

12677 - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

Cycle: 18, 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?
1N	NONE	COS	1	02-Sep-2011 21:18:55.0	yes
	WAVE	COS/FUV			
2N	NONE	COS	1	02-Sep-2011 21:19:04.0	yes
	WAVE	COS/FUV			
3N	NONE	COS	1	02-Sep-2011 21:19:12.0	yes
	WAVE	COS/FUV			
4N	NONE	COS	1	02-Sep-2011 21:19:21.0	yes
	WAVE	COS/FUV			
5N	NONE	COS	1	02-Sep-2011 21:19:28.0	yes
	WAVE	COS/FUV			

Proposal 12677 (STScI Edit Number: 5, Created: Friday, September 2, 2011 8:20:51 PM EST) - Overview

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
6N	NONE WAVE	COS COS/FUV	1	02-Sep-2011 21:19:36.0	yes
1S	NONE WAVE	COS COS/FUV	1	02-Sep-2011 21:19:43.0	yes
2S	NONE WAVE	COS COS/FUV	1	02-Sep-2011 21:19:50.0	yes
3S	NONE WAVE	COS COS/FUV	1	02-Sep-2011 21:19:59.0	yes
4S	NONE WAVE	COS COS/FUV	1	02-Sep-2011 21:20:10.0	yes
5S	NONE WAVE	COS COS/FUV	1	02-Sep-2011 21:20:17.0	yes
6S	NONE WAVE	COS COS/FUV	1	02-Sep-2011 21:20:24.0	yes
10	WAVE	COS/FUV	1	02-Sep-2011 21:20:32.0	yes
11	WAVE	COS/FUV	1	02-Sep-2011 21:20:36.0	yes
12	WAVE	COS/FUV	1	02-Sep-2011 21:20:40.0	yes
13	WAVE	COS/FUV	1	02-Sep-2011 21:20:46.0	yes

16 Total Orbits Used

ABSTRACT

This program determines which cross-dispersion locations lead to wavecal lamp (PtNe) light leaking through the flat-field calibration aperture (FCA). This unexpected effect, observed initially in program 12096, led to a shut down of the COS/FUV detector due to a global count rate violation in Segment A of the G140L/1230 setting. Detector threshold is 600,000 FEC counts in 10 seconds on each segment. If this level is exceeded, the detector shuts down the HV.

In program 12096, for the G140L/1230 setting, at +6" from the nominal position in the cross-dispersion direction, 180,000 cts/sec were observed through the FCA in Segment A, and 49,000 cts/sec in Segment B (PtNe/FCA). The corresponding wavecal count rate (PtNe/WCA) is 685 cts/sec in

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Segment A, implying that there is a scale factor of 263 between the FCA and WCA count rates. This scale factor could not be verified for Segment B, given that the PtNe lamp does not produce counts at the short wavelengths seen by G140L/1230/FUVB. However, this scaling factor is expected to be the same for both segments.

The scaling factor derived from program 12096 is then used to predict the FCA count rates seen with all the gratings, in off-nominal positions where light might leak through the FCA in the current program.

There is no light leak between the nominal position and positions up to and including +3" (at least not in Mar 2010 when program 12096 executed), but somewhere above +3" and certainly at +6" the PtNe light starts leaking through the FCA.

Light is not predicted to leak at negative POS-TARG positions from the nominal, and the purpose of this program is to verify that as well.

Visits 1N to 6N take data at positions from +1.0" to +6.0", while visits 1S to 6S take data at positions from -1.0" to -6.0". Visits 10 through 13 take data at the nominal position, 0.0".

At each position in the detector data is taken with the following settings:

G130M/1055/1291/1327, G160M/1577/1623, and G140L/1280/1105, in this order.

LAMP2 with CURRENT=LOW is used in all of these visits. In addition, at each position, one exposure with LAMP1 CURRENT=MED is also taken with the G130M/1055 setting, which leads to total counts in 10 sec more than a factor of 10 below the 600,000 limit. This exposure is used so that the ratio of LAMP1/MED to LAMP2/LOW can be calculated for the FCA at each position (in conjunction with the data obtained in visits 11, 12, and 13; see below). In addition, the G130M/1055 exposures with LAMP1/MED and LAMP2/LOW will be used to determine if the lamp spot size is changing at each position.

Depending on the total counts estimated for each setting, either a typical wave exposure is taken or special flash commands are used. Details are given in each visit.

Exposures obtained with LAMP1/CURRENT=LOW are expected to have a ~20% smaller count rate than exposures obtained with LAMP1/CURRENT=MED. Exposures obtained with LAMP2/CURRENT=MED are expected to have count rates similar to those obtained with LAMP1/CURRENT=MED, and exposures obtained with LAMP2/CURRENT=LOW are expected to have a count rate which is ~1/7 of that obtained with LAMP2/CURRENT=MED.

VISIT 10 OBTAINS LAMP1/CURRENT=MED+ LOW SPECTRA AT ALL THE M SETTINGS USED IN THIS PROGRAM, AT THE NOMINAL POSITION (0.0").

Proposal 12677 (STScI Edit Number: 5, Created: Friday, September 2, 2011 8:20:51 PM EST) - Overview VISIT 11 OBTAINS LAMP2/CURRENT=MED SPECTRA AT ALL THE M SETTINGS USED IN THIS PROGRAM, AT THE NOMINAL POSITION (0.0").

VISIT 12 OBTAINS LAMP2/CURRENT=LOW SPECTRA AT ALL THE M SETTINGS USED IN THIS PROGRAM, AT THE NOMINAL POSITION (0.0").

VISIT 13 OBTAINS LAMP1/CURRENT=MED, LOW AND LAMP2/CURRENT=MED, LOW SPECTRA AT ALL OF THE L SETTINGS USED IN THIS PROGRAM,

AT THE NOMINAL POSITION (0.0").

THE GOAL OF THESE VISITS IS TO DETERMINE THE RATIOS OF THE DIFFERENT LAMP SETTINGS AT DIFFERENT WAVELENGTHS, TO HELP IN ANALYZING THE DATA OBTAINED IN VISITS WHERE ONLY LAMP2/LOW IS USED.

ALSO, THESE DATA WILL BE USED TO PREDICT WHAT THE COUNTS WOULD BE WITH G140L/1280/LAMP1/MED AT THE +6.0" POSITION (VIS6N, WHERE LAMP2/LOW IS USED). THESE COUNTS WILL BE COMPARED WITH THE COUNTS OBTAINED IN PROGRAM 12096 WITH G140L/1230/LAMP1/MED, MORE THAN ONE YEAR AGO, TO LOOK FOR VARIABILITY, POSSIBLY INDICATING CHANGES TO THE LAMP SPOT SIZE.

Visits 10 through 13, all executed at the nominal position, pose no safety concerns.

CONSTRAINTS:

- Visits 1N, 2N, 3N can be executed back to back as no light is expected to leak through the FCA. Visit 1N should execute before visit 2N, which should execute before visit 3N.
- Visits 1S, 2S, and 3S can be executed back to back and do not have constraints relative to the other visits. Visit 1S should execute before visit 2S, which should execute before visit 3S
- Visits 10, 11, 12, and 13 (data obtained at nominal position), can also be executed back to back and have no constraints relative to other visits. However, these visits should be scheduled as soon as possible, because results of data analysis will be used to inform execution of program 12678.
- There should be an interval of at least two days between any of the visits mentioned above and the other visits in this program (4N, 5N, 6N, 4S, 5S,

Proposal 12677 (STScI Edit Number: 5, Created: Friday, September 2, 2011 8:20:51 PM EST) - Overview 6S) which could see light leaking through the FCA.

- Visits 4S and 4N can be scheduled in the same week, but they don't need to be.
- Visits 5S and 5N can be scheduled in the same week, but they don't need to be.
- There should be an interval of at least 3 weeks between visit 4N and visit 5N.
- Visits 6S and 6N can be scheduled in the same week, but they don't need to be.
- There should be an interval of at least 3 weeks between visit 5N and visit 6N.
- Visits 1S through 5S should be scheduled as soon as possible, the same is true for visits 1N to 4N.

OBSERVING DESCRIPTION

This program maps stray light from the PtNe lamp that goes through the FCA when the aperture is moved in the cross-dispersion direction. Settings used in this program are:

G130M/1055/FP-POS=4

G130M/1291/FP-POS=3

G130M/1327/FP-POS=1

G140L/1105/FP-POS=4

G140L/1280/FP-POS=1

G160M/1577/FP-POS=4

G160M/1623/FP-POS=1

ADDITIONAL COMMENTS

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ISQL is required to bypass calibration for exposures using G130M with the 1055 central wavelength. See exposure level comments.

(Visit 1N) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Diagnostics

Proposal 12677 - Visit 1N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

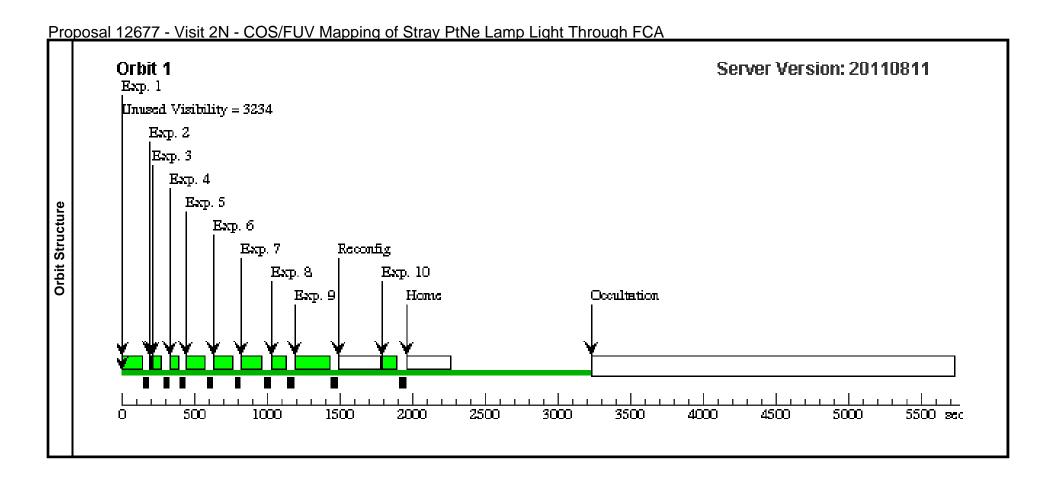
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Regs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	G130M-105		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4			10 Secs	
	5-FP4-LAM P1MED_0.0			1055 A				[==>]	[1]
LA.	MP ON FOR F	ULL 10 SEC N	AT NOMINAL POSITION, WITH NOMINAL IO SPECIAL FLASH COMMANDS USED.	LAMP/CURRENT	SETTING				
2	QL is needed to Ap Lifetime	**	COS, ALIGN/APER		XAPER=-21;			0.0 Secs	
2	Position +1.	NONE	COS, ALIGN/AFER		YAPER=0			[==>]	617
_	0 arcsec						0.0456)	[>]	[1]
2		•	.0" postarg to map FCA/PtNe light. This corr	•		,	· · · · · · · · · · · · · · · · · · ·	10 5	
3	G130M-105 5-FP4-LAM		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4	SPEC COM INSTR ELNOAPMAIN		10 Secs	
	P1MED_+1.			1055 A				[==>]	[1]
LA.	mments: LAMP MP1 MEDIUM	CURRENT U		D					
15 <u>C</u>	QL is needed to G130M-105	**	COS/FUV. TIME-TAG. WCA	G130M	FP-POS=4;	SPEC COM INSTR		10 Secs	
4	5-FP4-LAM		COS/FUV, HIME-TAG, WCA	1055 A	CURRENT=LOW	ELNOAPMAIN;	•	[==>]	
	P2LOW_+1.			1033 A	CURRENT-LOW	QESIPARM USEL MP LINE2	A	[>]	[1]
LA.	MP2 LOW CUI QL is needed to	RRENT USED. bypass calibra	tion.						
5	G130M-129 1-FP3-LAM		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;	SPEC COM INSTR ELNOAPMAIN:		8 Secs	
	P2LOW_+1.			1291 A	CURRENT=LOW	QESIPARM USEL MP LINE2	A	[==>]	[1]
	mments: LAMP MP2 LOW CUI		EC NO SPECIAL FLASH COMMANDS USEE)					
6	G130M-132		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;	SPEC COM INSTR		8 Secs	
	7-FP1-LAM P2LOW_+1. 0			1327 A	CURRENT=LOW	ELNOAPMAIN; QESIPARM USEL MP LINE2	A	[==>]	[1]
	mments: LAMP MP2 LOW CUI		EC NO SPECIAL FLASH COMMANDS USEE)		511,152			ļ.
7	G160M-157		COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4;	SPEC COM INSTR		15 Secs	
	7-FP4-LAM P2LOW_+1.			1577 A	FLASH=S0011D00	ELNOAPMAIN;		[==>]	
	0				3;	QESIPARM USEL MP LINE2	A		[1]
Co.	mments: TWO	SEC FLASHI	ES SEPARATED BY 11 SEC ARE USED		CURRENT=LOW				
LA.	MP2 LOW CUI								
8	G160M-162 3-FP1-LAM	WAVE	COS/FUV, TIME-TAG, WCA	G160M	FLASH=S0011D003	SPEC COM INSTR ELNOAPMAIN;		15 Secs	
	P2LOW_+1.			1623 A	, FP-POS=1; CURRENT=LOW	QESIPARM USEL MP LINE2	A	[==>]	[1]
	mments: TWO 3 MP2 LOW CUI		ES SEPARATED BY 11 SEC ARE USED						•
	3 201								

Proposal 12677 - Visit 1N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA G140L-1280 WAVE COS/FUV, TIME-TAG, WCA G140L FLASH=S0011D002 SPEC COM INSTR 14 Secs -FP1-LAMP ELNOAPMAIN: 1280 A f = = > 1 $2LOW_{+1.0}$ FP-POS=1; QESIPARM USELA [1] MP LINE2 CURRENT=LOW Comments: TWO 3 SEC FLASHES SEPARATED BY 11 SEC ARE USED LAMP2 LOW CURRENT USED 10 G140L-1105 WAVE COS/FUV, TIME-TAG, WCA G140L FLASH=S0011D002 SPEC COM INSTR 14 Secs -FP4-LAMP ELNOAPMAIN; 1105 A f = = > 12LOW_+1.0 FP-POS=4; QESIPARM USELA [1] MP LINE2 CURRENT=LOW Comments: TWO 2 SEC FLASHES SEPARATED BY 11 SEC ARE USED LAMP2 LOW CURRENT USED Orbit 1 Server Version: 20110811 Exp. 1 Unused Visibility = 3234 Exp. 2 Exp. 3 Exp. 4 Exp. 5 **Orbit Structure** Ехр. 6 Reconfig Exp. 7 Exp. 8 Exp. 10 Home Occultation. Exp. 9 500 2500 3000 0 1000 1500 2000 3500 4000 4500 5000 5500 sec

Diagnostics

Proposal 12677 - Visit 2N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

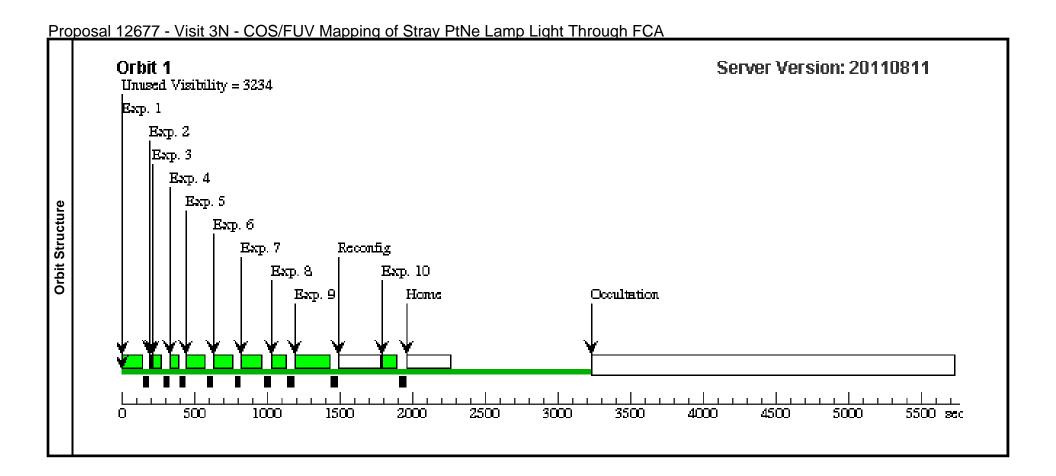
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Regs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	G130M-105		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4			10 Secs	
	5-FP4-LAM P1MED_0.0			1055 A				[==>]	[1]
			AT NOMINAL POSITION, WITH NOMINA	L LAMP/CURRENT	SETTING				
LAN	MP ON FOR F	TULL 10 SEC N	O SPECIAL FLASH COMMANDS USED.						
ISQ	L is needed to	bypass calibra	tion.						
2	Ap Lifetime Position +2.		COS, ALIGN/APER		XAPER=-42;			0.0 Secs	
	0 arcsec				YAPER=0			[==>]	[1]
Con	mments: Move	aperture to +2.	0" postarg to map FCA/PtNe light. This cor	responds to displace	ement across dispersion c	of: +2.0 arcsec (42.x	0.0476)		
3	G130M-105		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4	SPEC COM INSTE	t	10 Secs	
	5-FP4-LAM P1MED_+2.			1055 A		ELNOAPMAIN		[==>]	[1]
	0	•							[1]
Con	mments: WCA/	PtNe light will	be used to see how the resolution of the lam	p changes as we mo	ve.				
ISQ	L is needed to	bypass calibra	tion.						
4	G130M-105		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;	SPEC COM INSTE		10 Secs	
	5-FP4-LAM P2LOW +2.			1055 A	CURRENT=LOW	ELNOAPMAIN;		[==>]	633
	0					QESIPARM USEL MP LINE2	A		[1]
Con	mments: ISQL	is needed to by	pass calibration.						· ·
5	G130M-129		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;	SPEC COM INSTR	?	8 Secs	
	1-FP3-LAM P2LOW_+2			1291 A	CURRENT=LOW	ELNOAPMAIN;		[==>]	
	0	•				QESIPARM USEL MP LINE2	A		[1]
	mments: WCA/	PtNe light will	be used to see how the resolution of the lam	p changes as we mo	ve.	DI (B2			
6	G130M-132	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;	SPEC COM INSTR	2	8 Secs	
	7-FP1-LAM P2LOW_+2			1327 A	CURRENT=LOW	ELNOAPMAIN;		[==>]	
	0	•				QESIPARM USEL MP LINE2	A		[1]
7	G160M-157	WAVE	COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4:	SPEC COM INSTR		15 Secs	
	7-FP4-LAM P2LOW_+2			1577 A	FLASH=S0011D00	ELNOAPMAIN;		f==>1	
	0	•			3;	QESIPARM USEL MP LINE2	A		[1]
-					CURRENT=LOW				
8	G160M-162 3-FP1-LAM		COS/FUV, TIME-TAG, WCA	G160M	FLASH=S0011D003	SPEC COM INSTR ELNOAPMAIN;	R	15 Secs	
	P2LOW_+2			1623 A	, FP-POS=1;	QESIPARM USEL	A	[==>]	[1]
	0				CURRENT=LOW	MP LINE2			[1]
9	G140L-1280		COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002		2	14 Secs	
	-FP1-LAMP 2LOW_+2.0			1280 A	;	ELNOAPMAIN;		[==>]	
	2EO W _T2.0	,			FP-POS=1;	QESIPARM USEL MP LINE2	A		[1]
-					CURRENT=LOW				
10	G140L-1105 -FP4-LAMP		COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002	SPEC COM INSTR ELNOAPMAIN;	R	14 Secs	
	2LOW_+2.0			1105 A	, FP-POS=4;	QESIPARM USEL	A	[==>]	[1]
					CURRENT=LOW	MP LINE2			[1]



Proposal 12677 - Visit 3N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA Proposal 12677, Visit 3N, completed Sat Sep 03 01:20:54 GMT 2011 Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS Special Requirements: AFTER 2N BY 1 S TO 30 D Comments: GLOBAL SOFTWARE MONITOR SHUTS DOWN FUV DETECTOR IF IN ANY SEGMENT THE NUMBER OF FEC COUNTS INTEGRATED OVER A RUNNING BOX OF 10 SEC IS 600,000. ALL THE TOTAL COUNTS GIVEN BELOW ARE CLOSE TO A FACTOR OF 10 OR HIGHER BELOW THIS LIMIT THIS VISIT EXECUTES AT THE +3.0" POSITION. ALL GRATINGS ARE USED. G130M/1055/4 - LAMP1/MED - 10 SEC EXPOSURE - 52,800 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUV B G130M/1055/4 - LAMP2/LOW - 10 SEC EXPOSURE - 7543 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUVB G130M/1291/3 - LAMP2/LOW - 8 SEC EXPOSURE - 65,170 TOTAL CTS IN FUVA & 37,413 TOTAL CTS IN FUVB G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FOVA & 57,413 TOTAL CTS IN FOVB
G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FUVA & 55,515 TOTAL CTS IN FUVB
G160M/1577/4 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 21,723 FUVA & 64,491 FUVB
G160M/1623/1 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 24,891 FUVA & 62,229 FUVB
G140L/1280/1 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 55,063 FUVA & 1,923 FUVB
G140L/1105/4 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 57,175 FUVA & 0 FUVB **Diagnostics** (Visit 3N) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Proposal 12677 - Visit 3N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

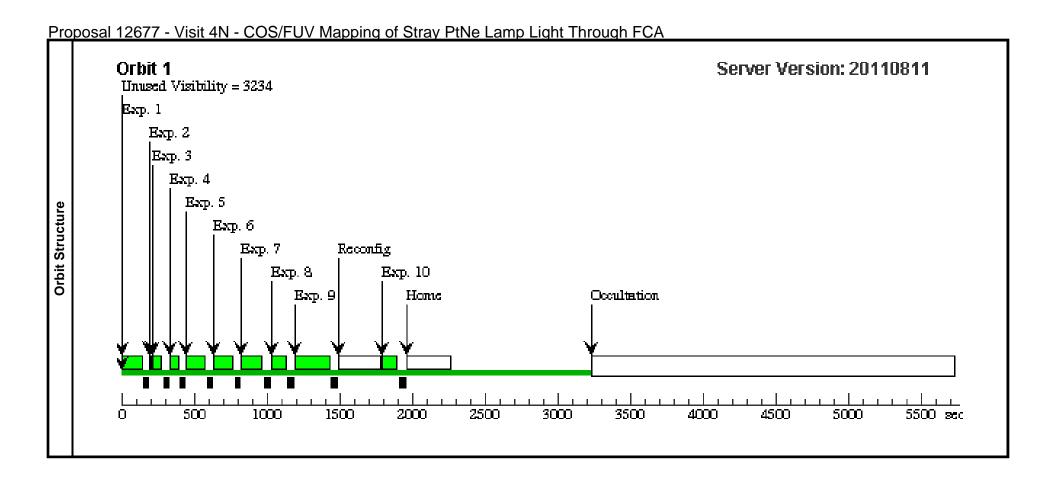
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Regs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	G130M-105	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4			10 Secs	
	5-FP4-LAM P1MED_0.0			1055 A				[==>]	[1]
Co	mments: ISQL i	s needed to byp	ass calibration.						
2	Ap Lifetime	NONE	COS, ALIGN/APER		XAPER=-63;			0.0 Secs	
	Position +3. 0 arcsec				YAPER=0			[==>]	[1]
Co	mments: Move	aperture to +3.0	0" postarg to map FCA/PtNe light. This cor	responds to displace	ement across dispersion o	of: +3.0 arcsec (63.x	0.0476)		
3	G130M-105		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4	SPEC COM INSTR	₹	10 Secs	
	5-FP4-LAM P1MED_+3. 0			1055 A		ELNOAPMAIN		[==>]	[1]
Co	mments: WCA/I	PtNe light will b	be used to see how the resolution of the lamp	changes as we mov	ve.				
ISQ	QL is needed to	bypass calibrati	ion.						
4	G130M-105		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;	SPEC COM INSTE	₹	10 Secs	
	5-FP4-LAM P2LOW_+3.			1055 A	CURRENT=LOW	ELNOAPMAIN;		[==>]	
	0					QESIPARM USEL MP LINE2	A		[1]
Co	mments: ISQL i	s needed to byp	ass calibration.						
5	G130M-129		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;	SPEC COM INSTR	₹	8 Secs	
	1-FP3-LAM P2LOW +3.			1291 A	CURRENT=LOW	ELNOAPMAIN;		I ==> J	
5	0					QESIPARM USEL MP LINE2	A		[1]
6	G130M-132	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;	SPEC COM INSTE	₹	8 Secs	
	7-FP1-LAM P2LOW_+3.			1327 A	CURRENT=LOW	ELNOAPMAIN;		[==>]	
	0					QESIPARM USEL MP LINE2	Α		[1]
7	G160M-157		COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4;	SPEC COM INSTR	₹	15 Secs	
	7-FP4-LAM P2LOW_+3.			1577 A	FLASH=S0011D00	ELNOAPMAIN;		[==>]	
	0 1 2LO W_+3.				3;	QESIPARM USEL MP LINE2	A		[1]
-					CURRENT=LOW				
8	G160M-162 3-FP1-LAM		COS/FUV, TIME-TAG, WCA	G160M	FLASH=S0011D003	SPEC COM INSTR ELNOAPMAIN;	2	15 Secs	
	P2LOW_+3.			1623 A	; FP-POS=1;	OESIPARM USEL	٨	[==>]	
	0				CURRENT=LOW	MP LINE2	A		[1]
9	G140L-1280	WAVE	COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002	SPEC COM INSTE	₹	14 Secs	
	-FP1-LAMP		,	1280 A	;	ELNOAPMAIN;		<i>f</i> ==> <i>1</i>	
	2LOW_+3.0				FP-POS=1;	QESIPARM USEL	A		[1]
					CURRENT=LOW	MP LINE2			
10			COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002		₹	14 Secs	
	-FP4-LAMP 2LOW_+3.0			1105 A	;	ELNOAPMAIN;		I = = > J	
	2LO W_+3.0				FP-POS=4;	QESIPARM USEL MP LINE2	A		[1]
					CURRENT=LOW	WIF LINEZ			1



Proposal 12677 - Visit 4N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA Proposal 12677, Visit 4N, scheduled Sat Sep 03 01:20:55 GMT 2011 Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS Special Requirements: AFTER 3N BY 2 D TO 30 D Comments: GLOBAL SOFTWARE MONITOR SHUTS DOWN FUV DETECTOR IF IN ANY SEGMENT THE NUMBER OF FEC COUNTS INTEGRATED OVER A RUNNING BOX OF 10 SEC IS 600,000. ALL THE TOTAL COUNTS GIVEN BELOW ARE CLOSE TO A FACTOR OF 10 OR HIGHER BELOW THIS LIMIT THIS VISIT EXECUTES AT THE +4.0" POSITION. ALL GRATINGS ARE USED. G130M/1055/4 - LAMP1/MED - 10 SEC EXPOSURE - 52,800 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUV B G130M/1055/4 - LAMP2/LOW - 10 SEC EXPOSURE - 7543 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUVB G130M/1291/3 - LAMP2/LOW - 8 SEC EXPOSURE - 65,170 TOTAL CTS IN FUVA & 37,413 TOTAL CTS IN FUVB G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FOVA & 57,413 TOTAL CTS IN FOVB
G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FUVA & 55,515 TOTAL CTS IN FUVB
G160M/1577/4 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 21,723 FUVA & 64,491 FUVB
G160M/1623/1 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 24,891 FUVA & 62,229 FUVB
G140L/1280/1 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 55,063 FUVA & 1,923 FUVB
G140L/1105/4 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 57,175 FUVA & 0 FUVB **Diagnostics** (Visit 4N) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Proposal 12677 - Visit 4N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Regs.	Groups	Exp. Time/[Actual Dur.]	Orbit
G130M-105	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4			10 Secs	
			1055 A				[==>J	[1]
			L LAMP/CURRENT	SETTING				
L is needed to	bypass calibrati	on.						
	NONE	COS, ALIGN/APER		XAPER=-84;			0.0 Secs	
Position +4. 0 arcsec				YAPER=0			[==>]	[1]
nments: Move	aperture to +4.0	" postarg to map FCA/PtNe light. This cor	responds to displace	ement across dispersion o	of: +4.0 arcsec (84.x	0.0476)		
		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4		1	10 Secs	
			1055 A		ELNOAPMAIN		[==>]	[1]
nments: WCA/	PtNe light will b	e used to see how the resolution of the lam	o changes as we mov	ve.				
L is needed to	bypass calibrati	on.						
		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;		<u> </u>	10 Secs	
			1055 A	CURRENT=LOW	· · · · · · · · · · · · · · · · · · ·		[==>]	
0					MP LINE2	A		[1]
nments: ISQL i	is needed to bype	ass calibration.						
		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;		.	8 Secs	
P2LOW_+4.			1291 A	CURRENT=LOW		Δ	[==>]	[1]
0					MP LINE2			[1]
		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;		l .	8 Secs	
P2LOW_+4.			1327 A	CURRENT=LOW		A	[==>]	[1]
0					MP LINE2			127
		COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4;		1	15 Secs	
P2LOW_+4.			1577 A			A	[==>]	[1]
0				CURRENT=LOW	MP LINE2			[1]
		COS/FUV, TIME-TAG, WCA	G160M	FLASH=S0011D003		<u> </u>	15 Secs	
			1623 A	; ED DOC 1.	,	A	[==>]	
0				*	MP LINE2	A		[1]
G140L-1280	WAVE	COS/FUV, TIME-TAG, WCA	G140L		SPEC COM INSTR	 {	14 Secs	
		•	1280 A	;	ELNOAPMAIN;		[==>]	
2LOW_F4.0				FP-POS=1; CURRENT=LOW	QESIPARM USEL MP LINE2	A		[1]
		COS/FUV, TIME-TAG, WCA	G140L			1	14 Secs	
			1105 A	;	ELNOAPMAIN;		[==>]	
220 11_1-1.0				FP-POS=4; CURRENT=LOW	QESIPARM USEL MP LINE2	A		[1]
1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	G130M-105 5-FP4-LAM P1MED_0.0 ments: 10 SEM PON FOR F L is needed to Ap Lifetime Position +4.0 arcsec ments: Move G130M-105 5-FP4-LAM P1MED_+4.0 ments: WCA/A L is needed to G130M-105 5-FP4-LAM P2LOW_+4.0 G130M-129 1-FP3-LAM P2LOW_+4.0 G130M-132 7-FP1-LAM P2LOW_+4.0 G160M-157 7-FP4-LAM P2LOW_+4.0 G160M-162 3-FP1-LAM P2LOW_+4.0 G140L-1280 -FP1-LAMP P2LOW_+4.0	G130M-105 WAVE 5-FP4-LAM P1MED_0.0 ments: 10 SEC EXPOSURE A MP ON FOR FULL 10 SEC NO L is needed to bypass calibrati Ap Lifetime NONE Position +4. 0 arcsec ments: Move aperture to +4.0 G130M-105 WAVE 5-FP4-LAM P1MED_+4. 0 ments: WCA/PtNe light will b L is needed to bypass calibrati G130M-105 WAVE 5-FP4-LAM P2LOW_+4. 0 ments: ISQL is needed to bypass G130M-129 WAVE 1-FP3-LAM P2LOW_+4. 0 G130M-132 WAVE 7-FP1-LAM P2LOW_+4. 0 G160M-157 WAVE 7-FP4-LAM P2LOW_+4. 0 G160M-162 WAVE 3-FP1-LAM P2LOW_+4. 0	GI30M-105 WAVE S-FP4-LAM PIMED_0.0 mments: 10 SEC EXPOSURE AT NOMINAL POSITION, WITH NOMINAL PON FOR FULL 10 SEC NO SPECIAL FLASH COMMANDS USED. L is needed to bypass calibration. Ap Lifetime NONE Position +4. 0 arcsec ments: Move aperture to +4.0" postarg to map FCA/PtNe light. This corescinents: Move aperture to +4.0" postarg to map FCA/PtNe light. This corescinents: WOA/PtNe light will be used to see how the resolution of the lamped to see how the resolution of the lamped to seeded to bypass calibration. GI30M-105 WAVE COS/FUV, TIME-TAG, WCA S-FP4-LAM P2LOW_+4. 0 GI30M-129 WAVE COS/FUV, TIME-TAG, WCA	G130M-105	G130M-105 WAVE COS/FUV, TIME-TAG, WCA G130M FP-POS=4	G130M	G130A-105 WAVE	Clamb 10S WAVE COSFUV, TIME-TAG, WCA G130M FP-POS=4 10 Sees



Proposal 12677 - Visit 5N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA Proposal 12677, Visit 5N, implementation Sat Sep 03 01:20:55 GMT 2011 Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS Special Requirements: AFTER 4N BY 10 D TO 30 D Comments: GLOBAL SOFTWARE MONITOR SHUTS DOWN FUV DETECTOR IF IN ANY SEGMENT THE NUMBER OF FEC COUNTS INTEGRATED OVER A RUNNING BOX OF 10 SEC IS 600,000. ALL THE TOTAL COUNTS GIVEN BELOW ARE CLOSE TO A FACTOR OF 10 OR HIGHER BELOW THIS LIMIT THIS VISIT EXECUTES AT THE +5.0" POSITION. ALL GRATINGS ARE USED. G130M/1055/4 - LAMP1/MED - 10 SEC EXPOSURE - 52,800 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUV B G130M/1055/4 - LAMP2/LOW - 10 SEC EXPOSURE - 7543 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUVB G130M/1291/3 - LAMP2/LOW - 8 SEC EXPOSURE - 65,170 TOTAL CTS IN FUVA & 37,413 TOTAL CTS IN FUVB G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FOVA & 57,413 TOTAL CTS IN FOVB
G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FUVA & 55,515 TOTAL CTS IN FUVB
G160M/1577/4 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 21,723 FUVA & 64,491 FUVB
G160M/1623/1 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 24,891 FUVA & 62,229 FUVB
G140L/1280/1 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 55,063 FUVA & 1,923 FUVB
G140L/1105/4 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 57,175 FUVA & 0 FUVB **Diagnostics** (Visit 5N) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Proposal 12677 - Visit 5N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

ON FOR FU s needed to be pp Lifetime osition +5. arcsec ents: Move a 5130M-105 -FP4-LAM 21MED_+5. ents: ISQL is 6130M-105 -FP4-LAM 22LOW_+5.	EXPOSURE A VLL 10 SEC Sypass calibrati NONE perture to +5.0 WAVE needed to bype WAVE	COS/FUV, TIME-TAG, WCA AT NOMINAL POSITION, WITH NOMINAL ion. COS, ALIGN/APER O'' postarg to map FCA/PtNe light. This cor COS/FUV, TIME-TAG, WCA ass calibration. COS/FUV, TIME-TAG, WCA		XAPER=-105; YAPER=0	SPEC COM INSTR ELNOAPMAIN SPEC COM INSTR	0.0476)	10 Secs [==>] 0.0 Secs [==>] 10 Secs [==>]	[1]
ents: 10 SEC ON FOR FU s needed to be ap Lifetime losition +5. arcsec ents: Move a 6130M-105 -FP4-LAM ents: ISQL is 6130M-105 -FP4-LAM 2LOW_+5.	VLL 10 SEC Sypass calibrati NONE Perture to +5.0 WAVE Reeded to bype WAVE	ion. COS, ALIGN/APER "postarg to map FCA/PtNe light. This cor COS/FUV, TIME-TAG, WCA ass calibration.	Cresponds to displace G130M 1055 A G130M	0 XAPER=-105; YAPER=0 ement across dispersion of FP-POS=4; FLASH=S0012D01 0 FP-POS=4;	SPEC COM INSTR ELNOAPMAIN SPEC COM INSTR	0.0476)	0.0 Secs $[l==>]$ 10 Secs $[l==>]$	[1]
ON FOR FU s needed to be pp Lifetime osition +5. arcsec ents: Move a 5130M-105 -FP4-LAM 21MED_+5. ents: ISQL is 6130M-105 -FP4-LAM 22LOW_+5.	VLL 10 SEC Sypass calibrati NONE Perture to +5.0 WAVE Reeded to bype WAVE	ion. COS, ALIGN/APER "postarg to map FCA/PtNe light. This cor COS/FUV, TIME-TAG, WCA ass calibration.	G130M 1055 A G130M	XAPER=-105; YAPER=0 ement across dispersion of FP-POS=4; FLASH=S0012D01 0	SPEC COM INSTR ELNOAPMAIN SPEC COM INSTR	0.0476)	[==>] 10 Secs [==>]	
pp Lifetime osition +5. arcsec ents: Move a 6130M-105 -FP4-LAM 1MED_+5. ents: ISQL is 6130M-105 -FP4-LAM 2LOW_+5.	NONE perture to +5.0 WAVE needed to bype WAVE	COS, ALIGN/APER "postarg to map FCA/PtNe light. This cor COS/FUV, TIME-TAG, WCA ass calibration.	G130M 1055 A G130M	YAPER=0 ement across dispersion of FP-POS=4; FLASH=S0012D01 0 FP-POS=4;	SPEC COM INSTR ELNOAPMAIN SPEC COM INSTR	0.0476)	[==>] 10 Secs [==>]	
osition +5. arcsec ents: Move a 6130M-105 -FP4-LAM 1MED_+5. ents: ISQL is 6130M-105 -FP4-LAM '2LOW_+5.	perture to +5.0 WAVE needed to bype WAVE	" postarg to map FCA/PtNe light. This cor COS/FUV, TIME-TAG, WCA ass calibration.	G130M 1055 A G130M	YAPER=0 ement across dispersion of FP-POS=4; FLASH=S0012D01 0 FP-POS=4;	SPEC COM INSTR ELNOAPMAIN SPEC COM INSTR	0.0476)	[==>] 10 Secs [==>]	
arcsec ents: Move a 6130M-105 -FP4-LAM 11MED_+5. ents: ISQL is 6130M-105 -FP4-LAM 2LOW_+5. ents: ISQL is 6130M-129	WAVE needed to bype WAVE	COS/FUV, TIME-TAG, WCA	G130M 1055 A G130M	FP-POS=4; FP-POS=4; FP-POS=4;	SPEC COM INSTR ELNOAPMAIN SPEC COM INSTR	0.0476)	10 Secs [==>]	
G130M-105 -FP4-LAM -1MED_+5. -ents: ISQL is -FP4-LAM -2LOW_+5. -ents: ISQL is -G130M-129	WAVE needed to bype WAVE	COS/FUV, TIME-TAG, WCA	G130M 1055 A G130M	FP-POS=4; FLASH=S0012D01 0 FP-POS=4;	SPEC COM INSTR ELNOAPMAIN SPEC COM INSTR	0.0476)	[==>]	[1]
-FP4-LAM '1MED_+5. '130M-105 -FP4-LAM '2LOW_+5. 'ents: ISQL is '3130M-129	needed to bypo WAVE	ass calibration.	1055 A G130M	FLASH=S0012D01 0 FP-POS=4;	ELNOAPMAIN SPEC COM INSTR		[==>]	[1]
ents: ISQL is G130M-105 -FP4-LAM 2LOW_+5. ents: ISQL is G130M-129	WAVE		G130M	0 FP-POS=4;	SPEC COM INSTR			[1]
G130M-105 -FP4-LAM '2LOW_+5. ents: ISQL is G130M-129	WAVE			· · · · · · · · · · · · · · · · · · ·			10.0	
-FP4-LAM 2LOW_+5. ents: ISQL is 6130M-129		COS/FUV, TIME-TAG, WCA		· · · · · · · · · · · · · · · · · · ·			10.0	
2LOW_+5. ents: ISQL is G130M-129	needed to bype		1055 A	CURRENT=LOW;			10 Secs	
G130M-129	needed to bype			FLASH=S0012D01	ELNOAPMAIN; QESIPARM USELA MP LINE2	Λ	[==>]	[1]
		ass calibration.		v				
	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;	SPEC COM INSTR		8 Secs	
-FP3-LAM 2LOW_+5.			1291 A	CURRENT=LOW;	ELNOAPMAIN;		[==>]	
ZEO W_13.				FLASH=S0010D00	QESIPARM USELA MP LINE2	1		[1]
ents: ISOL is	needed to bypa	ass calibration.		8				
		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;	SPEC COM INSTR		8 Secs	
-FP1-LAM			1327 A	CURRENT=LOW;	ELNOAPMAIN;		[==>]	
2LOW_+3.				FLASH=S0010D00 8	QESIPARM USELA MP LINE2	Λ		[1]
ents: ISQL is	needed to bype	ass calibration.						
	WAVE	COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4;	SPEC COM INSTR		15 Secs	
2LOW_+5.			1577 A				[==>]	617
					MP LINE2	1		[1]
ents: ISQL is	needed to bype	ass calibration.		COMMENT DOWN				
	WAVE	COS/FUV, TIME-TAG, WCA	G160M	FLASH=S0011D003			15 Secs	
			1623 A	;	<i>'</i>		[==>]	
ZEO W_13.				FP-POS=1; CURRENT=LOW	QESIPARM USELA MP LINE2	Λ		[1]
ents: ISQL is	needed to bype	ass calibration.						
	WAVE	COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002			14 Secs	
LOW_+5.0			1280 A	; ED DOS-1.			[==>]	
_				CURRENT=LOW	MP LINE2	Λ		[1]
ents: ISQL is	needed to bype	ass calibration.						
e G - 72	130M-132 FP1-LAM PLOW_+5. nts: ISQL is 160M-157 FP4-LAM PLOW_+5. nts: ISQL is 160M-162 FP1-LAM PLOW_+5. nts: ISQL is 140L-1280 P1-LAMP P1-LAMP	130M-132 WAVE FP1-LAM PLOW_+5. Ints: ISQL is needed to bype 160M-157 WAVE FP4-LAM PLOW_+5. Ints: ISQL is needed to bype 160M-162 WAVE FP1-LAM PLOW_+5. Ints: ISQL is needed to bype 160M-162 WAVE FP1-LAM PLOW_+5.	FP1-LAM PLOW_+5. Ints: ISQL is needed to bypass calibration. 160M-157 WAVE COS/FUV, TIME-TAG, WCA FP4-LAM PLOW_+5. Ints: ISQL is needed to bypass calibration. 160M-162 WAVE COS/FUV, TIME-TAG, WCA FP1-LAM PLOW_+5. Ints: ISQL is needed to bypass calibration. 140L-1280 WAVE COS/FUV, TIME-TAG, WCA P1-LAMP	130M-132 WAVE COS/FUV, TIME-TAG, WCA G130M FP1-LAM PLOW_+5. 1327 A 150M-157 WAVE COS/FUV, TIME-TAG, WCA G160M FP4-LAM 1577 A 1577 A 1577 A 1578 A 1520 is needed to bypass calibration. 160M-162 WAVE COS/FUV, TIME-TAG, WCA G160M FP1-LAM 1623 A 1523 A 1524 A 1525 A 1624 A 1625 A 1626 A 1627 A 1628 A 1628 A	### 1892 ### 1892	nts: ISQL is needed to bypass calibration. SPEC COM INSTR SPEC COM INSTR ELNOAPMAIN; FLASH=S0010D00 R ELNOAPMAIN; FLASH=S0010D00 R ELNOAPMAIN; ELNOAP	## PLINE2 ## PLASH=S0010D00 ## PLINE2 ## PLASH=S0010D00 ## PLINE2 ## PP-POS=1; SPEC COM INSTR ELNOAPMAIN; OESIPARM USELA MP LINE2 ## PLASH=S0010D00 ## PLINE2 ## PP-POS=1; SPEC COM INSTR ELNOAPMAIN; OESIPARM USELA MP LINE2 ## PLASH=S0010D00 ## PLINE2 ## PP-POS=4; SPEC COM INSTR ELNOAPMAIN; OESIPARM USELA MP LINE2 ## PLASH=S0011D00 ## PLINE2 ## PP-POS=4; SPEC COM INSTR ELNOAPMAIN; OESIPARM USELA MP LINE2 ## PLASH=S0011D00 ## PP-POS=4; SPEC COM INSTR ELNOAPMAIN; OESIPARM USELA MP LINE2 ## PLASH=S0011D00 ## PP-POS=4; OESIPARM USELA MP LINE2 ## PLASH=S0011D00 ## PLINE2 ## PP-POS=1; OESIPARM USELA MP LINE2 ## PP-POS=1; OESIPARM USELA MP LINE2	SPEC COM INSTR SPEC

Proposal 12677 - Visit 5N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA G140L-1105 WAVE -FP4-LAMP 2LOW_+5.0 FLASH=S0011D002 SPEC COM INSTR; ELNOAPMAIN; COS/FUV, TIME-TAG, WCA G140L 14 Secs 1105 A [==>] FP-POS=4; QESIPARM USELA [1] MP LINE2 CURRENT=LOW Comments: ISQL is needed to bypass calibration. Orbit 1 Server Version: 20110811 Unused Visibility = 3234 Exp. 1 Exp. 2 Exp. 3 Exp. 4 Exp. 5 **Orbit Structure** Ехр. б Reconfig Exp. 7 Exp. 10 Exp. 8 Home Occultation Exp. 9 1500 3500 0 500 1000 2000 2500 3000 4000 4500 5000 5500 sec

Proposal 12677 - Visit 6N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA Proposal 12677, Visit 6N, scheduling Sat Sep 03 01:20:56 GMT 2011 Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS Special Requirements: AFTER 5N BY 21 D TO 30 D Comments: GLOBAL SOFTWARE MONITOR SHUTS DOWN FUV DETECTOR IF IN ANY SEGMENT THE NUMBER OF FEC COUNTS INTEGRATED OVER A RUNNING BOX OF 10 SEC IS 600,000. ALL THE TOTAL COUNTS GIVEN BELOW ARE CLOSE TO A FACTOR OF 10 OR HIGHER BELOW THIS LIMIT THIS VISIT EXECUTES AT THE +6.0" POSITION. ALL GRATINGS ARE USED. G130M/1055/4 - LAMP1/MED - 10 SEC EXPOSURE - 52,800 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUV B G130M/1055/4 - LAMP2/LOW - 10 SEC EXPOSURE - 7543 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUVB G130M/1291/3 - LAMP2/LOW - 8 SEC EXPOSURE - 65,170 TOTAL CTS IN FUVA & 37,413 TOTAL CTS IN FUVB G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FOVA & 57,413 TOTAL CTS IN FOVB
G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FUVA & 55,515 TOTAL CTS IN FUVB
G160M/1577/4 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 21,723 FUVA & 64,491 FUVB
G160M/1623/1 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 24,891 FUVA & 62,229 FUVB
G140L/1280/1 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 55,063 FUVA & 1,923 FUVB
G140L/1105/4 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 57,175 FUVA & 0 FUVB **Diagnostics** (Visit 6N) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Proposal 12677 - Visit 6N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

# Label	<u> </u>	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Regs.	Groups	Exp. Time/[Actual Dur.]	Orbi
	M-105	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;			10 Secs	
	I-LAM ED 0.0			1055 A	FLASH=S0012D01			[==>]	[1]
	_	EVDOGUDE A	T NOMINAL POSITION WITH NOMINA	I I AMD CUDDENT	()				[-]
		EXPOSURE A ILL 10 SEC	T NOMINAL POSITION, WITH NOMINA	L LAMP/CURRENI	SETTING				
ISOL is noo	eded to h	ypass calibratio	an						
~	ifetime		COS, ALIGN/APER		XAPER=-126;			0.0 Secs	
Positi	on +6.				YAPER=0			[==>1	[1]
0 arcs		nantura ta 160	" postarg to map FCA/PtNe light. This co	wasananda ta dianlaa	omant garage disparsion	of. 160 areas (126)	-0.0476)	. ,	[1]
	<i>Моче иј</i> М-105		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;	SPEC COM INSTR		10 Secs	
5-FP4	1-LAM	WILLE	COB/10 V, TIME THO, WORL	1055 A	FLASH=S0012D01	ELNOAPMAIN	•	[==>]	
0 0	ED_+6.				0				[1]
Comments:	ISQL is	needed to bypa	ass calibration.						
	M-105	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;	SPEC COM INSTR	R	10 Secs	
	I-LAM W_+6.			1055 A	CURRENT=LOW;	ELNOAPMAIN; QESIPARM USEL		[==>]	
0					FLASH=S0012D01	MP LINE2	A		[1]
Comments:	ISOL is	needed to bypa	uss calibration		Ü				
	M-129	- 21	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;	SPEC COM INSTR	 {	8 Secs	
	8-LAM 0W_+6.			1291 A	CURRENT=LOW;	ELNOAPMAIN;		[==>]	
0	,io.				FLASH=S0010D00	QESIPARM USEL MP LINE2	A		[1]
Commontan	ICOI :	and also been	an antibuntian		8				
	13QL is M-132	needed to bypa	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;	SPEC COM INSTR	·	8 Secs	
7-FP1	-LAM	WILLE	Cosite v, Time Trie, werr	1327 A	CURRENT=LOW;	ELNOAPMAIN;	•	[==>]	
0 0	W_+6.				FLASH=S0010D00	QESIPARM USEL MP LINE2	A		[1]
					8	WIF LINE2			
		needed to bypa		G1 (0) f	ED DOG 4	anea con a niamp		15.0	1
7-FP4	M-157 I-LAM	WAVE	COS/FUV, TIME-TAG, WCA	G160M 1577 A	FP-POS=4; FLASH=S0011D00	SPEC COM INSTR ELNOAPMAIN;	ξ	$15 \operatorname{Secs}$ $I = > I$	
P2LO 0	W_+6.			1377 A	3;	QESIPARM USEL	A	[>]	[1]
U					CURRENT=LOW	MP LINE2			
	~	needed to bypa							
	M-162 I-LAM	WAVE	COS/FUV, TIME-TAG, WCA	G160M	FLASH=S0011D003	SPEC COM INSTR ELNOAPMAIN;	2	15 Secs	
P2LO	W_+6.			1623 A	, FP-POS=1:	OESIPARM USEL	A	[==>]	[11
0					CURRENT=LOW	MP LINE2			[1]
Comments:	ISQL is	needed to bypa	ass calibration.						
	L-1280	WAVE	COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002		<u></u>	14 Secs	
	LAMP V_+6.0			1280 A	; ED DOC 1	ELNOAPMAIN;		[==>]	
					FP-POS=1; CURRENT=LOW	QESIPARM USEL MP LINE2	A		[1]
Commonte	1501 :-	needed to bypa	uss calibration		CURRENTELOW				
Comments:	ISQL IS	песиси 10 оурс	ы синопинон.						

Proposal 12677 - Visit 6N - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA G140L-1105 WAVE -FP4-LAMP 2LOW_+6.0 FLASH=S0011D002 SPEC COM INSTR; ELNOAPMAIN; COS/FUV, TIME-TAG, WCA G140L 14 Secs 1105 A [==>] FP-POS=4; QESIPARM USELA [1] MP LINE2 CURRENT=LOW Comments: ISQL is needed to bypass calibration. Orbit 1 Server Version: 20110811 Unused Visibility = 3234 Exp. 1 Exp. 2 Exp. 3 Exp. 4 Exp. 5 **Orbit Structure** Ехр. б Exp. 7 Reconfig Exp. 10 Exp. 8 Home Occultation Exp. 9 1500 3500 0 500 1000 2000 2500 3000 4000 4500 5000 5500 sec

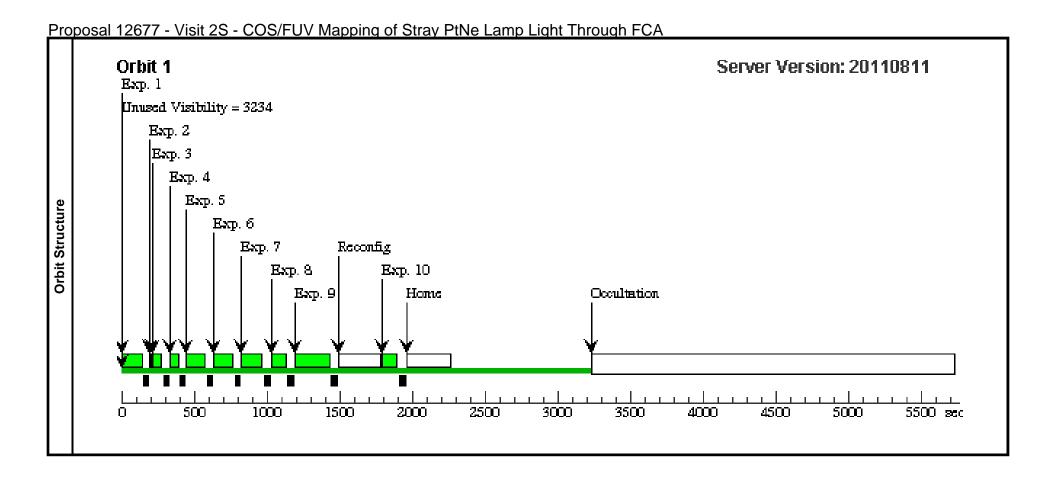
Proposal 12677 - Visit 1S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	G130M-105	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4			10 Secs	
	5-FP4-LAM P1MED_0.0			1055 A				I ==> J	[1]
LA	MP ON FOR F	ULL 10 SEC NO	T NOMINAL POSITION, WITH NOMINAL SPECIAL FLASH COMMANDS USED.	L LAMP/CURRENT	SETTING				
2	Ap Lifetime	bypass calibration	COS, ALIGN/APER		XAPER=+21;			0.0 Secs	
2	Position -1.0		COS, ALIONAI ER		YAPER=0			[==>]	[1]
	arcsec	1.01	EGL(DAL II I. EL				0.476)	[>]	[1]
2	mments: Move o G130M-105	•	postarg to map FCA/PtNe light. This corrections COS/FUV. TIME-TAG. WCA			,	•	10 Secs	
3	5-FP4-LAM	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1055 A	FP-POS=4	SPEC COM INSTI ELNOAPMAIN	•	[==>]	
	P1MED1.			1033 A				[==>]	[1]
LA	MP1 MEDIUM	CURRENT USE		ED					
15 <u>Q</u>	G130M-105	bypass calibration	COS/FUV. TIME-TAG. WCA	G130M	FP-POS=4;	SPEC COM INSTE	·	10 Secs	
4	5-FP4-LAM		COS/FOV, TIME-TAG, WCA	1055 A	CURRENT=LOW	ELNOAPMAIN;	· ·	[==>]	
	P2LOW1. 0			1033 A	CORRENT-LOW	QESIPARM USEL MP LINE2	A	1>1	[1]
LA	MP2 LOW CUI	RRENT USED. bypass calibrati							
5	G130M-129 1-FP3-LAM	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;	SPEC COM INSTI ELNOAPMAIN:	₹	8 Secs	
	P2LOW1.			1291 A	CURRENT=LOW	QESIPARM USEL MP LINE2	A	[==>]	[1]
	mments: LAMP MP2 LOW CUI		NO SPECIAL FLASH COMMANDS USE	D					
6	G130M-132	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;	SPEC COM INSTE	₹	8 Secs	
	7-FP1-LAM P2LOW1. 0			1327 A	CURRENT=LOW	ELNOAPMAIN; QESIPARM USEL MP LINE2	A	[==>]	[1]
	mments: LAMP MP2 LOW CUI		NO SPECIAL FLASH COMMANDS USE	D		211.22			ļ
7	G160M-157	WAVE	COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4;	SPEC COM INSTI	₹	15 Secs	
	7-FP4-LAM P2LOW1.			1577 A	FLASH=S0011D00	ELNOAPMAIN;	•	[==>]	
	0				3;	QESIPARM USEL MP LINE2	A		[1]
Cor	mments: TWO 3	SEC FLASHES	SEPARATED BY 11 SEC ARE USED		CURRENT=LOW				
LA	MP2 LOW CUI		CONTRACTOR TO CONTRACTOR	C1 (0) (THE ACTION OF TH	appa des apra-	`	15.0	
8	G160M-162 3-FP1-LAM	WAVE	COS/FUV, TIME-TAG, WCA	G160M	FLASH=S0011D003	SPEC COM INSTI ELNOAPMAIN;	R	15 Secs	
	P2LOW1.			1623 A	FP-POS=1; CURRENT=LOW	QESIPARM USEL MP LINE2	A	[==>]	[1]
	mments: TWO 3 MP2 LOW CUI		SEPARATED BY 11 SEC ARE USED						•
LAI	MF2 LOW CUI	MENI USED							
1									

Proposal 12677 - Visit 1S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA G140L-1280 WAVE COS/FUV, TIME-TAG, WCA G140L FLASH=S0011D002 SPEC COM INSTR 14 Secs -FP1-LAMP ELNOAPMAIN: 1280 A f = = > 12LOW_-1.0 FP-POS=1; QESIPARM USELA [1] MP LINE2 CURRENT=LOW Comments: TWO 3 SEC FLASHES SEPARATED BY 11 SEC ARE USED LAMP2 LOW CURRENT USED 10 G140L-1105 WAVE COS/FUV, TIME-TAG, WCA G140L FLASH=S0011D002 SPEC COM INSTR 14 Secs -FP4-LAMP ELNOAPMAIN; 1105 A f = = > 12LOW_-1.0 FP-POS=4; QESIPARM USELA [1] MP LINE2 CURRENT=LOW Comments: TWO 2 SEC FLASHES SEPARATED BY 11 SEC ARE USED LAMP2 LOW CURRENT USED Orbit 1 Server Version: 20110811 Unused Visibility = 3234 Exp. 1 Exp. 2 Exp. 3 Exp. 4 Exp. 5 **Orbit Structure** Ехр. 6 Reconfig Exp. 7 Exp. 8 Exp. 10 Home Occultation Exp. 9 500 2000 2500 3000 0 1000 1500 3500 4000 4500 5000 5500 sec

Proposal 12677 - Visit 2S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

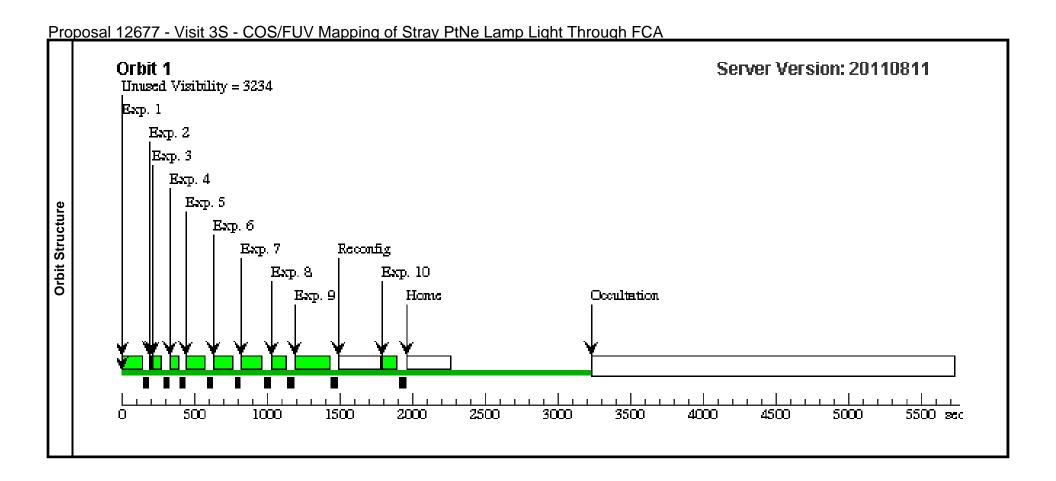
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		05 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4			10 Secs	
	5-FP4-LA P1MED_0			1055 A				[==>]	[1]
Co LA	omments: 10 S AMP ON FOR	SEC EXPOSURE A FULL 10 SEC NO	AT NOMINAL POSITION, WITH NOMINA. O SPECIAL FLASH COMMANDS USED.	L LAMP/CURRENT	SETTING				
IS	~	to bypass calibrati						T	
2	Ap Lifetin Position -2	ne NONE	COS, ALIGN/APER		XAPER=+42;			0.0 Secs	
	arcsec				YAPER=0			[==>]	[1]
Ca	omments: Mov	ve aperture to -2.0°	" postarg to map FCA/PtNe light. This corr	esponds to displace	ment across dispersion oj	f: -2.0 arcsec (42.x0	0.0476)		
3		05 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4	SPEC COM INST	R	10 Secs	
	5-FP4-LA P1MED 0			1055 A		ELNOAPMAIN		[==>]	[1]
Ca	omments: ISQ	L is needed to byp	ass calibration.						
4		05 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;	SPEC COM INST	R	10 Secs	
	5-FP4-LA P2LOW	M 2.		1055 A	CURRENT=LOW	ELNOAPMAIN;		I = => J	
	0	2.				QESIPARM USEI MP LINE2	_A		[1]
Co		L is needed to bype							
5	G130M-12 1-FP3-LA	29 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;	SPEC COM INSTELNOAPMAIN;	R	8 Secs	
3	P2LOW			1291 A	CURRENT=LOW	OESIPARM USEI	Α.	[==>]	[1]
5	0					MP LINE2	JA.		[1]
6		32 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;	SPEC COM INST	R	8 Secs	
	7-FP1-LA P2LOW -			1327 A	CURRENT=LOW	ELNOAPMAIN;		[==>]	
	0	2.				QESIPARM USEI MP LINE2	LA		[1]
7	G160M-15	57 WAVE	COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4;	SPEC COM INST	R	15 Secs	
	7-FP4-LA	M		1577 A	FLASH=S0011D00	ELNOAPMAIN;		[==>1	
	P2LOW	2.			3;	QESIPARM USEI	LA	,	[1]
					CURRENT=LOW	MP LINE2			
8	G160M-16 3-FP1-LA	62 WAVE	COS/FUV, TIME-TAG, WCA	G160M	FLASH=S0011D003	SPEC COM INST ELNOAPMAIN;	R	15 Secs	
	P2LOW			1623 A	; FP-POS=1;	OESIPARM USEI		[==>]	
	0				CURRENT=LOW	MP LINE2	JA.		[1]
9	G1401 -12	80 WAVE	COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002	SPEC COM INST	R	14 Secs	
	-FP1-LAN	IP .	CODITOT, TIME 1710, WCA	1280 A	;	ELNOAPMAIN;		[==>]	
	2LOW2	.0		1200 11	FP-POS=1;	QESIPARM USEI	LA	1>1	[1]
					CURRENT=LOW	MP LINE2			
10			COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002		R	14 Secs	
	-FP4-LAM 2LOW2			1105 A	;	ELNOAPMAIN;		I = => J	
	200112.	.0			FP-POS=4;	QESIPARM USEI MP LINE2	LA		[1]
					CURRENT=LOW	MP LINE2			



Proposal 12677 - Visit 3S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA Proposal 12677, Visit 3S, completed Sat Sep 03 01:20:57 GMT 2011 Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS Special Requirements: AFTER 2S BY 1 S TO 30 D Comments: GLOBAL SOFTWARE MONITOR SHUTS DOWN FUV DETECTOR IF IN ANY SEGMENT THE NUMBER OF FEC COUNTS INTEGRATED OVER A RUNNING BOX OF 10 SEC IS 600,000. ALL THE TOTAL COUNTS GIVEN BELOW ARE CLOSE TO A FACTOR OF 10 OR HIGHER BELOW THIS LIMIT THIS VISIT EXECUTES AT THE -3.0" POSITION. ALL GRATINGS ARE USED. G130M/1055/4 - LAMP1/MED - 10 SEC EXPOSURE - 52,800 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUV B G130M/1055/4 - LAMP2/LOW - 10 SEC EXPOSURE - 7543 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUVB G130M/1291/3 - LAMP2/LOW - 8 SEC EXPOSURE - 65,170 TOTAL CTS IN FUVA & 37,413 TOTAL CTS IN FUVB G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FOVA & 57,413 TOTAL CTS IN FOVB
G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FUVA & 55,515 TOTAL CTS IN FUVB
G160M/1577/4 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 21,723 FUVA & 64,491 FUVB
G160M/1623/1 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 24,891 FUVA & 62,229 FUVB
G140L/1280/1 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 55,063 FUVA & 1,923 FUVB
G140L/1105/4 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 57,175 FUVA & 0 FUVB **Diagnostics** (Visit 3S) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Proposal 12677 - Visit 3S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

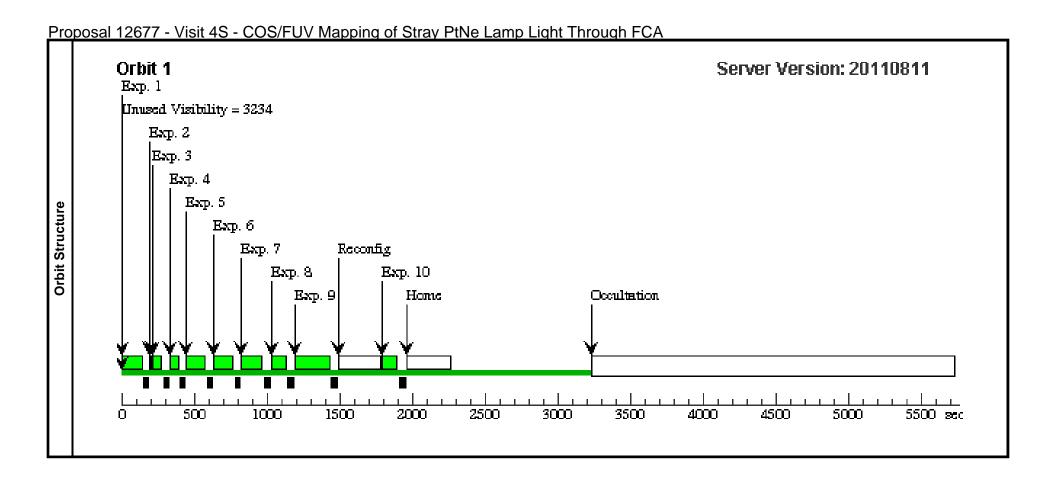
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		05 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4			10 Secs	
	5-FP4-LA P1MED_0			1055 A				[==>J	[1]
Co LA	omments: 10 S AMP ON FOR	SEC EXPOSURE A FULL 10 SEC NO	AT NOMINAL POSITION, WITH NOMINA O SPECIAL FLASH COMMANDS USED.	L LAMP/CURRENT	T SETTING				
IS	~	to bypass calibrat							
2	Ap Lifetin Position -3	ne NONE	COS, ALIGN/APER		XAPER=+63;			0.0 Secs	
	arcsec	5.0			YAPER=0			[==>]	[1]
$C \epsilon$	omments: Mov	ve aperture to -3.0	" postarg to map FCA/PtNe light. This corr	esponds to displace	ement across dispersion o	f: -3.0 arcsec (63.x0	0.0476)		
3		05 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4	SPEC COM INST	R	10 Secs	
	5-FP4-LA P1MED 0			1055 A		ELNOAPMAIN		[==>]	[1]
Co	-	L is needed to byp	pass calibration						
4		05 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;	SPEC COM INST	R	10 Secs	
	5-FP4-LA P2LOW	M		1055 A	CURRENT=LOW	ELNOAPMAIN;		[==>]	
	0 0	3.				QESIPARM USEI MP LINE2	LA		[1]
Ca	omments: ISQ	L is needed to byp	pass calibration.						
5		29 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;	SPEC COM INST	R	8 Secs	
3	1-FP3-LA P2LOW			1291 A	CURRENT=LOW	ELNOAPMAIN; OESIPARM USEI		[==>]	[1]
5	0					MP LINE2	_A		[1]
6		32 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;	SPEC COM INST	R	8 Secs	
	7-FP1-LA P2LOW -			1327 A	CURRENT=LOW	ELNOAPMAIN;		[==>]	
	0					QESIPARM USEI MP LINE2	_A		[1]
7	G160M-1	57 WAVE	COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4;	SPEC COM INST	R	15 Secs	
	7-FP4-LA			1577 A	FLASH=S0011D00	ELNOAPMAIN;		[==>]	
	P2LOW 0	3.			3;	QESIPARM USEI MP LINE2	LA		[1]
-					CURRENT=LOW				
8	G160M-10 3-FP1-LA	52 WAVE M	COS/FUV, TIME-TAG, WCA	G160M	FLASH=S0011D003	S SPEC COM INST: ELNOAPMAIN;	R	15 Secs	
	P2LOW			1623 A	, FP-POS=1;	QESIPARM USEI	A	[==>]	[1]
	0				CURRENT=LOW	MP LINE2			[1]
9	G140L-12	80 WAVE	COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002	SPEC COM INST	R	14 Secs	
	-FP1-LAN 2LOW3			1280 A	;	ELNOAPMAIN;		[==>]	
	2LO W3	.0			FP-POS=1; CURRENT=LOW	QESIPARM USEI MP LINE2	LA		[1]
10	G140L-11	05 WAVE	COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002	SPEC COM INST	R	14 Secs	
	-FP4-LAN	1P	, 	1105 A	;	ELNOAPMAIN;		[==>1	
	2LOW3	.0			FP-POS=4;	QESIPARM USEI	LA		[1]
					CURRENT=LOW	MP LINE2			



Proposal 12677 - Visit 4S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA Proposal 12677, Visit 4S, scheduled Sat Sep 03 01:20:58 GMT 2011 **Diagnostic Status: Warning** Scientific Instruments: COS/FUV, COS Special Requirements: AFTER 3S BY 2 D TO 30 D Comments: GLOBAL SOFTWARE MONITOR SHUTS DOWN FUV DETECTOR IF IN ANY SEGMENT THE NUMBER OF FEC COUNTS INTEGRATED OVER A RUNNING BOX OF 10 SEC IS 600,000. ALL THE TOTAL COUNTS GIVEN BELOW ARE CLOSE TO A FACTOR OF 10 OR HIGHER BELOW THIS LIMIT THIS VISIT EXECUTES AT THE +4.0" POSITION. ALL GRATINGS ARE USED. G130M/1055/4 - LAMP1/MED - 10 SEC EXPOSURE - 52,800 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUV B G130M/1055/4 - LAMP2/LOW - 10 SEC EXPOSURE - 7543 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUVB G130M/1291/3 - LAMP2/LOW - 8 SEC EXPOSURE - 65,170 TOTAL CTS IN FUVA & 37,413 TOTAL CTS IN FUVB G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FOVA & 57,413 TOTAL CTS IN FOVB
G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FUVA & 55,515 TOTAL CTS IN FUVB
G160M/1577/4 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 21,723 FUVA & 64,491 FUVB
G160M/1623/1 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 24,891 FUVA & 62,229 FUVB
G140L/1280/1 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 55,063 FUVA & 1,923 FUVB
G140L/1105/4 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 57,175 FUVA & 0 FUVB **Diagnostics** (Visit 4S) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Proposal 12677 - Visit 4S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Regs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		30M-105 WAVE P4-LAM MED_0.0	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4			10 Secs	
	P1MED_0.			1055 A				[==>J	[1]
Con LA	Comments: 10 SEC EXPOSURE AT NOMINAL POSITION, WITH NOMINAL LAMP/CURRENT SETTING LAMP ON FOR FULL 10 SEC NO SPECIAL FLASH COMMANDS USED.								
ISQ	QL is needed t	o bypass calibrati	ion.						
2	Ap Lifetim		COS, ALIGN/APER		XAPER=+84;			0.0 Secs	
	Position -4 arcsec	.0			YAPER=0			I==>J	[1]
Coi	Comments: Move aperture to -4.0" postarg to map FCA/PtNe light. This corresponds to displacement across dispersion of: -4.0 arcsec (84.x0.0476)								
3	G130M-105 W. 5-FP4-LAM P1MED4. 0		COS/FUV, TIME-TAG, WCA	G130M		SPEC COM INSTI		10 Secs	
				1055 A		ELNOAPMAIN	[==>]	[1]	
Co	mments: ISQI	L is needed to bype	ass calibration.						1
4	G130M-10		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4; SPEC COM INSTR ELNOAPMAIN; QESIPARM USELA	R	10 Secs		
	5-FP4-LAN P2LOW4	М 1.		1055 A		QESIPARM USELA	A	[==>]	[1]
			107 - 2			MP LINE2			
5		L is needed to bype	ass calibration. COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;	SPEC COM INSTR	D	8 Secs	
3	G130M-129 WAVE 1-FP3-LAM	COS/FUV, HME-TAG, WCA	1291 A	CURRENT=LOW	ELNOAPMAIN;	[==>]			
	P2LOW4 0	4.		1291 A	CONNENT-LOW	QESIPARM USELA MP LINE2	[>]	[1]	
6		0M-132 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;	SPEC COM INSTR ELNOAPMAIN; QESIPARM USELA MP LINE2	R	8 Secs	
	7-FP1-LAM P2LOW4.			1327 A	CURRENT=LOW		[==>]	633	
	0	· 					LA.		[1]
7		160M-157 WAVE FP4-LAM 2LOW4.	COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4;	QESIPARM USELA	R	15 Secs	
				1577 A	FLASH=S0011D00 3; CURRENT=LOW			[==>]	
	0						_A		[1]
8	G160M-162 WAVE 3-FP1-LAM P2LOW4. 0	2 WAVE	COS/FUV, TIME-TAG, WCA	G160M 1623 A	FLASH=S0011D003;	3 SPEC COM INSTR ELNOAPMAIN; QESIPARM USELA MP LINE2	R	15 Secs	
		M						[==>]	
		r.			FP-POS=1; CURRENT=LOW		₋ A		[1]
9	G140L-128		COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002		R	14 Secs	
	-FP1-LAM 2LOW4.			1280 A	; FP-POS=1; CURRENT=LOW	ELNOAPMAIN; QESIPARM USELA MP LINE2		[==>]	
	320 1.							[1]	
10		1105 WAVE	COS/FUV, TIME-TAG, WCA	G140L 1105 A	FLASH=S0011D002 ;	SPEC COM INSTR ELNOAPMAIN; QESIPARM USELA MP LINE2	R	14 Secs	
	-FP4-LAMP 2LOW4.0							[==>]	
		-			FP-POS=4; CURRENT=LOW		₋ A		[1]



Proposal 12677 - Visit 5S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA Proposal 12677, Visit 5S, implementation Sat Sep 03 01:20:58 GMT 2011 Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS Special Requirements: AFTER 4S BY 10 D TO 30 D Comments: GLOBAL SOFTWARE MONITOR SHUTS DOWN FUV DETECTOR IF IN ANY SEGMENT THE NUMBER OF FEC COUNTS INTEGRATED OVER A RUNNING BOX OF 10 SEC IS 600,000. ALL THE TOTAL COUNTS GIVEN BELOW ARE CLOSE TO A FACTOR OF 10 OR HIGHER BELOW THIS LIMIT THIS VISIT EXECUTES AT THE -5.0" POSITION. ALL GRATINGS ARE USED. G130M/1055/4 - LAMP1/MED - 10 SEC EXPOSURE - 52,800 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUV B G130M/1055/4 - LAMP2/LOW - 10 SEC EXPOSURE - 7543 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUVB G130M/1291/3 - LAMP2/LOW - 8 SEC EXPOSURE - 65,170 TOTAL CTS IN FUVA & 37,413 TOTAL CTS IN FUVB G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FOVA & 57,413 TOTAL CTS IN FOVB
G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FUVA & 55,515 TOTAL CTS IN FUVB
G160M/1577/4 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 21,723 FUVA & 64,491 FUVB
G160M/1623/1 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 24,891 FUVA & 62,229 FUVB
G140L/1280/1 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 55,063 FUVA & 1,923 FUVB
G140L/1105/4 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 57,175 FUVA & 0 FUVB **Diagnostics** (Visit 5S) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Proposal 12677 - Visit 5S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

"	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Regs.	Groups	Exp. Time/[Actual Dur.]	Orbi			
1	G130M-105		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;			10 Secs				
	5-FP4-LAM P1MED_0.0			1055 A	FLASH=S0012D01			[==>]	[1]			
	ments: 10 SEC P ON FOR FU		T NOMINAL POSITION, WITH NOMINA	L LAMP/CURRENT	SETTING							
ISQL	is needed to l	bypass calibrati	on.									
2	Ap Lifetime	NONE	COS, ALIGN/APER		XAPER=+105;			0.0 Secs				
	Position -5.0 arcsec				YAPER=0			[==>]	[1]			
Com	ments: Move a	perture to -5.0'	postarg to map FCA/PtNe light. This cor	responds to displace	ment across dispersion oj	f: -5.0 arcsec (105.x0	0.0476)					
3	G130M-105 5-FP4-LAM	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;	SPEC COM INSTR ELNOAPMAIN	2	10 Secs				
	P1MED5.			1055 A	FLASH=S0012D01 0	ELNOAI WAIN		[==>]	[1]			
Com	ments: ISQL is	s needed to bype	ass calibration.									
4	G130M-105	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;	SPEC COM INSTR ELNOAPMAIN;	N;	10 Secs				
	5-FP4-LAM P2LOW5. 0			1055 A	CURRENT=LOW; FLASH=S0012D01	QESIPARM USEL MP LINE2		[==>]	[1]			
Comi	Comments: ISQL is needed to bypass calibration.											
5	G130M-129	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;	SPEC COM INSTR	₹	8 Secs				
	1-FP3-LAM P2LOW5.			1291 A	CURRENT=LOW;	ELNOAPMAIN;		[==>]				
	0				FLASH=S0010D00	QESIPARM USEL MP LINE2	A		[1			
Com	ments: ISQL is	s needed to bype		•								
6			COS/FUV, TIME-TAG, WCA	G130M 1327 A	FP-POS=1;	SPEC COM INSTR ELNOAPMAIN; QESIPARM USEL MP LINE2	2	8 Secs				
	7-FP1-LAM P2LOW5.				CURRENT=LOW; FLASH=S0010D00		_A	[==>]	[1]			
Comments: ISOL is needed to bypass calibration.												
	G160M-157	157 WAVE AM	COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4;	SPEC COM INSTR	₹	15 Secs				
	7-FP4-LAM P2LOW5.			1577 A	FLASH=S0011D00	ELNOAPMAIN; QESIPARM USELA MP LINE2		[==>]				
	0 -3.				3;		.A		[1]			
Com	ments: ISOL i	s needed to bype	ass calibration.		CURRENT=LOW				I			
8	G160M-162		COS/FUV, TIME-TAG, WCA	G160M	FLASH=S0011D003	SPEC COM INSTR	₹	15 Secs				
	3-FP1-LAM		,	1623 A	;	ELNOAPMAIN;		[==>]				
	P2LOW5.	-5.			FP-POS=1; CURRENT=LOW	QESIPARM USEL MP LINE2			[1			
Com	ments: ISQL is	s needed to bype	uss calibration.									
9	G140L-1280 -FP1-LAMP	IP .	COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002	SPEC COM INSTR ELNOAPMAIN;	₹	14 Secs				
	2LOW5.0			1280 A	; FP-POS=1;	QESIPARM USEL.	Δ	[==>]				
	_				CURRENT=LOW	MP LINE2	n.		[1			
Com	ments: ISQL is	s needed to bype	uss calibration.									

Proposal 12677 - Visit 5S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA G140L-1105 WAVE FLASH=S0011D002 SPEC COM INSTR; ELNOAPMAIN; COS/FUV, TIME-TAG, WCA G140L 14 Secs -FP4-LAMP 2LOW_-5.0 [==>] 1105 A FP-POS=4; QESIPARM USELA [1] MP LINE2 CURRENT=LOW Comments: ISQL is needed to bypass calibration. Orbit 1 Server Version: 20110811 Unused Visibility = 3234 Exp. 1 Exp. 2 Exp. 3 Exp. 4 Exp. 5 **Orbit Structure** Ехр. б Reconfig Exp. 7 Exp. 10 Exp. 8 Home Occultation Exp. 9 1500 3500 0 500 1000 2000 2500 3000 4000 4500 5000 5500 sec

Proposal 12677 - Visit 6S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA Proposal 12677, Visit 6S, scheduling Sat Sep 03 01:20:59 GMT 2011 Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS Special Requirements: AFTER 5S BY 21 D TO 30 D Comments: GLOBAL SOFTWARE MONITOR SHUTS DOWN FUV DETECTOR IF IN ANY SEGMENT THE NUMBER OF FEC COUNTS INTEGRATED OVER A RUNNING BOX OF 10 SEC IS 600,000. ALL THE TOTAL COUNTS GIVEN BELOW ARE CLOSE TO A FACTOR OF 10 OR HIGHER BELOW THIS LIMIT THIS VISIT EXECUTES AT THE -6.0" POSITION. ALL GRATINGS ARE USED. G130M/1055/4 - LAMP1/MED - 10 SEC EXPOSURE - 52,800 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUV B G130M/1055/4 - LAMP2/LOW - 10 SEC EXPOSURE - 7543 TOTAL CTS IN FUVA & 0 TOTAL CTS IN FUVB G130M/1291/3 - LAMP2/LOW - 8 SEC EXPOSURE - 65,170 TOTAL CTS IN FUVA & 37,413 TOTAL CTS IN FUVB G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FOVA & 57,413 TOTAL CTS IN FOVB
G130M/1327/1 - LAMP2/LOW - 8 SEC EXPOSURE - 65,472 TOTAL CTS IN FUVA & 55,515 TOTAL CTS IN FUVB
G160M/1577/4 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 21,723 FUVA & 64,491 FUVB
G160M/1623/1 - LAMP2/LOW - TWO 3 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 24,891 FUVA & 62,229 FUVB
G140L/1280/1 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 55,063 FUVA & 1,923 FUVB
G140L/1105/4 - LAMP2/LOW - TWO 2 SEC FLASHES SPACED BY 11 SEC - TOTAL CTS IN 10 SEC: 57,175 FUVA & 0 FUVB **Diagnostics** (Visit 6S) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

Proposal 12677 - Visit 6S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	G130M-105	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;			10 Secs	
	5-FP4-LAM P1MED_0.0			1055 A	FLASH=S0012D01 0			[==>]	[1]
	mments: 10 SEG MP ON FOR F		AT NOMINAL POSITION, WITH NOMINA	L LAMP/CURRENT	SETTING				
ISQ	L is needed to	bypass calibrati	ion.						
2	Ap Lifetime		COS, ALIGN/APER		XAPER=+126;			0.0 Secs	
	Position -6.0 arcsec				YAPER=0			[==>]	[1]
			postarg to map FCA/PtNe light. This corr	· ·			,		
3	G130M-105 5-FP4-LAM	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;	SPEC COM INSTR ELNOAPMAIN		10 Secs	
	P1MED6.			1055 A	FLASH=S0012D01 0	EEI (O/ II W/ III ([==>]	[1]
Con	mments: ISQL i	s needed to byp	ass calibration.						
4	G130M-105	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;	SPEC COM INSTR	1	10 Secs	
	5-FP4-LAM P2LOW6. 0			1055 A	CURRENT=LOW; FLASH=S0012D01	ELNOAPMAIN; QESIPARM USEL. MP LINE2	A	[==>]	[1]
Con	mments: ISQL i	s needed to byp	ass calibration.						<u> </u>
5	G130M-129		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;	SPEC COM INSTR	_	8 Secs	
	1-FP3-LAM P2LOW6.			1291 A	CURRENT=LOW;	ELNOAPMAIN;		I = = > J	
	0				FLASH=S0010D00 8	QESIPARM USEL. MP LINE2	A		[1]
Con	mments: ISQL i	s needed to byp	ass calibration.						•
6	G130M-132 WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;	SPEC COM INSTR	_	8 Secs		
	7-FP1-LAM P2LOW6.			1327 A	CURRENT=LOW;	ELNOAPMAIN;		I ==> J	
	0				FLASH=S0010D00 8	QESIPARM USEL. MP LINE2			[1]
Con	mments: ISQL i	s needed to byp	ass calibration.						
7	G160M-157	WAVE	COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4;	SPEC COM INSTR		15 Secs	
	7-FP4-LAM P2LOW6.			1577 A	FLASH=S0011D00	ELNOAPMAIN;		[==>]	
	0				3;	QESIPARM USEL. MP LINE2	A		[1]
C	ICOL				CURRENT=LOW				
Q Q	G160M-162	s needed to byp	COS/FUV, TIME-TAG, WCA	G160M	FLASH=S0011D003	SDEC COM INSTR	r	15 Secs	
0	3-FP1-LAM		COS/FOV, TIME-TAG, WCA	1623 A	;	ELNOAPMAIN;		[==>]	
	P2LOW6.			1023 A	FP-POS=1;	QESIPARM USEL	A	[>]	[1]
	U				CURRENT=LOW	MP LINE2			1-7
Con	mments: ISQL i	s needed to byp	ass calibration.						
9	G140L-1280		COS/FUV, TIME-TAG, WCA	G140L	FLASH=S0011D002		L .	14 Secs	
	-FP1-LAMP 2LOW6.0			1280 A ; ELNOAPMAIN;	٨	[==>]			
					FP-POS=1; CURRENT=LOW	QESIPARM USEL. MP LINE2	A		[1]
Con	mments: ISQL i	s needed to byp	ass calibration.						

Proposal 12677 - Visit 6S - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA G140L-1105 WAVE FLASH=S0011D002 SPEC COM INSTR; ELNOAPMAIN; COS/FUV, TIME-TAG, WCA G140L 14 Secs -FP4-LAMP 2LOW_-6.0 1105 A [==>] FP-POS=4; QESIPARM USELA [1] MP LINE2 CURRENT=LOW Comments: ISQL is needed to bypass calibration. Orbit 1 Server Version: 20110811 Exp. 1 Unused Visibility = 3234 Exp. 2 Exp. 3 Exp. 4 Exp. 5 **Orbit Structure** Ехр. б Reconfig Exp. 7 Exp. 10 Exp. 8 Home Occultation Exp. 9 1500 3500 0 500 1000 2000 2500 3000 4000 4500 5000 5500 sec

Proposal 12677 - Visit 10 - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

Proposal 12677, Visit 10, scheduledSat Sep 03 01:21:00 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/FUV

Special Requirements: (none)

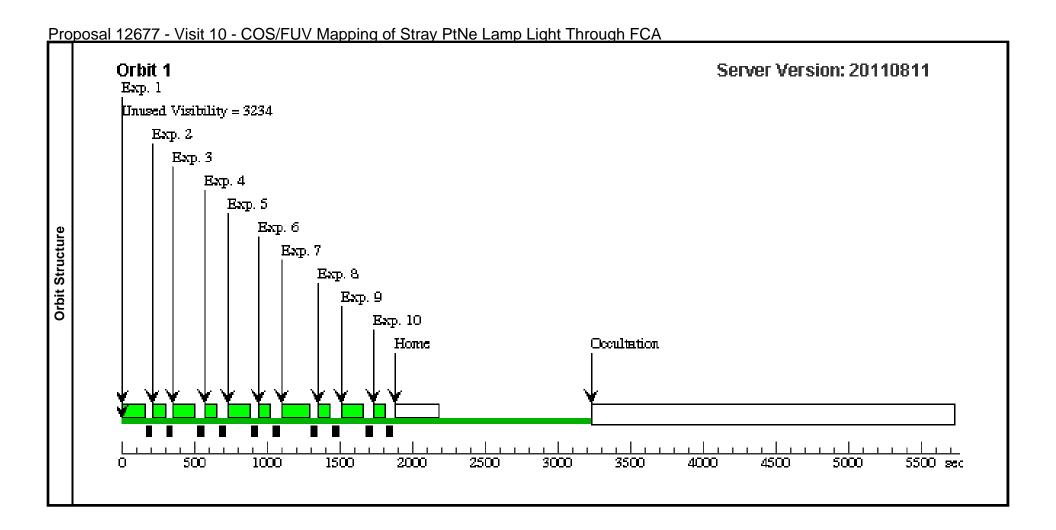
Comments: THIS VISIT OBTAINS LAMP1/MED AND LOW CURRENT SPECTRA AT ALL THE M SETTINGS USED IN THIS PROGRAM, AT THE NOMINAL POSITION (0.0").
THE GOAL OF THIS VISIT IS TO BE ABLE TO DETERMINE THE RATIOS OF THE DIFFERENT LAMP SETTINGS AT DIFFERENT WAVELENGTHS, TO HELP IN ANALYZING THE DATA OBTAINED IN VISITS WHERE ONLY LAMP2/LOW IS USED.

This visit should be scheduled as soon as possible, because results of data anaysis will be used to inform execution of program 12678

Diagnostics

(Visit 10) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

#	# Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Regs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	LAMP1/M		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4			30 Secs	
	D/G130M/ 055/4	1		1055 A				[==>]	[1]
(Comments: ISQI	L is needed to b	ypass calibration.						•
2			COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;			40 Secs	
	W/G130M 055/4	/1		1055 A	CURRENT=LOW			[==>]	[1]
C	Comments: ISQI	L is needed to b	ypass calibration.						•
3			COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3			25 Secs	
	D/G130M/ 291/3	1		1291 A				[==>]	[1]
4	LAMP1/L0		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;			30 Secs	
res	W/G130M 291/3	/1		1291 A	CURRENT=LOW			[==>]	[1]
Ins 5	LAMP1/M		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1			25 Secs	
Exposures	D/G130M/ 327/1	1		1327 A				[==>]	[1]
$\hat{\mathbf{u}}$	LAMP1/L0		COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;			30 Secs	
	W/G130M 327/1	/1		1327 A	CURRENT=LOW			[==>]	[1]
7	LAMP1/M		COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4			25 Secs	
	D/G160M/ 577/4	1		1577 A				[==>]	[1]
8	B LAMP1/Lo		COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4;			30 Secs	
	W/G160M 577/4	/1		1577 A	CURRENT=LOW			[==>]	[1]
9	LAMP1/M		COS/FUV, TIME-TAG, WCA	G160M	FP-POS=1			25 Secs	
	D/G160M/ 623/1	1		1623 A				[==>]	[1]
1	0 LAMP1/Lo		COS/FUV, TIME-TAG, WCA	G160M	FP-POS=1;			30 Secs	
	W/G160M 623/1	/1		1623 A	CURRENT=LOW			[==>]	[1]





Proposal 12677, Visit 11, completedSat Sep 03 01:21:00 GMT 2011

Diagnostic Status: No Diagnostics

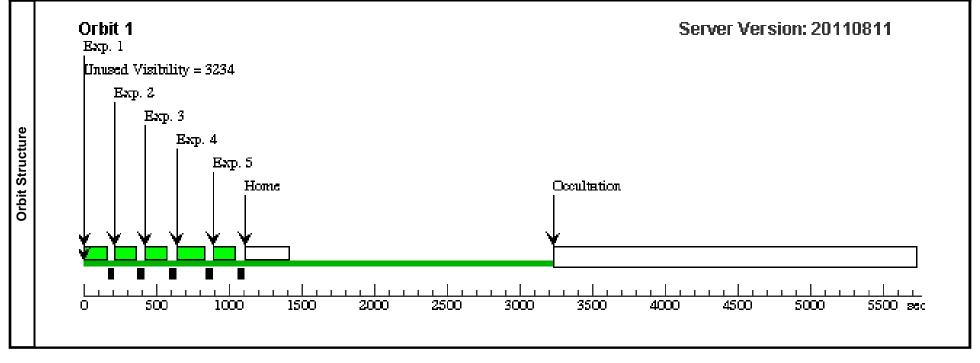
Scientific Instruments: COS/FUV

Special Requirements: (none)

Comments: THIS VISIT OBTAINS LAMP2/MED CURRENT SPECTRA AT ALL THE M SETTINGS USED IN THIS PROGRAM, AT THE NOMINAL POSITION (0.0").
THE GOAL OF THIS VISIT IS TO BE ABLE TO DETERMINE THE RATIOS OF THE DIFFERENT LAMP SETTINGS AT DIFFERENT WAVELENGTHS, TO HELP IN ANALYZING
THE DATA OBTAINED IN VISITS WHERE ONLY LAMP2/LOW IS USED.

This visit should be scheduled as soon as possible, because results of data anaysis will be used to inform execution of program 12678

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Regs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	LAMP2/ME	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4	QESIPARM USELA	<u>.</u>	30 Secs	
		D/G130M/1 055/4			1055 A		MP LINE2		[==>]	[1]
	Con	nments: ISQL i								
res	2	LAMP2/ME	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3	QESIPARM USELA	<u>.</u>	25 Secs	
		D/G130M/1 291/3			1291 A		MP LINE2		[==>]	[1]
١ĕ	3	LAMP2/ME	ME WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1	QESIPARM USELA MP LINE2	25 Se	25 Secs	
Exposi		D/G130M/1 327/1			1327 A				[==>]	[1]
	4	LAMP2/ME D/G160M/1 577/4		COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4	QESIPARM USELA MP LINE2	A	25 Secs	
					1577 A				[==>]	[1]
	5	LAMP2/ME	WAVE	COS/FUV, TIME-TAG, WCA	G160M	FP-POS=1	QESIPARM USELA		25 Secs	
		D/G160M/1 623/1			1623 A		MP LINE2		[==>]	[1]





Sat Sep 03 01:21:00 GMT 2011

Proposal 12677, Visit 12, scheduled Diagnostic Status: Warning

Scientific Instruments: COS/FUV

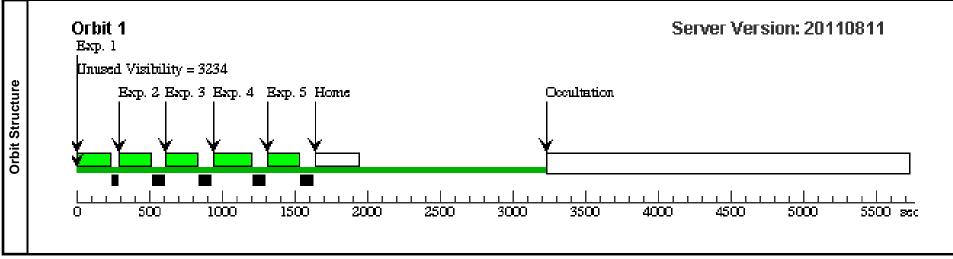
Special Requirements: (none)

Comments: THIS VISIT OBTAINS LAMP2/ LOW CURRENT SPECTRA AT ALL THE M SETTINGS USED IN THIS PROGRAM, AT THE NOMINAL POSITION (0.0").
THE GOAL OF THIS VISIT IS TO BE ABLE TO DETERMINE THE RATIOS OF THE DIFFERENT LAMP SETTINGS AT DIFFERENT WAVELENGTHS, TO HELP IN ANALYZING THE DATA OBTAINED IN VISITS WHERE ONLY LAMP2/LOW IS USED.

This visit should be scheduled as soon as possible, because results of data anaysis will be used to inform execution of program 12678

(Visit 12) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Regs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1		WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=4;	QESIPARM USELA		100 Secs	
		W/G130M/1 055/4			1055 A	CURRENT=LOW	MP LINE2		[==>]	[1]
	Con	nments: ISQL is								
res	2	LAMP2/LO	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=3;	QESIPARM USELA		90 Secs	
Ĭű.		W/G130M/1 291/3			1291 A	CURRENT=LOW	MP LINE2		[==>]	[1]
۱ĕ	3	LAMP2/LO	WAVE	COS/FUV, TIME-TAG, WCA	G130M	FP-POS=1;	QESIPARM USELA		90 Secs	
Exposur		W/G130M/1 327/1			1327 A	CURRENT=LOW	MP LINE2		[==>]	[1]
	4	LAMP2/LO		COS/FUV, TIME-TAG, WCA	G160M	FP-POS=4;	QESIPARM USELA		90 Secs	
		W/G160M/1 577/4			1577 A	CURRENT=LOW	MP LINE2		[==>]	[1]
	5	LAMP2/LO	WAVE	COS/FUV, TIME-TAG, WCA	G160M	FP-POS=1;	QESIPARM USELA		90 Secs	
		W/G160M/1 623/1			1623 A	CURRENT=LOW	MP LINE2		[==>]	[1]



Proposal 12677 - Visit 13 - COS/FUV Mapping of Stray PtNe Lamp Light Through FCA

Proposal 12677, Visit 13, scheduled Sat Sep 03 01:21:00 GMT 2011

Diagnostic Status: Warning

Scientific Instruments: COS/FUV

Special Requirements: (none)

Comments: THIS VISIT OBTAINS LAMP1/MED/LOW AND LAMP2/MED/LOW CURRENT SPECTRA AT ALL OF THE L SETTINGS USED IN THIS PROGRAM, AT THE NOMINAL POSITION (0.0").

THE GOAL OF THIS VISIT IS TO BE ABLE TO DETERMINE THE RATIOS OF THE DIFFERENT LAMP SETTINGS AT DIFFERENT WAVELENGTHS, TO HELP IN ANALYZING THE DATA OBTAINED IN VISITS WHERE ONLY LAMP2/LOW IS USED.

ALSO, THESE DATA WILL BE USED TO PREDICT WHAT THE COUNTS WOULD BE WITH G140L/1280/LAMP1/MED AT THE +6.0" POSITION (VIS6N, WHERE LAMP2/LOW IS USED). THESE COUNTS WILL BE COMPARED WITH THE COUNTS OBTAINED IN PROGRAM 12096 WITH G140L/1280/LAMP1/MED, MORE THAN ONE YEAR AGO, TO LOOK FOR VARIABILITY, POSSIBLY INDICATING CHANGES TO THE LAMP SPOT SIZE.

This visit should be scheduled as soon as possible, because results of data anaysis will be used to inform execution of program 12678

Diagnostics (Visit 13) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU

	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Regs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	LAMP1/ME D/G140L/12 80/1		COS/FUV, TIME-TAG, WCA	G140L 1280 A	FP-POS=1			20 Secs [==>]	[1]
	2	LAMP1/LO W/G140L/1 280/1	WAVE	COS/FUV, TIME-TAG, WCA	G140L 1280 A	FP-POS=1; CURRENT=LOW			25 Secs [==>]	[1]
\	3	LAMP2/ME D/G140L/12 80/1		COS/FUV, TIME-TAG, WCA	G140L 1280 A	FP-POS=1	QESIPARM USELA MP LINE2		20 Secs [==>]	[1]
xposures	4	LAMP2/LO W/G140L/1 280/1		COS/FUV, TIME-TAG, WCA	G140L 1280 A	FP-POS=1; CURRENT=LOW	QESIPARM USELA MP LINE2		90 Secs [==>]	[1]
Exp	5	LAMP1/ME D/G140L/11 05/2		COS/FUV, TIME-TAG, WCA	G140L 1105 A	FP-POS=4			20 Secs [==>]	[1]
	6	LAMP1/LO W/G140L/1 105/2	WAVE	COS/FUV, TIME-TAG, WCA	G140L 1105 A	FP-POS=4; CURRENT=LOW			25 Secs [==>]	[1]
	7	LAMP2/ME D/G140L/11 05/2		COS/FUV, TIME-TAG, WCA	G140L 1105 A	FP-POS=4	QESIPARM USELA MP LINE2		20 Secs [==>]	[1]
	8	LAMP2/LO W/G140L/1 105/2	WAVE	COS/FUV, TIME-TAG, WCA	G140L 1105 A	FP-POS=4; CURRENT=LOW	QESIPARM USELA MP LINE2		90 Secs [==>]	[1]

