



**Network  
Control  
Center**

**STDN DAILY REPORT  
FOR GMT DAYS  
26, 27 AND 28 FEBRUARY 2001**

Part I. Operations

26 FEBRUARY

A. SN Anomalies

**1. FUSE Support**

**26/1110-1130Z**

POCC reported packet with bad Spacecraft ID crashed their Front End Processor, impacting two FUSE events. TTR # 23659

**POCC EQUIPMENT**

275 SSA1F/R 1110-1130Z 8 Min. 10 Sec. Svc/Loss

275 SSA1F/R 1300-1320Z 11 Min. 14 Sec. Svc/Loss

**2. TERRA Support**

**26/2020-2042Z**

SHO did not download due to comm interface failure on SGLT 3 EXEC-A which resulted in an EXEC cluster failure. A failover to the HSM node (SGLT 3 EXEC-B) was not possible due to ongoing maintenance. TTR # 23660

**STATION EQUIPMENT**

171 SSA1F 2020-2042Z 21 Min. 48 Sec. Svc/Data Loss (Recov)

171 KSA1R 2020-2042Z 21 Min. 48 Sec. Svc/Data Loss (Recov)

171 SSA1R 2020-2042Z 21 Min. 48 Sec. Svc/Data Loss (Recov)

B. ISS/ECOMM Anomalies - None.

## C. GN ANOMALIES:

### 1. AGS/WIRE Support

**26 /0519-0524Z**

The TPCE was scheduled incorrectly and the support terminated 5 minutes early. Due to a POCC scheduling error. TTR # 22656  
CDS ID # 18173

#### **OPERATOR ERROR**

TOTS 0513-0524Z 5 Min. Svc/Data Loss (Recov)

### 2. AGS/TRACE Support

**26/0634-0640Z**

The Pack #1 failed to activate reason unknown. A reset of the power cycle and a reboot of Pack #1 was performed to clear the anomaly. TTR # 23657 CDS ID # 18174

#### **STATION EQUIPMENT**

TOTS 0634-0654Z 3 Min Service/Data Loss (Recov)

### 3. AGS/TOMS-EP Support

**26/0754-0807Z**

The station reported low uplink power no commands were sent to the spacecraft reason unknown. TTR # 23658 CDS ID # 18175

#### **ANOMALY UNKNOWN**

TOTS 13 Min Service Loss

### 4. SGS/AM-1 Support

**26/1448-1502Z**

The Analog Matrix Switch was not set up to route commands through the prime GSIP. Due to an operator error. TTR # 23661  
CDS ID # 18181

#### **OPERATOR ERROR**

11 METER 1448-1502Z 13 Min. 12 Sec. Svc/Data Loss (Recov)

## **5. PF1/EO-1 Support**

**26/2146-2200Z**

During the automated station configuration for this pass, the station experienced a temporary power disruption. During the power outage, the antenna lost its current position. When power was restored the pre-pass configuration continued and the pass started but the antenna azimuth angle stopped at its soft limit position. The operator was unable to clear this problem before the pass completed. TTR # 23664 CDS ID# 18183

### **STATION POWER**

11 METER 2146-2200Z 13 Min. 34 Sec. Svc/Data Loss  
(Recov Unknown)

## **6. PF1/EO-1 Support**

**26/2328-2337Z**

After locking up on the downlink and establishing an uplink, the antenna stopped movement about 4 minutes 28 seconds into the pass. Post pass it was determined the antenna azimuth angle Stopped at the soft limits. TTR # 23665 CDS ID # 18185

### **UNKNOWN**

11 METER 2323-2337Z 7 Min. 56 Sec. Svc/Data Loss  
(Recov Unknown)

## **7. WGS/QUICKSCAT Support**

**26/2323-2338Z**

Schedule did not transfer from Master to SCC. Scheduled SCC manually but antenna stayed at stow position at scheduled AOS time. New software was installed today and seemed to be competent as indicated by a good support with EO-1 and SEAWIFS just after installation. The entire system was rebooted prior to the QSCAT support The SCC STATUS MESSAGE WINDOW showed message saying that antenna had positioned to the IP even when antenna was at stow. Operator began trouble shooting, while support was still alive, by moving the antenna to the BoreSite. While moving to the boresite, the QSCAT downlink was captured and antenna began to auto-track. Some data was captured just prior to LOS QMOCC called to inquire as to problem and stated that critical commanding had

been accomplished on pass just prior to the WGS scheduled support. Problem is under investigation. TTR # 23666  
CDS ID # 18190

## **UNKNOWN**

11 METER 2315-2338Z 15 Min. Svc/Data Loss (Recov)

27 FEBRUARY

A. SN Anomalies :

### **1. FUSE Support**

**27/0104-0124Z**

POCC reported a loss of Telemetry data which was the result of a corrupted packet crashing their Front End Processor.  
TTR # 23662

## **POCC EQUIPMENT**

TDS SSA1F/R 0104-0124Z no data loss declared by POCC

### **2. ERBS Support**

**27/0233-0337Z**

MA Return 2 selected for event. After failing to lock at schedule AOS POCC advised to send a forward reacquisition GCMR. MA Return 2 locked shortly then dropped lock. POCC sent another reacquisition GCMR with same result MA Return 1 spun up and Spacecraft acquired at 02:36:53Z. TTR # 23663

## **UNKNOWN**

TDW MAR1 0233-0303Z 3 Min. 3 Sec. Svc/Data Loss (Recov)

### **3. FUSE Support**

**27/1035-1055Z**

POCC unable to establish socket connection. CSC notified TM of POCC's inability to establish socket connection. TM notified Comm Manager made several attempts to establish voice communication between user POCC and IPNOC to troubleshoot the circuit problem. Near the end of the support the TM requested WSC OPS to reset the PTP. The event ended before the LMT's could res

PTP at STGT. TTR # 23668

## **STATION EQUIPMENT**

171 SSA1F/R 1035-1055Z 20 Min. Svc Loss

B. ISS/ECOMM Anomalies - None.

C. GN Anomalies :

### **1. AGS/WIRE Support**

**27/0640-0645Z**

LEO-T failed to setup and run for the support. Investigation indicated it was "Locked Up" and not running. Switched commanding and TLM links to TOTS-1 to complete support. TOTS-1 was reconfigured for commanding and first enable of TLM connection was at 058/06:44:00z, one command sent. Then the TLM connection was dropped. TLM connection was again enabled at 058/06:45:00z, 8 more commands were sent, support completed with no further problems. Only 4m 40s of Real Time data was lost, Post Pass data transfers from TOTS-1 was nominal. LEO-T was rebooted and took the next support without any problems. TTR # 23667 CDS ID # 18191

## **STATION EQUIPMENT**

LEO-T 0640-0649Z 4 Min. 40 Sec. Svc/Data Loss (Recov)

D. TITAN-IV/CENTAUR successfully launched at 2120:00.316Z

E. TDRS-6 Stationkeeping Maneuver was Successful.

28 FEBRUARY

A. SN Anomalies:

### **1. UARS Support**

**28/2050-2114Z**

UARS Front End Processor failed causing data not being received at POCC. To clear the anomaly the Front End

Processor was reset. TTR # 23669

## **POCC EQUIPMENT**

TDE MAF/R 2050-2121Z 23 Min. 30 Sec. Svc/Data Loss (Recov)

B. ISS/ECOMM Anomalies - None.

C. GN Anomalies :

### **1. AGS/QUICKSCAT Support**

**28/1159-1248Z**

Master Computer failed locked up station. Master wiped out ephemeris data from SCC. Had to shutdown the SCC in order to bring it back up, to schedule the pass. After SCC came back up was able to manually schedule the pass using the SCC.

TTR # 23670 CDS ID # 18196

## **STATION EQUIPMENT**

11 METER 1207-1221Z 14 Min Service Loss

### **2. SGS/EO-1 Support**

**28/1220-1225Z**

Due to the Sun interference we did not get a socket connection with the project at AOS. The project had been informed about this through an e-mail sent 02/25/01. We did get lock on the PTP at AOS and it was running during the comm. outage.

When we did reestablished contact with the project by voice, we still did not get socket connection. Operator tried to enable all streams but no success. Looking at task manager showed that the PTP was not responding. Tried once more to enable all streams and the PTP responded and we got socket connection.

No problems during the rest of the support. TTR # 23671  
CDS IS # 18197

## **CP ANOMALY**

11 METER 1220-1234Z 5 Min. Svc/Data Loss (Recov)

### **3. AGS/WIRE Support**

**28/1418-1429Z**

Scheduled LEOT pass had no telemetry connection, but

received all commands, but no telemetry. Tried to connect TLM via LEO-T, and TOTS-1 could not connect as well. Leo-t was not reset or rebooted after this support. Station checks were ok, and next pass ran with no problems. TTR # 23672 CDS ID # 18200

## **STATION EQUIPMENT**

LEO-T 1418-1429Z 11 Min. Svc/Data Loss (Recov)

### **4. PF1/EO-1 Support**

**28/1817-1821Z**

At AOS the ACU was configured in the standby mode vice the program track mode. The operator had to reconfigured the ACU and and re-enable track. TTR # 23673 CDS ID # 18195

## **OPERATOR ERROR**

11 METER 1817-1830Z 2 Min. 30 Sec. Svc/Data Loss (Recov)

## Part II . Testing Anomalies

### A. SN Test:

1. Gravity Probe (GP-B) 28/1630-28/1900Z NCC, NISN, WDISC, WDISC Data Flow GP-B MOC (Palo Alto)

#### **OBJECTIVES:**

Verify Gravity Probe-B (GP-B) command and telemetry data communications over the IONET between the GP-B MOC in Palo Alto, CA and the WDISC.

#### **RESULTS: OBJECTIVE PARTIALLY MET**

#### **REMARKS:**

WDISC engineers connected to GP-B MOC pod 'd1' computer and

at 125 BPS. WDISC transmitted 2 KBPS telemetry data; the MOC sent commands at 2 KBPS.

WDISC engineers connected to GP-B MOC pod 'e1' computer and transmitted 1 KBPS telemetry data; the MOC sent commands to WDISC at 125 BPS. WDISC transmitted 2 KBPS telemetry data; the MOC sent commands at 2 KBPS.

The MOC attempted to transmit a switch command to WDISC. The MOC was able to connect to the secondary WDISC PTP;

however, the WDISC did not receive the command. GP-B MOC is investigating. March 2, 2001 backup day was canceled by the Project.

## B. GN Test - None.

1. LOW POWER TRANSCEIVER 28/1500-28/1800Z  
DEMONSTRATION NCC/MOSA, NISN, LPT/  
GSFC, HITCHHICHER  
POCC (HH POCC)  
ANDGREENBELT SOC  
(BLDG.25)

### OBJECTIVES:

To demonstrate the concept of the Low Power Transceiver (LPT) project to transmit telemetry and receive commands end-to-end from the LPT to HH POCC. The WSC portion was not exercised during this test. Today's demonstration/testing was for the GN mode.

RESULTS: **OBJECTIVE PARTIALLY MET**

### REMARKS:

Objective was partially met. The ground configuration portion was verified but the GN mode was unsuccessful. The LPT engineers suspect a possible problem with the LPT. This test will be rescheduled at a later date.

## Part III. Equipment Status Changes - None.

\$ = Changed ETRO

\*\* = New Items

## Part IV. Scheduled Activities:

SN GALEX Spacecraft End to End Test	01/1600-2200Z 02/1530-2130Z
STS-102 Range Safety Verification Test (1108)	01/1330-1800Z
STS-102 SN Vector Verification Test	01/1400-1600Z

GOES-M I&T #2 Telemetry and Command Test 01/1600-1900Z

AGS/SGS/WGS TERRA GSIP Parallel Operations Test  
01/2337-2349Z

ESTL/TDRS STS MASS MEMORY UNIT (MMU) Test  
01/1645-2100Z

AQUA Flight Operation Team Spacecraft Interface Test #3A  
01/1820-2145Z

UHF AGVS Checkout with OAK HANGER (LION)01/2000-2200Z

AGS/SGS/WGS TERRA GSIP Parallel Operations Test  
01/2337-2349Z

Part V. Launch Forecast Changes - None.