# NASA

# SECTION 14

# STS-107 EG MER
# ENGINEERING SUPPORT

**MISSION INFORMATION:** VEHICLE: OV-102. Flight 28, Biology & Space Sciences Research – Perform biology and space science research 'round the clock in the revised SPACEHAB module.. CREW:Husband, McCool, Chawla, Brown, Anderson, Clark, Ramon. Orbital Altitude 150 nm, Inclination 39 degrees. Launch at 0939 CDT, 01/16/03, Window: 240 min. Mission duration: 15 days, 23 hours, 13 minutes.

**GN&C** support will be provided for prelaunch, ascent and entry; during first shift, and for on-orbit activities as required. The **EG Console schedule** lists on-call personnel for off-hours support.

## EG MER ENGINEERING SUPPORT DIRECTORY

| *Group/Contact* | *OFFICE* | *HOME* | *PAGER/CELL* |
|---|---|---|---|
| Vincent Levy (Division Chief Engineer) | 281-483-0874 | | |
| Joseph Thibodeau (DCE Backup) | 281-483-8232 | | |
| Glen Hillier (Avionics Hardware SAM) | 281-282-4268 | | |
| Pam Madera (GN&C/FC & E Aero/Ther Analysis) | 281-282-4453 | | |
| Dennis Knight (KSC-GAM) | 321-861-4906 | | |
| Olman Carvajal (SSM - Entry Aeroheating) | 281-853-1561 | | |
| Terry Clark (Transition/On-Orbit SSM)* | 281-226-5903 | | |
| James Cooley (SSM - DPS Hardware)* | | | |
| Steve Jayne (Flight Software Product Mgr) | 281-226-5893 | | |
| Rich Kagawa (FCS Subsystem Engineer)* | 281-853-1578 | | |
| Don McCorvey (Flight Control System SSM)* | 281-853-1689 | | |
| Vester Purkey (FCS Consultant Emeritus) | 281-853-1615 | | |
| Don Peck (ITM DPS HW & Flight Controls) | 281-853-1598 | | |
| Mike Reves (SSM - IMU)* | 281-282-6117 | | |
| John Agres (MEDS & BFS Software Manager) | 714-372-9917 | | |
| Bob Friend (Transition/On-Orbit) | 714-934-1787 | | |
| Terry McClain (SSM – BFS) | 714-372-9919 | | |
| John Pleska (NSLD) | 321-799-7063 | | |
| Steve Van Clief (NSLD) | 321-799-7280 | | |
| Brian Werner (SSM – OMS/RCS) | 321-861-4559 | | |

*** EG Console Operators**

**MER Telephones:** **MER Manager** 281-483-0874
**EG Console**
**Boeing Console**

**Mission status**
**MER FAX number** 281-483-4747

## **MER EG** STAFF SUPPORT TEAM

### NASA EG DIVISION CHIEF ENGINEER

| Name | Office | Home | Pager | LRU/Function |
|---|---|---|---|---|
| Levy, Vincent | 281-483-0874 | | | |

## **EG MER SUPPORT** Aerosciences & Flight Mechanics Division

***NASA Johnson Space Center***

| NAME | Office | Home | Pager | LRU/FUNCTION |
|---|---|---|---|---|
| [illegible] | 281-483-4650 | | | Aerothermal |
| [illegible] | 281-483-6613 | | | Aerothermal (MPS) |
| Grygier, Michael | 281-483-6398 | | | Structures |
| Hammerschmidt, M. | 281-483-8302 | | | GN&C Entry |
| Law, Howard | 281-483-8294 | | | Autoland S/W |
| [illegible] | 281-483-0874 | | | AFML DIV CHIEF ENGR |
| [illegible] | 281-483-8293 | | | GN&C On-orbit DAP |
| Loffi, Rick | 281-483-8346 | | | Sensor Effector H/W |
| Montez, Moises | 281-483-0460 | | | Navigation S/W |
| [illegible] | 281-483-6623 | | | GN&C Ascent S/W |
| [illegible] | 281-483-6315 | | | Ascent/Entry GN&C |
| Strahan, Alan | 281-483-6122 | | | PILOT Team lead |
| Tamblyn, Scott | 281-483-3600 | | | RPOP |
| [illegible] | 281-483-8232 | | | DGE Backup |
| [illegible] | 281-483-8298 | | | Air Data Systems |

# Boeing NASA Systems AVIONICS/GN&C

***HOUSTON/JSC***

| Name | Office | Home | Pager | LRU/Function |
|---|---|---|---|---|
| Alexander, Ed | 281-853-1552 | | | Aerothermal |
| Aso, Alan | 281-853-1555 | | | Entry |
| Beatty, Chuck | [illegible] | | | Flight Controls |
| Blankinship, Kevin | 281-226-5868 | | | Entry/Landing GN&C |
| Borden, Lance | 281-853-1558 | | | NAVAIDS |
| Bradford, Steve | 281-853-1547 | | | Instrumentation |
| Bui, Hiep | 281-226-5870 | | | GN&C |
| [illegible] | 281-483-1793 | | | MEDS |
| [illegible] | 281-853-1561 | | | Aerodynamics |
| [illegible] | 281-483-4316 | | | BFS |
| Clark, Terry | 281-226-5903 | | | Transition/On-Orbit GN&C |
| Cooley, James | 281-853-1624 | | | DPS |
| Cowan, Billy | 281-853-1763 | | | Navaids |
| [illegible] | 281-853-1564 | | | D&C |
| [illegible] | 281-483-5458 | | | INST |
| [illegible] | 281-226-5929 | | | Ascent PCS |
| [illegible] | 281-853-1566 | | | EPDC/EW&I |
| Gederberg, Thomas | 281-226-5947 | | | Transition/On-Orbit GN&C |
| Gentz, Chris | 281-483-3433 | | | MEDS |
| Jackson, Cassandra | 281-483-4315 | | | BFS |
| Jayne, Steve | 281-226-5893 | | | GN&C/GPS |
| [illegible] | 281-853-[illegible] | | | Flight Controls |
| [illegible] | 281-853-1607 | | | D&C |
| [illegible] | 281-226-5948 | | | Transition/On-Orbit GN&C |
| [illegible] | 281-853-1587 | | | Instrumentation |
| May, Martha | 281-843-1509 | | | Ku-Band |
| McCorvey, Don | 281-853-1689 | | | Flight Controls |
| McCrary, Ken | 281-853-1556 | | | S-Band |
| [illegible] | 281-226-5878 | | | Ascent GN&C S/W |
| [illegible] | 281-853-1591 | | | Avionics Mgr |
| [illegible] | 281-853-1564 | | | Instrumentation |
| Nguyen, Vinh | 281-853-1557 | | | DPS |
| O'Hare, Marty | 281-853-1592 | | | Ku-Band |
| Olson, Lee | 281-226-5881 | | | Ascent GN&C S/W |
| [illegible] | 281-483-0897 | | | MEDS, BFS |
| [illegible] | 281-853-1598 | | | DPS/FCS |
| [illegible] | 281-853-1599 | | | Avionics Lead/IMU/ST |
| Pickens, Mark | 281-853-1611 | | | KuBand, Audio |
| Purkey, Vester | 281-853-1615 | | | Flight Control |
| Reyes, Mike | 281-282-6117 | | | IMU |
| [illegible] | 281-853-1618 | | | GPS Recorders |
| [illegible] | 281-853-1598 | | | S-TMU |
| [illegible] | 281-226-5909 | | | On-orbit GN&C |
| [illegible] | 281-853-1621 | | | S-Band |
| Tanita, Thomas | 281-226-5874 | | | Entry/Landing GN&C |
| Winkler, Robert | 281-483-7652 | | | BFS |
| Williams, Charles | 281-483-8394 | | | Rendezvous & Docking |
| Wood, Lynna | 281-853-1503 | | | DPS Software |
| Woods, Steve | 281-853-1625 | | | INST |

© Cell Phone

## Boeing NASA Systems Avionics/GN&C

***HUNTINGTON BEACH***

| Name | Office | Home | Pager/Cell | LRU/Function |
|---|---|---|---|---|
| John Agnes | 714-372-9917 | | | BFS Software |
| Luana Ching | 714-372-0166 | | | BFS Test & Operations |
| Doug Corbin | 714-372-9918 | | | BFS Software |
| [redacted] | 714-372-9960 | | | Entry GN&C |
| [redacted] | 714-372-9779 | | | Transition/On-Orbit GN&C |
| [redacted] | 714-372-9919 | | | BFS Software |
| Bill McDermott | 714-372-6706 | | | FCS Effectors |
| Maria Montag | 714-372-0146 | | | BFS Software |
| [redacted] | 714-372-9965 | | | Transition/On-Orbit GN&C |
| [redacted] | 714-372-9902 | | | FCS Effectors |
| Rene Sauser | 714-372-0105 | | | BFS Software |

***KENNEDY SPACE CENTER***

| Name | Office | Home | Pager/Cell | LRU/Function |
|---|---|---|---|---|
| Don Becker | 321-799-5539 | | | NSLD |
| Tony Damoff | 321-861-4525 | | | GNC Engineering/ADTA |
| [redacted] | 321-861-4530 | | | Avionics Product Manager |
| [redacted] | [redacted] | | | GNC Engineering |
| [redacted] | 321-799-7053 | | | NSLD |
| Steve Van Cliet | 321-799-7280 | | | NSLD |
| Bob Wilson | 321-861-4526 | | | GNC Engineering |
| [redacted] | 321-861-4556 | | | Backup BFS SSM |

## Michele Lewis

**'om:** Kagawa, Richard A [richard.a.kagawa@boeing.com]
**ent:** Thursday, January 16, 2003 1:57 PM
**To:** McCorvey, Donald L; McDermott, Bill A; Pond, Charles L; Stafford, Charles J; Camp, David W; Gavert, Donald E; Alexander, Ed C; Damoff, Howard A; Mulholland, John P; zzLam, Loc T; Fugitt, Mark D; Burghardt, Michael J; Carvajal, Olman; Krause, Paul A; Perkins, Phillip E; Friend, R; Moore, Randy J; Spalding, Richard M; Wilson, Robert J; BARRINGTON, RAY D. (JSC-EG) (DLI); HALL, ROBERT A. (X500); JACKSON, MARK C. (X500); 'Cooper, Curt W'; BARTON, RICHARD L. (RICK) (JSC-EG3) (NASA); BROWN, KENNETH L. (JSC-MV6) (NASA); DERRY, STEPHEN M. (STEVE) (JSC-EG3) (NASA); ELIASON, BRENDA J. (JSC-EA6) (NASA); EXT-Hillier, Glen A; LEVY, VINCENT M. (JSC-EG) (NASA); LINDSAY, KENNETH L. (KEN) (JSC-EG) (NASA); LOFFI, RICHARD W. (RICK) (JSC-EG) (NASA); EXT-Madera, Pamela L; MCCORMACK, DONALD L. (DON) (JSC-MV6) (NASA); MONTEZ, MOISES N. (JSC-EG) (NASA); RUPPERT, JOHN P. (JSC-EG) (NASA); THIBODEAU, JOSEPH R. (JOE) (JSC-EG) (NASA); WAGSTER, LARRY R (JSC-REMOTE); EXT-White, Doug; WOESTE, TIMOTHY (TIM) (JSC-EG) (NASA); 'john.p.cipolletti@usago.ksc.nasa.gov'; 'Knight, Dennis M'; 'Beatty, Chuck'; WILLIAMS, CHARLES, JR (JSC-EV) (BOE); GENTZ, STANLEY C. (CHRIS) (JSC-EV) (BOE); EXT-Beatty, Chuck; Peck, Don; Bui, Hiep M; Cooley, James E; Wood, Lynna L; Reves, Mike; WINKLER, ROBERT L. (JSC-EV) (BOE); Jayne, Stephen D; Clark, Terry R; EXT-Purkey, Vester; Nguyen, Vinh Q
**Cc:** 'dlm3@mac.com'
**Subject:** STS-107 EG MER Mission support schedule

sts107eg shedule.pdf

113EG_DIR.pdf

<<sts107eg shedule.pdf>>

Attached is the EG MER mission support schedule for STS-107. Don McCorvey is working on the overall STS-107 mission support plan and hopes to have it completed on Monday.

For reference only, attached is the phone list from STS-113.

<<113EG_DIR.pdf>>

Rich Kagawa
Boeing Houston
Space Shuttle Flight Control Subsystem Hardware
(281) 853-1578
Richard.A.Kagawa@Boeing.com

This e-mail (and any attached document) contains technical data within the definition of the International Traffic in Arms Regulations, and is subject to export controls of the U.S. Government. Transfer of this data by any means to a foreign person, whether in the United States or abroad, without an export license or other approval from the U.S. Department of State, is prohibited.

# STS-113 EG MER ENGINEERING SUPPORT

**MISSION INFORMATION:** VEHICLE: OV-105. Flight 19, ISS Flight 9A – First port truss segment (ITS P1); Crew and Equipment Translation Aid (CETA) Cart B. CREW:Wetherbee, Lockhart, Lopez-Alegria, Herrington, Bowersox, Budarin, Pettit. Orbital Altitude 210 nm, Inclination 51.6 degrees. Launch at 2354 CST, 11/10/02, Window: 5 min. Mission duration: 10 days, 17 hours, 52 minutes.

**GN&C** support will be provided for prelaunch, ascent and entry; during first shift, and for on-orbit activities as required. The **EG Console schedule** lists on-call personnel for off-hours support.

## EG MER ENGINEERING SUPPORT DIRECTORY

| Group/Contact | OFFICE | HOME | PAGER |
|---|---|---|---|
| Vincent Levy (Division Chief Engineer) | 281-483-0874 | | |
| Joseph Thibodeau (DCE Backup) | 281-483-8232 | | |
| [illegible] | | | |
| [illegible] | 281-282-4268 | | |
| [illegible] | 281-282-4453 | | |
| Dennis Knight (KSC-GAM) | 321-861-4906 | | |
| [illegible] | | | |
| [illegible] | 281-226-5870 | | |
| [illegible] | 281-853-1561 | | |
| Terry Clark (On-Orbit SSM in training) | 281-226-5903 | | |
| Bruce Fiske (SSM - Ascent) | 281-226-5541 | | |
| [illegible] | 281-853-1578 | | |
| [illegible] | 281-853-1689 | | |
| [illegible] | 714-372-9902 | | |
| Vester Purkey (FCS Consultant Emeritus) | 281-853-1615 | | |
| Don Peck (ITM DPS HW & Flight Controls) | 281-853-1598 | | |
| [illegible] | 281-226-5890 | | |
| [illegible] | 281-853-1591 | | |
| Dave Camp (Director, Orbiter Engineering) | 281-853-1560 | | |
| John Mulholland (APD, Orbiter Ops) | 281-853-1738 | | |
| [illegible] | | | |
| [illegible] | 714-372-9917 | | |
| [illegible] | 714-372-9779 | | |
| Don Gavert (SSM - Entry) | 714-372-9960 | | |
| Jerry Kinder (SSM - Entry Aeroheating) | 714-372-0266 | | |
| [illegible] | 714-372-9919 | | |
| [illegible] | | | |
| [illegible] | 321-799-5539 | | |
| [illegible] | 321-861-4525 | | |
| Paul Krause (Product Mgr, Avionics) | 321-861-4532 | | |
| John Pleska (NSLD) | 321-799-7063 | | |
| [illegible] | 321-861-4527 | | |
| [illegible] | 321-799-7280 | | |
| Brian Werner (SSM – OMS/RCS) | 321-861-4559 | | |
| Bob Wilson (GNC Engineering) | 321-861-4526 | | |

MER Telephones: MER Manager
EG Console
Boeing Console

Mission status
MER FAX number 281-483-4747

# **MER EG** STAFF SUPPORT TEAM

## NASA EG DIVISION CHIEF ENGINEER

| Name | Office | Home | Pager | LRU/Function |
|---|---|---|---|---|
| Levy, Vincent | 281-483-0874 | | | |

## **EG MER SUPPORT** Aerosciences & Flight Mechanics Division

***NASA Johnson Space Center***

| NAME | Office | Home | Pager | LRU/FUNCTION |
|---|---|---|---|---|
| [redacted] | 281-483-[redacted] | | | Aerothermal |
| [redacted] | 281-483-[redacted] | | | GN&C Ascent S/W |
| Derry, Steve | 281-483-6613 | | | Aerothermal (MPS) |
| Grygier, Michael | 281-483-6398 | | | Structures |
| Hammerschmidt, M. | 281-483-8302 | | | GN&C Entry |
| [redacted] | 281-483-[redacted] | | | Avionics S/W |
| [redacted] | 281-483-[redacted] | | | ARM DIV CHIEF ENGR |
| Lindsay, Kenneth | 281-483-8293 | | | GN&C On-orbit DAP |
| Loft, Rick | 281-483-8346 | | | Sensor Effector H/W |
| [redacted] | 281-483-[redacted] | | | Navigation S/W |
| [redacted] | 281-483-[redacted] | | | Ascent/Entry GN&C |
| Strahan, Alan | 281-483-6122 | | | Pil OT Team lead |
| Tamblyn, Scott | 281-483-3600 | | | RPOP |
| [redacted] | 281-483-[redacted] | | | DCE Backup |
| [redacted] | 281-483-[redacted] | | | Air Data Systems |

# Boeing Human Space Flight & Exploration AVIONICS/GN&C

***HOUSTON/JSC***

| Name | Office | Home | Pager | LRU/Function |
|---|---|---|---|---|
| Alexander, Ed | 281-853-1552 | | | Aerothermal |
| Beatty, Chuck | | | | Flight Controls |
| Blankinship, Kevin | 281-226-5868 | | | Entry/Landing GN&C |
| **Borden, Lance** | **281-853-1558** | | | **NAVAIDS** |
| [illegible] | 281-853-1547 | | | Instrumentation |
| [illegible] | 281-226-5870 | | | GN&C |
| Bynum, Brent | 281-483-1793 | | | MEDS |
| **Carvajal, Olman** | **281-853-1561** | | | **Aerodynamics** |
| [illegible] | 281-483-4316 | | | BFS |
| [illegible] | 281-226-5903 | | | Transition/On-Orbit GN&C |
| Cooley, James | 281-853-1624 | | | DPS HW SSM |
| Cowan, Billy | 281-853-1763 | | | Navaids |
| [illegible] | 281-853-1564 | | | D&C |
| [illegible] | 281-483-5458 | | | INST |
| Flottorp, Andy | 281-226-5929 | | | Ascent FCS |
| Fugitt, Mark | 281-853-1566 | | | EPDC/EW&I |
| [illegible] | 281-226-5947 | | | Transition/On-Orbit GN&C |
| [illegible] | 281-483-3433 | | | MEDS HW SSM |
| Jackson, Cassandra | 281-483-4315 | | | BFS |
| Jayne, Steve | 281-226-5893 | | | GN&C/GPS |
| [illegible] | 281-853-1578 | | | Flight Controls |
| [illegible] | 281-853-1607 | | | D&C |
| Lam, Loc | 281-226-5772 | | | Ascent Analysis |
| Lardas, Mark | 281-226-5948 | | | Transition/On-Orbit GN&C |
| Lu, John | 281-853-1587 | | | Instrumentation |
| [illegible] | 281-483-1509 | | | Ku-Band |
| McCorvey, Don | 281-853-1689 | | | Flight Controls SSM |
| McCrary, Ken | 281-853-1556 | | | S-Band |
| Montemayor, Liz | 281-226-5878 | | | Ascent GN&C S/W |
| [illegible] | 281-853-1591 | | | Instrumentation/C&T ITM |
| [illegible] | 281-853-1564 | | | Instrumentation |
| Nguyen, Vinh | 281-853-1557 | | | DPS |
| O'Hare, Marty | 281-853-1592 | | | Ku-Band SSM |
| [illegible] | 281-226-5883 | | | Ascent GN&C S/W |
| [illegible] | 281-483-0897 | | | MEDS, BFS |
| Peck, Don | 281-853-1598 | | | DPS/FCS ITM |
| **Perkins, Phil** | **281-853-1599** | | | **Avionics Lead/ST SSM/IMU** |
| [illegible] | 281-853-1615 | | | Flight Controls |
| [illegible] | 281-483-3403 | | | IMU SSM |
| Rivas, Rey | 281-853-1618 | | | OPS Recorders/MMU SSM |
| Rodgers, Mike | 281-853-1598 | | | ST/IMU |
| [illegible] | 281-226-5909 | | | On-orbit GN&C |
| [illegible] | 281-853-1621 | | | S-Band SSM |
| Tanita, Thomas | 281-226-5874 | | | Entry/Landing GN&C |
| Weeks, Michael | 281-226-5537 | | | Ascent FCS |
| [illegible] | 281-226-5538 | | | Ascent FCS |
| [illegible] | 281-483-8394 | | | BFS/Rendezvous & Docking |
| Williams, Justin | 281-226-5609 | | | Ascent FCS |
| Winkler, Robert | 281-483-7652 | | | BFS |
| [illegible] | 281-853-1503 | | | DPS Software |
| Woods, Steve | 281-853-1625 | | | Instrumentation |

## Boeing Human Space Flight & Exploration Avionics/GN&C

***HUNTINGTON BEACH***

| Name | Office | Home | Pager | LRU/Function |
|---|---|---|---|---|
| John Agnes | 714-372-9917 | | | BFS Software |
| [illegible] | 714-372-0166 | | | BFS Test & Operations |
| Doug Corbin | 714-372-9918 | | | BFS Software |
| Kristin Culler | 714-372-9933 | | | Transition/On-Orbit GN&C |
| [illegible] | 714-372-4725 | | | Ascent FCS |
| [illegible] | 714-934-1705 | | | Ascent FCS |
| **Don Gavert** | **714-372-9960** | | | **Entry GN&C** |
| **Bob Friend** | **714-372-9779** | | | **Transition/On-Orbit GN&C** |
| [illegible] | 714-372-9919 | | | BFS Software |
| [illegible] | 714-372-0146 | | | BFS Software |
| Mark Ohara | 714-372-9965 | | | Transition/On-Orbit GN&C |
| Chuck Pond | 714-372-9902 | | | FCS Effectors |
| [illegible] | 714-372-0105 | | | BFS Software |
| [illegible] | 714-372-2330 | | | Ascent GN&C |
| R. Webber | 714-372-9905 | | | Ascent GN&C |

***Personnel in Bold type are primary contacts at the respective sites/contractors for on-call support.***

***KENNEDY SPACE CENTER/NASA Shuttle Logistics Depot***

| Name | Office | Home | Pager | LRU/Function |
|---|---|---|---|---|
| [illegible] | 321-861-4539 | | | GNC Engineering |
| [illegible] | 321-861-4523 | | | GNC Engineering/ACTA |
| Paul Rivalsi | 321-861-4532 | | | Avionics Product Mgr |
| John Pleska | **321-799-7063** | | | **NSLD Engineering** |
| [illegible] | 321-861-4527 | | | GNC Engineering |
| [illegible] | 321-799-7230 | | | NSLD Engineering Mgr |
| Bob Wilson | 321-861-4526 | | | GNC Engineering |
| **Pete Wilson** | **321-861-4656** | | | **Backup BFS SSM** |

REFERENCE ONLY

# STS-113 EG MER ENGINEERING SUPPORT

**MISSION INFORMATION:** VEHICLE: OV-105. Flight 19, ISS Flight 9A – First port truss segment (ITS P1); Crew and Equipment Translation Aid (CETA) Cart B. CREW:Wetherbee, Lockhart, Lopez-Alegria, Herrington, Bowersox, Budarin, Pettit. Orbital Altitude 210 nm, Inclination 51.6 degrees. Launch at 2354 CST, 11/10/02, Window: 5 min. Mission duration: 10 days, 17 hours, 52 minutes.

**GN&C** support will be provided for prelaunch, ascent and entry; during first shift, and for on-orbit activities as required. The **EG Console schedule** lists on-call personnel for off-hours support.

## EG MER ENGINEERING SUPPORT DIRECTORY

| *Group/Contact* | *OFFICE* | *HOME* | *PAGER* |
|---|---|---|---|
| Vincent Levy (Division Chief Engineer) | 281-483-0874 | | |
| Joseph Thibodeau (DCE Backup) | 281-483-8232 | | |
| | 281-[illegible]-4268 | | |
| | 281-[illegible]-4453 | | |
| Dennis Knight (LKSC-GAM) | 321-861-4906 | | |
| | 281-226-5870 | | |
| | 281-853-1561 | | |
| Terry Clark (Ops Orbit SSM in training) | 281-226-5903 | | |
| Bruce Fiske (SSM – Ascent) | 281-226-5541 | | |
| | 281-853-1[illegible] | | |
| | 281-853-1[illegible] | | |
| | 714-372-9902 | | |
| Vester Burkey (TCS Consultant Emeritus) | 281-853-1615 | | |
| Don Peck (TM DPS HW & Flight Controls) | 281-853-1598 | | |
| | 281-226-5[illegible] | | |
| | 281-853-[illegible] | | |
| Dave Camp (Director, Orbiter Engineering) | 281-853-1560 | | |
| John Mulholland (APD, Orbiter Ops) | 281-853-1738 | | |
| | 714-372-9907 | | |
| | 714-372-9779 | | |
| Don Gaved (SSM – Entry) | 714-372-9960 | | |
| Jerry Kinder (SSM – Entry Aeroheating) | 714-372-0266 | | |
| | 714-372-9[illegible] | | |
| | 321-799-[illegible] | | |
| | 321-861-4521 | | |
| Paul Krause (Product Mgr, Avionics) | 321-861-4532 | | |
| John Pleska (NSLO) | 321-799-7063 | | |
| | 321-861-4527 | | |
| | 321-799-7280 | | |
| Brian Werner (SSM – OMS/RCS) | 321-861-4559 | | |
| Bob Wilson (GNC Engineering) | 321-861-4526 | | |

**MER Telephones:**

**MER Manager**
**EG Console**
**Boeing Console**

**Mission status**
**MER FAX number 281-483-4747**

## **MER EG** STAFF SUPPORT TEAM

### NASA EG DIVISION CHIEF ENGINEER

| Name | Office | Home | Pager | LRU/Function |
|---|---|---|---|---|
| Levy, Vincent | 281-483-0874 | | | |

## **EG MER SUPPORT** Aerosciences & Flight Mechanics Division

***NASA Johnson Space Center***

| NAME | Office | Home | Pager | LRU/FUNCTION |
|---|---|---|---|---|
| [illegible] | 281-483-4650 | | | Aerothermal |
| [illegible] | 281-483-8285 | | | GNC Ascent S/W |
| Derry, Steve | 281-483-6613 | | | Aerothermal (MPS) |
| Grygier, Michael | 281-483-6398 | | | Structures |
| Hammerschmidt, M. | 281-483-8302 | | | GN&C Entry |
| [illegible] | 281-483-8294 | | | Autoland S/W |
| [illegible] | 281-483-0874 | | | AFMD DIV. CHIEF ENGR |
| Lindsay, Kenneth | 281-483-8293 | | | GN&C On-orbit DAP |
| Loth, Rick | 281-483-8346 | | | Sensor Effector H/W |
| [illegible] | 281-483-0460 | | | Navigation S/W |
| [illegible] | 281-483-6515 | | | Ascent/Entry GN&C |
| Strahan, Alan | 281-483-6122 | | | PILOT Team lead |
| Tamblyn, Scott | 281-483-3600 | | | RPOP |
| [illegible] | 281-483-8232 | | | DCE Backup |
| [illegible] | 281-483-8298 | | | All Data Systems |

# **Boeing Human Space Flight & Exploration** AVIONICS/GN&C

***HOUSTON/JSC***

| Name | Office | Home | Pager | LRU/Function |
|---|---|---|---|---|
| Alexander, Ed | 281-853-1552 | | | Aerothermal |
| Beatty, Chuck | | | | Flight Controls |
| Blankinship, Kevin | 281-226-5868 | | | Entry/Landing GN&C |
| **Borden, Lance** | **281-853-1558** | | | **NAVAIDS** |
| Bradford, Steve | 281-853-1547 | | | Instrumentation |
| [illegible] | 281-226-5870 | | | GN&C |
| Byrnum, Brent | 281-483-1793 | | | MEDS |
| **Caryajal, Olman** | **281-853-1561** | | | **Aerodynamics** |
| [illegible] | 281-483-4316 | | | BFS |
| [illegible] | 281-226-5903 | | | Transition/On-Orbit GN&C |
| Cooley, James | 281-853-1624 | | | DPS HW SSM |
| Cowan, Billy | 281-853-1763 | | | Navaids |
| [illegible] | 281-853-1622 | | | D&C |
| [illegible] | 281-483-3456 | | | INST |
| Flottum, Andy | 281-226-5929 | | | Ascent FCS |
| Fogle, Mark | 281-853-1566 | | | EPDC/EW&I |
| [illegible] | 281-226-5917 | | | Transition/On-Orbit GN&C |
| [illegible] | 281-483-3433 | | | MEDS HW SSM |
| Jackson, Cassandra | 281-483-4315 | | | BFS |
| Javriel, Steve | 281-226-5893 | | | GN&C/GPS |
| [illegible] | 281-853-1578 | | | Flight Controls |
| [illegible] | 281-853-1560 | | | D&C |
| Lam, Loc | 281-226-5772 | | | Ascent Analysis |
| Tardas, Mark | 281-226-5948 | | | Transition/On-Orbit GN&C |
| Lo, John | 281-853-1587 | | | Instrumentation |
| [illegible] | 281-853-1505 | | | Ku-Band |
| [illegible] | 281-853-1689 | | | Flight Controls SSM |
| McCarty, Ken | 281-853-1556 | | | S-Band |
| Montemayor, Liz | 281-226-5878 | | | Ascent GN&C S/W |
| [illegible] | 281-853-1591 | | | Instrumentation/C&T TM |
| [illegible] | 281-853-1562 | | | Instrumentation |
| Nguyen, Vinh | 281-853-1557 | | | DPS |
| O'Hare, Mary | 281-853-1592 | | | Ku-Band SSM |
| [illegible] | 281-226-5911 | | | Ascent GN&C S/W |
| [illegible] | 281-483-3827 | | | MEDS BFS |
| Peck, Don | 281-853-1598 | | | DPS/FCS TM |
| Perkins, Phil | **281-853-1599** | | | **Avionics Lead/ST SSM/IMU** |
| [illegible] | 281-853-1615 | | | Flight Controls |
| [illegible] | 281-483-3403 | | | IMU SSM |
| Rivas, Rey | 281-853-1618 | | | OPS Recorders/MMU SSM |
| Rodgers, Mike | 281-853-1598 | | | ST/IMU |
| [illegible] | 281-226-5909 | | | On-orbit GN&C |
| [illegible] | 281-853-1621 | | | S-Band SSM |
| Tanita, Thomas | 281-226-5874 | | | Entry/Landing GN&C |
| Weeks, Michael | 281-226-5537 | | | Ascent FCS |
| [illegible] | 281-226-5538 | | | Ascent FCS |
| [illegible] | 281-483-8394 | | | BFS/Rendezvous & Docking |
| Williams, Justin | 281-226-5609 | | | Ascent FCS |
| Winkler, Robert | 281-483-7652 | | | BFS |
| Wood, Lynda | 281-853-1503 | | | DPS Software |
| [illegible] | 281-853-1625 | | | Instrumentation |

# Boeing Human Space Flight & Exploration Avionics/GN&C

***HUNTINGTON BEACH***

| Name | Office | Home | Pager | LRU/Function |
|---|---|---|---|---|
| John Agres | 714-372-9917 | [illegible] | [illegible] | BFS Software |
| Leana Ching | 714-372-0166 | [illegible] | [illegible] | BFS Test & Operations |
| Doug Corbin | 714-372-9918 | [illegible] | [illegible] | BFS Software |
| Kristin Culler | 714-372-9933 | [illegible] | [illegible] | Transition/On-Orbit GN&C |
| [illegible] | 714-372-4725 | [illegible] | [illegible] | Ascent FCS |
| [illegible] | 714-934-1785 | [illegible] | [illegible] | Ascent FCS |
| **Don Gavert** | **714-372-9960** | [illegible] | [illegible] | **Entry GN&C** |
| **Bob Friend** | **714-372-9779** | [illegible] | [illegible] | **Transition/On-Orbit GN&C** |
| [illegible] | 714-372-9919 | [illegible] | [illegible] | BFS Software |
| [illegible] | 714-372-0146 | [illegible] | [illegible] | BFS Software |
| Mark Ohara | 714-372-9965 | [illegible] | [illegible] | Transition/On-Orbit GN&C |
| Chuck Pond | 714-372-9902 | [illegible] | [illegible] | FCS Effectors |
| [illegible] | 714-372-0105 | [illegible] | [illegible] | BFS Software |
| [illegible] | 714-372-9912 | [illegible] | [illegible] | Ascent GN&C |
| R. Weber | 714-372-9905 | [illegible] | [illegible] | Ascent GN&C |

***Personnel in Bold type are primary contacts at the respective sites/contractors for on-call support.***

***KENNEDY SPACE CENTER/NASA Shuttle Logistics Depot***

| Name | Office | Home | Pager | LRU/Function |
|---|---|---|---|---|
| [illegible] | 321-799-5539 | [illegible] | [illegible] | NSLD Engineering |
| [illegible] | 321-861-4525 | [illegible] | [illegible] | GNC Engineering/ADTA |
| Paul Krause | 321-861-4532 | [illegible] | [illegible] | Avionics Product Mgr |
| John Pleska | 321-799-7063 | [illegible] | [illegible] | NSLD Engineering |
| [illegible] | 321-861-4527 | [illegible] | [illegible] | GNC Engineering |
| [illegible] | 321-799-7280 | [illegible] | [illegible] | NSLD Engineering Mgr |
| Bob Wilson | 321-861-4526 | [illegible] | [illegible] | GNC Engineering |
| Pete Wilson | 321-861-4656 | [illegible] | [illegible] | Backup BFS SSM |