



## 12806 - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {FCAL3}

Cycle: 20, Proposal Category: CAL/COS

(Calibration)

(Availability Mode: RESTRICTED)

### INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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### VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
1A	(1) WD0308-565	COS/FUV COS/NUV	4	01-Aug-2012 22:07:50.0	yes
1B	(1) WD0308-565	COS/FUV COS/NUV	3	01-Aug-2012 22:08:17.0	yes
02	(2) WD1057+719	COS/FUV COS/NUV	5	01-Aug-2012 22:08:56.0	yes
03	(6) GD71	COS/FUV COS/NUV	4	01-Aug-2012 22:09:27.0	yes
04	(6) GD71	COS/FUV COS/NUV	2	01-Aug-2012 22:09:44.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
T1	(4) WD0947+857 DARK	COS/FUV COS/NUV S/C	3	01-Aug-2012 22:09:56.0	yes
T2	(2) WD1057+719 DARK	COS/FUV COS/NUV S/C	2	01-Aug-2012 22:10:07.0	yes
T3	(4) WD0947+857	COS/FUV COS/NUV	2	01-Aug-2012 22:10:16.0	yes
T4	(1) WD0308-565	COS/FUV COS/NUV	1	01-Aug-2012 22:10:22.0	yes

26 Total Orbits Used

### **ABSTRACT**

The goals of this program are:

1. Obtain deep G130M and G160M exposures at the central and extreme CENWAVES to construct P flats.
2. Obtain adequate S/N at the remaining G130M, G160M and G140L settings to obtain high quality flux calibration and to construct 2-D LSFs.
3. Transfer the TDS monitoring to the new lifetime position and establish a new set of monitoring targets with SEDs and exposure criteria that will extract less charge from the detector. This involves sequentially observing the current TDS targets at the old and new locations and then the new targets at the new location.

### **OBSERVING DESCRIPTION**

The observations include all gratings and most CENWAVES and fall into one of four categories

1. P-flat construction. These require an  $S/N = 20/1/\text{pixel}$
2. 2-D LSF construction. These require a  $S/N = 10/1/\text{pixel}$
3. Flux calibration. These require a  $S/N = 10/1/\text{resol}$
4. TDS transfer. These require a minimum  $S/N = 15/1/\text{resol}$

The individual visits accomplish the following:

Proposal 12806 (STScI Edit Number: 5, Created: Wednesday, August 1, 2012 9:10:29 PM EST) - Overview

Visit	Target	Gratings	Objective	Orbits	Comments
1A	- WD0308	G130M	P-flat/2DPSF/TDS	4	
1B	- WD0308	G130M/G140L	P-flat/2DPSF/TDS	3	
02	- WD1057	G160M	P-flat/2DPSF/TDS	5	FUVA will be weak
03	- GD71	G160M	P-flat/2DPFS/TDS	4	FUVA Only
04	- GD71	G130M	2DPFS	2	FUVB Only
T1	- WD0947	G130M/G140L	TDS	2	Old Targ, Old Pos
T2	- WD1057	G160M	TDS	2	Old Targ, Old Pos
T3	- WD0947	G130M/G140L	TDS	2	Old Targ, New Pos
T4	- WD0308	G160M	TDS	1	New Targ, G160M

\* Visits T1 and T2 require focus and HV changes

In addition to the 25 orbits currently allocated, we will have 2 orbits in reserve to complete the calibration of the new G130M FUV settings if observer demands warrant.

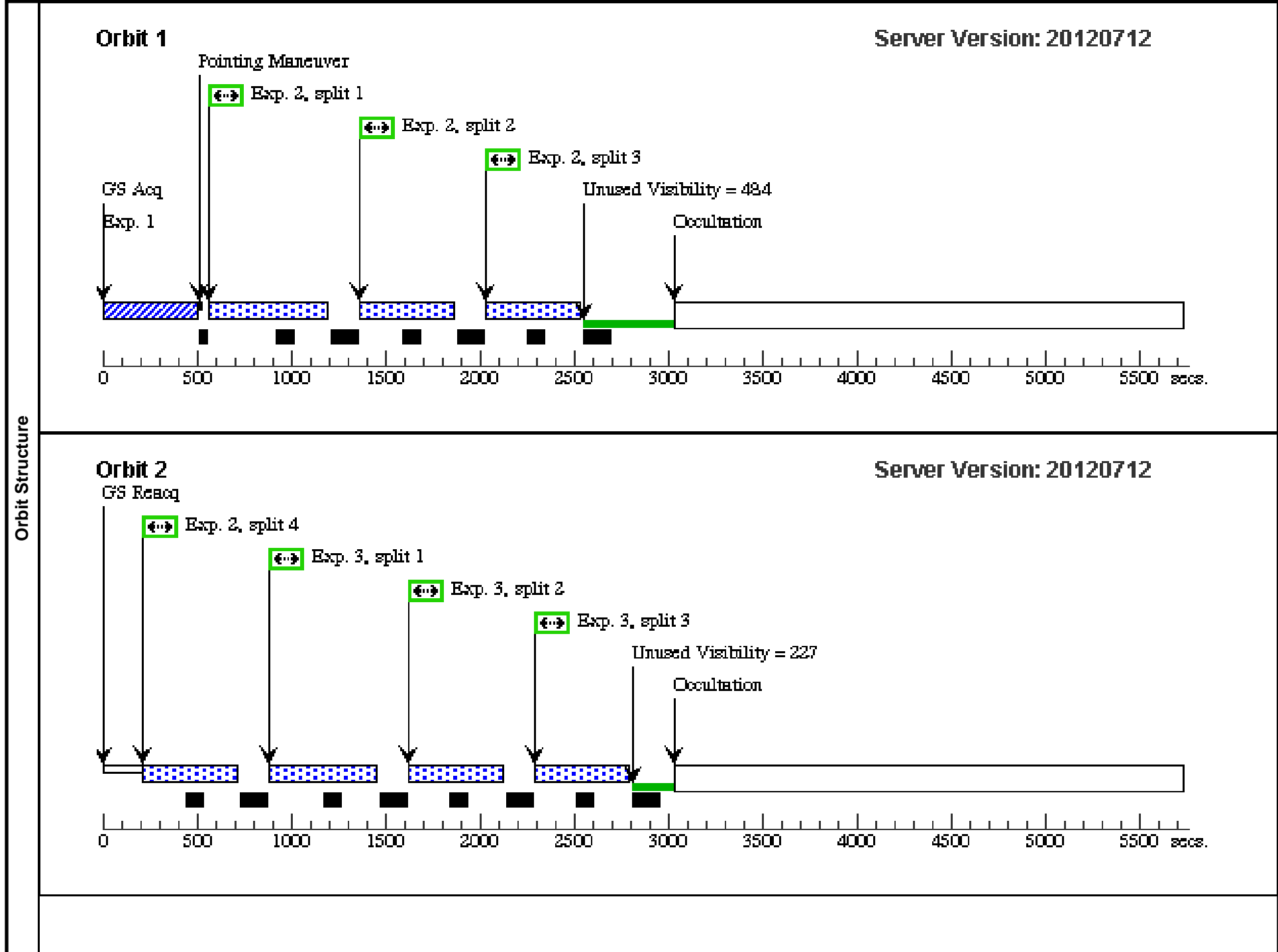
Proposal 12806 - WD0308 (1A) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {FCAL3}

Thu Aug 02 02:10:30 GMT 2012

<b>Visit</b>	<p><b>Proposal 12806, WD0308 (1A), scheduling</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/NUV, COS/FUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 02-JUL-2012:00:00:01 AND 30-SEP-2012:23:59:59; GROUP 1A,03,1B,T1,T3 WITHIN 6D</p> <p><i>Comments: P-flat for G130M extreme and central wavelength settings</i>  <i>For G130M I222, adequate data for flux calibration longward of 1080, and 2-D LSF longward of 1120.</i>  <i>The extreme and central CENWAVEs will also be used to establish WD0308 as a new G130M TDS target.</i></p> <p><i>Visits 1A, 03, 1B, T1 and T3 are grouped to occur within 6 days since all are involved in the TDS and we want them to occur closely enough in time so that the detector response will not change significantly.</i></p>					
	<p>(WD0308 (1A)) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.</p>					
<b>Diagnosics</b>						
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS
<p><i>Comments: Coordinates from Charle's proposal</i></p>						

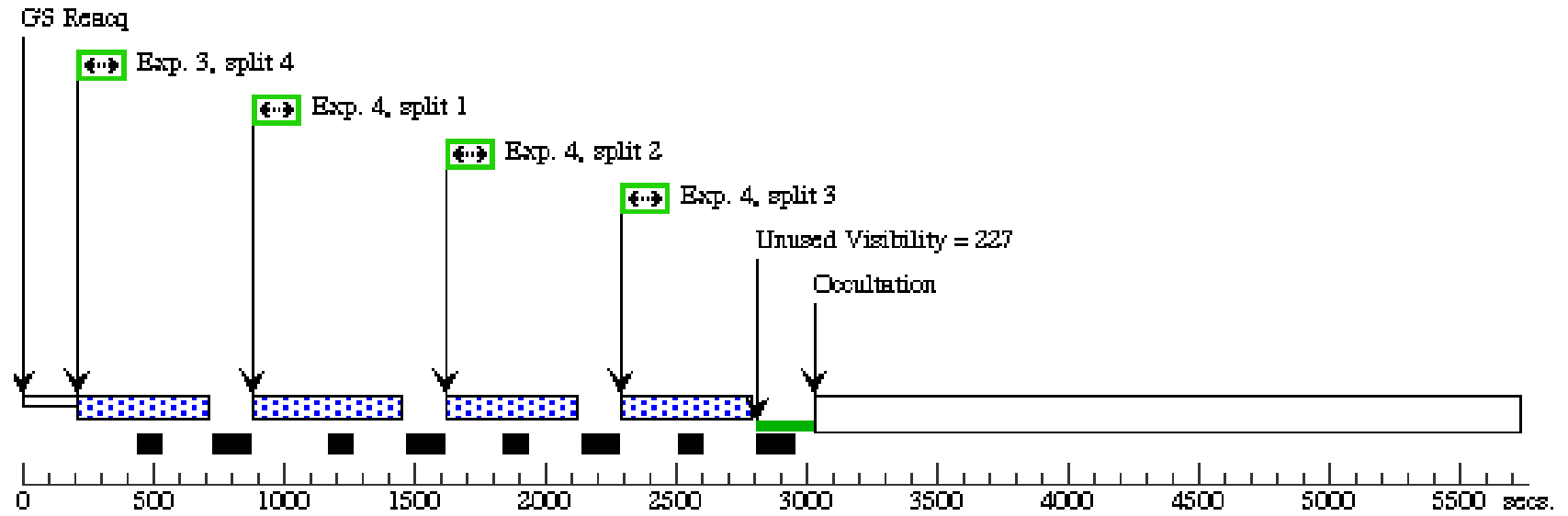
Proposal 12806 - WD0308 (1A) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {FCAL3}

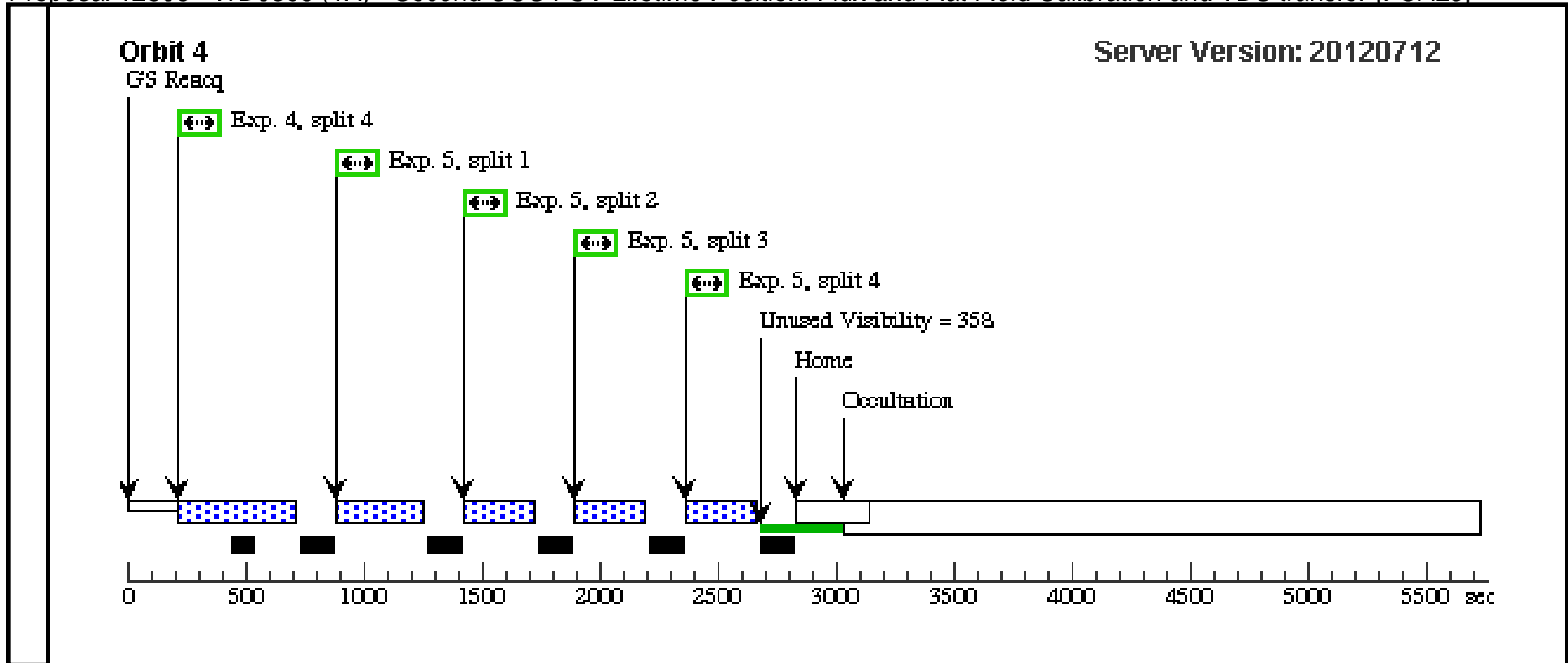
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	ACQ/IM (396029)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs [==>]	[1]
	2	G130M/129 1 (396016)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=ALL; BUFFER-TIME=18 5		450 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1] [2]
	<i>Comments: P flat observation at extreme wavelength S/N/pix &gt; 20 throughout</i>								
	3	G130M/130 9 (396017)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=ALL; BUFFER-TIME=18 5		450 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2] [3]
	<i>Comments: P flat observation at central wavelength S/N &gt; 20/pix throughout</i>								
	4	G130M/132 7 (396018)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=ALL; BUFFER-TIME=18 5		450 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[3] [4]
	<i>Comments: P flat observation at extreme wavelength S/N &gt; 18 per pixel</i>								
	5	G130M/122 2 (396011)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	FP-POS=ALL; BUFFER-TIME=18 5		250 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[4]
	<i>Comments: S/N for 2-D LSF and flux cal</i>								
	<i>Provides S/N = 3/pix down to 1080, calibration will be poor at shorter wavelengths.</i>								



**Orbit 3**

Server Version: 20120712







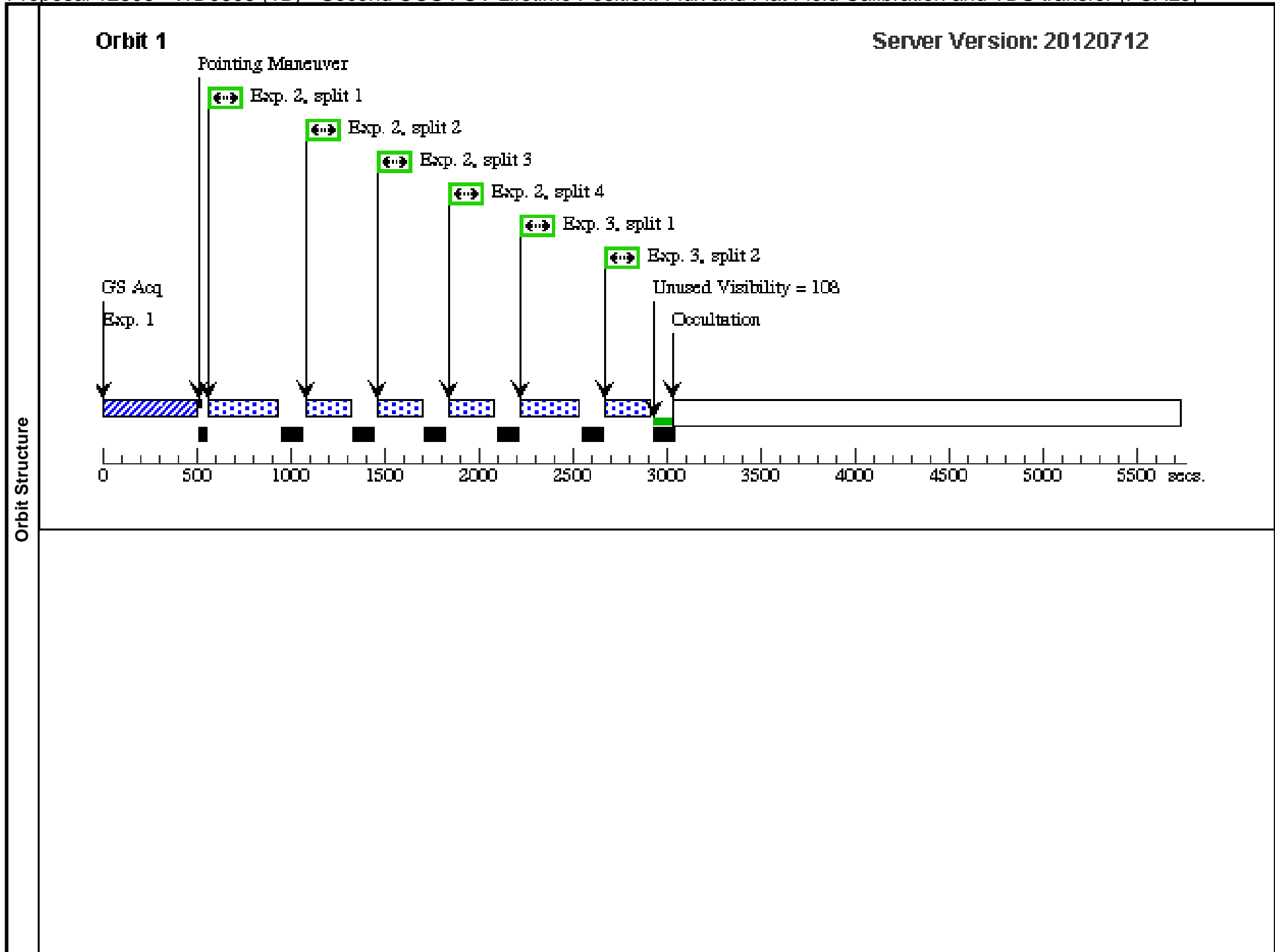
Proposal 12806 - WD0308 (1B) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {FCAL3}

Thu Aug 02 02:10:34 GMT 2012

<b>Visit</b>	<p><b>Proposal 12806, WD0308 (1B), scheduling</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/NUV, COS/FUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 02-JUL-2012:00:00:01 AND 30-SEP-2012:23:59:59</p> <p><i>Comments: Data for G130M 2-D LSFs and flux calibrations for intermediate CENWAVES. G140L 2-D LSF and flux cal data -- cannot obtain adequate S/N over the entire detector. The G140L data and extreme and central G130M CENWAVES will also be used to establish WD0308 as a new TDS target.</i></p>					
	<p>(WD0308 (1B)) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.</p>					
<b>Diagnosics</b>						
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS
<p><i>Comments: Coordinates from Charle's proposal</i></p>						

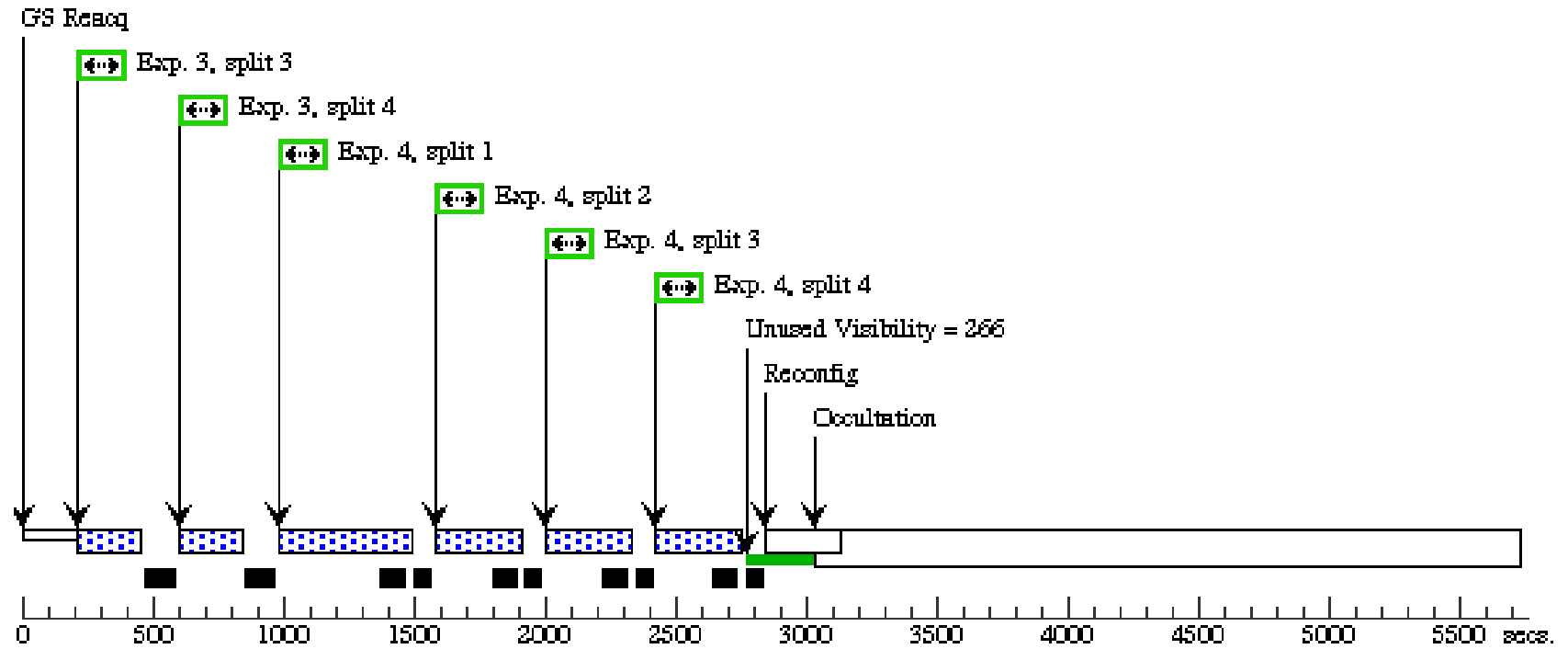
Proposal 12806 - WD0308 (1B) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {FCAL3}

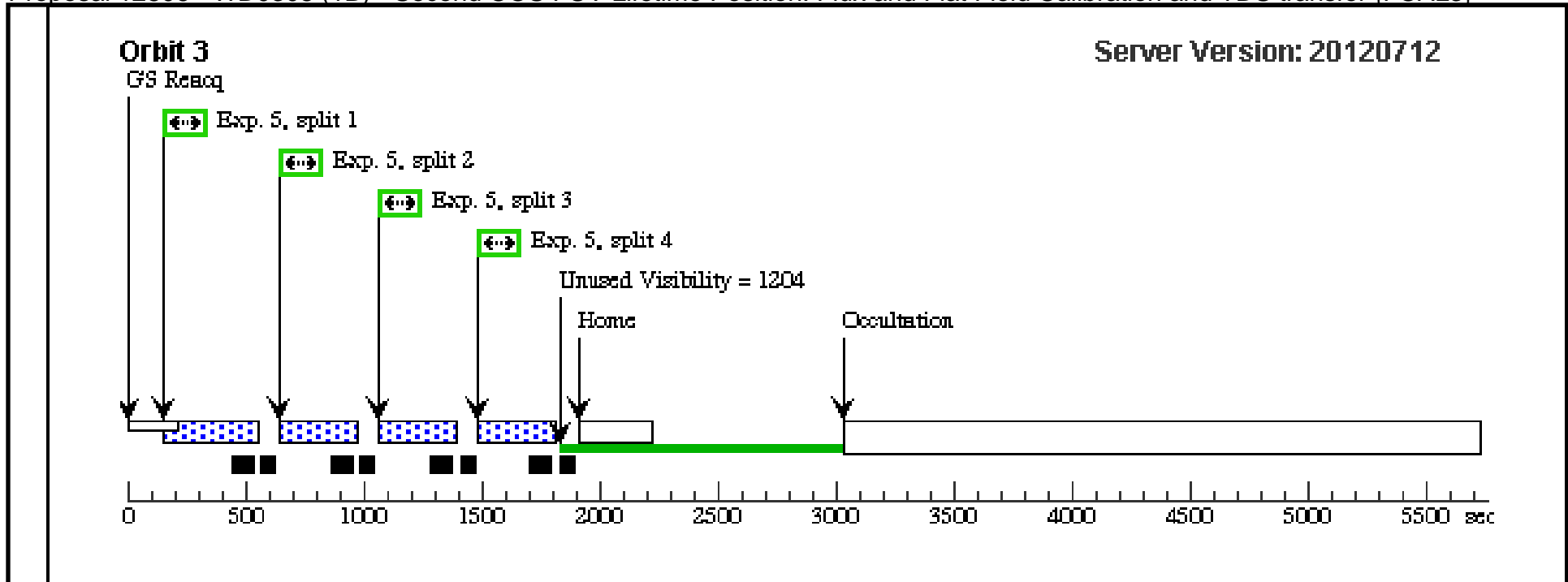
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	ACQ/IM (396029)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA					45 Secs	
										[==>]	[1]
	2	G130M/130 0 (396021)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=ALL; BUFFER-TIME=18 5				190 Secs	
										[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]
	<i>Comments: S/N for 2-D LSF and flux cal S/N &gt; 10 throughout</i>										
3	G130M/131 8 (396020)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1318 A	FP-POS=ALL; BUFFER-TIME=18 5				190 Secs		
									[==>(Split 1)] [==>(Split 2)]	[1]	
									[==>(Split 3)] [==>(Split 4)]	[2]	
<i>Comments: S/N for 2-D LSF and flux cal S/N &gt; 10/pix throughout</i>											
4	G140L/1280 (396024)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	FP-POS=ALL; BUFFER-TIME=18 5				280 Secs		
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2]	
<i>Comments: S/N for 2-D LSF and flux cal S/N GT 10/pix for 1100 &lt; lam &lt; 1800, which includes entire G130M/G160M range</i>											
5	G140L/1105 (396022)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	FP-POS=ALL; BUFFER-TIME=18 5				280 Secs		
									[==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[3]	
<i>Comments: S/N for 2-D LSF and flux cal S/N GT 10/pix for lam &lt; 1900</i>											



**Orbit 2**

Server Version: 20120712





Proposal 12806 - WD1057 (02) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {FCAL3}

Thu Aug 02 02:10:38 GMT 2012

<b>Visit</b>	<p><b>Proposal 12806, WD1057 (02), scheduling</b></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/NUV, COS/FUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 02-JUL-2012:00:00:01 AND 30-SEP-2012:23:59:59; GROUP 02,03,T2,T4 WITHIN 6D</p> <p><i>Comments: Observations for G160M FUVB P-flats at the extreme and central CENWAVEs, and 2-D LSFs for FUVB at the intermediate CENWAVEs. The G160M/FUVB data at the extreme and central wavelengths will also be used to establish the TDS transfer.</i></p>					
	<p>(WD1057 (02)) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.</p>					
<b>Diagnosics</b>						
<b>Fixed Targets</b>	<b>#</b>	<b>Name</b>	<b>Target Coordinates</b>	<b>Targ. Coord. Corrections</b>	<b>Fluxes</b>	<b>Miscellaneous</b>
	(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000	V=14.68+/-0.02	Reference Frame: ICRS
<p><i>Comments: From Wolfe's TIR2009_02</i></p>						

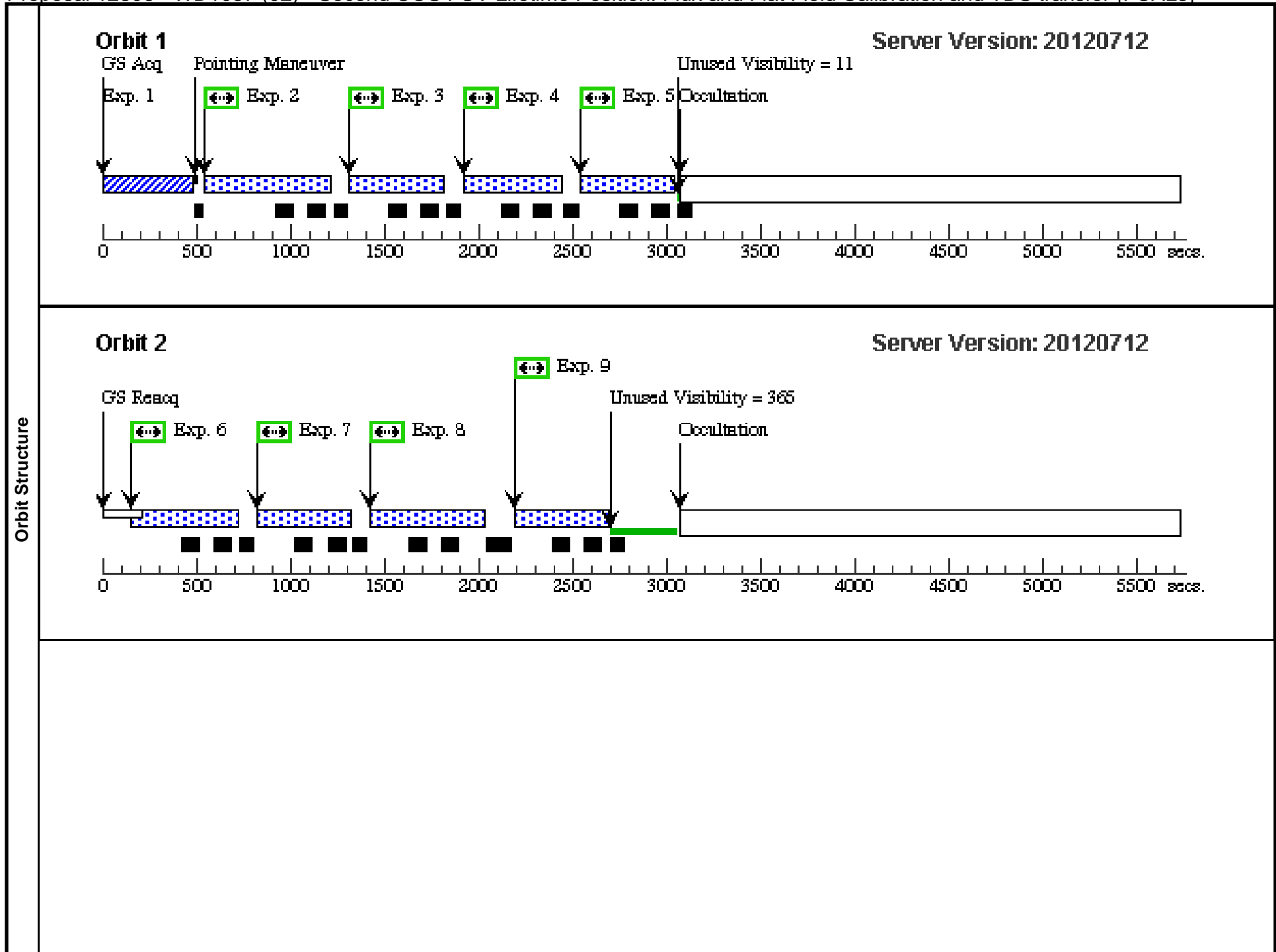
Proposal 12806 - WD1057 (02) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {FCAL3}

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
Exposures	1	ACQ/IM (396032)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			35 Secs [==>]	[1]
	2	G160M/157 7/FP1 (396034)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=1; BUFFER-TIME=17 0		450 Secs [==>]	[1]
	<i>Comments: P flat observation at extreme CENWAVE S/N &gt; 20/pix over FUVB</i>								
	3	G160M/157 7/FP2 (396034)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=2; BUFFER-TIME=17 0		450 Secs [==>]	[1]
	<i>Comments: P flat observation at extreme CENWAVE S/N &gt; 20/pix over FUVB</i>								
	4	G160M/157 7/FP3 (396034)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=17 0		463 Secs [==>]	[1]
	<i>Comments: P flat observation at extreme CENWAVE S/N &gt; 20/pix over FUVB</i>								
	5	G160M/157 7/FP4 (396034)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=4; BUFFER-TIME=17 0		450 Secs [==>]	[1]
	<i>Comments: P flat observation at extreme CENWAVE S/N &gt; 20/pix over FUVB</i>								
	6	G160M/160 0/FP1 (396035)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=1; BUFFER-TIME=17 0		450 Secs [==>]	[2]
<i>Comments: P flat observation at central CENWAVE S/N &gt; 20/pix over FUVB</i>									
7	G160M/160 0/FP2 (396035)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=2; BUFFER-TIME=17 0		450 Secs [==>]	[2]	
<i>Comments: P flat observation at central CENWAVE S/N &gt; 20/pix over FUVB</i>									
8	G160M/160 0/FP3 (396035)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=17 0		556 Secs [==>]	[2]	
<i>Comments: P flat observation at central CENWAVE S/N &gt; 20/pix over FUVB</i>									
9	G160M/160 0/FP4 (396035)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=4; BUFFER-TIME=17 0		450 Secs [==>]	[2]	
<i>Comments: P flat observation at central CENWAVE S/N &gt; 20/pix over FUVB</i>									
10	G160M/162 3/FP1 (396037)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=1; BUFFER-TIME=17 0		450 Secs [==>]	[3]	
<i>Comments: P flat observation at extreme CENWAVE S/N &gt; 20/pix for FUVB</i>									

Proposal 12806 - WD1057 (02) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {FCAL3}

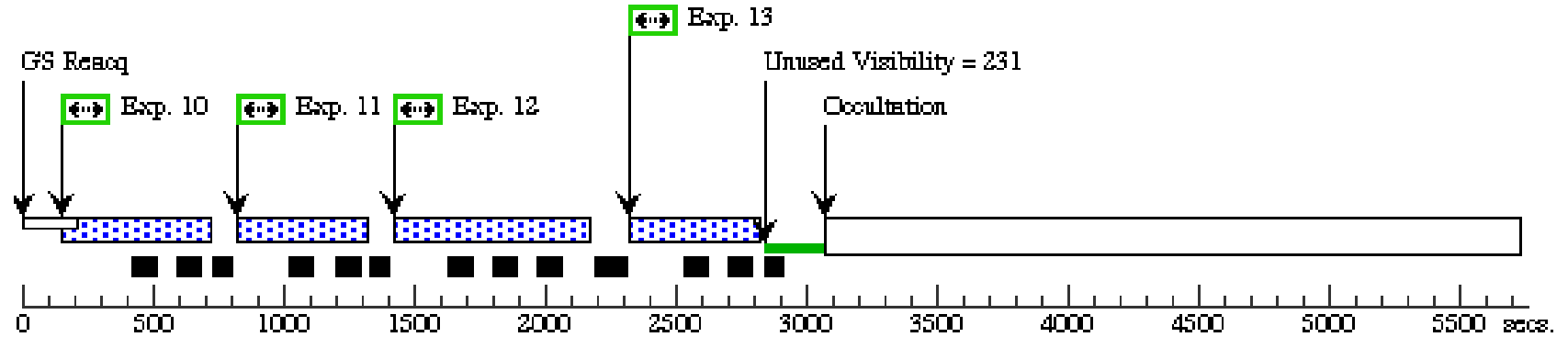
11	G160M/162 3/FP2 (396037)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=2; BUFFER-TIME=17 0	450 Secs [==>]	[3]
<i>Comments: P flat observation at extreme CENWAVE S/N &gt; 20/pix for FUVA</i>							
12	G160M/162 3/FP3 (396037)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=17 0	700 Secs [==>]	[3]
<i>Comments: P flat observation at extreme CENWAVE S/N &gt; 20/pix for FUVA</i>							
13	G160M/162 3/FP4 (396037)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=4; BUFFER-TIME=17 0	450 Secs [==>]	[3]
<i>Comments: P flat observation at extreme CENWAVE S/N &gt; 20/pix for FUVA</i>							
14	G160M/158 9 (396038)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1589 A	FP-POS=ALL; BUFFER-TIME=17 0	190 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[4]
<i>Comments: Flux cal and 2-D PSF at intermediate setting S/N &gt; 10/pix over FUVB</i>							
15	G160M/161 1 (396039)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1611 A	FP-POS=ALL; BUFFER-TIME=17 0	190 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[4] [5]
<i>Comments: Flux cal and 2-D PSF at intermediate setting S/N &gt; 10/pix over FUVB</i>							





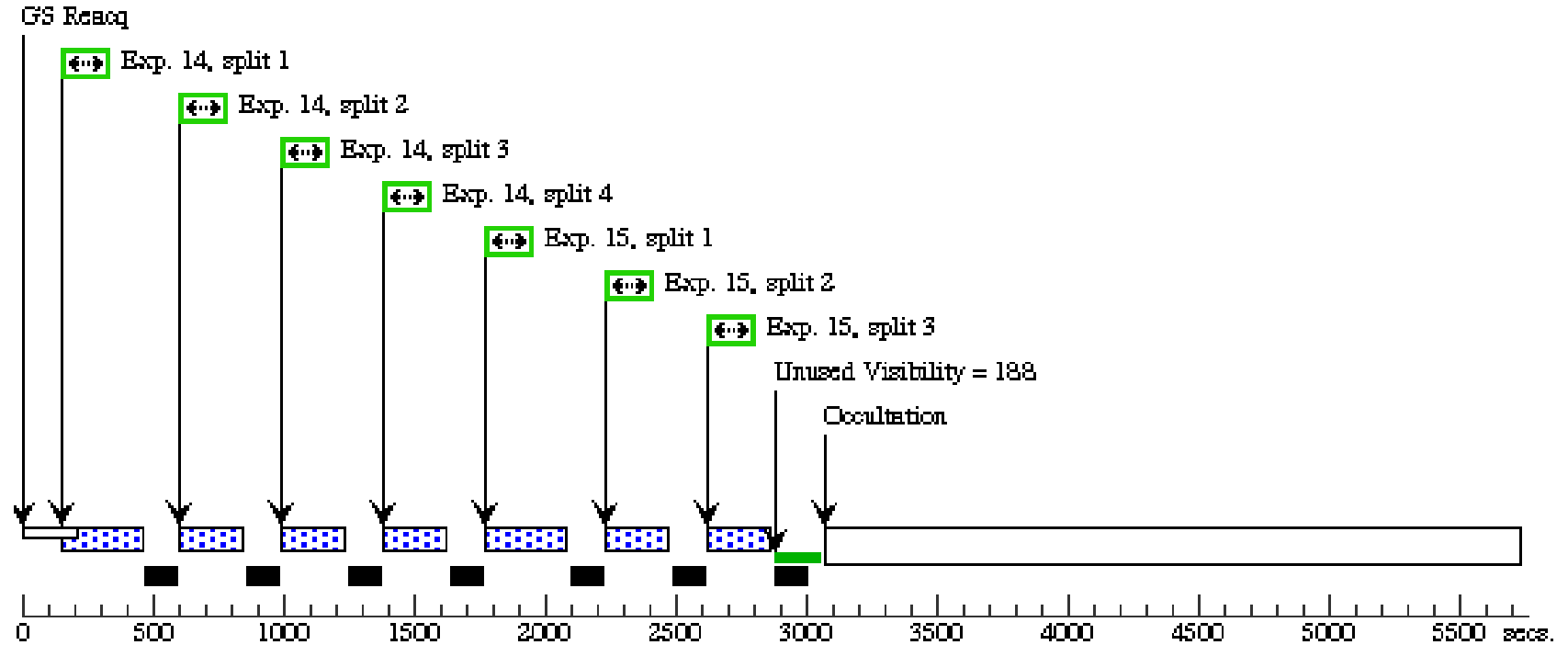
**Orbit 3**

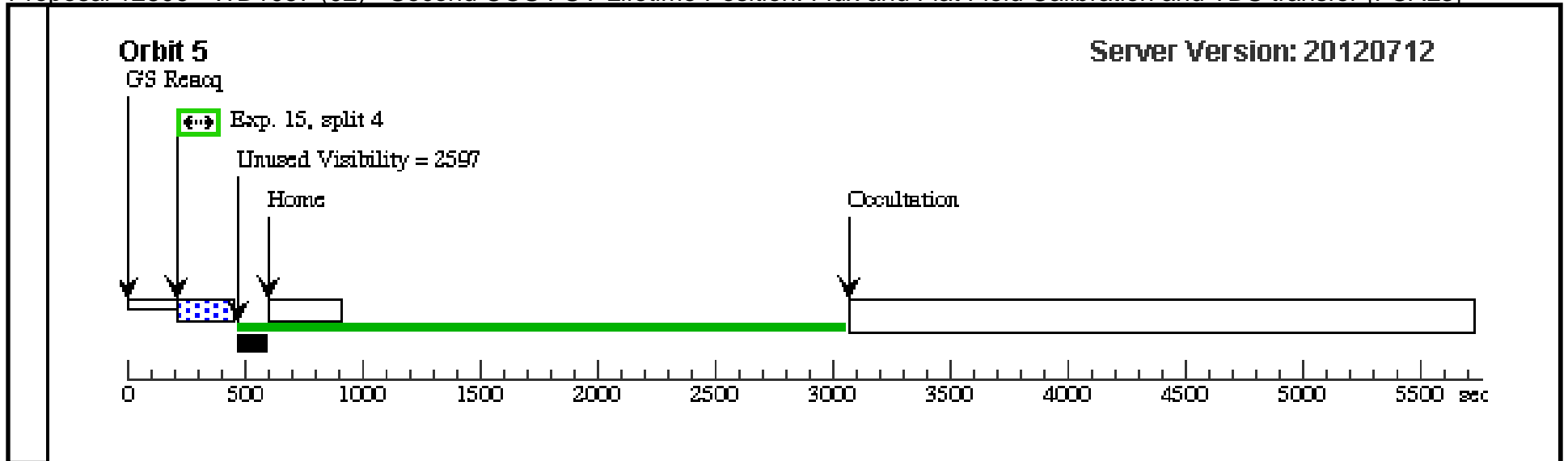
Server Version: 20120712



**Orbit 4**

Server Version: 20120712



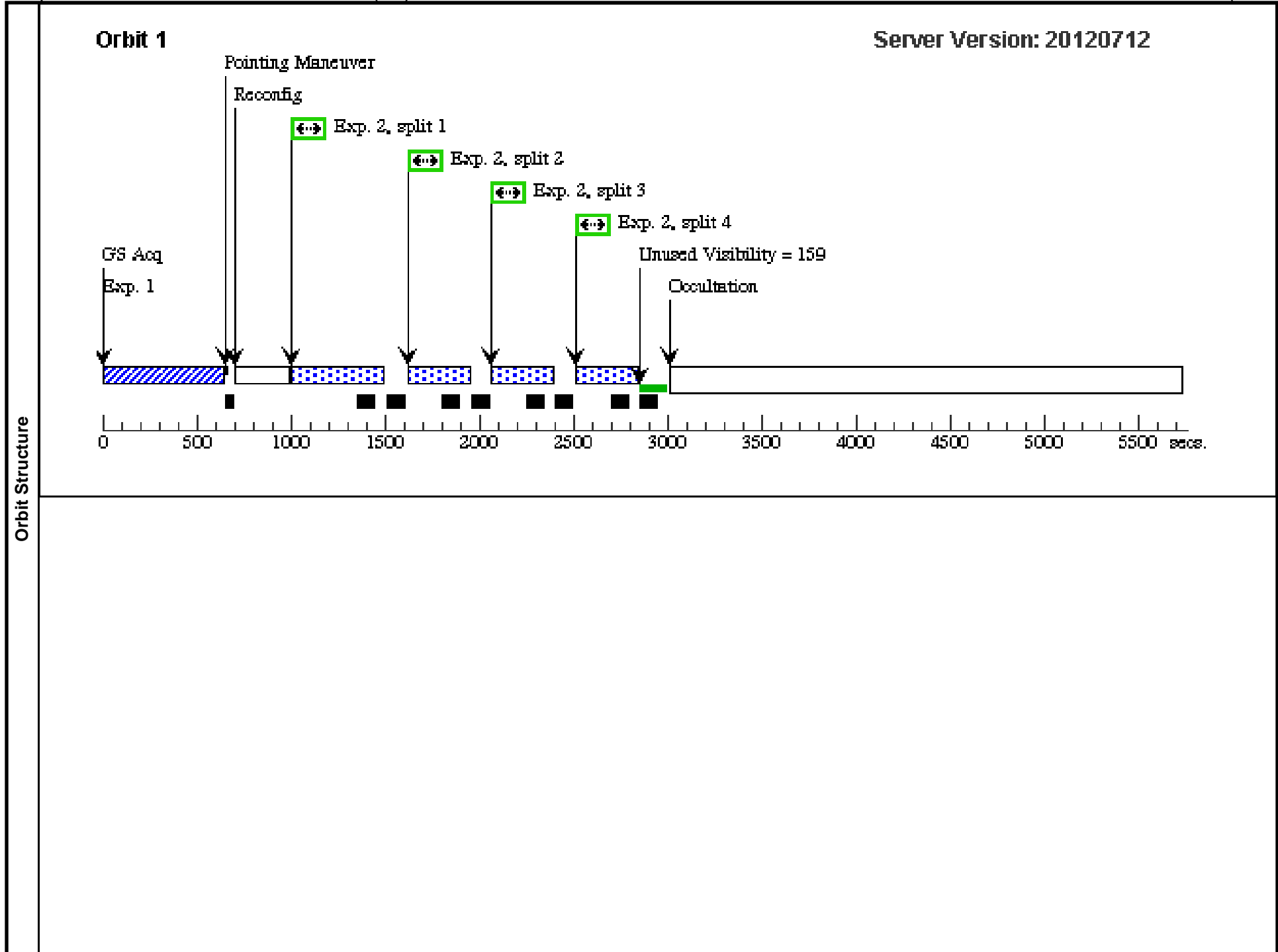


Proposal 12806 - GD71/G160M/FUVA (03) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {FC...

<b>Visit</b>	<p><b>Proposal 12806, GD71/G160M/FUVA (03), implementation</b> <span style="float: right;">Thu Aug 02 02:10:43 GMT 2012</span></p> <p><b>Diagnostic Status: Warning</b></p> <p>Scientific Instruments: COS/NUV, COS/FUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 02-JUL-2012:00:00:01 AND 30-SEP-2012:23:59:59</p> <p><i>Comments: P-flat observations for G160M FUVA. Also good for TDS standard transfer of a new target at the new position</i></p>																
	<p>(GD71/G160M/FUVA (03)) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.</p>																
<b>Diagnosics</b>																	
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(6)</td> <td>GD71</td> <td>RA: 05 52 27.6100 (88.1150417d) Dec: +15 53 13.80 (15.88717d) Equinox: J2000</td> <td>Proper Motion RA: 85 mas/yr Proper Motion Dec: -174 mas/yr Epoch of Position: 2000</td> <td>V=13.06+/-0.01</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Use sma RA, DEC and PM as in proposal 12392 by Bohlin et al.</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(6)	GD71	RA: 05 52 27.6100 (88.1150417d) Dec: +15 53 13.80 (15.88717d) Equinox: J2000	Proper Motion RA: 85 mas/yr Proper Motion Dec: -174 mas/yr Epoch of Position: 2000	V=13.06+/-0.01	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(6)	GD71	RA: 05 52 27.6100 (88.1150417d) Dec: +15 53 13.80 (15.88717d) Equinox: J2000	Proper Motion RA: 85 mas/yr Proper Motion Dec: -174 mas/yr Epoch of Position: 2000	V=13.06+/-0.01	Reference Frame: ICRS												

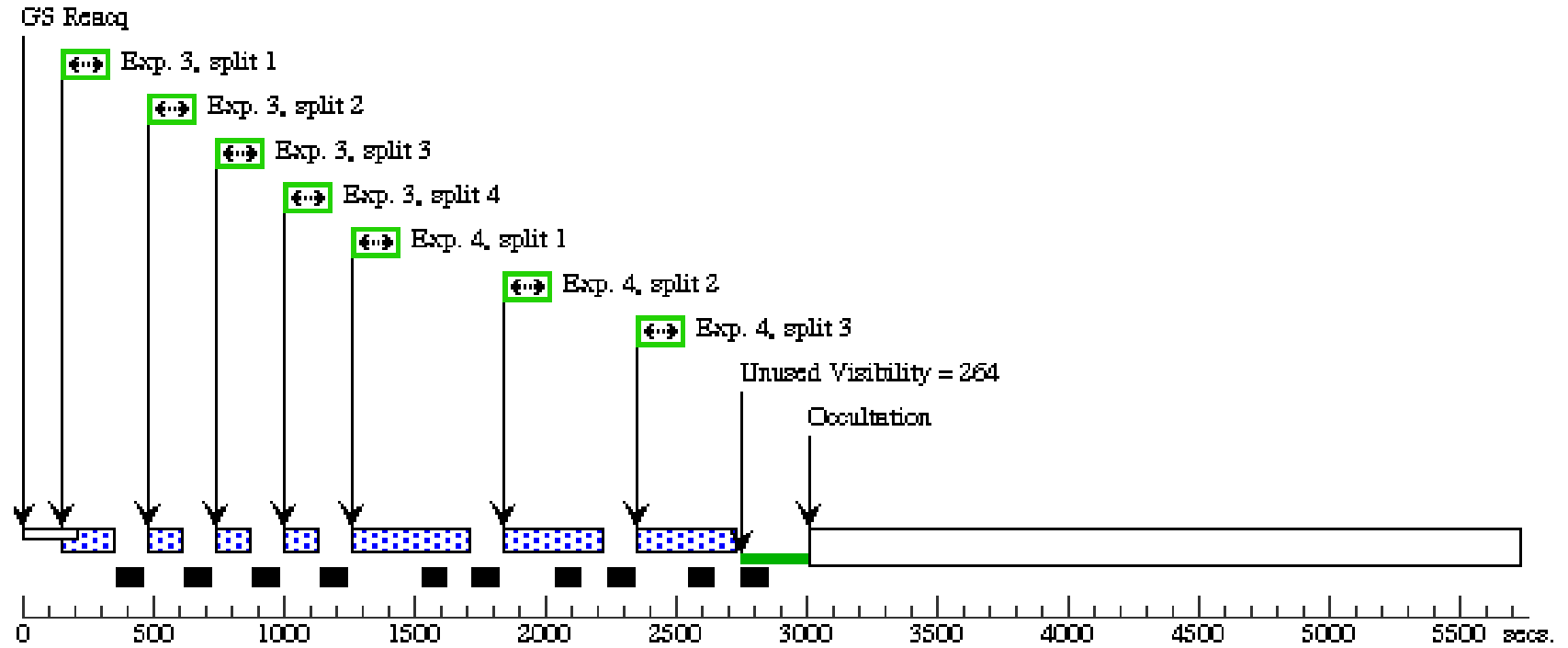
Proposal 12806 - GD71/G160M/FUVA (03) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {FC...

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	ACQ/IM (404797)	(6) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB			QASISTATES COS FUV HVSEGA HVS EGA	100 Secs [==>]	[1]	
	2	G160M/157 7 (404798)	(6) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	SEGMENT=A; FP-POS=ALL; BUFFER-TIME=15 0			275 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[1]	
	<i>Comments: P-flat at extreme wavelength S/N &gt; 20/1/pix over FUVA</i>										
	3	G160M/158 9 (404801)	(6) GD71	COS/FUV, TIME-TAG, PSA	G160M 1589 A	SEGMENT=A; FP-POS=ALL; BUFFER-TIME=80			80 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2]	
	<i>Comments: Flux cal and 2-D PSF at intermediate setting S/N &gt; 10/pix over FUVA</i>										
	4	G160M/160 0 (404799)	(6) GD71	COS/FUV, TIME-TAG, PSA	G160M 1600 A	SEGMENT=A; FP-POS=ALL; BUFFER-TIME=16 5			330 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[2] [3]	
	<i>Comments: P-flat at central wavelength S/N &gt; 20/1/pix over FUVA</i>										
	5	G160M/161 1 (404802)	(6) GD71	COS/FUV, TIME-TAG, PSA	G160M 1611 A	SEGMENT=A; FP-POS=ALL; BUFFER-TIME=92			92 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[3]	
	<i>Comments: Flux cal and 2-D PSF at intermediate setting S/N &gt; 10/pix over FUVA</i>										
6	G160M/162 3 (404800)	(6) GD71	COS/FUV, TIME-TAG, PSA	G160M 1623 A	SEGMENT=A; FP-POS=ALL; BUFFER-TIME=20 0			425 Secs [==>(Split 1)] [==>(Split 2)] [==>(Split 3)] [==>(Split 4)]	[3] [4]		
<i>Comments: P-flat at extreme wavelength S/N &gt; 20/1/pix over FUVA</i>											



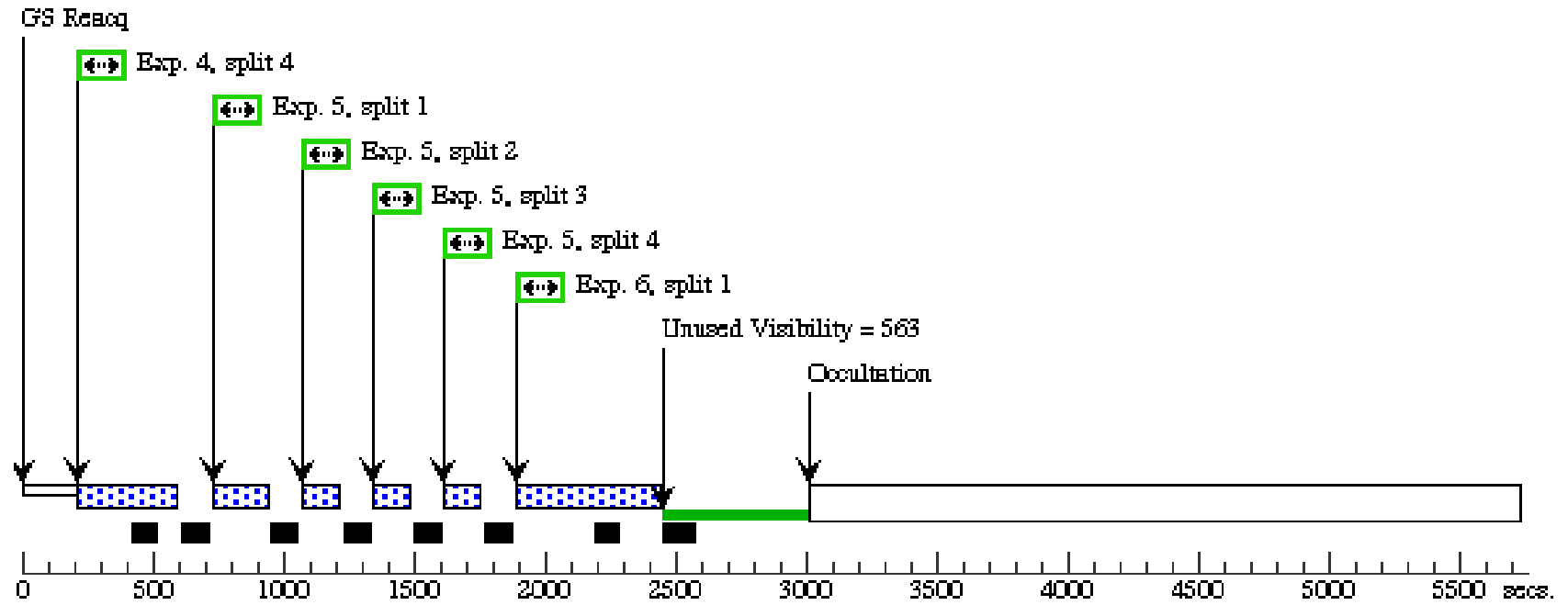
**Orbit 2**

Server Version: 20120712

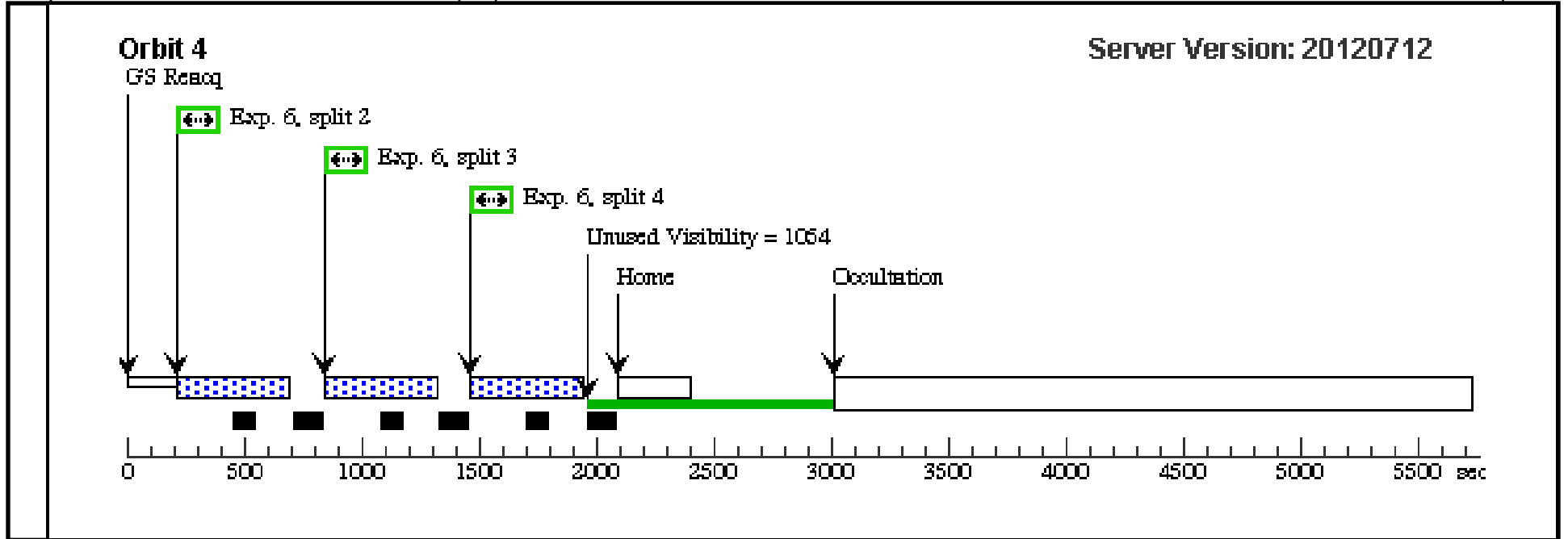


**Orbit 3**

Server Version: 20120712







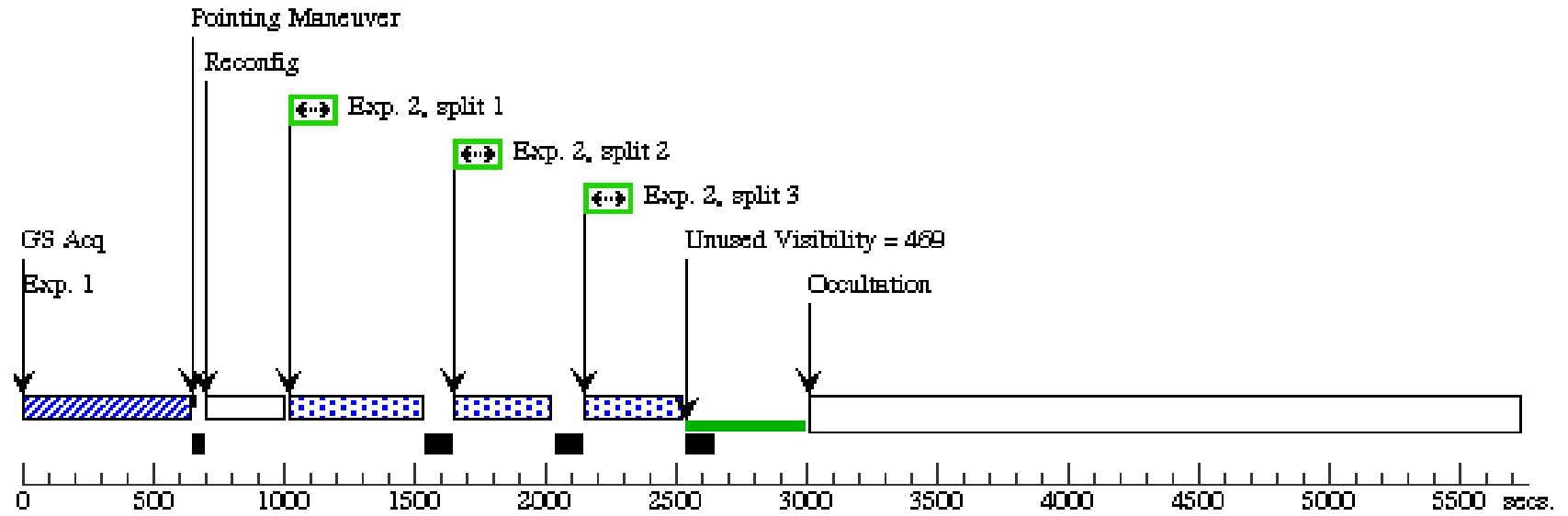
Proposal 12806 - GD71/FUV (04) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {FCAL3}

Thu Aug 02 02:10:46 GMT 2012

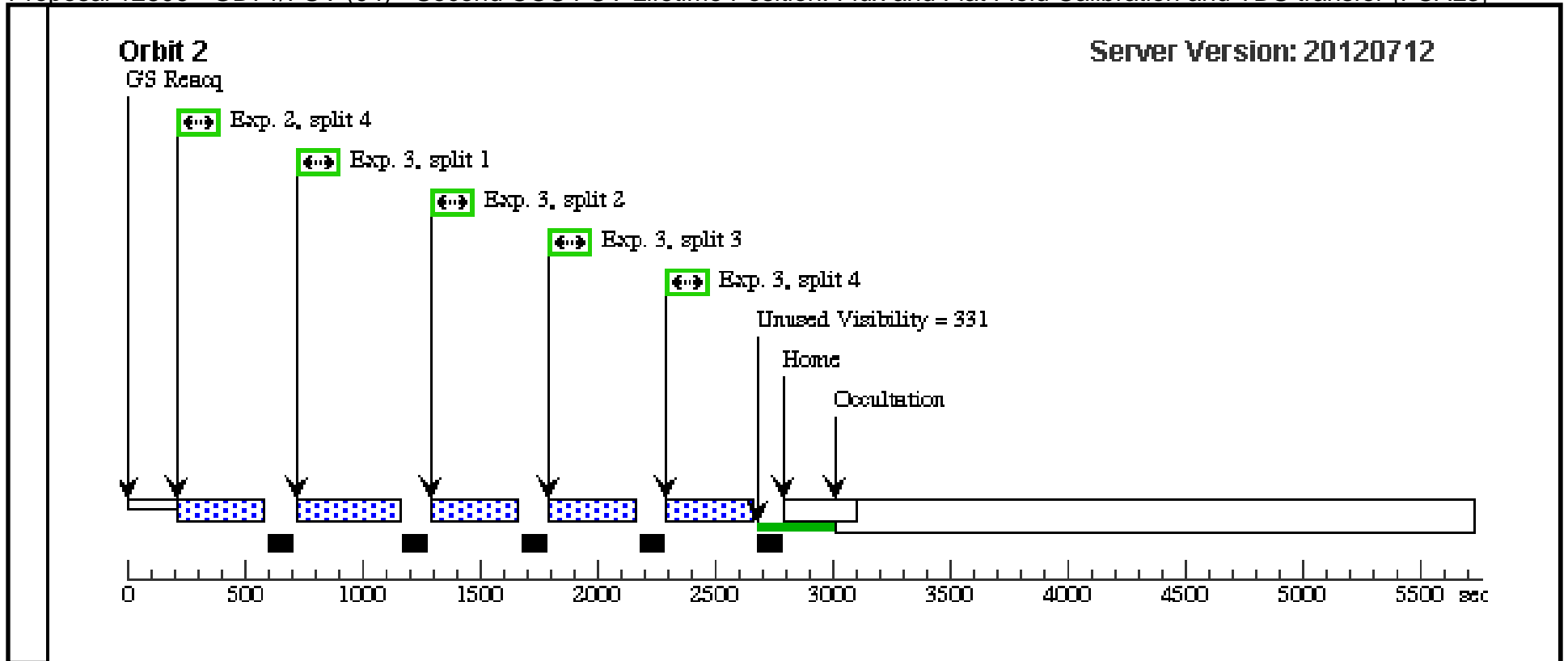
<b>Visit</b>	<b>Proposal 12806, GD71/FUV (04), implementation</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV, COS/FUV Special Requirements: SCHED 100%; BETWEEN 02-JUL-2012:00:00:01 AND 30-SEP-2012:23:59:59 <i>Comments: G130M FUVB calibration for wavelengths below the MgF cutoff</i>																																																
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<b>Exposures</b>	<i>Comments: Flux cal for FUVB at the new short wavelength settings</i>																																																
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**Orbit 1**

Server Version: 20120712



Orbit Structure



Proposal 12806 - old target, orig. position (T1) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {...

<b>Visit</b>	<b>Proposal 12806, old target, orig. position (T1), scheduling</b> <span style="float: right;">Thu Aug 02 02:10:48 GMT 2012</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV, S/C, COS/FUV Special Requirements: SCHED 100%; BETWEEN 02-JUL-2012:00:00:00 AND 30-SEP-2012:23:59:59																	
	(old target, orig. position (T1)) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE. (old target, orig. position (T1)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.																	
<b>Fixed Targets</b>	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(4)</td> <td>WD0947+857</td> <td>RA: 09 57 54.4230 (149.4767625d) Dec: +85 29 40.91 (85.49470d) Equinox: J2000</td> <td>Proper Motion RA: -0.01747 sec of time/yr Proper Motion Dec: -0.0253 arcsec/yr Epoch of Position: 1997.19</td> <td>V=15.9</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(4)	WD0947+857	RA: 09 57 54.4230 (149.4767625d) Dec: +85 29 40.91 (85.49470d) Equinox: J2000	Proper Motion RA: -0.01747 sec of time/yr Proper Motion Dec: -0.0253 arcsec/yr Epoch of Position: 1997.19	V=15.9	Reference Frame: ICRS
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(4)	WD0947+857	RA: 09 57 54.4230 (149.4767625d) Dec: +85 29 40.91 (85.49470d) Equinox: J2000	Proper Motion RA: -0.01747 sec of time/yr Proper Motion Dec: -0.0253 arcsec/yr Epoch of Position: 1997.19	V=15.9	Reference Frame: ICRS													
<i>Comments: HST FASTEX standard PM, coords from GSC2</i>																		

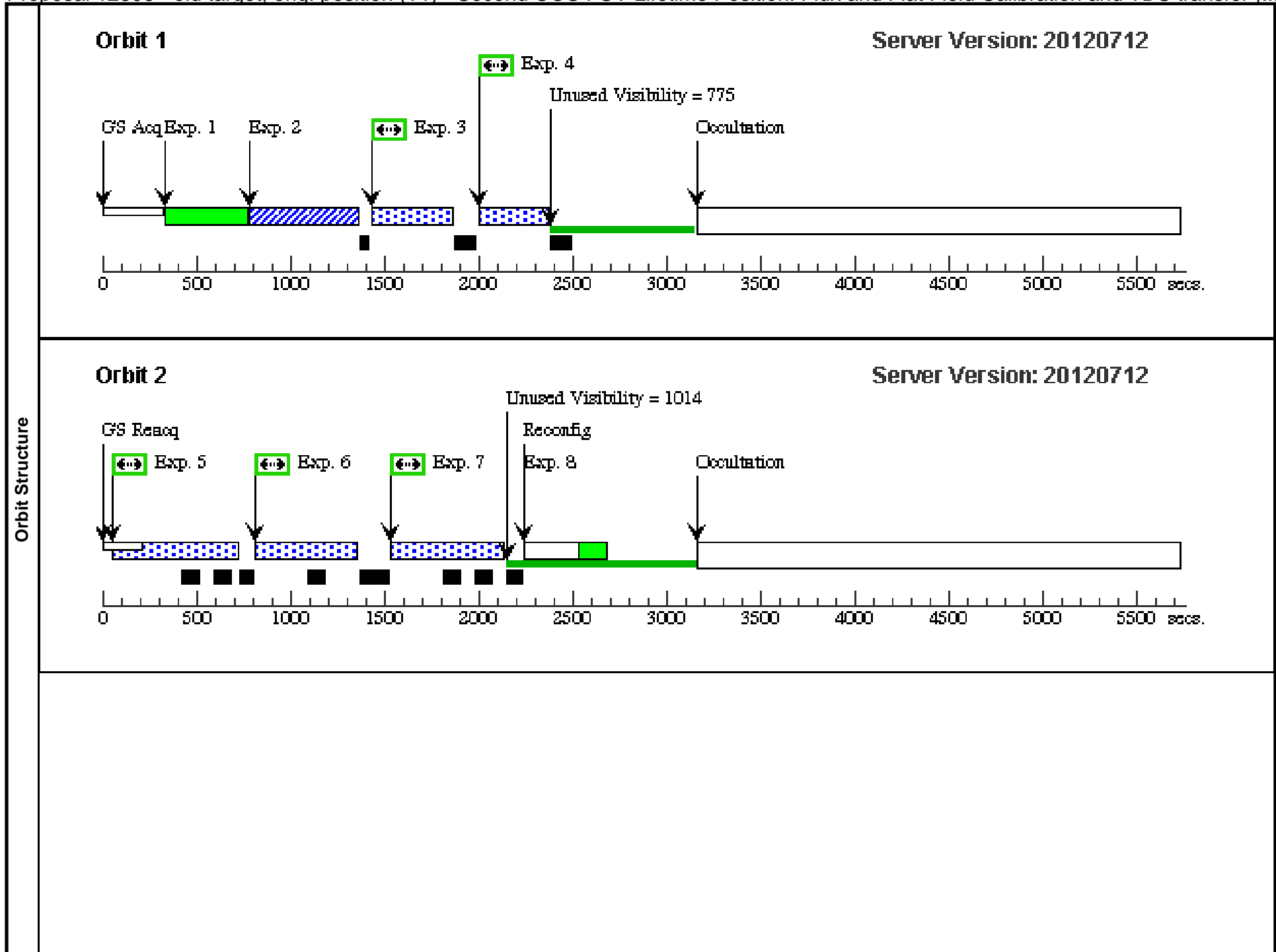
Proposal 12806 - old target, orig. position (T1) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {...

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	FUV SET HV TO SETT INGS AT ORIGINAL POSITION 1 78/175	DARK	S/C, DATA, NONE			SAA CONTOUR 31; SPEC COM INSTR ELHLTHVF; GS ACQ SCENARI O BASE1BN3; QASISTATES COS FUV HVLOW HVN OM; QESIPARM ENDC TSA 178; QESIPARM ENDC TSB 175	Sequence 1-2 Non-Int in old target, orig. p osition (T1)	451 Secs [==>]	[1]
<i>Comments: The special commanding sets HV to values last used at the original lifetime position.</i>									
2	MIRRORA - BOA ACQ /IMAGE (236962)	(4) WD0947+857	COS/NUV, ACQ/IMAGE, BOA	MIRRORA	LIFETIME-POS=O RIGINAL		Sequence 1-2 Non-Int in old target, orig. p osition (T1)	85.0 Secs [==>]	[1]
<i>Comments: SN=60 in 85 seconds, 43 counts in region, brightest pixel=5.9 cts/s</i>									
3	G140L - 123 0 A (236939)	(4) WD0947+857	COS/FUV, TIME-TAG, PSA	G140L 1230 A	BUFFER-TIME=24 9; FP-POS=3; LIFETIME-POS=O RIGINAL			250.0 Secs [==>]	[1]
<i>Comments: exposure times to reach SN of 30 per pixel are increased by a small amount to account for expected sensitivity degradation in Cycle 19.</i>									
4	G140L - 128 0 A (236939)	(4) WD0947+857	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=24 9; FP-POS=3; LIFETIME-POS=O RIGINAL			250.0 Secs [==>]	[1]
<i>Comments: exposure times to reach SN of 30 per pixel are increased by a small amount to account for expected sensitivity degradation in Cycle 19.</i>									
5	G130M - 13 09 A (199742)	(4) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1309 A	BUFFER-TIME=17 0; FP-POS=3; LIFETIME-POS=O RIGINAL			445.0 Secs [==>]	[2]
<i>Comments: exposure times to reach SN of 30 per pixel are increased by a small amount to account for expected sensitivity degradation in Cycle 19.</i>									
6	G130M - 12 91 A (199743)	(4) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=17 0; FP-POS=3; LIFETIME-POS=O RIGINAL			416.0 Secs [==>]	[2]
<i>Comments: exposure times to reach SN of 30 per pixel are increased by a small amount to account for expected sensitivity degradation in Cycle 19.</i>									
7	G130M - 13 27 A (199744)	(4) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 4; FP-POS=3; LIFETIME-POS=O RIGINAL			481.0 Secs [==>]	[2]
<i>Comments: exposure times to reach SN of 30 per pixel are increased by a small amount to account for expected sensitivity degradation in Cycle 19.</i>									

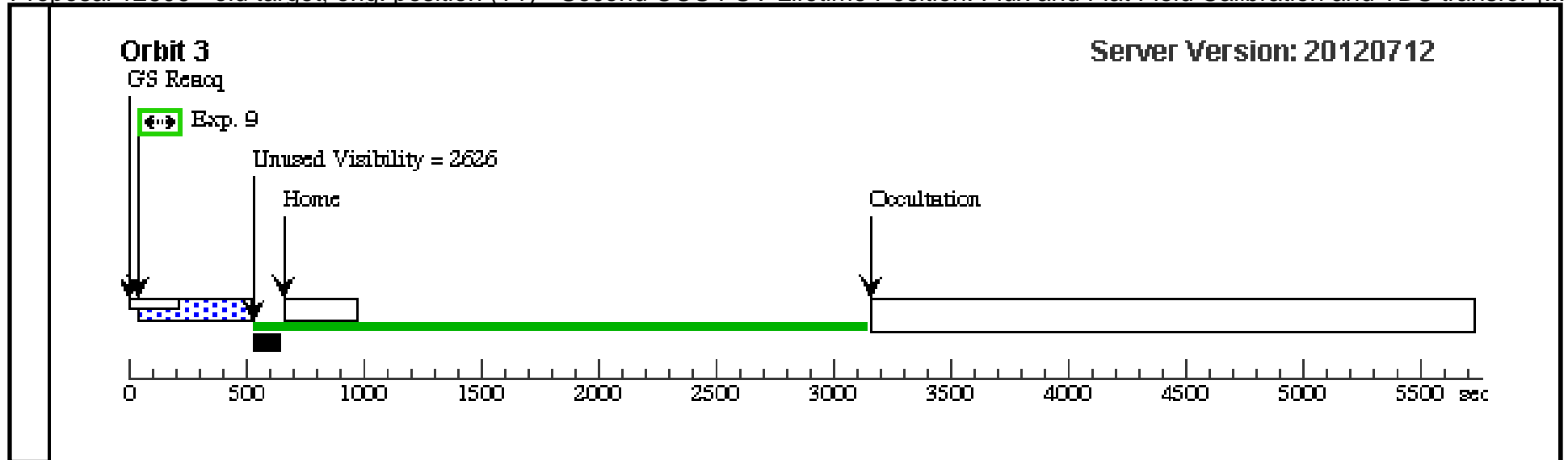
Exposures

Proposal 12806 - old target, orig. position (T1) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {...

8	FUV SET S DARK EG-A HV T O SETTING S AT ORIGI NAL POSIT ION 178	S/C, DATA, NONE	SAA CONTOUR 31; SPEC COM INSTR ELHLTHVF; QASISTATES COS FUV HVLOW HVS EGA; QESIPARM ENDC TSA 178; QESIPARM SEGM ENT A	451 Secs [==>]	[2]	
<i>Comments: The special commanding sets the Segment-A HV to values last used at the original lifetime position.</i>						
9	G140L - 110 (4) WD0947+857 5 A (236938)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=24 9; FP-POS=3; LIFETIME-POS=0 RIGINAL	250.0 Secs [==>]	[3]
<i>Comments: exposure times to reach SN of 30 per pixel are increased by a small amount to account for expected sensitivity degradation in Cycle 19.</i>						





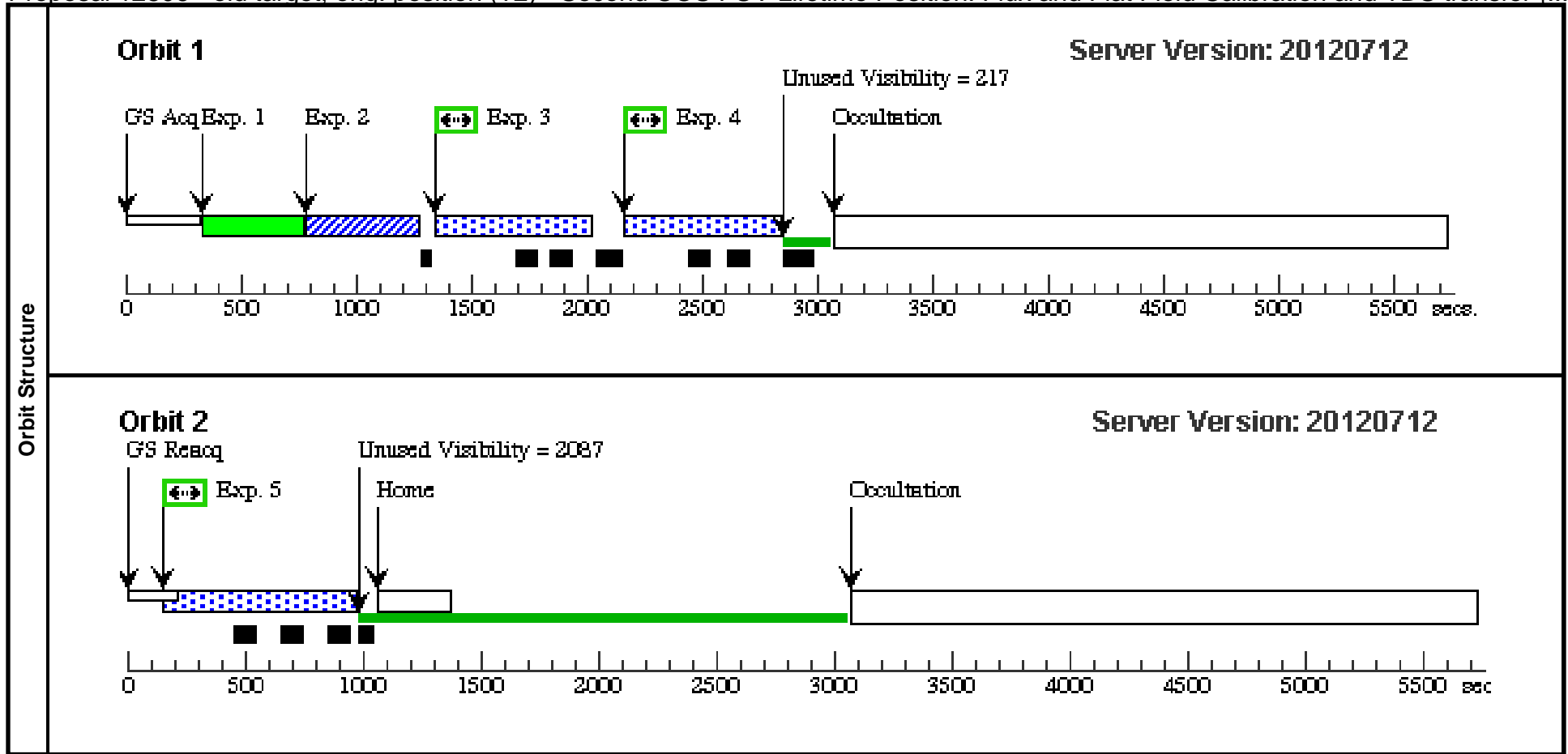


Proposal 12806 - old target, orig. position (T2) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {...

<b>Visit</b>	<b>Proposal 12806, old target, orig. position (T2), scheduling</b> <span style="float: right;">Thu Aug 02 02:10:51 GMT 2012</span> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV, S/C, COS/FUV Special Requirements: SCHED 100%; BETWEEN 02-JUL-2012:00:00:00 AND 30-SEP-2012:00:00:00																
	(old target, orig. position (T2)) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE. (old target, orig. position (T2)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.																
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous											
(2)	WD1057+719	RA: 11 00 34.2200 (165.1425833d) Dec: +71 38 2.99 (71.63416d) Equinox: J2000	Proper Motion RA: -0.00973 sec of time/yr Proper Motion Dec: -0.02 arcsec/yr Epoch of Position: 2000	V=14.68+/-0.02	Reference Frame: ICRS												
<i>Comments: From Wolfe's TIR2009_02</i>																	

Proposal 12806 - old target, orig. position (T2) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {...

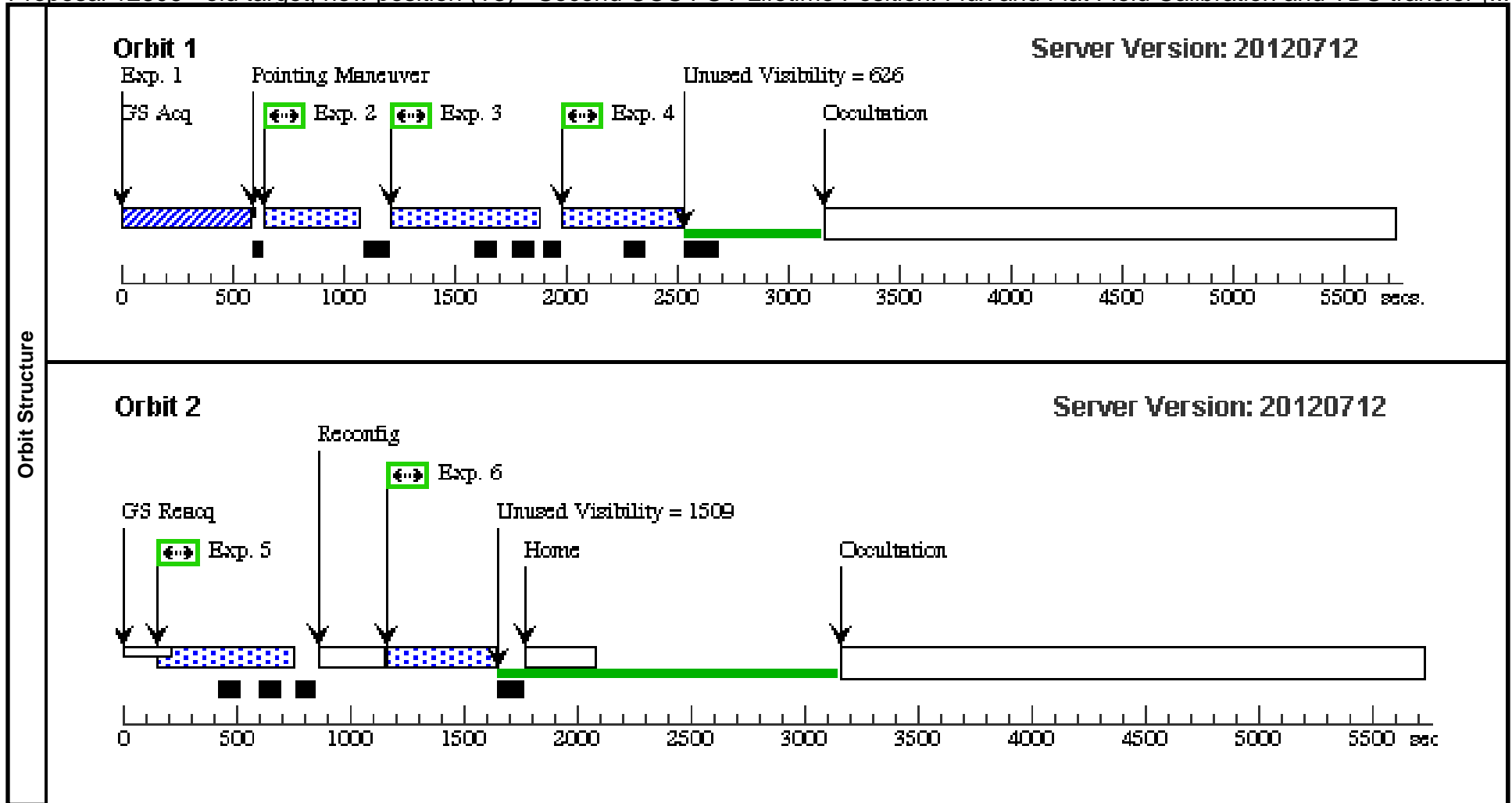
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	FUV SET HV TO SETT INGS AT ORIGINAL POSITION 1 78/175	DARK	S/C, DATA, NONE			SAA CONTOUR 31; SPEC COM INSTR ELHLTHVF; GS ACQ SCENARI O BASE1BN3; QASISTATES COS FUV HVLOW HVN OM; QESIPARM ENDC TSA 178; QESIPARM ENDC TSB 175	Sequence 1-2 Non-Int in old target, orig. p osition (T2)	451 Secs [==>]	[1]
<i>Comments: The special commanding sets HV to values last used at the original lifetime position.</i>									
2	MIRRORA - ACQ/IMAGE GE (236980)	(2) WD1057+719	COS/NUV, ACQ/IMAGE, BOA	MIRRORA	LIFETIME-POS=O RIGINAL		Sequence 1-2 Non-Int in old target, orig. p osition (T2)	40.0 Secs [==>]	[1]
<i>Comments: Spectroscopic acquisition for G160M</i>									
3	G160M - 15 77 (236973)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=15 0; FP-POS=3; LIFETIME-POS=O RIGINAL			463.0 Secs [==>]	[1]
<i>Comments: exposure times increased to account for sensitivity degradation. Nominal requirement is SNR=30 per resel at the central wavelength, however there is a large disparity between SNR on segment A and B, so t_exp was adjusted to give a reasonable compromise on both detectors.</i>									
4	G160M - 16 00 (236974)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1600 A	BUFFER-TIME=17 2; FP-POS=3; LIFETIME-POS=O RIGINAL			556.0 Secs [==>]	[1]
<i>Comments: exposure times increased to account for sensitivity degradation. Nominal requirement is SNR=30 per resel at the central wavelength, however there is a large disparity between SNR on segment A and B, so t_exp was adjusted to give a reasonable compromise on both detectors.</i>									
5	G160M - 16 23 (236977)	(2) WD1057+719	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=19 8; FP-POS=3; LIFETIME-POS=O RIGINAL			700.0 Secs [==>]	[2]
<i>Comments: exposure times increased to account for sensitivity degradation. Nominal requirement is SNR=30 per resel at the central wavelength, however there is a large disparity between SNR on segment A and B, so t_exp was adjusted to give a reasonable compromise on both detectors.</i>									



Proposal 12806 - old target, new position (T3) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer {...

Thu Aug 02 02:10:53 GMT 2012

<b>Visit</b>	<b>Proposal 12806, old target, new position (T3), scheduling</b> <b>Diagnostic Status: Warning</b> Scientific Instruments: COS/NUV, COS/FUV Special Requirements: SCHED 100%; BETWEEN 02-JUL-2012:00:00:00 AND 30-SEP-2012:00:00:00										
	(old target, new position (T3)) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE. (old target, new position (T3)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.										
<b>Fixed Targets</b>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous					
	(4)	WD0947+857	RA: 09 57 54.4230 (149.4767625d) Dec: +85 29 40.91 (85.49470d) Equinox: J2000	Proper Motion RA: -0.01747 sec of time/yr Proper Motion Dec: -0.0253 arcsec/yr Epoch of Position: 1997.19	V=15.9	Reference Frame: ICRS					
<i>Comments: HST FASTEX standard PM, coords from GSC2</i>											
<b>Exposures</b>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	MIRRORA - BOA ACQ /IMAGE (236962)	(4) WD0947+857	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				85.0 Secs [==>]	[1]	
	<i>Comments: SN=60 in 85 seconds, 43 counts in region, brightest pixel=5.9 cts/s</i>										
	2	G140L - 123 0 A (236939)	(4) WD0947+857	COS/FUV, TIME-TAG, PSA	G140L 1280 A		BUFFER-TIME=24 9; FP-POS=3			250.0 Secs [==>]	[1]
	<i>Comments: exposure times to reach SN of 30 per pixel are increased by a small amount to account for expected sensitivity degradation in Cycle 19.</i>										
	3	G130M - 13 09 A (199742)	(4) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1309 A		BUFFER-TIME=17 0; FP-POS=3			445.0 Secs [==>]	[1]
	<i>Comments: exposure times to reach SN of 30 per pixel are increased by a small amount to account for expected sensitivity degradation in Cycle 19.</i>										
	4	G130M - 12 91 A (199743)	(4) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=17 0; FP-POS=3			416.0 Secs [==>]	[1]
<i>Comments: exposure times to reach SN of 30 per pixel are increased by a small amount to account for expected sensitivity degradation in Cycle 19.</i>											
5	G130M - 13 27 A (199744)	(4) WD0947+857	COS/FUV, TIME-TAG, PSA	G130M 1327 A		BUFFER-TIME=17 4; FP-POS=3			481.0 Secs [==>]	[2]	
<i>Comments: exposure times to reach SN of 30 per pixel are increased by a small amount to account for expected sensitivity degradation in Cycle 19.</i>											
6	G140L - 110 5 A (236938)	(4) WD0947+857	COS/FUV, TIME-TAG, PSA	G140L 1105 A		BUFFER-TIME=24 9; FP-POS=3			250.0 Secs [==>]	[2]	
<i>Comments: exposure times to reach SN of 30 per pixel are increased by a small amount to account for expected sensitivity degradation in Cycle 19.</i>											



Proposal 12806 - new target, new position (T4) - Second COS FUV Lifetime Position: Flux and Flat Field Calibration and TDS transfer ...

Thu Aug 02 02:10:54 GMT 2012

**Visit**  
**Proposal 12806, new target, new position (T4), scheduling**  
**Diagnostic Status: Warning**  
 Scientific Instruments: COS/NUV, COS/FUV  
 Special Requirements: SCHED 100%; BETWEEN 02-JUL-2012:00:00:00 AND 30-SEP-2012:00:00:00  
*Comments: These observations are needed because G160M observations of WD0308 will be used in the new TDS program, but are not a part of the flux/flat field calibration observations.*  
*The exposure times for the new observations are determined so that the minimum S/N/resol is 15.*

**Diagnostics**  
 (new target, new position (T4)) Warning (Form): If the target coordinates are not known to 0.4" (or better) an ACQ/SEARCH should precede the ACQ/IMAGE.  
 (new target, new position (T4)) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

**Fixed Targets**

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS

*Comments: Coordinates from Charle's proposal*

**Exposures**

#	Label (ETC Run)	Target	Config, Mode, Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1	ACQ/IM (396029)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs [==>]	[1]
2	G160M/157 7 (395846)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=25 0			290 Secs [==>]	[1]
3	G160M/160 0 (395849)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1600 A	FP-POS=3; BUFFER-TIME=25 0			346 Secs [==>]	[1]
4	G160M/162 3 (395848)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=25 0			400 Secs [==>]	[1]

