**IBEX Goat Herder 11 June 18**

The Perigee contacts for Orbit# 409 were nominal for command/telemetry and the inertial maneuver successful.

The SSR pointers were also reset

***Date*** ***Jday*** ***Time***  ***Station*** ***Razor#*** ***USNPR#*** ***PASS/FAIL***

**Sunday, June 10, 2018** 161 0830 AUWA Pass

***Controller*** ***CAR1*** ***CAR2*** ***CAR3*** ***Radius Earth*** ***S-Band Rate*** ***Station PWR***

SWesley 977 13 desc 40ksps

***EBNO Values*** ***EBNO Values 3*** ***AGC Strength***

***EBNO Values 2*** ***AGC Strength 2***

***VC 0*** ***VC 0 Seq Err*** ***VC 1*** ***VC 1 Seq Err***  ***VC 2*** ***VC 2 Seq Err***

1210 5 1405 29 0 0

***VC 2 Write Pointer Start*** 40273 ***VC 2 Write Pointer End*** 40316

***VC 2 Read Pointer Start*** 16431 ***VC 2 Read Pointer End*** 16431

Orbit# 409 Tracking Contact

reset\_master\_timer.scr

ops\_set\_sc\_time.scr

@FTG\_DumpBackorbit(from start,0,0,0,0)

@ACT\_resetTaskRawFailed(AC\_FDC)

CAR# 977 Upload Orbit# 411 ATS 1. IBEX\_2018\_171\_o0411a\_v002.scr(605-707)

IBEX Orbit# 409 PERIGEE Target Vectors 10 June 18 @0830 UTC

J2000 Spin Axis

ECI X 0.225576

ECI Y 0.894463

ECI Z 0.386072

Precession Maneuver

MPS Diff 0.505 deg

\*MPS Diff should be < 1.5\*

Right Ascension - RA 75.846 deg

Declination - DEC 22.710 deg

IBEX Spin Axis vs. Sun Vector

IBEX Sun Angle -2.547 deg

-0.55378500 ActNor.EstInrToBdy[0]

-0.01692910 ActNor.EstInrToBdy[1]

-0.22814200 ActNor.EstInrToBdy[2]

0.80061700 ActNor.EstInrToBdy[3]

1212660000.000 ActNor.EstTime

MPS Generated PERIGEE Target Vectors

MPS Cmd Vector X 0.221459000

MPS Cmd Vector Y 0.898369000

MPS Cmd Vector Z 0.379327000

CSS Angle TLM 0.733287

CSS Sun-Pointing Angle 1.466574

06 June18 @1330

CSS Angle TLM 0.195835

CSS Sun-Pointing Angle 0.39167

10 June18 @0830

Pre-Burn

Thruster 1 2240 06 Jube 18 @1330

Thruster 2 2176

Thruster 3 2368

Thruster 4 2432

Post-Burn

Thruster 1 2528 10 June18 @0830

Thruster 2 2464

Thruster 3 2672

Thruster 4 2736

Number of Pulses

Thruster 1 288

Thruster 2 288

Thruster 3 304

Thruster 4 304

Thruster Pairs

Thruster 1 & 2 576

Thruster 3 & 4 608

***Date*** ***Jday*** ***Time***  ***Station*** ***Razor#*** ***USNPR#*** ***PASS/FAIL***

**Monday, June 11, 2018** 162 0600 USHI02 Pass

***Controller*** ***CAR1*** ***CAR2*** ***CAR3*** ***Radius Earth*** ***S-Band Rate*** ***Station PWR***

SWesley 17 asc 160ksps

***EBNO Values*** ***EBNO Values 3*** ***AGC Strength***

***EBNO Values 2*** ***AGC Strength 2***

***VC 0*** ***VC 0 Seq Err*** ***VC 1*** ***VC 1 Seq Err***  ***VC 2*** ***VC 2 Seq Err***

996 2 1309 0 25253 0

***VC 2 Write Pointer Start*** 41677 ***VC 2 Write Pointer End*** 6592

***VC 2 Read Pointer Start*** 16431 ***VC 2 Read Pointer End*** 6500

Orbit# 409 SSR\_Dump/Tracking Contact

@FMI\_SetDownlink(320k)

SSR\_Dump.scr(new,RESET\_PNTRS\_6500)

@FTG\_DumpBAckorbit (from start,0,0,0,0)