



I. STS-133 ND Post Mission Summary

This report encompasses all Integrated Network events/passes supported during the STS-133 mission (02/24 to 03/09/11). This report is derived from inputs received from the Integrated Network stations and other elements.

SN Support:

	Events	Support Time
STS-133 Mission Total	518	1122:54:57
Virtual Spacecraft	3	1:48:20

GN Support:

Station	Mission Total
MILA	47
PDL	1
WGS	65
WSSH	1
AGO	19
DFRC	51

C-Band Radar Support:

	STS-133 Passes	ISS Passes
Launch/Landing	16	N/A
On-orbit	139	51
Mission Total	155	51

II. Activities

- Lift-off occurred at 24/2153:24Z (4:53 PM EST)
- Supported External Tank TV via MILA, JDMTA and WGS from lift-off through LOS. PDL supported for receive/record only.
- Payload Bay Door opening occurred at 24/2329Z (6:29 PM EST).
- Go for orbit operations occurred at 24/2330Z (6:30 PM EST).
- K-band deploy occurred at 24/2350Z (6:50 PM EST)
- Completed Wallops ET TV image file transfer to KSC at 25/0045Z (7:45 PM EST).

\$\$ Denotes an update from last report

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- Orbiter went to high frequency at 25/0314:37Z (10:14 PM EST).
- Completed ET TV image file transfers (MILA, PDL and JDMTA) to KSC at 25/0448Z (11:48 PM EST).
- OBSS Survey started at 25/1353Z (9:53 AM EST).
- Orbiter went to low frequency at 25/1512Z (10:12 AM EST).
- Critical support for the Orbiter Boom Sensor System (OBSS) survey of the orbiter was completed at 25/0001Z (24/7:00 PM EST).
- Docking occurred at 26/1916Z (2:16 PM EST).
- 2 Way engineering passes successfully supported on orbit 053 with MILA at 28/0423Z (11:23 PM EST) and orbit 054 with DFRC at 28/0551Z (12:51 AM EST).
- EVA-1 started at 28/1547Z (11:47 AM EST)
- EVA-1 was completed at 28/2215:08Z (5:08 PM EST).
- EVA-2 started at 03/02/11 1542Z (10:42 AM EST)
- 2 Way engineering passes successfully supported on orbit 84 with MILA at 02/0340Z (01/10:40 PM EST) and orbit 86 with DFRC at 02/0643Z (1:43 AM EST)
- ISS reboost occurred at 03/1403Z (9:03AM EST).
- EVA-2 was completed at 02/2246Z (5:46 PM EST).
- Crew conference with President Obama at 03/2203Z (5:03 PM EST).
- 2 Way engineering passes successfully supported at the following stations:
 - WGS Orbit 130 at 05/0147Z (03/04 8:47 PM EST)
 - MILA Orbit 131 at 05/0323Z (03/04 10:23 PM EST)
 - DFRC Orbit 132 at 05/0450Z (03/04 11:50 PM EST)
 - AGO Orbit 137 at 05/1314Z (03/05 8:14 AM EST).
 - AGO Orbit 153 at 06/1339Z (03/06 8:391 AM EST).
- Undocking occurred at 07/1200:19Z (7:00 AM EST)
- FCS checkout scheduled to occurred at 08/1128Z (6:28 AM. EST)
- MILA supported L-1 day check on orbit 188 at 08/1754Z (12:54 PM EST)
- DFRC supported L-1 day check on orbit 189 at 08/1923Z (2:23 PM EST)
- WSSH shadowed DFRC L-1 check on orbit 189 at 08/1923Z (2:23 PM EST)
- K-band stow occurred at 08/2113Z (4:13 PM EST)
- Payload Bay doors closed at 09/1319Z (8:30 AM EST)
- De-orbit burn completed at 09/1556Z (10:56 AM EST)
- Landing at KSC at 09/1657:17Z (1157:17 AM EST)
- MILA terminated data to JSC at 09/2300Z (6:00PM EDT)
- MILA released from KSC Post Landing Support at 09/2310Z (6:10 PM EDT)

III. Problems Reported during STS-133 (Resolved)

A. Space Network (SN):

1	STGT	24/2120Z	Pre-Launch												
Master CDS 60906	JSC reported no TDM's on SGLT-1/TDS event. WSC found a concentrator in overflow condition and reset the unit to clear the problem. No impact to support. Under observation. 03/02: STGT JSC TDM Blocker Concentrator-B (TBC-B) was taken out of service and TBC-A was fanned out to both Demux A & B. No further issues reported. Under Observation. 03/03: CDS 60945,60961,60968,60969 Closed to this Master. 03/06: Power supply replaced on TBC-B. Good TDM's verified at WSC. WSC normalized the TBC path at 06/1918:35Z with JSC concurrence. JSC reported good TDMs. Problem closed.														
2	STGT	24/2258Z	Orbit 1												
CDS 60907	SGLT-1/TDS A & B-Chains lost lock. Return RF signal level dropped, EB/No 5 dBHz, A-Chain relocked causing an auto failover from the B-Chain. A Recover From Maintenance (RFM) was performed to acquire lock on the B-Chain. Equipment checks were nominal. 30 second service loss. Under observation. 03/02: Assigned to Hardware Maintenance Group. Under Investigation. 03/02: No problems found on A & B-Chains during loop testing. Both chains have been supporting nominally. Problem Closed.														
** \$\$	3	GRGT	25/1047Z Multiple Orbits												
CDS 60927	2/25/11: DFE reported SGLT-6/TD275 KSAR1 Channel-2 sub frame data degraded.														
Multiple CDS closed to Master CDS 60927	2/26/11: At 1517Z, A chain failover from B to A was performed with no change in data quality. WSC observed inter-modulation from channel 3 (FM TV) affecting the data. Prior to orbit 34 GDIS-R was patched to a different IP Encapsulator (IPE) for KSA1R Channel 2 data only; no improvement reported. Return service loss: <table border="0" style="margin-left: 20px;"> <thead> <tr> <th style="text-align: left;">Orbit</th> <th style="text-align: left;">Loss (mm:ss)</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>46:09</td> </tr> <tr> <td>13</td> <td>8:43</td> </tr> <tr> <td>28</td> <td>25:00</td> </tr> <tr> <td>30</td> <td>18:14</td> </tr> <tr> <td>32</td> <td>22:36</td> </tr> </tbody> </table>			Orbit	Loss (mm:ss)	9	46:09	13	8:43	28	25:00	30	18:14	32	22:36
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32	22:36														

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34 20:30

Total Return service loss: 2 hrs 21 mins 12 secs.

2/28/11:

Connection from B-Channel baseband switch to GDIS-R appears bad. IP Encapsulater-2 (IPE2) was patched to spare channel on IPE4 and a good BER test was performed. Reset on IPE2 pending.

03/02:

Good channel-2 data reported on event at 060/1650Z and subsequent events. WSC performed an IPE2 B reboot at GRGT. Under observation.

03/02 :

CDS 60913 and 60936 Closed to this Master.

03/08:

IFA STS-133-G-003 (GDIS-R Return Service Anomaly)

03/10:

GDISR IPE sync issue affecting all services. IPE exhibits a latch condition and is cleared following a disable/re-enable of the MUX PGM portion of IPE02 B & A sides.

CDS 61058, 61029, 61034, 61056, 61061 and 61057 have been closed to this master.

03/17:

Telecon held with RTLogic. Network Engineering Group investigating. Problem Closed to Master CDS 60927

4	STGT	25/1426Z	Orbit 11
CDS 60914	SGLT-3/TD171 KSAR2 A-Chain Channel-3 failed to lock when configured to 48 Mbps causing an auto failover to the B-Chain. A Recover From Maintenance (RFM) was performed to acquire lock. No data loss reported. Under investigation.		
	03/02: Demod-A had an incorrect frequency off-set. RFM loaded correct frequency offset. Subsequent events nominal. Problem Closed.		
5	STGT	25/1911Z	Orbit 15
CDS 60915	SGLT-3/TD171 KSAR2 A-Chain DQM faulted. A re-initialization of the DQM to clear the old status and time outs was unsuccessful. No impact.		
	2/28/11: Loop testing confirmed Baseband switch and Subsystem Controller interface good. Subsequent STS event had good DQM status. Problem Closed.		

** 12 GRGT 04/1759:44 Multiple Orbits
CDS SGLT-6/TD275 SSA2R 192 kbps data corrupted causing noise
61029 on the A/G loops. WSC reset the GDIS-R IPE2-B and a good
61057 BER test was performed. Under investigation.
61058 Orbit Loss (mm:ss)
124 10:46
133 14:01
135 5:56
Total Return service loss: 30 mins 43 secs.
IFA STS-133-G-003 (GDIS-R Return Service Anomaly)
03/05: Problem Closed to Master CDS 60927

** 13 STGT 05/1415Z Multiple Orbits
CDS SGLT-3/TD171 & SGLT-1/TDS SSA Return not locked.
61030 Failure of a power supply within a distribution amp on the STGT
Common Time Frequency Standard-A (CTFS). A CTFS-A to
CTFS-B failover was performed at 05/1856Z restoring SSA2
telemetry. A frequency distribution amp was replaced in CTFS-
A. CTFS-A is available for backup. Problem closed.
TDRS Start Orbit Loss (mm:ss)
171 1415:30 138 20:48
TDS 1436:38 138 37:59
171 1540:27 139 31:42
171 1613:20 139 24:21
TDS 1638:20 140 24:21
171 1721:50 140 56:44
TDS 1835:30 141 10:51
Total Return service loss: 3 hrs 26 mins 46 secs.
03/08: IFA STS-133-G-002

** 14 GRGT 05/1849Z Multiple Orbits
\$\$ CDS DFE reported SGLT-6/TD275 KSAR2 Channel-2 sub frame
61034 data degraded. WSC reset the PGM on the IPE2-B side at
1925Z. IPE2-B reboot was performed at 06/0355Z and
subsequent event was nominal. Under investigation.
Orbit Loss (mm:ss)
141 10:48 (Virtual S/C)
142 2:25 (STS)
143 4:22 (Virtual S/C)
143 13:42 (STS)
Total Return service loss: 31 mins 17secs.
03/08: IFA STS-133-G-003 (GDIS-R Return Service Anomaly)
03/09: Problem Closed to Master CDS 60927

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**	15	GRGT	07/1624Z	Orbit 171
\$\$				
	CDS 61056		SGLT-6/TD275 SSA2R 192 kbps data was corrupted causing noise on the A/G loops. WSC reset the PGM at GRGT and WSGT with no change in data. Return service loss 14 min 39 sec. Under investigation. 03/08: IFA STS-133-G-003 (GDIS-R Return Service Anomaly) 03/09: Problem Closed to Master CDS 60927	
\$\$	16	STGT	07/1818Z	Orbit 172
	CDS 61059		SGLT-3/TD171 KSAR2 A-Chain failed to lock at AOS. An auto failover from A-Chain to B-Chain occurred resulting in good lock. No data loss reported. Under investigation. 03/12: Channel-to-Channel Adapters (CCA) removed, cleaned and reinstalled. Successful loop test performed. Problem closed.	
**	17	GRGT	07/1947Z	Orbit 173
\$\$				
	CDS 61061		DFE reported SGLT-6/TD275 KSA1 Channel-2 degraded data. A failover from Chain-B to Chain-A was performed with no change in data quality. 7 mins 32 secs data loss. Under investigation. 03/08: IFA STS-133-G-003 (GDIS-R Return Service Anomaly) 03/09: Problem Closed to Master CDS 60927	
\$\$	18	STGT	08/0042:11Z	Orbit 176
	CDS 61065		SGLT-3/TD171 KSA2R Chain-A channel 3 failed to lock causing an auto failover to Chain-B. A Recover From Maintenance (RFM) was performed to acquire lock. A RFM was performed again at 0114:49 when STS dropped RF and when RF return Channel-3 did not reacquire. No data loss reported. Under investigation. 03/15: Channel-to-Channel Adapters (CCA) removed, cleaned and reinstalled. Successful loop test performed. No problems noted since fix. Problem closed.	
\$\$	19	STGT	08/0448:46Z	Orbit 177
	CDS 61067		SGLT-3/TD171 B-Chain Channel-3 lost lock causing an auto failover to Chain-A. A Recover From Maintenance (RFM) was performed to acquire lock. No data loss reported. Under investigation. 03/15: Channel-to-Channel Adapters (CCA) removed, cleaned and reinstalled. Successful loop test performed. No problems noted since fix. Problem closed.	

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20 STGT 08/1623:48Z Orbit 187
 CDS SGLT-1/TDS KSAR2 A-Chain had false lock after expected RF
 61070 drop. B-Chain acquired good lock initiating an auto failover
 from A-Chain to B-Chain. Fault management software worked
 as designed. 0 mins 34 secs data loss. Problem closed.

B. Ground Network (GN):

1 MILA 02/0344Z Orbit 84
 CDS JSC reported invalid tracking data during a two-way proficiency
 259386 pass. MFR# 5 Tracking Receiver was incorrectly configured to
 fixed mode vice auto acquisition. Operator Error
 4 min tracking data loss.
 RCCA 000796 Opened. Problem Closed.

2 JDIC 03/2103Z Orbit 112
 JCN 2011 Red due to a shorted focus coil; could not stay in transmit mode.
 0629113 Spare focus coil was shipped from MLAC and installed. Fully
 Mission Capable (FMC) at 04/0200Z. No supports were
 scheduled during timeframe. No impact. Problem closed.

3 WLRC 05/2302Z Orbit 144
 DR Lost commercial power at 2302:42Z; unable to support. Power
 458620 restored; static point 3 completed and radar reported green at
 2359Z. Problem closed.

\$\$ 4 FDRC 06/1900Z Multiple
 Orbits
 N/A Unable to support due to high winds.
 ISS 2494
 Orbit 173
 ISS 2495
 Orbit 174
 Supports resumed on Orbit 178. **Problem closed.**

\$\$ 5 DFRC 06/2042Z Orbit 174
 Orbit 175
 N/A Unable to support due to high winds. Supports resumed on Orbit
 178. **Problem closed.**

\$\$ 6 AGO 09/1324Z Orbit 200
 CDS Drops in the 1024 kbps data. Station reported weak signal.
 259404 Under investigation.
03/10: Same amount of data drops recorded on two different tracks and on the backup receiver. FM threshold within specs. Post pass test successfully performed. Problem closed.

C. NISN:

- 1 GSFC/STGT 24/1916Z Pre-Launch
 PMDS Delay Verify-1 service down due to no connectivity into the
 980545 WSC MOVE Switch. STGT reconfigured from the carrier VC-16 channel card to the MOVE switch via the distribution panel restored service at 24/2015Z. Problem closed.
- 2 GSFC/AGO 26/0648Z Orbit 23
 PMDS 10 second dropouts on the GSFC/AGO service occurred from
 980825 26/0648:55Z to 0649:05Z and from 26/0649:25Z to 0649:35Z. RFO provided by AT&T was cleared while checking the International segment. Problem closed.
- 3 JPL/STGT 26/2018Z Orbit 32
 PMDS JPL/STGT DS-3. GCC reported service bounce for 30 seconds,
 980842 26/2018:20Z to 26/2018:50Z. Services re-routed. Outage due to high level OC-48 carrier hit between Bakersfield, CA and Las Vegas, NV. No impact reported. Problem closed.
- 4 JSC/MSFC 26/2307Z Orbit 34
 PMDS JSC/MSFC DS-3. GCC reported service was down from
 980847 26/2307:19Z to 26/2310:10Z. Services alt-routed. Outage due to errors into the Local Exchange Carrier (LNS) in the Katy, TX central office from the JSC customer location
 No impact reported. Problem closed.
- 5 JPL/STGT 28/0413Z Orbit 53
 PMDS DS-3 bounces at 28/04:13:49Z for 50 secs and at 28/04:43:39Z
 980868 for 27 sec. LSP'S alt-routed. RFO pending from AT&T. Under investigation.
 03/01/11:
 All services were placed back on their nominal path on 28/1321Z. No reported impact. Under Observation
 03/02:
 Observation period concluded. Problem closed.

6 PMDS 981137	GSFC/WSC 28/2040:08Z Orbit 63 OC-12 went down for 31 seconds. Services rerouted. RFO occurred during repair activity to cut fibers between two Quest central offices in Las Cruces, NM. No data loss reported. Under observation. 03/03: Normalized at 03/1620Z. Under observation. 03/04: Observation period concluded. Problem Closed
7 PMDS 982115	GSFC/AGO 04/0836Z Orbit 118 T1 took multiple hits since 08:36:43Z. AT&T was contacted and circuit was logged out for testing at 0915Z. Passes on Orbits 122 & 123 were deleted. ETRO unknown. Under investigation. 03/04 : A Coaxial Cable was replace at AGO connecting to their Entel Tower. T1 restored at 1939Z. Under observation. 03/08: Problem closed.
8 PMDS 982327	GSFC/JPL 04/2057:38Z Orbit 127 OC-3 took a 26 seconds hit. Services alt-routed. RFO: errors within the AT&T Network between Greenbelt, MD. and Los Angeles, CA. No impact reported. LSP's normalized at 05/1723Z. Observation period concluded. Problem closed
9 PMDS 982331	GSFC/DFRC 04/2058Z Orbit 127 Satellite link went down causing voice/data services on the interface to be inoperative. Contingency services were made good on the Terrestrial link at 2221Z. RFO unknown. At 05/0348Z Satellite link was restored and services returned at 05/1910Z. Under observation. 03/08: Observation period concluded. Problem closed.

D. Other:

1 IPR 133V0106	KSC 23/0155Z Pre-Launch KSC firing Room reported not receiving ET TV from MILA during 2 scheduled RF checks. KSC Technician reseated an Operational Television (OTV) system card and MILA performed successful ET TV playbacks and the RF checks were rerun successfully. No impact. Problem closed.
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2 JCN 2011053910 0	KSC/WFF Backup LTAS KSC-712 direct line from KSC to WFF down. A make good from KSC through GSFC to WFF was established (GKSC-62162 to GWLP-59510) restoring backup LTAS to Wallops Range. KSC-712 back in service 24/1658Z. No impact. Problem closed.	23/1759Z Pre-Launch
3 PMDS 980255	WSSH Echo reported on Track Coord. WSC advised the problem was on WSSH channel 24. Found that Track Coord was configured to the MPS (radio) Coord; WSSH dropped this configuration and the problem cleared. Problem closed.	23/1927Z Pre-Launch
4 PMDS 980314	JSC/MSFC PAO Coord experienced noise coming from MSFC. Alt-route performed and noise cleared. Problem closed.	24/0209Z Pre-Launch
5 PMDS 980383	MSFC GSFC VTO advised that MSFC voice reception was distorted on TV Conference. MSFC Technician adjusted the gain on an interface card corrected the problem. Problem closed.	24/1411Z Pre-Launch
6 JCN 2011055910 9	ER MILA reported not receiving LTAS. A failed Emulex card in the ER Flight Operations Front End Processor was replaced and service restored at 24/1852Z. No impact. Problem closed.	24/1634Z Pre-Launch
7 DR 1916	FDRC Playback data time-tag during GMT roll over causes invalid tracking data. Time-tag indicates the day data being played on vice the day data recorded. Known problem. No work around available. 2/28/11: Work around being developed. 3/04/11: As a work-around, DFRC will use the DES for supports occurring during a GMT day roll over. Problem Closed.	24/2342Z ISS Orbit 2324
8 PMDS 980660	WSC Low levels on the TN Coord from WSC. Make good established with no change to levels. STGT headsets not compatible with MOVE. NISN shipped new headsets. Circuit normalized at 25/1756Z. No impact. Problem closed.	25/1518Z Orbit 13

9	FRCC	26/0008Z	ISS Orbit 2340
DR 1917	Unable to acquire. Invalid data points. 2/28/11: Azimuth sample and hold card aligned using a CW signal from the bore-site tower. Error signal and the servo response currently nominal. Under observation. 03/04 Update: No further anomalies have occurred and unable to duplicate. Problem closed.		
10	KSC	26/0234Z	Orbit 20
PMDS 980817	KSC LAN-B router backup interface on the Closed IONET dropped for 5 seconds at 26/0234:37Z due to loss of routing protocol. Not a carrier-related issue. No impacts reported. Problem closed.		
11	DFRC	28/1546Z	Orbit 60
PMDS 981188	Echo on Cooling Net following DFRC extending loop to the SPA. Equipment reset at the SPA cleared the echo. Under observation. 03/01: Observation period concluded. Problem closed.		
\$\$	12	FRCC	08/1000Z
DR 1921	The azimuth channel has reduced servo response when off the null by more than 1 mil. Workaround is to increase the azimuth bandwidth from 2 to 3 to increase servo response. Work around may not be sufficient for high elevation tracks. 03/09: Azimuth phase match limiter was replaced and the system is functioning properly. Problem closed.		

IV. Problems Reported during STS-133 (Unresolved)

A. Space Network (SN):

1	WSC	24/2052Z	Pre-Launch
CDS 60905	Vector Auto Throughput Mode inoperable. Correction to Rule Set established the Auto throughput Mode at 24/2121Z. No impact. Under observation		
	03/02: Assigned to Software. Under investigation		
	03/08: Local Operating Procedure update in progress.		
2	STGT	25/0543Z	Orbit 6
		25/1425Z	Orbit 12
CDS 60910	JSC reported dropouts on SGLT-3/171 forward link. A forward reacquisition GCMR was sent with no change. WSC Delogs indicated no forward equipment problems. No predicted RFI during timeframe. 5 minute data loss.		
	2/25: JSC reported forward link dropouts on Orbit 12. JSC reconfigured the S-band to low frequency at 1513:06Z and dropouts cleared. 48 minutes 32 sec data loss. Under investigation.		
** \$\$	3	GRGT	25/1047Z Multiple Orbits
Master CDS 60927	IFA STS-133-G-003 (GDIS-R Return Service Anomaly) KSA and SSA Return services effected. Internet Protocol (IP) equipment resets required to clear anomaly. Under Investigation.		
	Return service loss:		
	Orbit	Loss (mm:ss)	
	9	46:09	
	13	8:43	
	28	25:00	
	30	18:14	
	32	22:36	
	34	20:30	
	124	10:46	
	133	14:01	
	135	5:56	
	141	10:48 (Virtual S/C)	
	142	2:25	
	143	4:22 (Virtual S/C)	
	143	13:42	
	171	14:39	
	173	7:32	
	Total Return service loss: 3 hrs 48 mins 13 secs.		

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4 STGT 27/1549Z Orbit 45
 CDS Houston TV reported not receiving Shuttle analog video. The
 60939 common carrier mode switch at STGT indicated analog while
 WSGT indicated digital. WSC reconfigured the mode switch to
 analog and video was restored.
 1 hr 7 mins loss of analog video reported. Under investigation.
 03/03:
 SES Americom reported no anomalies were found at the earth
 station.

B. Ground Network (GN):

** 1 WGS 25/0409Z Multiple
 \$\$ Orbits
 CDS Anomaly in the Monitoring & Control software when changing
 259384 from low (default) to high frequency enables the Entertec
 upconverter which brings up the 11M carrier in STDN high.
 STS was configured to TDRS Mode during anomalies. Work
 around in place. Under investigation. IFA STS-133-G-001
 03/03: RCCA 000797 opened.
 03/04: Preliminary Software fix installed 02/2300Z. Under
 observation.
**03/22: Permanent Software fix scheduled to be installed on
 03/23/11.**

\$\$ 2 WGS 05/2302Z Orbit 144
 CDS Services down due to base wide commercial power outage at
 259394 2302:42Z. Back-up generator failed to come online. Power
 restored at 2335Z. 6 mins 0 sec data loss. Under investigation.
 03/09: RCCA 000798 Opened.
**03/22: Two year Switch Gear Maintenance is scheduled on
 4/2/11.**

C. NISN: None

D. Other:

1 WSSH 28/1546Z Orbit 60
PMDS Radio tones reported on Landing Field Prime-1 at JSC and
981187 Cooling Net at KSC. Radio tones were originating from WSSH.
Circuits were blocked at WSGT and tones cleared. Under
investigation.
03/01:
WSTF personnel will be at WSSH on 03/02 for troubleshooting.
Under investigation.
03/02:
WSTF personnel found no problems during troubleshooting on
03/02.
Circuits remain blocked at WSGT.
03/04/1735Z:
JSC reported tones on the DOD COORD originating from
WSSH. Circuit was blocked at WSC and tones cleared.

V. Info Items and Upcoming Events

- Post Mission ND Summary Review will be held on March 29, 2011, 2:30 pm (Central time) at Regents Park III, Houston, Room 212C.
Dial in number: 1.866.685.9425
Passcode: 7996029