SMOV Status & Planning Meeting Notes
8/11/09

- Summary
  o The battery rate-of-charge (ROC) test has been modified to better handle the post-SM4 power environment. WFC3 has done some further analysis on its detected light leak during IR flat-fielding, but the team is not concerned with the effect on the flat fielding product. The COS team is concerned about the quality of the FUV focus (spectral resolution is below expectations) and is considering further focus sweeps to optimize it. This is likely to cause delays to some of the on other COS SMOV scheduling. Another ERO experienced a guidestar re-acq problem and will need to be rescheduled. NCS is cooling the dewar nicely and the target temperature (PID control point) has been reached, with good stability.

- Observatory Status
  o PCS
    ▪ HSTAR 11969, Magnetic Torquer limits flag outside of SAA, logged on day 221, is under investigation.
      • Initial review of the data shows nominal torque commanding
      • likely that the problem is due to an alignment of the B-field with the commanded MTE torques in a low magnetic field environment
      • not likely to be a hardware issue.
  o EPS – Nominal
    ▪ Operations Request 18675 was successfully executed to desensitize the Rate of Charge Test by modifying the Maneuver Rate of Charge limit.
    ▪ EPS has verified that the ROC test threshold was modified as expected during the maneuver at 222/22:05.
  o DMS – Nominal
    ▪ Update of CPM2 & CPM3 EEPROM to FSW 3.2a.
  o All other subsystems are nominal

- SI Status
  o WFC3
    ▪ Science (SDuestua)
      ▪ Nominal.
    ▪ 11433 IR Internal Flats – light leak.
      • Concern about illumination from radiator and telescope.
      • A few percent of scattered light
      • 90% of time, it is not seen
      • Not a concern
        o No effect on creation of the internal flats, as we exclude the affected images.
    ▪ For details, see the attached WFC3_SMOV_SCIENCE_2009-08-11 V2
  o COS
    ▪ Engineering
      ▪ DIB overflow again – HSTAR 11968
        • will update so we do not HSTAR again in future. (ROOL update)
        ▪ New HVNOM values (provided by COS science team);
• LDCHVNMA and LDCHVMXA: [-5097, -5207] volts
  LDCHVNMB and LDCHVMXB: [-5065, -5175] volts
• Segment A: 169 counts
  Segment B: 167 counts
• These changes remove the ‘Divot and Clod’ features.
  o Loss of only a few percent of throughput
• Change to ground limits need to be put into place to affect these changes

  ▪ Science DSahnow
    ▪ FUV focus not optimal. Independent of NUV focus.
      ▪ Spectral resolution
        o Best measurement to date ~ 15,500
        ▪ expectation of 20,000-22,000
        o Impact to future SMOV schedule must be discussed and determined.
    ▪ Preliminary analysis of “Light Leak” test shows no obvious increase in count rates.
    ▪ Spectrographic Performance testing starts later this week.
    ▪ For details, see the attached COS_SMOV_update_11August2009

  ▪ FGS/OTA
    ▪ Nominal

  ▪ ACS
    ▪ ACS SMOV is complete.

  ▪ STIS
    ▪ Science CProffitt
      • NUV Spectral Format and NUV/FUV darks being done this week.
      • NUV high-dark rate showing small decline with time
      • For details, see the attached stis_smov_report_11aug2009

  ▪ NICMOS/NCS
    ▪ Pointing caused the cooldown to pause overnight.
      • This was beneficial as it provided additional time to manage the 8051 limits. We are again cooling now and 0.6K from the control point.
      ▪ CLong.
    ▪ Hit PID control setpoint ~ 6:30pm last night. Within control criteria and very stable.
    ▪ Load current study tomorrow @ 11:00.
      • May result in NICMOS activation
    ▪ NICMOS SMOV
      • Schedules need to be determined
        o But most activities may not be scheduled until Sep.
          ▪ Due to other SMOV/science priorities

  ▪ ERO
    ▪ COS ERO 11503.
      • 1 Reacq failure on 3rd orbit
      • Will need to be rescheduled?
- **P&S Status**
  
  o Calendar/SMS builds
    - SMS222 was delivered yesterday
    - SMS229 is being built now
      - Finals mode processing (but see Replan below)
    - SMS236
      - Need to have any new visits in place by COB Wed.
        o i.e., to the PC by mid-afternoon
  
  o Replans
    - SMS222
      - COS team has identified visits that can be removed pending a later focus adjustment
        o 11489 V1-3, FUV External Spectroscopic Performance
          - ~ 11 orbits total

- **Operations**

  o **FOT**
    - Nominal

  o **PACOR**
    - Nominal
      - Fastracking is nominal

  o **OPUS (TEllis)**
    - Last Friday and over the weekend, we had 10 ACS associations with segmentation violations
      - CALACS (CAL proposal 11889)
        o Warren Hack has a CALACS fix for the segmentation violations
          - will be delivered to the OPUS test environment today if no problems are found in the Monday night auto-regression run.
      - 2 WFC3 associations errored in the pre-archive science pipeline step that performs DADS catalog updates
        o GO proposals 11570 and 11685.
        o Howard Bushouse determined that the errors resulted from members of each association having different numbers of samples (nsamp=13 and 12)
          - leading the cat_wf3 process to look for more extensions than were present in the spt files.
        - The next fast-track data will be coming Wednesday night.

  o **Archive**
    - Nominal
    - Caught up on earlier backlog
      - Another small one is being worked