter J. Rutledge, Ph.D.
Director, Enterprise Safety and Mission Assurance Division
Acting Director, Review and Assessment Division
Office of Safety and Mission Assurance
NASA Headquarters, Code QE, Washington, DC 20546

ph: 202-358-0579
FAX:202-358-2778
e-mail: pete.rutledge@hq.nasa.gov

Mission Success Starts with Safety!

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

Bill Bihner, 03:27 PM 1/13/2003 -0500, STS-107 PMMT SMAR

X-Sender: wbihner@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Mon, 13 Jan 2003 15:27:28 -0500
To: Date:
From: Bill Bihner <wbihner@hq.nasa.gov>
Subject: STS-107 PMMT SMAR
Cc: Roy.Bridges-1@ksc.nasa.gov, Jefferson.D.Howell1@jsc.nasa.gov,
Arthur.G.Stephenson@nasa.gov, William.Parsons@ssc.nasa.gov

Good Afternoon,

Attached please find the Code Q Pre-Launch Mission Management Team Edition of the Safety and Mission Assurance Report (SMAR) for STS-107.

NOTE that the only change to this document from the FRR version is the update to the BSTRA ball status based on a special PRCB meeting on Sunday, January 12. OV-102 has been cleared to fly one additional mission, STS-107. Actions assigned by the Shuttle Program Manager will determine the longer term solution(s) to the BSTRA issue.

If there are any questions, please give me a call.

Thanks,

Bill

William J. Bihner, Jr.
NASA/QE
(202) 358-4441



STS-107 SMAR PMMT.doc

To: lemke-john
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: TEXAS Web Page for Columbia
Cc: Lloyd_James, Wayne Kee <Wayne.Kee-1@ksc.nasa.gov>,

Bcc: Mullin_Jonathan
Attached:

John, take a look at this one. The one page "guidance" which is limited in scope is on the web.
<http://www.txdps.state.tx.us/dem/>

Guy Camomilli is working to get his data on it, so that "better guidance" is available to help assure protection of the employee.

Regards, Jon

Jonathan B. Mullin
Manager Operational Safety
Emergency Preparedness Coordinator
Headquarters National Aeronautics and Space Administration
Phone (202) 358-0589
FAX (202) 358-3104
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To: Tom Ambrose <Tom.Ambrose@dfrc.nasa.gov>,eric_fuller,bob-dolci,Clark Hunt,Frank-Mortelliti,Peter_Robles
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: TEXAS Web Page for Columbia
Cc:
Bcc:
Attached:

Gentlemen, this is what Texas put on their web for public officials. Guy Camomilli has a one pager, that I have asked him to forward to you. REgards, Jon

Date: Wed, 05 Feb 2003 16:21:55 -0500

To: lemke-john

From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>

Subject: TEXAS Web Page for Columbia

Cc: Lloyd_James, Wayne Kee <Wayne.Kee-1@ksc.nasa.gov>

Bcc: Mullin_Jonathan

John, take a look at this one. The one page "guidance" which is limited in scope is on the web.

<http://www.txdps.state.tx.us/dem/>

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Regards, Jon

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Reply-To: <Clark.L.Hunt@nasa.gov>
From: "Clark Hunt" <Clark.L.Hunt@nasa.gov>
To: "Jon Mullin" <jmullin@hq.nasa.gov>
Cc: "Bob Dolci" <bdolci@mail.arc.nasa.gov>, "William K. Notley" <bnotley@mail.arc.nasa.gov>
Subject: Presentation by Ames Emergency Communications - STS-107 Response
Date: Mon, 24 Feb 2003 15:51:46 -0800
X-Mailer: Microsoft Outlook IMO, Build 9.0.2416 (9.0.2911.0)
Importance: Normal

Jon,

Bill Notley is prepared to attend the first day of the conference to participate in the Lessons Learned for the STS-107 Response.

We are asking for your thoughts on his attendance and presentation.

Clark Hunt, Chief, Emergency Services
NASA Ames, Moffett Field, CA
650-604-0990, FAX: 650-604-0994

Jamal Abbed, 01:28 PM 2/24/2003 -0500, Department of Agriculture Helicopter Accidents in Support of Columbia

X-Sender: jabbed@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Mon, 24 Feb 2003 13:28:46 -0500
To: jsutton@hq.nasa.gov, Joseph Walker <jwalker@hq.nasa.gov>, gjohnso1@hq.nasa.gov, jiloyd@hq.nasa.gov, jmullin@hq.nasa.gov, Matthew Gaier <mgaier@hq.nasa.gov>, boconnor@mail.hq.nasa.gov, wready@hq.nasa.gov, jflemke@hq.nasa.gov
From: Jamal Abbed <jabbed@hq.nasa.gov>
Subject: Department of Agriculture Helicopter Accidents in Support of Columbia

The following information was received today from the Department of Agriculture (DOA). Two DOA contractor helicopters during flight operations in support of the Columbia Accident Investigation sustained blade strikes with over hanging wires (Bell 206 from Evergreen) and a separate helicopter (Bell 212 from Houston Helicopters) struck a tree. Both incidents occurred yesterday February 23rd, in the vicinity of Lufkin, Texas. The two mishaps were unrelated. The immediate cause and extent of damage has not been provided. No injuries were reported. DOA classified one of the mishaps as an incident with no substantial damage to the aircraft (Bell 206) while the other incident was classified as an NTSB reportable accident with substantial damage to the aircraft (Bell 212) and reported to the NTSB field office in Texas. DOA accident investigators are currently on route to Texas.

v/r
Jamal

=====
Jamal S. Abbed
Aviation Safety Officer
NASA Headquarters/Code JP
300 E St. SW
Washington, DC 20546-0001
(202) 358-2219, FAX (202) 358-3235
E-mail: jabbed@hq.nasa.gov

Gettleman-1, Alan, 07:59 AM 2/25/2003 -0500, RE: draft agenda

From: "Gettleman-1, Alan" <Alan.G.Gettleman@nasa.gov>
To: "Angotti, Cathy" <cangotti@hq.nasa.gov>, William.S.Barry@nasa.gov,
Guy.S.Camomilli@nasa.gov, jmullin@hq.nasa.gov
Subject: RE: draft agenda
Date: Tue, 25 Feb 2003 07:59:03 -0500
X-Mailer: Internet Mail Service (5.5.2656.59)

This could be part of the two scheduled Columbia recovery topics, but the EAP areas which need NASA mgt. attention are 1) post-Columbia EAP at centers was successful, but post-Columbia EAP/CISD at recovery site a real lessons learned on how we need a management policy/buy in for catastrophic events; and 2) I want to surface taking the notion of bringing agency EAP's within the civil service.

Alan

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

From: Catherine M. Angotti [<mailto:cangotti@hq.nasa.gov>]
Sent: Thursday, February 20, 2003 12:23 PM
To: William.S.Barry@nasa.gov; Guy.S.Camomilli@nasa.gov;
Alan.G.Gettleman@nasa.gov; jmullin@hq.nasa.gov
Subject: draft agenda

Gentlemen

This is my draft for the rescheduled H&S Brd. Please review, edit, comment

Cathy

To: EPP TEAM
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Challenge for Columbia investigators: handling classified
Cc:
Bcc: Ron-Yarbrough
Attached:

For your information, the enclosed is provided. Regards, Jon

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

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

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Wed, 12 Feb 2003 09:18:23 -0500

To: code-qe@lists.hq.nasa.gov, code-qs@lists.hq.nasa.gov

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

Subject: Challenge for Columbia investigators: handling classified

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

6. Challenge for Columbia investigators: handling classified information

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

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

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

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

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

Among government sensors that may offer critical information are Defense Support Program early warning satellites and ground radars, a team intended to help confirm a missile attack. Both have a side mission of helping to monitor objects in space. One DSP satellite is parked over the equator near the East Coast

of the U.S and another is located near the West Coast, according to Jeffrey Richelson, an intelligence expert with the Washington-based National Security Archive.

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

A telescope at the Air Force Research Lab's Starfire Optical Range at Kirtland Air Force Base, N.M., has yielded an image of Columbia in its final moments, but its precise meaning apparently is not yet clear. Roake said the image was "from a side telescope. It wasn't from the main Starfire optical scope, it was more like a spotting scope ... so it's kind of fuzzy. With the main telescope you could capture images a lot better."

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

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

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

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

Wayne R. Frazier, 08:08 AM 2/13/2003 -0500, Re: new charter for CAIB

To: "Wayne R. Frazier" <wfrazier@hq.nasa.gov>
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Re: new charter for CAIB
Cc:
Bcc:
Attached:

Wayne, now that the entire country has the information, and the political persons have provided their needs, it looks like public data. Regards, Jon
At 07:53 AM 2/13/2003 -0500, you wrote:

Stan,

extracted verbatim from an email.

The charter for the investigation has been amended as a direct result of yesterday's hearing. This and additional information can be found at:

http://www.nasa.gov/columbia/COL_resources.html

I believe Maj Ramey was interested in this. Thanks.

Wayne

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

"Mission success starts with safety"

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

susan-kilrain, 04:35 PM 2/18/2003 -0500, Fwd: USA Today Depiction of Columbia Data

To: susan-kilrain
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: USA Today Depiction of Columbia Data
Cc:
Bcc:
Attached:

View this one and think about the technology. Stay safe. Regards, Jon

Subject: USA Today Depiction of Columbia Data
Date: Fri, 14 Feb 2003 13:19:58 -0600
X-Mailer: Internet Mail Service (5.5.2653.19)

> This is incredible
>
> http://www.usatoday.com/graphics/news/gra/gshuttle_disaster/flash.htm

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FAX (202) 358-3104
"Mission Success Starts with Safety"

Wayne R. Frazier, 06:22 AM 2/14/2003 -0500, Fwd: FW: FYI, interface with NASA on accident inves

X-Sender: wfrazier@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Fri, 14 Feb 2003 06:22:36 -0500
To: jloyd@hq.nasa.gov, jlemke <jlemke@hq.nasa.gov>, jmullin@hq.nasa.gov,
fchandle@hq.nasa.gov, prutledg@hq.nasa.gov
From: "Wayne R. Frazier" <wfrazier@hq.nasa.gov>
Subject: Fwd: FW: FYI, interface with NASA on accident investigations

Info, if you ever wondered what happened to Adm Truly!!

X-Server-Uid: 0bf4d294-faec-11d1-a39a-0008c7246279
From: "Vernon, Dennis" <Dennis.Vernon@eh.doe.gov>
To: "wfrazier@mail.hq.nasa.gov" <wfrazier@mail.hq.nasa.gov>,
"Faith Chandler" <fchandle@hq.nasa.gov>
Subject: FW: FYI, interface with NASA on accident investigations
Date: Thu, 13 Feb 2003 17:14:37 -0500
X-Mailer: Internet Mail Service (5.5.2655.55)
X-WSS-ID: 1252C74424788-01-02

Wayne/Faith:

As a matter of information, I prepared the following email for Bev Cook (Assistant Secretary for Environment, Safety and Health) to transmit to Bob Card (Under Secretary for Energy, Science and Environment) and thought that you may wish to have a copy for your records.

Best Wishes,

Dennis Vernon
DOE Accident Investigation Program Manager
Office of Special Projects and Investigations
Corporate Safety Assurance
Environment, Safety and Health
U.S. Department of Energy

Office: (301) 903-4839

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

From: Cook, Beverly
Sent: Wednesday, February 12, 2003 10:29 AM
To: Card, Robert; Knox, Eric
Cc: Stadler, David; Kindrick, Alan
Subject: FYI, interface with NASA on accident investigations

Bob,

Kyle seemed to be interested in any involvement DOE might have with NASA related to the Columbia accident. The following describes our recent contact with the NASA accident investigation staff.

EH accident investigation staff were contacted in December by their counterparts in NASA. NASA was interested in benchmarking their accident investigation program against other government agency programs. There was a tentative agreement for a February meeting at the Goddard Space Center for further working level discussions. In addition, NASA was invited to send representatives to the next 40-hour DOE Accident Investigator training course that will be held at Albuquerque the week of February 24, 2003. However, as a result of the Columbia accident investigation, NASA has not requested any training slots nor is it anticipated that a working level meeting will occur.

The EH staff has since offered to assist NASA with investigative and analytical support. This offer was entered into NASA's database called the Headquarters Contingency Action Team (HCAT) that was developed to track and reference offers for assistance to the Columbia investigation team. Although we are listed on their database, a request for support from DOE by NASA will come through formal channels.

To date, to our knowledge only one contractor employee is providing assistance to NASA in their investigation, retired Rear Admiral Richard H. Truly, United States Navy. Admiral Truly currently serves as the Director of the National Renewable Energy Laboratory located in Golden, Colorado. He has been in Texas for the past several days assisting NASA. Admiral Truly was an astronaut and past administrator of NASA, and currently is the contractor manager of NREL for DOE.

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

"Mission success starts with safety"

</x-html>

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-code-q using -f
X-Sender: mstamate@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Thu, 13 Feb 2003 15:26:49 -0500
To: code-q@lists.hq.nasa.gov
From: Michael Stamatelatos <mstamate@hq.nasa.gov>
Subject: Fwd: Excite News
Sender: owner-code-q@lists.hq.nasa.gov

For your information.

Date: Thu, 13 Feb 2003 14:36:17 -0500
From: [redacted]
Reply-To: [redacted]
Organization: Science Applications
X-Mailer: Mozilla 4.79 (Macintosh; U; PPC)
X-Accept-Language: en
To: [redacted],
"Railsback, Jan" <jan.railsback1@jsc.nasa.gov>,
Michael Stamatelatos <mstamate@hq.nasa.gov>
Subject: Excite News

FYI

<http://apnews.excite.com/article/20030213/D7P5UJLG2.html>

Landing Gear Suspect in Shuttle Disaster

[Email this Story](#)

Feb 13, 1:52 PM (ET)

By TED BRIDIS

WASHINGTON (AP) - NASA confirmed Thursday one sensor aboard Columbia indicated its left landing gear was improperly lowered moments before it disintegrated over Texas as it raced through earth's atmosphere at more than 12,000 miles per hour. But it said other sensors conflicted with those readings.

The disclosure focused renewed attention on possible catastrophic failures inside Columbia's wheel compartment inside its left wing that may have attributed to the mysterious breakup.

Safety engineers believe an unusually large chunk of flyaway foam from Columbia's external tank struck the shuttle on liftoff and may have damaged delicate insulating tiles near that area, but they concluded Columbia could return safely.

NASA spokesman William Jeffs at Johnson Space Center confirmed that one sensor indicated Columbia's gear was lowered as it raced over Texas at 209,000 feet and flying at 18 times the speed of sound - far too high and too fast for that to happen. But Jeffs cautioned that two other sensors at the time indicated the gear was still properly raised.

"We're not certain if the readings showed the landing gear deployed or were the result of a

faulty sensor that sent bad data," Jeffs said. "One indicated (the wheel) was down and locked, and that was shortly before radio contact with the orbiter was lost."

NASA disclosed Wednesday that a safety engineer wrote two days before Columbia's mysterious breakup about risks to the shuttle from "catastrophic" failures caused by tires possibly bursting inside the spacecraft's wheel compartment from extreme heat.

Robert H. Daugherty, responding to an inquiry from Johnson Space Center, cautioned in an e-mail to NASA colleagues that damage to delicate insulating tiles near Columbia's landing gear door could cause one or more tires inside to burst, perhaps ending with catastrophic failures that would place the seven astronauts "in a world of hurt."

Such an explosion inside Columbia's belly, Daugherty predicted, could blow out the gear door and expose the shuttle's unprotected innards to searing temperatures as it raced through earth's atmosphere.

Ret. Admiral Harold Gehman, who heads the panel investigating the Columbia accident, on Thursday called Daugherty's e-mail "one of the many, many interesting leads that we have."

On the same day NASA disclosed the contents of Daugherty's e-mail, searchers near Hemphill, Texas, about 140 miles northeast of Houston, recovered what they believed to be one of Columbia's tires.

The tire was blackened and sustained a massive split across its tread, but it was impossible from photographs to know whether the tire was damaged aboard Columbia or when it struck the ground.

NASA officials in Washington and Houston on Thursday said they could not confirm the tire was the shuttle's, but one person familiar with tires on the orbiter looked at a photograph of the tire found in Texas and said it appeared to be from a shuttle.

In his e-mail, which included remarkably strident language, Daugherty wrote that even if astronauts survived the heat, the blast could damage critical systems inside the wheel compartment, prevent the landing gear on one side from lowering, necessitate a risky belly landing or force the crew to bail out.

Bailing out would be "not a good day," he wrote. But attempting to fly the shuttle with only one side's landing gear lowered would be worse: "You're finished."

Flight Director Leroy Cain said Wednesday that investigators were confident the gear door did not fall off in flight because such a failure would have been indicated on sensor readings.

Other NASA officials have cited mysterious sensor readings in the wheel well moments before Columbia's breakup but have said they were confident the tire didn't burst inside the shuttle.

Daugherty acknowledged these were "absolute worst-case scenarios," adding, "I don't really believe things are as bad as I'm getting ready to make them out." But he defended raising the issues in e-mail to avoid a "gut-wrenching decision" days later during Columbia's

descent.

Daugherty on Wednesday referred questions about his concerns to a NASA spokesman. Agency officials indicated they did not want reporters to speak with Daugherty because accident investigators had not yet questioned him. NASA disclosed the contents of his e-mail Wednesday.

The e-mail from Daugherty, an engineer at NASA's Langley research facility in Hampton, Va., was prompted by a telephone call Jan. 27 from experts at the Johnson Space Center in Houston who asked what might happen if Columbia's tires were not inflated when it attempted to land.

The inquiry from Johnson has attracted interest because it came four days after engineers at The Boeing Co. (BA), a contractor, assured NASA that Columbia could return safely despite damage to left wing tiles that might have occurred on liftoff.

Senior NASA officials said Daugherty's concerns were part of a "what-if" analysis by a small group of engineers who already had been assured that Columbia would land safely. They acknowledged that concerns about threats to the shuttle's tires were not passed along to NASA flight directors.

Milt Heflin, chief of the flight director's office, said Daugherty and others involved in the tire questions "were happy with the analysis and the work that was done" by Boeing. "They were continuing to do more what-if'ing."

An e-mail back to Daugherty the next day from a Johnson Space Center engineer, David F. Lechner of the United Space Alliance LLC, another NASA contractor, thanked Daugherty for his "candid remarks." He said they "generated extremely valuable discussion in our group."

"We hope the debris impact analysis is correct and all this discussion is mute," Lechner wrote.

Another Langley employee, Mark J. Stuart, responded by e-mail later that day, "Looks like they believe all this has been addressed." His message was time-stamped about 20 hours before the shuttle disintegrated.

Senior NASA officials have repeatedly expressed confidence in Boeing's conclusions, which predicted "safe return indicated" even if foam insulation that fell from Columbia's external fuel tank had caused "significant tile damage." That study assumed foam debris struck part of Columbia's left wing, including its toughened leading edge and the thermal tiles covering the landing gear.

Testifying at a joint congressional hearing Wednesday, NASA Administrator Sean O'Keefe told lawmakers that during Columbia's 16-day mission, "there were no abnormalities that would suggest a problem. If there was any indication, they would have showed up."

Among the earliest warning signs aboard Columbia in the minutes before its demise was an unusual heat buildup of about 30 degrees inside the left wheel well. Investigators have said they are confident the tire inside didn't deflate, but they have been unable to explain the readings.

Articles From AP

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Dr. Michael Stamatelatos
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300 E Street, SW
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Phone: 202/358-1668 Fax: 202/358-2778
E-mail: Michael.G.Stamatelatos@nasa.gov
(Please note change in e-mail address)

"Mission success starts with safety"

James Lloyd, 01:43 PM 2/4/2003 -0500, Re: FEMA Briefing -School Debris Item

X-Sender: jlloyd@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Tue, 04 Feb 2003 13:43:51 -0500
To: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
From: James Lloyd <jlloyd@hq.nasa.gov>
Subject: Re: FEMA Briefing -School Debris Item
Cc: whill@hq.nasa.gov, Catherine.Angotti@hq.nasa.gov,
rwillia3@mail.hq.nasa.gov

In Monday morning staff meeting the new AA for Educational Enterprise said that she was reaching out to the school community using their new web site (which had 7 million hits since Saturday). I believe this is being worked. You may want to go to that site and see what is there.

At 01:13 PM 2/4/2003 -0500, Jonathan B. Mullin wrote:

Jim, this morning at FEMA I attended the 0900 hour presentation of the Emergency Support Team. A real concern struck me on their slide 7 "Debris clearing for schools continues. In Texas 31 schools reported possible or confirmed debris. Efforts are ongoing to clear all schools by 02/05/03."

Can you imagine this event's impact to the students of those affected schools?

I believe NASA should provide some measure of compassion to these students and locations as a part of an outreach program.

I will copy Cathy Angotti. These are my thoughts....

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

Jim

Dale Moore, 02:38 PM 2/4/2003 -0500, Accident Investigation Cost Accounting

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

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

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Tue, 04 Feb 2003 14:38:07 -0500

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

From: Dale Moore <dmoore@hq.nasa.gov>

Subject: Accident Investigation Cost Accounting

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

This is the current guidance for tracking investigation costs. There is no way to track labor costs at HQ, but Codes C & B are working on a separate code to use for travel expenses. In the meantime if you are traveling as part of the investigation, please make a note in the purpose section of the travel order that you are traveling to support the Columbia accident investigation.

Joyner, Gloria, 12:19 PM 2/3/2003 -0500, RE: Barksdale EOC Operations /Lufkin Communications

From: "Joyner, Gloria" <Gloria.Joyner@fema.gov>
To: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: RE: Barksdale EOC Operations /Lufkin Communications Numbers
Date: Mon, 3 Feb 2003 12:19:20 -0500
X-Mailer: Internet Mail Service (5.5.2656.59)

Good Morning John:

I can be reached at
gloria.joyner@fema.gov.

The email address is

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

From: Jonathan B. Mullin
To: Gloria.Joyner@fema.gov
Cc: Wayne Kee
Sent: 2/3/03 9:12 AM
Subject: Fwd: Barksdale EOC Operations /Lufkin Communications Numbers
Importance: High

Gloria, I see that you have switched with Mr. Dave Duffer. Please send me where you can be reached, pager, PIN, EOC, ect. As you will note, the NASA on-scene point of Contact is Mr. Wayne Kee.
Please advise.
Regards, Jon

X-Sender: jmullin@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Mon, 03 Feb 2003 08:46:11 -0500
To: jllloyd@hq.nasa.gov, whill@hq.nasa.gov
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Barksdale EOC Operations /Lufkin Communications Numbers
Cc: boconnor@hq.nasa.gov, Wayne Kee <Wayne.Kee-1@ksc.nasa.gov>, jpiaseck@hq.nasa.gov, michael.stevens-2@ksc.nasa.gov, robert.t.gaffney1@jsc.nasa.gov, prutledg@hq.nasa.gov, jlemke@hq.nasa.gov

Mr. Wayne Kee Emergency Preparedness Coordinator for the Kennedy Space Center is in place and operational at Barksdale Air Force Base. The Emergency Operations Center (EOC) work area to which he is assigned is Security and Emergency Services.

Barksdale EOC Numbers are (318) 456-7261/7259.
Mr. Wayne Kee.

Lufkin Communications Center (this center is NASA operated) with the