Network Control Center

STDN DAILY REPORT
FOR GMT DAYS
01, 02, 03 AND 04 MARCH 2001

Part I. Operations

01 MARCH

A. SN Anomalies - None.

B. ISS/ECOMM Anomalies - None.

C. GN ANOMALIES:

**1. AGS/SWAS Support 01/0409-0421Z**

No downlink from Spacecraft at AOS, commands were sent to Spacecraft but no downlink was seen. TOTS 1 was used to try and scan for the Spacecraft using a plus 20 and minus 20 time bias without success of locating the satellite. TTR # 23674 CDS ID # 18202

**ANOMALY UNKNOWN**
LEO-T 0409-0421Z 10 Min. Svc/Data Loss (Non-Recov)

**2. WGS/EO1 Support 01/1454-1507Z**

The operator was attempting to shut down the screen for the metrums on Node 2 but inadvertently hit the Device Screen window X. The PTP and metrums were started manually. Project received the real time data, prior to the files being pushed to the project they informed the station that the data had been redumped over another site. All data was recovered. TTR # 23675 CDS ID # 18215

**OPERATOR ERROR**
11M 13 Mins. Svc/Data Loss (Recov)

02 MARCH

B. SN Anomalies :

**1. C1313MS Supports 02/1229-1240Z**

GRGT took a commercial power hit, which activated the 11 meter antenna AZ/EL brakes. After transitioning to generators GRGT Personnel were unable to release the antenna brakes necessitating manual hand cranking of the antenna to maintain TDRS commanding and user services. TTR # 23678

**STATION POWER/STATION EQUIPMENT**
275 MAF/R 1229-1233Z 7 Min. 30 Sec. Svc/Data Loss (Recov)
275 MAF/R 1236-1240Z 7 Min. 30 Sec. Svc/Data Loss (Recov)

B. ISS/ECOMM Anomalies - None.

**1. ISS Supports 02/1222-1428Z**

GRGT took a commercial power hit, which activated the 11 meter antenna AZ/EL brakes. After transitioning to generators GRGT Personnel were unable to release the antenna brakes necessitating manual hand cranking of the antenna to maintain TDRS commanding and user services. TTR # 23678

**STATION POWER/STATION EQUIPMENT**
275 1222-1246Z 19 Sec. Svc/Data Loss (Recov)
275 1358-1428Z 03 Min. Svc/Data Loss (Recov)

C. GN Anomalies :

**1. AGS/WIRE Support 02/0315-0319Z**

TPCE connections were lost at 03:15Z. Data was good, and TPCE was scheduled until 03:20Z. Error Message in TPCE terminal window was "wtmsg2: socket timed out, retrying.

sock-poll-write: Network is unreachable, rtmsg, write all out (): broken pipe, cmdsend: data transmission complete". It is possible that the current comm line problem the site is experiencing caused this problem as well.
TTR # 23676 CDS ID # 18216

**STATION ANOMALY**
TOTS-1 3 Min. 45 Sec. Service Loss

## 2. SGS/EO-1 Support 02/0712-0724Z

EO-1 reported that they didn't get the commands through. The station didn't see the commands on their PTP. When looking at the PTP operator noted the warning: Low on virtual memory " message was displayed. At the end of the support the station tried to stop and start the PTP NT S/W, but when loading the desktop we got an error message: Initialization of all M0401 Networks failed. PTP NT software disabling". When clicking ok the PTP NT software shut down. Post pass rebooted the PTP, and by the help of EO-1 MOC we verified that commanding was possible. TTR # 23677 CDS ID# 18217

**STATION EQUIPMENT**
11M 12 Mins. Service Loss 40Secs. Data Loss Recoverable

## 3. AGS/TOMS-EP Support 02/1126-1139Z

TOTS-1 configured correctly for the TOMS support, and the PRT was good, but when the ACC configured for real time, the LHC data receiver timed out and hung the IEEE-488 bus. This stalls the ACC and it does not continue. The operator after confirming configuration and PRT was assisting in the TM building with trouble shooting of the T1 circuit on the GSIPs. By the time CMOC telephoned AGS there was only about 1:30 left in the support. The receiver was reset, and the ACC timeout cleared. By the time the antenna positioned had reached masking. All data was lost. TTR # 23679 CDS # 23679

**STATION EQUIPMENT**
TOTS 13 Min, Svc/Data Loss (Non-Recov)

03 MARCH

A. SN Anomalies - None.

B. ISS/ECOMM Anomalies - None.

C. GN Anomalies :

**1. AGS/WIRE Support 03/0307-0310Z**

Lost connection to project at 0307Z. Message on TPCE terminal same as last nights pass DR#18216, "wtmsg2: socket timed out, retrying sock-poll-write: Network is unreachable rtmsg, write all out (): Broken pipe." One command was sent after this message was received. Good data was still being received, including VCs. The project may have dropped the connection, didn't see a cause locally. TTR # 23681 CDS ID# 18223

**ANOMALY UNKNOWN**
TOTS 0259-0310Z 3 Mins. 49 Secs. Service Loss

**2. AGS/TRACE Support 03/0558-0611Z**

The data receivers and bit syncs would not lock up even though the AGCs were ranging from the mid 20's to 30. The LHC data receiver did lock up during the support from 06:05:40 - 06:08:00, the rest of the support neither data receiver would lock up.
TTR # 23682 CDS # 18226

**STATION EQUIPMENT**
TOTS 0558-0610Z 9 Mins. 31 Secs. Svc/Data Loss (Non-Recov)

**3. AGS/FAST Support 03/0925-0928Z**

The RHC data receiver never locked during this support, but the LHC data receiver locked at AOS and stayed locked until 09:25:10z, we did not have LOS until 09:28:00z. This is the same type of problem we had with Trace #15823 062/0558Z, see IDR

#18226. TTR # 23683 CDS 18227

**STATION EQUIPMENT**
TOTS 0918-0928Z 2 Mins 50 Secs. Svc/Data Loss (Non-Recov)

**4. AGS/TOMS Support 03/1040-10510Z**

Again the same problem as Trace #15823 (IDR 18226) and Fast #17992 (IDR 18227), we had AOS at 062/10:40:23Z, but the RHC data receiver never locked, and the LHC data receiver didn't lock until 062/10:50:50Z. Again, both receivers had good AGC levels during the entire support. TTR # 23684 CDS # 18228

**STATION EQUIPMENT**
TOTS 1040-1054Z 10 Mins. 27 Secs. Svc/Data Loss (Non-Recov)

**5. AGS/WIRE Support 03/1402-1402Z**

TPCE again dropped the R/T window with the following error: wtmsg2: socket timed out, retrying. sock-poll-write: Network is unreachable rtmsg, write all out (): Broken pipe.". The R/T window was reopened right away, but there's no way to tell exact times when this happens. The window I manually opened dropped after 5 commands had been sent, I immediately opened another window and it stayed open the remainder of the support. No further commands were sent though. This has happened during the last 3 Wire supports see IDR #18216 & #18223.
TTR # 23685 CDS # 18229

**STATION EQUIPMENT**
TOTS 1355-1406Z No Data Loss declared

**6. WGS/SAC Support 03/1641-1652Z**

At the predicted AOS system had negative acquisition of the spacecraft. After reporting to project, station was informed that a new IIRV was sent also was instructed to input 1.32 mins of time bias in to system. This was completed but still no acquisition. Time bias was reduced until system acquired spacecraft at 16:51:27Z using -19.5 seconds of time bias. TTR # 23686

CDS # 18230

**ANOMALY UNKNOWN**
TOTS 1641-1653Z 8 Mins. 56 Secs. Svc/Data Loss Unknown if recoverable

**7. AGS/TRACE Support 03/1536-1540Z**

Connection was lost to project three minutes prior to LOS. Support came up and was running fine, but the TPCE was scheduled for LOS 3 minutes prior to the actual LOS. Data was played back from tape and forward to project. File was into 'Q' at 62/1900Z. No data loss. TTR # 23687 CDS # 18231

**ANOMALY UNKNOWN**
TOTS 152658-153927Z 3 Mins. Service Loss

**8. AGS/SWAS Support 03/2056-2107Z**

Comm link problems caused several broken socket connections to project during support. After making four connections during the support this will require a playback from tape, which will be delayed until the next schedule break occurs. TTR # 23688 CDS ID# 18232

**CP ANOMALY**
TOTS 10 Mins 50 Secs. Svc/Data Loss (Recov)

04 MARCH

A. SN Anomalies:

B. ISS/ECOMM Anomalies - None.

C. GN Anomalies :

**1. AGS/WIRE Support 04/0252-0303Z**

At AOS minus 5 connection was attempted via TPCE scheduler. It took several tries but finally connected. At 0259Z lost connection and window at TPCE, broken pipe error; several commands were accomplished after manual reconnection. 0300Z-socket timeout retrying error message, connection was re-established in 45s. Connection window was not dropped this time. Data looked good. 030130 socket timeout error message, re-established in 15s. Connection window was not dropped this time. Accomplished TPB because of dropped connection at 0259Z, queued at 0322Z. This has happened last three nights in a row, WIRE project only. Suspect problem at project. TTR # 23689 CDS ID# 18233

**ANOMALY UNKNOWN**
TOTS-1 No Data Loss Declared

**2. AGS/TRACE Support 04/0616-0617Z**

TPCE dropped connection @ 06:16:30Z, manual reconnect @ 06:17:00Z, Real Time Window still active 4 min. after LOS. PB said it was activated but connect window never appeared and data wasn't flowing from the FEP DB. Terminated RT Window and activated "Manual PB" (didn't need to command the FEP) and data started to flow to the TPCE Buffer. PB Data was completed normally. Unknown if any S/C commands were lost. TTR # 23690 CDS ID# 18234

**ANOMALY UNKNOWN**
TOTS 0610-0621Z 30 Secs. Svc/Data Loss (Recov)

**3. AGS/WIRE Support 04/1526-1527Z**

Station reported T-1 line taking data hits. CP anomaly has been turned over to AT&T carrier. TTR # 23691 CDS ID # 18235

**CP ANOMALY**
TOTS 1522-1532Z 15 Sec. Svc/Data Loss (Recov)

D. HST POCC declared a Spacecraft Emergency at 05/0750Z going

into a safe mode at 05/0638Z after the Magnetic Torquer Command Echo Test failed.

## Part II . Testing Anomalies

A. SN Test - None.

B. GN Test - None.

## Part III. Equipment Status Changes - None.

$ = Changed ETRO
** = New Items

## Part IV. Scheduled Activities:

AGS/SGS/WGS TERRA GSIP Parallel Operations Phase II test 05/1453-1507Z

## Part V. Launch Forecast Changes - None.