



Wallops 11M/VHF Status

Network Support Group

October 22, 2011



October 2011 NSG



- **Post March 2011 NSG Changes**
 - **Hardware**
 - *Installation of new S-band and X-Band receiving equipment on-going*
 - **Software**
 - *Dewitt M&C software updates associated with hardware upgrade*
 - **Personnel**
 - *No changes*



OSC/Cygnus



- **Station Configuration for OSC/Cygnus**
 - *11M antenna to provide S-band uplink and downlink service to the Cygnus one orbit after separation*

 - *Data transfer through Standard Autonomous File Server (SAFS)*
 - *SAFS accounts have been created*

 - *Open Work*
 - *Scheduling procedures*
 - *Real-time Interface Procedures*



Other Equipment Status Mar 29 – Oct 22



- **VHF1/2 Status**
 - *No S/W or H/W upgrades, no current issues*
 - *Supported 4 VHF-1 ISS tracks; no problems noted*
 - *Supported 8 VHF-2 Soyuz 26 tracks in April 2011; no problems noted*
 - *Supported 8 VHF-2 Soyuz 27 tracks in June 2011*
 - *Encountered problems on first track (orbit 6) due to anomalous TLE data received at all three sites (Wallops, WSC & Dryden). Wallops operators used the 11M Dewitt M&C computer to verify the nominal IIRV acquisition data received via the WADAT computer and determined it showed good track times as compared to the VHF-2 “Fodtrack” times. The AOS times were approximately 40 minutes off between the anomalous TLE and the IIRV. Operators used M&C to convert the good IIRV to a TLE the VHF-2 system could use. Copied the file to the VHF-2 computers and verified matching times. TLE was sent to White Sands and both sites were able to successfully track the Soyuz-27 on the next view. Dryden could not use our TLE due to system incompatibilities.*
- **VHF Open Work**
 - *None*



Open DRs / Testing



- **Discrepancy Reports**

HSF Impact (Y/N)	DR#	System/ Subsystem	Problem Description	Operational Workaround	Current Status	Projected Closure Date
Y	259662	VHF-2 Acquisition Data	Soyuz Pointing Data Anomaly	Manual workaround	Unknown	TBD

- **Open Work**

- *Antenna Control Unit (ACU) Operating System update to close security vulnerability; currently under vendor regression testing.*



Facilities / Open Work



- **Facilities Overview**

Item	Status	Comments
Commercial Power	G	Operational
Generator	G	Operational
UPS	G	The antenna drive equipment does not have UPS protection
HVAC	G	New boiler installed 03/22/11, operational

- **Staffing, Training, and Certification**

- *Staffing level is sufficient to meet all HSF requirements*