13194 - COS Side 2 Internal NUV Wavelength Verification

Cycle: 28, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	WAVE	COS/NUV	1	07-Jan-2021 09:01:40.0	yes
02	WAVE	COS/NUV	1	07-Jan-2021 09:01:41.0	yes

2 Total Orbits Used

ABSTRACT

Test that the OSM2 coarse resolver goes to the proper location at all extreme NUV central wavelength settings using the side-2 electronics.

OBSERVING DESCRIPTION

COS SIDE-2 ACTIVITY TITLE: COS Side 2 Internal NUV Wavelength Verification

PURPOSE OF PROGRAM:

Test that the OSM2 coarse resolver goes to the proper location at all extreme central wavelength settings using the side-2 electronics.

DESCRIPTION OF PROGRAM:
Visit 01 (internal) - Take lampflash data at G185M central wavelengths [1786, 2010], G225M [2186, 2410], G285M [2617, 3094], and G230L 2635.
Visit 02 (internal) - Take lampflash data at G230L central wavelength 3360.

This entire activity will be conducted as a series of internal exposures

DEPENDENCIES:

DURATION: 2 orbits (internal)

--------- Additional Comments ----------

SCHEDULING CONSTRAINTS:
** Following a success oriented approach the constraints in this program were modified: This program should
only execute after program 13189 (COS Side 2 NUV Detector Recovery After MEB Side Switch) completes - C. Oliveira Aug 28 2013 **

ANALYSES & EXPECTED RESULTS:
Wavecal data will be run through CALCOS in order to determine the SHIFT1A and SHIFT1B keywords, the cross-correlation AD offset from the LAMPTAB template taken with side-1 electronics.
Shifts should be no greater than 1/2 FP-POS.

Special software needs: None

FTEs (days/weeks) needed for analysis: 1 FTE day

All comments above here are from the original submission by Sean Lockwood

2017-10-23: PI switched to Nick Indriolo and CO-Is no longer on the COS team removed

Visit

Proposal 13194, Visit 01, implementation Thu Jan 07 14:01:41 GMT 2021

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Comments: G185M, G225M, G285M, and first of G230L wavecal exposures for side-2 electronics switch.

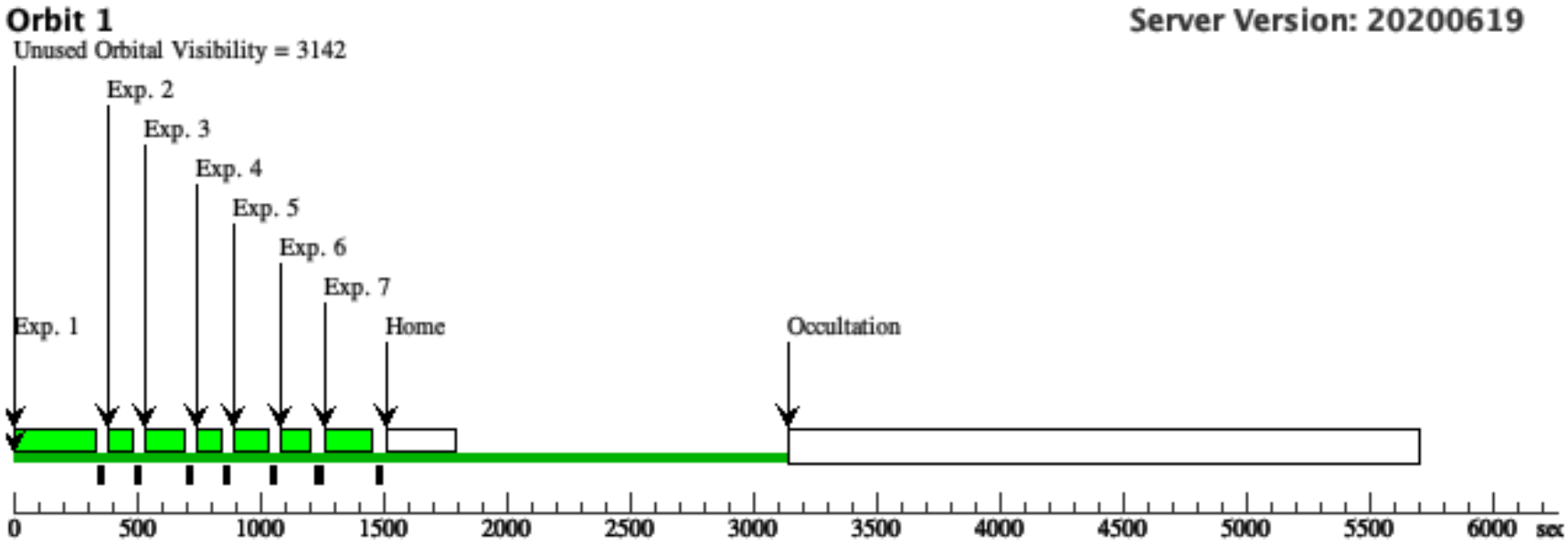
Diagnostics

(Visit 01) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		WAVE	COS/NUV, TIME-TAG, WCA	G185M 1786 A	FP-POS=3			*[==>]*	***[1]***
2		WAVE	COS/NUV, TIME-TAG, WCA	G185M 2010 A	FP-POS=3			*[==>]*	***[1]***
3		WAVE	COS/NUV, TIME-TAG, WCA	G225M 2186 A	FP-POS=3			*[==>]*	***[1]***
4		WAVE	COS/NUV, TIME-TAG, WCA	G225M 2410 A	FP-POS=3			*[==>]*	***[1]***
5		WAVE	COS/NUV, TIME-TAG, WCA	G285M 2617 A	FP-POS=3			*[==>]*	***[1]***
6		WAVE	COS/NUV, TIME-TAG, WCA	G285M 3094 A	FP-POS=3			*[==>]*	***[1]***
7		WAVE	COS/NUV, TIME-TAG, WCA	G230L 2635 A	FP-POS=3			*[==>]*	***[1]***

Orbit Structure



Visit

Proposal 13194, Visit 02, implementation

Thu Jan 07 14:01:41 GMT 2021

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/NUV

Special Requirements: (none)

Comments: Remaining G230L wavecal exposure for side-2 electronics switch.

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		WAVE	COS/NUV, TIME-TAG, WCA	G230L 3360 A	FP-POS=3			*[==>]*	***[1]***

Orbit Structure