

Mark Kowaleski, 03:51 PM 1/6/2003 -0500, STS-107 Code Q logistics

X-Sender: mkowales@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Mon, 06 Jan 2003 15:51:21 -0500
To: boconnor@mail.hq.nasa.gov
From: Mark Kowaleski <mkowales@hq.nasa.gov>
Subject: STS-107 Code Q logistics
Cc: wbihner@mail.hq.nasa.gov, pruttedg@mail.hq.nasa.gov

Bryan,

Only Bill Bihner will be attending the STS-107 FRR (I felt it was a waste for two people to go to the FRR). Bill has attended a lot of FRRs during his Code M days, so he is comfortable with the process.

Bill has taken the lead on STS-107 Code Q activities and he has put together the STS-107 Safety and Mission Assurance Report (SMAR). The product is exactly like what you are used to seeing. It will be distributed tomorrow after the latest BSTRA updates have been incorporated from today's special BSTRA PRCB.

Both Bill and I will support the launch operations next week in the LCC. This will get him up-to-speed on the launch process in the LCC and Code Q's role in the launch count.

Please let us know if you need anything.

Thanks,

Mark

Bill Loewy, 03:29 PM 1/10/2003 -0500, Fwd: PAR-5 Minutes for 01/10/2003

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

X-Sender: bloewy@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Fri, 10 Jan 2003 15:29:55 -0500
To: hqpar@lists.hq.nasa.gov
From: Bill Loewy <bloewy@hq.nasa.gov>
Subject: Fwd: PAR-5 Minutes for 01/10/2003
Sender: owner-hqpar@lists.hq.nasa.gov

>
>Subject: PAR-5 Minutes for 01/10/2003
>Date: Fri, 10 Jan 2003 14:28:09 -0600
>X-Mailer: Internet Mail Service (5.5.2653.19)

>> <<MIN010303.doc>>
>> <http://www.srqa.isc.nasa.gov/par/>

>> Upcoming PARs:
>> 01/31/03 STS-114/ULF-1 PAR
>> 02/12/03 STS-114/ULF-1 PAR
>> 02/26/03 STS-114/ULF-1 PAR

>> Note: Current changes indicated to the right by *****
>> Presenters review your items and submit any changes to the PAR Coordinator
>> as soon as possible.

>> Debbie Bazan, JSC PAR Coordinator
>> (281) 244-1862 dbazan@ems.jsc.nasa.gov



[MIN03080243.doc](#)

Bill Loewy
NASA Headquarters
Code QS
Office of Safety and Mission Assurance
Washington DC 20546
Bill.Loewy@hq.nasa.gov

"Mission success starts with safety"

**PAR-5 MINUTES
JANUARY 10, 2003**

<http://www.srqa.jsc.nasa.gov/par/>

The next PAR-5 will be held on Friday, 1/17/02 at 09:30 am Central. (1/3, & 1/10 PAR5s are cancelled)

The PAR-5 is a weekly telecon for representatives in the PAR process.

Debbie Bazan, JSC PAR Coordinator, (281) 244-1862 dbazan@ems.jsc.nasa.gov **Note:** Current changes indicated to the right by *****
PRESENTERS REVIEW THEIR ITEMS AND SUBMIT ANY CHANGES OR REQUESTS FOR CHANGES TO THE PAR-5 COORDINATOR
PRIOR TO THE NEXT MEETING.

STS-107 (OV-102) FLIGHT MILESTONE DATES

SORR	NA	PAR:	12/20/02
FRR:	01/09/03	FRR Tagup:	01/07/03 (moved from 1/06/03)
Prelaunch MMT:	01/14/03	PMMT Tagup:	01/10/03
Shuttle Launch:	01/16/03		

THE FOLLOWING ITEMS WERE DISCUSSED AT THE STS-107 PAR, FRR TAGUP, & PMMT TAGUP:

Mission Overview:

1. Mission Success Criteria
 - A. Shuttle (Jim Gardner/1)
 - B. Shuttle Crew Constraint Exceptions (Jim Pendergast/2)
2. Payload Overview (includes NCRs)
 - A. JSC (Dean Moreland/5)
 - B. MSFC (tbd)
 - C. GDSFC (Roger Counts)
3. Shuttle Software Overview
 - A. JSC (Jane Moorhead/7)
 - B. MSFC SSME S/W (Roz Strickland)

Special Topics:

1. SHUTTLE
 - A. JSC-(VMI: Arnold Baldwin, Backup: Ross Engle)
 1. Spacehab Hull Damage and Repair (see JSC payload overview) (Dean Moreland/8)
 2. OV-103 BSTR Cracks (Bill Prince/18)
 3. OV-103 BSTR Cracks (Hugo Martinez/19) ****frr
 4. OV-103 BSTR Cracks (Bill Prince/20) ****pmmt
 - B. MSFC
 1. SSME-ST5-113 Main Engine #1 Nozzle Leak (Martin Carson)
 2. SRB-Amphenol Connector Pin Lack of Retention (Randall Tucker)
 3. SRB-BSM Paint Chip FOD (Randall Tucker)
 1. SRB-Cable Connector (Randall Tucker) ****frr
 2. SRB-BSM Paint Chip FOD (Randall Tucker) ****frr
 - C. KSC-TBD
2. INDEPENDENT ASSURANCE
 - A. JSC Independent Assessment (Mac Himel)
 - B. KSC SHIA (Mark Gordon)
 1. Space Hab & Experiment Package Configuration Management (Mark Gordon)
 - C. MSFC HEDS (Angelia Walker)
3. EVA-No scheduled EVAs

JSC One Pagers (Shuttle):

1. Critical Process Changes/First Flight
 - A. First Flight of two AMECs (Al Arnold/10)
2. New or Upgraded Hazards & Cils -NONE
3. Flight Rules with Safety Impacts (Jim Gardner/11)
 - A. EOM Nosewheel Steering Flight Rule Change (Jim Gardener/11)
4. STS-109 Freon Coolant Loop 1 Flow Degradation (Tien Do/12)
5. STS-113 O2 Leak in Mid-body (Tien Do/Megan Bell/13)
6. STS-113 FES Primary B Controller Failure (Tien Do/Megan Bell/14)
7. STS-113 Right OMS Bi-propellant Valve Open Indication (Dan Clements/15)
8. Flowliner CRES Issue (Bill Prince-9)
9. Body Flap Actuator Corrosion (Dan Zalit/19)
10. EVA:STS-113 EVA Crewmember Boot Fit (Charles Sager/16)
11. EVA:Biomed Cable Damage (Charles Sager/17)

MSFC One Pagers (Shuttle):

1. Critical Process Changes/First Flight
 - A. SRB-First flight of Pacific Scientific Separation Bolts (Randall Tucker)
 - B. SRB-Cleaning Solvent Specification Change (Randall Tucker)
 - C. SSME-First flight of Controller Coolant Duct Redesign (Rosalyn Patrick)
2. New or Upgraded Hazards & Cils -NONE
3. ET-Waive LO2 LWT Normal Mission & RTL S Ullage Pressure Curves for ET-93 (Keith Layne)
4. ET-Vent Valve Relief Pressure (Keith Layne)
5. SRB-BSM Motor FOD (Randall Tucker)
6. RSRM-STS-113 Postflight Observations-Foreign Material in RSRM Nozzle-to-Case Joint Radial Bolt Hole (Chris Cianciola)
7. RSRM-STS-113 Postflight Observations-Flashing on RSRM Nozzle-to-Case Joint Packing-with-Retainers (Chris Cianciola)

KSC One Pagers (Shuttle):

1. Critical Process Changes/First Flight -NONE
2. New or Upgraded Hazards & Cils -NONE

10P FLIGHT MILESTONE DATES

10P SORR 01/16/03
10P Launch: 02/02/03

ISS 10P PAR: 01/10/03 (immediately following 107 PMMT)

THE FOLLOWING ITEMS WERE DISCUSSED AT THE 10P PAR:**Mission Overview:**

1. Mission Success Criteria
 - A. 10P
(Bobbie Jenkins)
2. Payload Overview (includes NCRs)
 - A. 10P Payloads
(Jeff Nill)
3. ISS 10P Overview
(Bobbie Jenkins)
4. ISS S&MA CoFR Status
(Jim Wade)

Special Topics:

1. STATION
 - A. tbd
2. INDEPENDENT ASSURANCE
 - A. JSC Independent Assessment (Mac Himel)
 - B. KSC SHIA (Mark Gordon)
 - C. MSFC HEDS (Angelia Walker)
3. EVA
 - A. tbd

JSC One Pagers (Station):

1. Critical Process Changes/First Flight -NONE
2. New or Upgraded Hazards & Cifs -NONE

STS-114/ULF1 (OV-104) FLIGHT MILESTONE DATES

SORR	02/04/03	PAR:	01/31/03 *****
FRR:	02/13/03	FRR Tagup:	02/12/03 *****
Prelaunch MMT:	02/27/03	PMMT Tagup:	02/26/03 *****
Shuttle Launch:	03/01/03 (NET)		

Mission Overview:

1. Mission Success Criteria
 - A. Shuttle (Jim Gardner-1)
 - B. Station (Boeing)
 - C. Shuttle Crew Constraint Exceptions (Jim Pendergast-2)
2. Station Overview (Boeing)
 - Open work
 - ISS S&MA Readiness Status
 - ISS Software (IV&V)
 - On-orbit Status & - Vehicle Status
 - ISS on orbit repair priority table
3. EVA Overview (includes NCRs)
(Trent Barrett-5)
4. Payload Overview (includes NCRs)
 - A. JSC (tbd-6)
 - B. MSFC (tbd)
5. Shuttle Software Overview
 - A. JSC (Jane Moorhead-7)
 - B. MSFC SSME S/W (Roz Strickland)

Special Topics:

1. SHUTTLE
 - A. JSC-TBD (VMI: Arnold Baldwin, Backup: Jeremy Verostko)
 - B. MSFC-TBD
 - C. KSC-TBD
2. EVA-TBD
3. STATION
 - A. Pistol Grip Tool Undertorqued (EVA/Station)
 - B. SSRMS Close Call Lessons Learned (tbd)
4. INDEPENDENT ASSURANCE
 - A. JSC Independent Assessment (Mac Himel)
 - B. KSC SHIA (Sharolee Huet)
 - C. MSFC HEDS (Angelia Walker)

JSC One Pagers (Shuttle):

1. Critical Process Changes/First Flight -NONE
2. New or Upgraded Hazards & Cils -NONE
3. Flight Rules with Safety Impacts (Jim Gardner)
4. GFE: Prebreathe Protocol (Adrian Sanderlin)
5. GFE: Ergometer Use On ISS (Adrian Sanderlin)

MSFC One Pagers (Shuttle):

1. Critical Process Changes/First Flight
 - A. RSRM 1st Flight of Press Fit Bushings on Oversized Pinholes *****
 - Replaces shrink fit method made obsolete by elimination of vapor degreaser
 - Certified by test and two static motor test firings
2. New or Upgraded Hazards & Cils-NONE

KSC One Pagers (Shuttle):

1. Critical Process Changes/First Flight -NONE
2. New or Upgraded Hazards & Cils -NONE

JSC One Pagers (Station):

6S FLIGHT MILESTONE DATES

6S SORR 04/03/03
6S Launch: 04/26/03

ISS 6S PAR: tbd

Mission Overview:

1. Mission Success Criteria
 - A. 6S
(Bobbie Jenkins)
2. Payload Overview (includes NCRs)
 - A. 6S Payloads
(tbd)
3. ISS 6S Overview
(Bobbie Jenkins)
4. ISS S&MA CoFR Status
(Jim Wade)

Special Topics:

1. STATION
 - A. tbd
2. INDEPENDENT ASSURANCE
 - A. JSC Independent Assessment (Mac Himel)
 - B. KSC SHIA (Mark Gordon)
 - C. MSFC HEDS (Angelia Walker)
3. EVA
 - A. tbd

JSC One Pagers (Station):

1. Critical Process Changes/First Flight -NONE
2. New or Upgraded Hazards & Cils -NONE

11P FLIGHT MILESTONE DATES

11P SORR 05/01/03

ISS 11P PAR: tbd

11P Launch: 05/26/03

Mission Overview:

1. Mission Success Criteria
 - A. 11P
(Bobbie Jenkins)
2. Payload Overview (includes NCRs)
 - A. 11P Payloads
(tbd)
3. ISS 11P Overview
(Bobbie Jenkins)
4. ISS S&MA CoFR Status
(Jim Wade)

Special Topics:

1. STATION
 - A. tbd
2. INDEPENDENT ASSURANCE
 - A. JSC Independent Assessment (MacHimel)
 - B. KSC SHIA (Mark Gordon)
 - C. MSFC HEDS (Angelia Walker)
3. EVA
 - A. tbd

JSC One Pagers (Station):

1. Critical Process Changes/First Flight -NONE
3. New or Upgraded Hazards & Cils -NONE

STS-115/12A (OV-105) FLIGHT MILESTONE DATES

SORR	05/01/03	PAR:	tbd
FRR:	05/08/03	FRR Tagup:	tbd
Prelaunch MMT:	05/21/03	PMMT Tagup:	tbd
Shuttle Launch:	05/23/03		

Mission Overview:

1. Mission Success Criteria
 - A. Shuttle (Jim Gardner-1)
 - B. Station (Boeing)
 - C. Shuttle Crew Constraint Exceptions (Jim Pendergast-2)
2. Station Overview (Boeing)
 - Open work
 - ISS S&MA Readiness Status
 - ISS Software (IV&V)
 - On-orbit Status & - Vehicle Status
 - ISS on orbit repair priority table
3. EVA Overview (includes NCRs)
(Stacie Greene-5)
4. Payload Overview (includes NCRs)
 - A. JSC (Walter Stoerckel-6)
 - B. MSFC (tbd)
5. Shuttle Software Overview
 - A. JSC (Jane Moorhead-7)
 - B. MSFC SSME S/W (Roz Strickland)

Special Topics:

1. SHUTTLE
 - A. JSC-TBD (VMI: tbd, Backup:tbd)
 - B. MSFC-TBD
 - C. KSC-TBD
2. EVA-TBD
3. STATION-TBD
4. INDEPENDENT ASSURANCE
 - A. JSC Independent Assessment (Mac Himel)
 - B. KSC SHIA (Sharolee Huet)
 - C. MSFC HEDS (Angelia Walker)

JSC One Pagers (Shuttle):

1. Critical Process Changes/First Flight -NONE
2. New or Upgraded Hazards & Cils -NONE
3. Flight Rules with Safety Impacts (Jim Gardner)

MSFC One Pagers (Shuttle):

1. Critical Process Changes/First Flight -NONE
2. New or Upgraded Hazards & Cils-NONE

KSC One Pagers (Shuttle):

1. Critical Process Changes/First Flight -NONE
1. New or Upgraded Hazards & Cils -NONE

JSC One Pagers (Station):

1. Critical Process Changes/First Flight -NONE
2. New or Upgraded Hazards & Cils -NONE

James Lloyd, 02:43 PM 2/2/2003 -0500, List of People Who have Offered to Help

X-Sender: jlloyd@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Sun, 02 Feb 2003 14:43:00 -0500
To: Pete Rutledge <prutledg@hq.nasa.gov>
From: James Lloyd <jlloyd@hq.nasa.gov>
Subject: List of People Who have Offered to Help
Cc: boconrrior@mail.hq.nasa.gov

Please add _____ to the list:

Jim

James Lloyd, 02:44 PM 2/2/2003 -0500, List of People Who have Offered to Help

X-Sender: jlloyd@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Sun, 02 Feb 2003 14:44:47 -0500
To: Pete Rutledge <prutledg@hq.nasa.gov>
From: James Lloyd <jlloyd@hq.nasa.gov>
Subject: List of People Who have Offered to Help
Cc: boconnor@mail.hq.nasa.gov

Please add _____ to the list:

Jim

Bill Bihner, 08:38 AM 1/31/2003 -0500, STS-107 Mission Status

X-Sender: wbihner@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Fri, 31 Jan 2003 08:38:41 -0500
To: "Bryan O'Connor" <bocconnor@hq.nasa.gov>
From: Bill Bihner <wbihner@hq.nasa.gov>
Subject: STS-107 Mission Status
Cc: Jim Lloyd <jlloyd@hq.nasa.gov>, Pete Rutledge <prutledg@hq.nasa.gov>, Mark Kowaleski <mkowales@hq.nasa.gov>, Richard Patrican <rpatrica@hq.nasa.gov>, Gil White <gwhite1@hq.nasa.gov>

Bryan,

The item below was also discussed at yesterday's MMT meeting. The bottom line is that after early problems with pump 1, they switched to pump 2 and cooling in the Hab became a non-issue. Yesterday they reported a nearly doubling in the blockage with the pump 2 system over the last 48 hours and were concerned that they might need to shut pump 2 down and go back to pump 1. If we can't control cooling in the Hab, then we will definitely lose science. So, although we have consumables enough to support landing through Wed, Feb 5, if this becomes an issue, they may want to land earlier, even if it means an EDW landing. Right now its not an issue and landing first opportunity is still scheduled for Saturday around 0915 EST and weather looks favorable. Will keep you posted.

Bill

NEW: MER-009 (Spacehab Water Loop Flow Degradation ORB). The payload heat exchanger and total flow rates for the Spacehab water loop have been steadily decreasing throughout the mission; the Spacehab water pump outlet pressure is also decreasing; pump 2 was initially run but the switch to pump 1 was made early in the mission; t/s post-landing to determine if Orbiter hardware is the cause of the problem or has in any way been impacted by the problem; the hardware consists of the payload heat exchanger and the water lines leading to and from the interface panel.

Bill Bihner, 10:51 AM 1/28/2003 -0500, Fwd: STS-107 Flight Day 12 Report

X-Sender: wbihner@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Tue, 28 Jan 2003 10:51:25 -0500
To: "Bryan O'Connor" <boconnor@hq.nasa.gov>
From: Bill Bihner <wbihner@hq.nasa.gov>
Subject: Fwd: STS-107 Flight Day 12 Report
Cc: Pete Rutledge <prutledg@hq.nasa.gov>, James Lloyd <jlloyd@hq.nasa.gov>, Mark Kowaleski <mkowales@hq.nasa.gov>, Pepper Phillips <pPhillip@mail.hq.nasa.gov>

Bryan,

A new "assessment" on the potential for orbiter damage from ET foam loss. Bottom line is some orbiter structural damage predicted but no safety of flight issue based on this report. Will keep you posted.

Bill

From: SR&QA MER Console <SRQAMer@ems.jsc.nasa.gov>
To: "srqa-mer listserver" <SRQA-MER@vesuvius.jsc.nasa.gov>
Subject: STS-107 Flight Day 12 Report
Date: Tue, 28 Jan 2003 09:38:59 -0600
X-Mailer: Internet Mail Service (5.5.2653.19)

STS-107 Flight Day 12 Report
GMT 028:15:30

Shift Leads: David Witwer, Brandon Dick, Mike Etchells
Mission Engineer: Dan Zalit (OJT)

The STS-107 mission continues nominally in a 154 x 140 nmi orbit with all Orbiter subsystems performing satisfactorily. No new Orbiter issues or anomalies have been reported in the previous 24 hours.

Our MER Manager released the following update on the debris hit on the left wing last during ascent. "Systems integration personnel performed a debris trajectory analysis to estimate the debris impact conditions and locations. This analysis was performed utilizing the reported observations from the ascent video and film. It was assumed that the debris was foam from the external tank. Based on the results of the trajectory analysis, an impact analysis was performed to assess the potential damage to the tile and reinforced carbon carbon (RCC). The impact analysis indicates the potential for a large damage area to the tile. Damage to the RCC should be limited to coating only and have no mission impact. Additionally, thermal analyses were performed for different locations and damage conditions. The damage conditions included one tile missing down to the densified layer of the tile and multiple tiles missing over an area of about 7 in by 30 in. These thermal analyses indicate possible localized structural damage but no burn-through, and no safety of flight issue."

Previous flight day reports discuss the eight MER anomalies listed below.

MER Anomalies:

MER-01 AC2 Phase B Sluggish Current Signature
MER-02 No ICOMB in Spacehab
MER-03 O2 Tank 7 Heater A Failed Off in Manual Mode (ORB)
MER-04 70MM Hasselblad Camera Motor Drive Binds/Jams (GFE)
MER-05 Suspect Fuel Cell Monitoring System (FCMS) Data Cable (GFE)
MER-06 Loss of DR20 Tape Recording and Playback (GFE)
MER-07 LH2 Prevalve Open B Indicator Failed Off
MER-07A MDM FA4 CD-08 CH-00 Has Intermittent Data Hits (ORB)
MER-08 70 mm Hasselblad Camera S/N 1012 Motor Drive Binds/Jams (GFE)

Bill Bihner, 10:51 AM 1/28/2003 -0500, Fwd: STS-107 Flight Day 12 Report

,01:21 PM 2/3/2003 -0500, hello

To: "Michael Sfamatelatos (E-mail)" <mstamate@hq.nasa.gov>,
"Pete Rutledge (E-mail)" <prutledg@hq.nasa.gov>,
"Bill Loewy (E-mail)"
<Bill.Loewy@hq.nasa.gov>,
"Fred Gregory (E-mail)"
<fred.gregory@hq.nasa.gov>

Subject: hello

Date: Mon, 3 Feb 2003 13:21:13 -0500

X-Mailer: Internet Mail Service (5.5.2653.19)

Hi Michael, Pete, Bill, and Fred,

I wanted to email you guys to express my sadness over the recent Columbia Shuttle tragedy. I am sure the entire NASA community has been affected by this weekend's tragic crash and I just wanted to tell you that all of us outside of the NASA community also feels very unfortunate. In the short period of time that I worked with the department, I took note of your incessant commitment to quality and safety. Unfortunately, going to space always bears risk, and I am sure the public has since taken this risk for granted. It just sad when we are reminded about the frailty of life. I wish you guys the best of luck and support during the next few weeks.

Work has been going well on my end here at UTC Fuel Cells. I have been given a sizeable grant from the DOE to produce a fuel cell test stand for one of our joint efforts- which has been taking up the majority of my time, in addition to material research. And as you know, Bush mentioned in his State of the Union that he will be giving the fuel cell industry \$1.2 billion, which will be a nice boost. But I'm sure you know as well as I, that \$1.2 billion will trickle down to \$1.2 thousand when the check arrives.

Take care gentlemen, and I am proud of your continued work.

Faith Chandler, 09:11 AM 2/3/2003 -0500, Fwd: Re: Fwd: MORT

X-Sender: fchandle@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Mon, 03 Feb 2003 09:11:58 -0500
To: jloyd@hq.nasa.gov, prutledg@hq.nasa.gov
From: Faith Chandler <fchandle@hq.nasa.gov>
Subject: Fwd: Re: Fwd: MORT

FYI...

X-Sender: boconnor@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Mon, 03 Feb 2003 07:58:18 -0500
To: Faith Chandler <fchandle@hq.nasa.gov>
From: boconnor <boconnor@hq.nasa.gov>
Subject: Re: Fwd: MORT

Faith,
Thanks again, and be prepared for a briefing soon.. Be aware that whoever on the board is assigned as the keeper of the analysis may have his own druthers on approach, but it would not hurt to have you folks available to help me decide if it is consistent with the intent of our policy.
Best,

At 07:17 AM 2/3/2003 -0500, you wrote:
Bryan,

Wayne and I are putting together some preliminary charts on NASA Investigation Policy that may be of assistance.
We are here to assist you in what every you or the team may need.

At 07:00 AM 2/3/2003 -0500, you wrote:

Faith,
Thanks, we are probably still another day or two from deciding on our analysis technique. I'll keep this and Larry Gregg himself as an asset in mind.
Thanks,

At 12:33 PM 2/2/2003 -0500, you wrote:
Bryan,

Here are some overview charts on "MORT" from the NSTC instructor Larry Gregg.

From: "GREGG, LARRY (JSC-NT) (MEI)" <larry.gregg1@jsc.nasa.gov>
To: "fchandle@mail.hq.nasa.gov" <fchandle@mail.hq.nasa.gov>
Cc: "JOHNSON, ELMER R. (JSC-NS) (NASA)" <elmer.r.johnson@nasa.gov>
Subject: MORT
Date: Sat, 1 Feb 2003 11:50:13 -0600
X-Mailer: Internet Mail Service (5.5.2653.19)

Attached is the section of the MI class where I talk about MORT. There are a few cartoons and such, and I just left them in there. Please feel free to contact me directly if there is ANYTHING I can do.

<<MORT.ppt>>

Larry Gregg
281-244-1278

Faith Chandler

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300 E Street, S.W
Washington, D.C 20546

202-358-0411
202-358-2778 (fax)

O'C

Bryan O'Connor
Associate Administrator
Office of Safety and Mission Assurance

Faith Chandler

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Bryan O'Connor
Associate Administrator
Office of Safety and Mission Assurance

Faith Chandler

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300 E Street, S.W
Washington, D.C 20546

202-358-0411
202-358-2778 (fax)

James Lloyd, 08:38 AM 2/3/2003 -0500, Re: Proposal: Safety and Mission Assurance (SMA) Inform

X-Sender: jlloyd@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Mon 03 Feb 2003 08:38:44 -0500
To:
From: James Lloyd <jlloyd@hq.nasa.gov>
Subject: Re: Proposal: Safety and Mission Assurance (SMA) Information
Exchange Meeting
Cc: boconnor <boconnor@hq.nasa.gov>, eraynor@hq.nasa.gov.

moore@hq.nasa.gov

We very much appreciate the expression of your condolences and share the sadness and sorrow you have expressed on the behalf of you and your staff on the loss of our Astronauts and Columbia. This loss deeply affects the world's ability to explore and make life here on Earth better for all humankind.

By now you may know that Mr. O'Connor has been assigned as NASA's safety and mission assurance representative to the external review group, the Columbia Accident Investigation Board. He is presently on duty at the accident site for the next several days in Shreveport, Louisiana and will be devoting the next several weeks and maybe months to the duty of understanding the causes of the loss of Columbia and its crew. As you suggest, this likely will have an impact on our plans for our SMA Information Interchange in June (which we were beginning to plan in earnest).

I will confer with Mr. O'Connor in the next several days regarding the status of planning for this information exchange and let both you and what we will suggest we do as an SMA team. At this time, I will agree that the suggestion you have made is appropriate due to the circumstance that arose on Saturday.

Best regards,

Jim Lloyd

At 10:54 AM 2/3/2003 +0100,

Dear Mr. O'Connor,

After the tragic loss of the space shuttle Columbia and its crew, I can only respond to your invitation with a feeling of sadness and sorrow. Please accept the condolences for the crew families and your collaborators at NASA from your colleagues here at ESA, who are deeply shocked by this terrible accident. I fully understand that this tragedy has changed all your priorities and that your immediate attention is required for the accident investigations. I therefore suggest that we cancel the preparations for this trilateral information exchange meeting and leave it to your judgement to decide when such a meeting should be reconsidered.

With our cordial sympathy

James Lloyd, 08:38 AM 2/3/2003 -0500: Re: Proposal: Safety and Mission Assurance (SMA) Inform

boconnor
<boconnor@hq.nasa.gov>
2003/01/24
13:53

To:
cc: eraynor@hq.nasa.gov, Willy jloyd@hq.nasa.gov, pruffedg@hq.nasa.gov, jlemke@hq.nasa.gov
Subject: Proposal: Safety and Mission Assurance (SMA) Information Exchange Meeting

Dear

I am inquiring about the availability of you and your staff to visit NASA Headquarters in Washington DC in June of 2003 for a trilateral ESA, NASDA, an NASA Safety and Mission Assurance (SMA) Information Exchange Meeting. I propose a four day meeting during June 16-19, 2003; please let me know if these proposed meeting dates are acceptable with your schedules.

We have much to talk about and share with you when we meet. In the interim I would like to apprise you of several key management changes within our Office of Safety And Mission Assurance (Code Q). I believe you may know that I have been assigned as Associate Administrator for Safety and Mission Assurance since early June of 2003; I was a former astronaut and have also served as a Deputy Associate Administrator for Space Flight (Code M) so I am well acquainted with NASA and the rigors of the aerospace business. I succeeded Mr. Frederick D. Gregory, who after a brief period as the Associate Administrator for Space Flight (Code M) has now been appointed as the Agency's Deputy Administrator (Code AD). Our Deputy Associate Administrator for Safety and Mission Assurance, Dr. Michael A. Greenfield, has recently been promoted to the position of Associate Deputy Administrator for Technical Programs (Code AT), reporting directly to Mr. Gregory. As a result I have asked Jim Lloyd to act as our office's Deputy Associate Administrator until I select or announce a permanent replacement. Concurrent with these personnel changes is a reorganization of the Code Q Divisions. What used to be two divisions (QE and QS) are now soon to be three (QE, QS, and QV). The new division, QV, will focus exclusively on internal assessment and review activities; Dr. Pete Rutledge will be the acting head of this division until a permanent placement is selected and announced. Enclosed is a provisional NASA Headquarters Office of Safety and Mission Assurance organization chart to introduce these changes and initial personnel placements.

I have asked Mr. Eric Raynor, of my staff, to assist me with the coordination and preparation for our June meeting; he may be reached at eraynor@hq.nasa.gov and should be included on all future correspondence regarding this planned event. I look forward to your confirmation of our meeting plans and I wish you both a very happy new year!

Cordially,

James Lloyd, 08:38 AM 2/3/2003 -0500, Re: Proposal: Safety and Mission Assurance (SMA) Inform

Bryan O'Connor
Associate Administrator
Safety and Mission Assurance
NASA Headquarters
Mail Code Q
300 E. Street, SW
Washington, DC 20546
(202) 358-2406

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

Lynne Loewy, 08:13 AM 2/3/2003 -0500, PBMA workgroup

X-Sender: lloewy@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Mon, 03 Feb 2003 08:13:59 -0500
To: prutledg@hq.nasa.gov
From: Lynne Loewy <lloewy@hq.nasa.gov>
Subject: PBMA workgroup

Pete:

If you think its appropriate, please add me to the STS-107 PBMA work group. My thought is to have another body in the front office with access to the group, just in case Jim or Bryan or anyone need quick info off the site.

Thanks,
Lynnie

02:04 PM 2/3/2003 +0100, No Subject

From:

To: L

C

David DURHAM <david.m.durham@jpl.nasa.gov>,
french@adelphia.net,
Michael GREENFIELD <michael.greenfield@hq.nasa.gov>,
Nicholas JOHNSON <nicholas.l.johnson1@jsc.nasa.gov>,

Peter RUTLEDGE <peter.rutledge@hq.nasa.gov>,
SCHULTZ Larr <Larrv.L.Schultz@nasa.gov>.

"Richard H. WEINSTEIN" <rweinste@hq.nasa.gov>

Subject:

Date: Mon, 3 Feb 2003 14:04:35 +0100

X-Loop-Check:

Dear Friends.

I would like to express my sadness and send you and your colleagues my condolences after the deaths of the seven astronauts in the Columbia shuttle disaster. The world space community is affected by this terrible tragedy.

However, the human space exploration has to go on, and we have to be grateful towards these astronauts.

Sincerely,

boconnor, 07:51 AM 2/3/2003 -0500, Re: Proposal: Safety and Mission Assurance (SMA)

X-Sender: boconnor@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Mon, 03 Feb 2003 07:51:59 -0500
From: boconnor <boconnor@hq.nasa.gov>
Subject: Re: Proposal: Safety and Mission Assurance (SMA)
InformationExchange Meeting
Cc: eraynor@hq.nasa.gov, jfloyd@hq.nasa.gov, pruttedg@hq.nasa.gov,
jlemke@hq.nasa.gov, twijdoog@hq.nasa.gov

Thank you very much for your support and expression of sympathy. I cannot say at this time what June will look like, but if it looks like we should postpone our meeting, I will give you advanced notice.
Best Regards,

At 04:56 PM 2/3/2003 +0900,
Dear O'Connor

wrote:

We at NASDA were deeply grieved to hear the loss of seven astronauts and Space Shuttle Columbia on 1st February and wish to express our heartfelt condolences.

You and Office of Safety and Mission Assurance may play an important role to investigate the cause and set corrective action for this tragedy. We hope that efforts of you and your members will overcome the difficulties and bring early and firm restart of Space Shuttle flights.

Also if you wish to postpone the first NASA/ESA/NASDA S&MA meeting proposed in coming June, we will be awaiting your announcement for having meeting.

Sincerely Yours

boconnor wrote:

- >
- >
- >
- > I am inquiring about the availability of you and your staff to visit NASA
- > Headquarters in Washington DC in June of 2003 for a trilateral ESA, NASDA,
- > an NASA Safety and Mission Assurance (SMA) Information Exchange Meeting. I
- > propose a four day meeting during June 16-19, 2003; please let me know if
- > these proposed meeting dates are acceptable with your schedules.
- >
- > We have much to talk about and share with you when we meet. In the interim
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> Assurance since early June of 2003; I was a former astronaut and have also
> served as a Deputy Associate Administrator for Space Flight (Code M) so I
> am well acquainted with NASA and the rigors of the aerospace business. I
> succeeded Mr. Frederick D. Gregory, who after a brief period as the
> Associate Administrator for Space Flight (Code M) has now been appointed as
> the Agency's Deputy Administrator (Code AD). Our Deputy Associate
> Administrator for Safety and Mission Assurance, Dr. Michael A. Greenfield,
> has recently been promoted to the position of Associate Deputy
> Administrator for Technical Programs (Code AI), reporting directly to Mr.
> Gregory. As a result I have asked Jim Lloyd to act as our office's Deputy
> Associate Administrator until I select or announce a permanent
> replacement. Concurrent with these personnel changes is a reorganization
> of the Code Q Divisions. What used to be two divisions (QE and QS) are now
> soon to be three (QE, QS, and QV). The new division, QV, will focus
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> eraynor@hq.nasa.gov and should be included on all future correspondence
> regarding this planned event. I look forward to your confirmation of our
> meeting plans and I wish you both a very happy new year!

> Cordially,

> Bryan O'Connor
> Associate Administrator
> Safety and Mission Assurance
> NASA Headquarters
> Mail Code Q
> 300 E. Street, SW
> Washington, DC 20546
> (202) 358-2406

> -----
> Name: OSMA Org 1-17-03.ppt
> OSMA Org 1-17-03.ppt Type: Microsoft PowerPoint \$B%W%l%<%s%F!<%7%g%s(B
> (application/x-mspowerpoint)
> Encoding: base64

Bryan O'Connor
Associate Administrator
Office of Safety and Mission Assurance

James Lloyd, 07:37 AM 2/3/2003 -0500, Re: Proposal: Safety and Mission Assurance (SMA) Inform

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

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Mon, 03 Feb 2003 07:37:02 -0500

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

Subject: Re: Proposal: Safety and Mission Assurance (SMA) Information Exchange Meeting

Cc:

eraynor@hq.nasa.gov, prutledg@hq.nasa.gov, jlemke@hq.nasa.gov,
boconnor <boconnor@hq.nasa.gov>, dale Moore <dmoore@hq.nasa.gov>,
lloewy@hq.nasa.gov

We very much appreciate the expression of your condolences and share the grief you have expressed on the behalf of you and your staff on the loss of our Astronauts and Columbia. This loss deeply affects the world's ability to explore and make life here on Earth better for all humankind.

By now you may know that Mr. O'Connor has been assigned as NASA's safety and mission assurance representative to the external review group, the Columbia Accident Investigation Board. He is presently on duty at the accident site for the next several days in Shreveport, Louisiana and will be devoting the next several weeks and maybe months to the duty of understanding the causes of the loss of Columbia and its crew. This likely will have an impact on our plans for our SMA Information Interchange in June (which we were beginning to plan in earnest) but we will confirm the exact impact in the weeks to come.

Best regards,

Jim Lloyd

At 04:56 PM 2/3/2003 +0900,

wrote:

Dear O'Connor

We at NASDA were deeply grieved to hear the loss of seven astronauts and Space Shuttle Columbia on 1st February and wish to express our heartfelt condolences.

You and Office of Safety and Mission Assurance may play an important role to investigate the cause and set corrective action for this tragedy. We hope that efforts of you and your members will overcome the difficulties and bring early and firm restart of Space Shuttle flights.

Also if you wish to postpone the first NASA/ESA/NASDA S&MA meeting proposed in coming June, we will be awaiting your announcement for having meeting.

Sincerely Yours

James Lloyd, 06:37 PM 2/2/2003 -0500, Fwd: airborne sensor to detect/map Colombia debris

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 is used to detect and map gases real-time, such as those potentially leaking from Colombia debris. It can also identify solid-phase materials. The sensor (called) is used for Department of Defense and is particularly sensitive to searching for small gas-phase plumes. It has flown for several years in intensive DoD field campaigns: also mapped the World Trade Center debris field. It's primary strength is aiding a focused search of selected areas, including regions that are difficult to search by land.

We are willing to aid the Colombia search and mapping effort, but we are not trying to push ourselves into the recovery process. Rather, we are indicating that we have some potentially helpful airborne technology and would provide assistance if asked. We calculated 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

Jim

, 01:44 PM 2/1/2003 -0500, Fw: Accident

Reply-To:

From:

To: <prutiedg@hq.nasa.gov>

Subject: Fw: Accident

Date: Sat, 1 Feb 2003 13:44:55 -0500

X-Mailer: Microsoft Outlook Express 6.00.2800.1106

Sorry you and Michael had to be there when this happened. I believe we all knew that sooner or later the event would occur no matter how much effort and diligence was put into improving the system. The risk was inherent in the system operation within the financial and time constraints placed on NASA management. It was just a matter of time.

I know this may be a difficult time for you personally and professionally. Give me a call if there is any way I can help.

Jonathan B. Mullin, 06:11 PM 2/1/2003 -0500, Fwd: Debris Sighting

X-Sender: jmullin@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Sat, 01 Feb 2003 18:11:37 -0500
To: robert.t.gaffney1@jsc.nasa.gov
From: "Jonathan B. Mullin" <jmullin@hq.nasa.gov>
Subject: Fwd: Debris Sighting
Cc: boconnor@hq.nasa.gov, jlloyd@hq.nasa.gov, rwillia3@mail.hq.nasa.gov,
snakamur@ems.jsc.nasa.gov, elmer.r.johnson1@jsc.nasa.gov,
jlemke@hq.nasa.gov, Pete Rutledge <prutledg@hq.nasa.gov>

Communications update, this is a Fire Captain, not a NAVAL Officer or Naval Installation as was reported. Keep close hold. Regards, Jon

From: EST-OPS <EST-OPS@fema.gov>
To: "jmullin@hq.nasa.gov" <jmullin@hq.nasa.gov>
Subject: Debris Sighting
Date: Sat, 1 Feb 2003 17:28:58 -0500
Importance: high
X-Mailer: Internet Mail Service (5.5.2656.59)

Jonathan:

I received a call from our FEMA Region VI ROC regarding a large piece of debris found in the vicinity of Burleson and Joshua, TX. The POC is Captain Guess (Fire and Emergency Services Dept.) at the Joint Reserve Base in Forth Worth, TX at (817) 782-6330. He was contacted by local law enforcement in Joshua, TX. His forces have been directed to mobilize to the site to secure and protect the debris until NASA resources provide further direction.

David Duffer
FEMA HQ EST
(202) 646-3532

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 Lloyd, 05:34 AM 2/2/2003 +0000, SMA Telecon

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

To: <dvecellio@arescorporation.com>, <snewman@hq.nasa.gov>
<boconnor@hq.nasa.gov>, <prutledg@hq.nasa.gov>, <jlloyd@hq.nasa.gov>
<pnapala@hq.nasa.gov>, <wfrazier@hq.nasa.gov>, <fchandle@hq.nasa.gov>
<Tom.Whitmeyer@hq.nasa.gov>, <mkowales@hq.nasa.gov>
<wbihner@mail.hq.nasa.gov>, <jlemke@hq.nasa.gov>
<Laura.W.Doty@nasa.gov>, <Humberto.T.Garrido@nasa.gov>
<Amanda.H.Goodson@nasa.gov>, <Michael.Smiles@ssc.nasa.gov>
<yolanda.y.marshall@nasa.gov>, <mark.d.erminger@nasa.gov>
<sbartell@ksc.nasa.gov>, <A.H.Phillips@larc.nasa.gov>
<Wentworth.O.Denoon@nasa.gov>, <jmullin@hq.nasa.gov>

X-your-intranet: <http://107team.intranets.com>

X-Intranets-helpdesk: <mailto:help@intranets.com>

Date: Sun, 02 Feb 2003 05:34:27 GMT

X-mailer: AspMail 4.0 4.03 (SMT412E7EF)

Subject: SMA Telecon

X-OriginalArrivalTime: 02 Feb 2003 05:34:29.0469 (UTC) FILETIME=[C1B930D0:01C2CA7C]

Here's a new posting on 107 Team that I'd like you to see. To go directly to the posting, click the link below or paste it into your web browser. Please note that some email clients require that all the letters and numbers in the link appear on one line, or else it won't go to the right place.

<<http://107team.intranets.com/r.asp?a=3&id=8529>>

James Lloyd, 12:59 PM 2/2/2003 -0500, Fwd: FW: New Website for JSC Employees: Shuttle Colum

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

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

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Sun, 02 Feb 2003 12:59:41 -0500

To: smadir@hq.nasa.gov

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

Subject: Fwd: FW: New Website for JSC Employees: Shuttle Columbia Tragedy

Cc: stacey.t.nakamura1@jsc.nasa.gov

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

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>, 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/>

>

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

James Lloyd, 12:59 PM 2/2/2003 -0500, Fwd: FW: New Website for JSC Employees: Shuttle Colur

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

James Lloyd, 02:23 PM 2/2/2003 -0500, SMA Directors' Meeting

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

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

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Sun, 02 Feb 2003 14:23:36 -0500

To: smadir@hq.nasa.gov

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

Subject: SMA Directors' Meeting

Cc: Sandra.Massey-1@ksc.nasa.gov, odomingu <odomingu@mail.hq.nasa.gov>,

Michael A McNeill <mmcneill@mail.hq.nasa.gov>, twijdoog@hq.nasa.gov,

nelson.H.Keeler@nasa.gov

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

Dear SMA Directors,

As you know Bryan has been placed on the Columbia Accident Investigation Board as ex officio. He indicated yesterday that there would be no way that he could expect an SMA Directors' meeting at SSC during February 13-14t. Accordingly, that meeting is postponed indefinitely.

My apologies if this repeats a previous notification; quite frankly, I thought I did send something out but want to make doubly sure you have received the word.

Regards,

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

Alan H. Phillips, 02:26 PM 2/2/2003 -0500, LaRC Offer of Assistance from D. Freeman to B. O'Conn

X-Sender: a.h.phillips@pop.larc.nasa.gov
Date: Sun, 2 Feb 2003 14:26:34 -0500
To: J Newman <snewman@mail.hq.nasa.gov>
From: "Alan H. Phillips" <a.h.phillips@larc.nasa.gov>
Subject: LaRC Offer of Assistance from D. Freeman to B. O'Connor
Cc: Dr Peter Rutledge <prutledg@mail.hq.nasa.gov>

Steve/Pete:

Here is the listing of people that Del wanted to make sure got offered up (with supporting analysis teams) that could perhaps be of assistance. Pls post or forward in whatever manner you think will be of most value to the Agency.

Alan



LaRCHelp.pdf

Alan H. Phillips
Director, Office of Safety and Mission Assurance
NASA Langley Research Center
5A Hunsaker Loop
Building 1162, Room 112C
Mail Stop 421
Hampton, VA 23681

(757)864-3361 Voice
(757)864-6327 Fax

01:13 PM 2/2/2003 -0800, Sad Day

Date: Sun. 02 Feb 2003 13:13:43 -0800
From:
Subject: Sad Day
To: "Peter J. Rutledge" <pete.rutledge@hq.nasa.gov>,
"Bryan O'Connor" <boconnor@mail.hq.nasa.gov>,
"James D. Lloyd" <Jim.Lloyd@hq.nasa.gov>
X-Mailer: Microsoft Outlook, Build 10.0.4024
Importance: Normal

Gentlemen:

I am saddened by yesterday's tragedy and my heart goes out to the families and all of NASA.
How can I help?

Sincerely,

SAFETY FACTOR ASSOCIATES, INC
Safe, Reliable, Affordable Technology

web: <http://www.SafetyFactorAssociates.com>

1410 Vanessa Circle, Suite 16
Encinitas, CA 92024

Pete Rutledge, 05:55 PM 2/2/2003 -0500, Support for Bryan O'Connor on Columbia Accident Inves

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

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

X-Mailer: QUALCOMM Windows Eudora Version 4.3.2

Date: Sun, 02 Feb 2003 17:55:04 -0500

To: smadir@lists.hq.nasa.gov

From: Pete Rutledge <pruffedg@hq.nasa.gov>

Subject: Support for Bryan O'Connor on Columbia Accident Investigation Board (CAIB)

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

SMA Directors,

As you may know, Bryan O'Connor is the Ex-Officio member of the CAIB. Your help is needed. Bryan has asked that each of you think about what you would ask if you were on the CAIB. What issues would you want to investigate? You should e-mail your suggested questions or issues for investigation to Bryan (he has his laptop with him) and me; I will post the collection of questions/issues on the STS-107 PBMA work group site at:

<http://107team.intranets.com/login.asp?link=>

If you have not yet been invited to join this site, please let me know and I'll get an invitation sent to you.

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!

James Lloyd, 06:25 PM 2/2/2003 -0500, Fwd: Support for Bryan O'Connor on Columbia Accident

X-Sender: jlloyd@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Sun, 02 Feb 2003 18:25:36 -0500
To: boconnor@mail.hq.nasa.gov
From: James Lloyd <jlloyd@hq.nasa.gov>
Subject: Fwd: Support for Bryan O'Connor on Columbia Accident Investigation Board (CAIB)
Cc: Pete Rutledge <prutledg@hq.nasa.gov>

Bryan,

Don't worry about collecting or collating these entries when you receive them. We will collect and compile a list which we then give you at some point when it looks like we have something worthwhile.

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

X-Sender: prutledg@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Sun, 02 Feb 2003 17:55:04 -0500
To: smadir@lists.hq.nasa.gov
From: Pete Rutledge <prutledg@hq.nasa.gov>
Subject: Support for Bryan O'Connor on Columbia Accident Investigation Board (CAIB)
Sender: owner-smadir@lists.hq.nasa.gov

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<http://107team.intranets.com/login.asp?link=>

If you have not yet been invited to join this site, please let me know and I'll get an invitation sent to you.

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!

Jim

12:40 PM 2/3/2003 -0600, Offer of help

X-Sender:
X-Mailer: QUALCOMM Windows Eudora Version 5.1
Date: Mon, 03 Feb 2003 12:40:45 -0600
To: prufleda@hq.nasa.gov
From:
Subject: Offer of help

Pete. Thanks for your prompt reply at this sad time and a very busy one for you. Laurel Clark was a colleague and friend of mine - we were in Pensacola together as Flight Surgeons. I shall e-mail that material to Pam Richardson after I assemble it tonight.

Bill Loewy, 04:07 PM 2/3/2003 -0500, Fwd: Re: TELECONFERENCE: Columbia S&MA Telecon

X-Sender: bloewy@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Mon, 03 Feb 2003 16:07:30 -0500
To: cheryl.a.inman@nasa.gov
From: Bill Loewy <bloewy@hq.nasa.gov>
Subject: Fwd: Re: TELECONFERENCE: Columbia S&MA Telecon
Cc: Nelson.H.Keeler@nasa.gov, jloyd@hq.nasa.gov, pete.rutledge@hq.nasa.gov

Sorry guys,

There is a problem with Cheryl Inman not being a member of the SMADIR email group. I forwarded her message, not noticing that my forward did not have her address.

We will see what is needed to rectify the problem.

In the mean time;

Mr Keeler, here is her email address.

Ms. Inman, please note Mr. Keller's email message that follows.

X-Sender: keeler@orion.ivv.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 5.1
Date: Mon, 03 Feb 2003 16:02:49 -0500
To: Bill Loewy <bloewy@hq.nasa.gov>
From: Nelson Keeler <Nelson.H.Keeler@nasa.gov>
Subject: Re: TELECONFERENCE: Columbia S&MA Telecon
Cc: jackson@ivv.nasa.gov, gatto@ivv.nasa.gov,
blaney <Gregory.D.Blaney@nasa.gov>

Bill:

I would like to participate from the IV&V Facility, 304-367-8369.

I am unable to find Cheryl Inman in the NASA directory, all it comes up with is a Tom Inman at MSFC. Please forward my response to her.

Ned

At 03:52 PM 2/3/2003 -0500, you wrote:

An invitation has been extended to all S&MA Directors from Jim Lloyd to participate in a 12:00 PM CST S&MA telecon on Wednesday, February 5th, regarding Columbia. If you would like to participate, please reply to Cheryl Inman with your name and number for initiation of telecon. Thanks.

Thanks!
Cheryl A. Inman, x32385
SR&QA/NA
Bldg 45/Room 514

"The secret to life is not what happens to you, but what you do with what happens to you"---Norman Vincent Peale

Cheryl A. Inman, = x32385

SR&QA/NA

Bldg 45/Room 514

Bill Loewy
NASA Headquarters
Code QS
Office of Safety and Mission Assurance
Washington DC 20546
Bill.Loewy@hq.nasa.gov

"Mission success starts with safety"

</x-html>

Nelson (Ned) H. Keeler
Director, NASA IV&V Facility
(304) 367-8201

Bill Loewy
NASA Headquarters
Code QS
Office of Safety and Mission Assurance
Washington DC 20546
Bill.Loewy@hq.nasa.gov

"Mission success starts with safety"

</x-html>

Relex Software Corporation, 04:29 PM 2/3/2003 -0500, Our Condolences

X-EM-Version: 4, 5, 0, 0
X-EM-Registration: #30C3410514B417038530
Reply-To:
From:
To: "prutledg@hq.nasa.gov" <prutledg@hq.nasa.gov>
Subject: Our Condolences
Date: Mon, 3 Feb 2003 16:29:50 -0500

February 3, 2003

Dear Peter,

The staff of Relex Software Corporation would like to express our deepest condolences concerning the recent tragedy involving the space shuttle Columbia and her crew. Our thoughts and prayers are with you in these troubled times.

Relex Software Corporation
540 Pellis Road
Greensburg, PA 15601

Jonathan B. Mullin, 08:46 AM 2/3/2003 -0500, Barksdale EOC Operations /Lufkin Communications

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: jlloyd@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 following numbers: (936) 699-1017 or 1014/1015/1019. NASA Code X informs Code Q that any NASA person deployed in that area can be contacted by calling the aforementioned numbers.

Regards, Jon

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

James Lloyd, 11:09 AM 2/4/2003 -0500, Fwd: Senate Resolution 41 February 3, 2003 (Correction)

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-code-q using -f
X-Sender: jlloyd@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Tue, 04 Feb 2003 11:09:20 -0500
To: code-q@lists.hq.nasa.gov
From: James Lloyd <jlloyd@hq.nasa.gov>
Subject: Fwd: Senate Resolution 41 February 3, 2003 (Correction)
Sender: owner-code-q@lists.hq.nasa.gov

Slight nuance in the wording of the resolution that Paul brought to my attention.

X-Authentication-Warning: spinoza.public.hq.nasa.gov: majordom set sender to owner-code-q using -f
X-Sender: jlloyd@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Tue, 04 Feb 2003 09:37:49 -0500
To: code-q@lists.hq.nasa.gov
From: James Lloyd <jlloyd@hq.nasa.gov>
Subject: Senate Resolution 41 February 3, 2003
Sender: owner-code-q@lists.hq.nasa.gov

For your information; the Senate, when it adjourns today, will do so in honor of the seven astronauts.

Jim



Senate Resolution 41 commemorate1.doc

Jim

2

Mark Kowaleski, 03:27 PM 2/6/2003 -0500, Fwd: Memorandum of Charter for Columbia Action Cen

X-Sender: mkowales@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Thu, 06 Feb 2003 15:27:16 -0500
To: jlloyd@mail.hq.nasa.gov, rpatrican@hq.nasa.gov, prutledg@mail.hq.nasa.gov
From: Mark Kowaleski <mkowales@hq.nasa.gov>
Subject: Fwd: Memorandum of Charter for Columbia Action Center

Here is the CAC charter and other info.

The CAC will offload any external requests for info from the HCAT. (HCAT will auto-forward external requests to CAC).

Greenfield will be sending official memo out soon to all HQ.

Mark

X-Sender: cmason@mail.hq.nasa.gov
X-Mailer: QUALCOMM Windows Eudora Version 4.3.2
Date: Wed, 05 Feb 2003 09:49:08 -0500
To: fgregory@hq.nasa.gov, cstadd@hq.nasa.gov, jjenning@hq.nasa.gov,
tbradley@hq.nasa.gov, sisakowi@hq.nasa.gov, pciganer@hq.nasa.gov,
rwillia3@hq.nasa.gov, pstrassm@hq.nasa.gov, lucid@hq.nasa.gov,
tsulliva@hq.nasa.gov, dhaydenw@hq.nasa.gov, vnovak@hq.nasa.gov,
ppastore@hq.nasa.gov, tluedtke@hq.nasa.gov, jschumac@hq.nasa.gov,
jsutton@hq.nasa.gov, rthomas@hq.nasa.gov, chomer@hq.nasa.gov,
wreaddy@hq.nasa.gov, gmahone@hq.nasa.gov, boconnor@hq.nasa.gov,
jcreedon@mail.hq.nasa.gov, eweiler@hq.nasa.gov, mkicza@hq.nasa.gov,
rcobb@hq.nasa.gov, dsaleeba@hq.nasa.gov, gasrar@hq.nasa.gov,
aloston@hq.nasa.gov, rdavis@mail.hq.nasa.gov,
hrothman@mail.hq.nasa.gov, dmcsween@mail.hq.nasa.gov,
rcooper@mail.hq.nasa.gov, dcomstoc@mail.hq.nasa.gov,
rstephen@mail.hq.nasa.gov, mkowales@mail.hq.nasa.gov,
gmartin@hq.nasa.gov, jbingham@mail.hq.nasa.gov,
wbihner@mail.hq.nasa.gov, astockin@mail.hq.nasa.gov,
shilding@mail.hq.nasa.gov
From: Catrina Mason <Cmason@hq.nasa.gov>
Subject: Memorandum of Charter for Columbia Action Center
Cc: SFenn@hq.nasa.gov

Please see the enclosed memo regarding Establishment and Operations of Columbia Action Center (CAC) from Michael A. Greenfield, Ph.D.

Catrina Mason
Secretary in the Deputy Administrator's Office
(202) 358-1820 (Phone)
(202) 358-2810 (Fax)



CAC charter ltr 0204200312.doc

James Lloyd, 08:19 AM 2/11/2009 -0500, Fwd: COLUMBIA

X-Authored

