

STS DATA SUMMARIES

4/13/01

PLANNING OVERVIEW/FLIGHT HARDWARE/FACILITY REQUIREMENTS

(Near-Term Flights - Two flights per vehicle - except during an OMDP. Follow-on flight of an OMDP will appear mid-flow)

| NEAR-TERM FLTS. | STS-100/OV-105/16 | STS-104/OV-104/24 | STS-105/OV-103/30 | STS-108/OV-105/17 |
|-------------------------------------|--|--|--|----------------------------|
| PLANNING OVERVIEW | Delta LSFR baseline at PRCB Held 1/25/01 | Launch milestones baselined at Delta LSFR held 3/22/01 | Mission extension to 11 days Approved PRCB held 3/29 | |
| LSFR/DELTA LSFR | 11/15/00 (A) - 1/25/01 (A) | 1/11/01 (A) – 3/22/01 (A) | 3/1/01 (A) – 4/12/01 (A) | 3/29/01 – 5/17/01 |
| CREW SIZE/MISSION DURATION | 7 Up-7 Down / 11 | 5/11 | 7 Up-7 Down/11 | 7/10 |
| LAUNCH DATE/TIME (HH:MM:SS) | 4/19/01 Time: 14:40:40 EDT | 6/14/01 NET Time: 16:14:46 EDT | 7/12/01 NET Time: 04:45:00 EDT | 11/1/01 NET Time: TBD EDT |
| LANDING DATE/TIME - KSC | 4/30/01 Time: 10:00:00 EDT | 6/25/01 Time: 11:34:00 EDT | 7/23/01 Time: TBD EDT | 11/11/01 Time: TBD EDT |
| LAUNCH WINDOW (HH:MM:SS) | 00:10:00 | 00:05:00 | 00:10:00 | 00:10:00 |
| INSERTION ALT. / INCLINATION | 173 NM / 51.6 Degrees | 122 NM/ 51.6 Degrees | 122 NM / 51.6 Degrees | 122 NM / 51.6 |
| FLIGHT SOFTWARE | OI-28 | OI-28 | OI-28 | OI-28 |
| FLIGHT HARDWARE | | | | |
| DOWN PAYLOAD PROCESSING | ISS-06-4A / PV MODULE P6 | ISS-07-5A /US LAB/LAB PDGF | ISS-08-5A.1 | ISS-09-6A / MPLM2(P)-01 |
| UP PAYLOAD PROCESSING | ISS-09-6A / MPLM2 (P)-01 | ISS-10-7A/AIRLOCK | ISS-11-7A.1 | ISS-12-UF1 / MPLM2(P)-02 |
| PAYLOAD INSTALLATION | Vertical | Vertical | Vertical | Vertical |
| PRSD TANK SETS | Prev. 5 / Curr. 5 | Prev. 5 / Curr. 5 | Prev. 5 / Curr. 5 | Prev. 5 / Curr. 5 |
| GN2 TANKS | Prev. 5 / Curr. 7 | Prev. 6 / Curr. 7 | Prev. 6 / Curr. 6 | Prev. 7 / Curr. 7 |
| RMS INSTALLED / # | Yes / #303 | Yes / #202 | Yes / #301 | Yes / #303 |
| INTERNAL/EXTERNAL AIRLOCK | External | External | External | External |
| TUNNEL ADAPTER | No | No | No | No |
| SRB/ET | Bi107 / RSRM: 79/ET:108 | Bi108 / RSRM: 80 / ET 109 | Bi109 / RSRM: 81 / ET-110 | Bi110 / RSRM: 82 / ET: 111 |
| SSME 1/2/3 | 2054-2A / 2043-2A / 2049-2A | 2056-2A / 2051-2 / 2047-2A | 2052-2A / 2044-2A / 2045-2A | 2054-2/2051-2/2050-2 |
| OMS POD | RP01/30/F5 - LP04/23/F5 | RP04/24/F4 - LP03/28/F4 | RP03/31/F9 - LP01/33/F9 | RP01/31/F6 – LP04/24/F6 |
| FRCS / FLT. # / FLTS. SINCE OMDP | FRC5/16/F5 | FRC4/23/F3 | FRC3/30/F7 | FRC5/17/F6 |
| FACILITY REQUIREMENTS | | | | |
| TAL SITE (Post-Launch) (Prime/Alt.) | Zaragoza / Ben Guerir | Zaragoza / Ben Guerir | Zaragoza | Zaragoza |
| EOM LANDING SITE (Prime-Alt.)/CLS | KSC - DFRC / WSSH | KSC - DFRC / WSSH | KSC - DFRC / WSSH | KSC - DFRC / WSSH |
| OPF BAY | OPF Bay-2 | OPF Bay-3 | OPF Bay-2 | OPF Bay-1 |
| VAB HIGH BAY / MLP | VAB HB-3 / MLP-1 | VAB HB-1/MLP-2 | VAB HB-3 / MLP-3 | VAB HB-1/MLP-1 |
| PAD | PAD-A | PAD-B | PAD-A | PAD-B |
| LAUNCH CONTROL CENTER | 2/3 | 2/1 | 2/3 | 2/3 |
| TCID LOAD | 1/2/01 | 2/21/01 | 4/7/01 | 5/23/01 |

Contact: Catherine Downs, Integrated Project Management, (Manifest Planning) 1-7424

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| NEAR TERM FLIGHTS | STS-109/OV-102/27 | STS-110/OV-104/25 | | |
|-------------------------------------|--|------------------------------------|--|--|
| PLANNING OVERVIEW | Note: Program decision (2/26) to Fly HST before Research Mission | FDRD baseline @ PRCB held 11/15/00 | | |
| LSFR/DELTA LSFR | 2/22/01(A) – 4/12/01 | 5/24/01 – 7/19/01 | | |
| CREW SIZE/MISSION DURATION | 7/11 | (Crew Rotated) 7-3 / 9 | | |
| LAUNCH DATE/TIME (HH:MM:SS) | 11/19/01 Time: TBD EST | 1/17/02 Time: TBD EST | | |
| LANDING DATE/TIME - KSC | 11/30/01 Time: TBD EST | 1/26/02 Time: TBD EST | | |
| LAUNCH WINDOW (HH:MM:SS) | TBD | 00:10:00 | | |
| INSERTION ALT. / INCLINATION | 308 NM / 28.45 | 122 NM / 51.6 | | |
| FLIGHT SOFTWARE | OI-28 | OI-29 | | |
| FLIGHT HARDWARE | | | | |
| DOWN PAYLOAD PROCESSING | N/A | ISS-10-7A/AIRLOCK | | |
| UP PAYLOAD PROCESSING | HST SM 3B | ISS-13-8A / ITS SO | | |
| PAYLOAD INSTALLATION | Vertical | Vertical | | |
| PRSD TANK SETS | Prev. X / Curr. 5 | Prev. 5 / Curr. 5 | | |
| GN2 TANKS | Prev. X / Curr. 5 | Prev. 7 / Cur. 6 | | |
| RMS INSTALLED / # | Yes / #201 | Yes / #202 | | |
| INTERNAL/EXTERNAL AIRLOCK | Internal | External | | |
| TUNNEL ADAPTER | No | No | | |
| SRB/ET | Bi111 / RSRM: 83 / ET: 112 | Bi112 / RSRM: 85 / ET-113 | | |
| SSME 1/2/3 | 2048-2A/2053-2A/2049-2A | 2056-2A/2043-2A/2047-2A | | |
| OMS POD | RP05/15/F1 – LP05/16/F1 | RP04/25/F5 – LP03/29/F5 | | |
| FRCS / FLT. # / FLTS. SINCE OMDP | FRC2/27/F1 | FRC4/24/F4 | | |
| FACILITY REQUIREMENTS | | | | |
| TAL SITE (Post-Launch) (Prime/Alt.) | Banjul / Ben Guerir | Zaragoza / Ben Guerir | | |
| EOM LANDING SITE (Prime-Alt./CLS) | KSC - DFRC / WSSH | KSC - DFRC / WSSH | | |
| OPF BAY | OPF- Bay-1/3/3 | OPF- Bay-2 | | |
| VAB HIGH BAY / MLP | VAB HB-31/MLP-2 | VAB HB-1/MLP-3 | | |
| PAD | PAD-A | PAD-B | | |
| LAUNCH CONTROL CENTER | 2/1 | 2/3 | | |
| TCID LOAD | 4/28/01 | 6/20/01 | | |

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| LONG RANGE FLT. | STS-111/OV-105/18 | STS-107/OV-102/28 | STS-112/OV-104/26 | |
|-------------------------------------|---------------------------|---|----------------------------|--|
| | | STS-107 Launch date rebaseline at PRCB held 3/15/01 | + 1 Mission (outside FDRD) | |
| LSFR/DELTA LSFR | 10/4/01 – 11/29/01 | 10/4/01 – 11/29/01 | 1/10/02 U/R – 2/7/02 U/R | |
| CREW SIZE / MISSION DURATION | 5 / 10 | 7 / 16 | 5 / 11 | |
| LAUNCH DATE/TIME (HH:MM:SS) | 3/14/02 Time: TBD EST | 4/4/02 NET Time: TBD | 5/31/02 Time: TBD EST | |
| LANDING DATE/TIME - KSC | 3/24/02 Time: TBD EST | 4/20/02 Time: TBD | 6/10/02 Time: TBD EST | |
| LAUNCH WINDOW (HH:MM:SS) | 00:10:00 | TBD | 00:10:00 | |
| INSERTION ALT. / INCLINATION | 122 NM / 51.6 | 150 NM / 39.0 | 170 NM / 51.6 | |
| FLIGHT SOFTWARE | OI-29 | OI-29 | OI-29 | |
| FLIGHT HARDWARE | | | | |
| DOWN PAYLOAD PROCESSING | ISS-12-UF1/MPLM1(P)-02 | HST SM 3B | ISS-13-BA-ITS SO | |
| UP PAYLOAD PROCESSING | ISS-14-UF2/MPLM2(P)-03 | RESEARCH MSN / FREESTAR | ISS-15-9A/S1 | |
| PAYLOAD INSTALLATION | Vertical | Horizontal | Vertical | |
| PRSD TANK SETS | Prev. 5 / Curr. 5 | Prev. 5 / Curr. 9 | Prev. 5 / Curr. 5 | |
| GN2 TANKS | Prev. 5 / Curr. 5 | Prev. 5 / Curr. 4 | Prev. 6 / Curr. 6 | |
| RMS INSTALLED / # | Yes / #303 | No | Yes / #202 | |
| INTERNAL/EXTERNAL AIRLOCK | External | Internal | External | |
| TUNNEL ADAPTER | No | Yes | No | |
| SRB/ET | Bi113 / RSRM: 84 / ET-114 | Bi114 / RSRM: 86 / ET 93 LWT | Bi115 / RSRM: 87 / ET 115 | |
| SSME 1/2/3 | 2055-2/2044-2/2045-2 | 2052-2/2051-2/2050-2 | TBD / TBD / TBD | |
| OMS POD | RP01/32/F7 – LP04/25/F7 | RP05/16/F2 - LP05/17-F2 | RP04/26/F6 – LP03/30/F6 | |
| FRCS / FLT. # / FLTS. SINCE OMDP | FRC5/18/F7 | FRC2/28/F2 | FRC4/26/F6 | |
| FACILITY REQUIREMENTS | | | | |
| TAL SITE (Post-Launch) | Zaragoza | Ben Guerir | Zaragoza | |
| EOM LANDING SITE (Prime-Alt.)/CLS | KSC – DFRC / WSSH | KSC - DFRC / WSSH | KSC-DFRC/WSSH | |
| OPF BAY | OPF Bay-3 | OPF Bay-1 | OPF Bay-2 | |
| VAB HIGH BAY / MLP | VAB HB-3 / MLP-1 | VAB HB-1 / MLP-2 | VAB HB-3 / MLP-3 | |
| PAD | PAD-A | PAD-B | PAD-B | |
| LAUNCH CONTROL CENTER | 2/1 | 2/3 | 2/1 | |
| TCID LOAD DATE | TBD | TBD | TBD | |

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