



15535 - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Cycle: 26, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Dr. Ravi Sankrit (PI) (Contact)	Space Telescope Science Institute	rsankrit@stsci.edu
Dr. Gisella De Rosa (CoI)	Space Telescope Science Institute	gderosa@stsci.edu
Dr. David J. Sahnou (CoI)	Space Telescope Science Institute	sahnou@stsci.edu
Dr. Cristina Oliveira (CoI)	Space Telescope Science Institute	oliveira@stsci.edu
Dr. Bethan Lesley James (CoI) (ESA Member)	Space Telescope Science Institute - ESA	bjames@stsci.edu

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>
01	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	30-Oct-2019 09:00:27.0	yes
51	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	30-Oct-2019 09:00:29.0	yes
02	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	1	30-Oct-2019 09:00:31.0	yes
03	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	30-Oct-2019 09:00:33.0	yes

Proposal 15535 (STScI Edit Number: 11, Created: Wednesday, October 30, 2019 at 8:01:00 AM Eastern Standard Time) - Overview

<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>
53	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	30-Oct-2019 09:00:35.0	yes
04	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	30-Oct-2019 09:00:37.0	yes
05	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	30-Oct-2019 09:00:39.0	yes
06	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	30-Oct-2019 09:00:40.0	yes
56	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	30-Oct-2019 09:00:42.0	yes
07	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	30-Oct-2019 09:00:44.0	yes
57	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	30-Oct-2019 09:00:47.0	yes
08	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	30-Oct-2019 09:00:49.0	yes
58	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	30-Oct-2019 09:00:51.0	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>
09	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	30-Oct-2019 09:00:53.0	yes
10	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	30-Oct-2019 09:00:55.0	yes
60	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	3	30-Oct-2019 09:00:57.0	yes
11	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	2	30-Oct-2019 09:00:59.0	yes

42 Total Orbits Used

ABSTRACT

The FUV gratings are the most used modes on COS. They have experienced changes in sensitivity since the instrument was installed. The trends in the time-dependent spectroscopic sensitivity depend on the grating, segment and wavelength. This calibration proposal is to monitor the sensitivity of each FUV grating mode at several cenwave settings on an approximately bi-monthly schedule, and to characterize the observed trends.

OBSERVING DESCRIPTION

As part of the standard monitoring sequence the standard stars, WD0308-565 and GD71, will be observed every two months (except for May-July, during which time GD71 is unavailable).

Each sequence consists of 3 orbits: a 2 orbit visit (target WD0308-565) that covers

G130M/1055/FUVA,

G130M/1222,

G130M/1291,

G130M/1327/FUVA,

G160M/1577/FUVB,
G160M/1623/FUVB,
G140L/1105/FUVA,
G140L/1280,

and a 1 orbit visit (target GD71) that covers

G130M/1096/FUVB,
G160M/1577/FUVA,
G160M/1623/FUVA.

These comprise the reddest and bluest central wavelengths of each grating with additional coverage of the G130M blue modes. The observations will be done at LP4, except for G130M/1055 and G130M/1096, which will be done at LP2.

SNR requirements:

- SNR of 15 per resel at wavelength of least sensitivity for the standard modes, SNR of 25 per resel at wavelength of most sensitivity for the blue modes. For the blue modes, this will ensure $S/N > 15$ for $\lambda > 1030$ ang for 1096/FUVB, $\lambda > 1130$ Ang for 1055/FUVA and 1222/FUVB
- TDS calibration better than 2% for standard modes and 10% for blue modes

Time constraints:

- Complete monitoring sequence should occur every 2 months starting in December 2018.
- GD71 is unschedulable May-July 2018, and therefore that sequence will consist of only one visit.

2019 Jan 31 update:

The new cenwaves have been added to the visits, so each sequence consists now of 5 orbits.

The 3 orbit visit (target WD0308-565) covers, in addition to the list above,

G160M/1533/FUVB
G140L/800/FUVA

Proposal 15535 (STScI Edit Number: 11, Created: Wednesday, October 30, 2019 at 8:01:00 AM Eastern Standard Time) - Overview
and the 2 orbit visit (target GD71) additionally covers
G160M/1533/FUVA

Because of the addition of one orbit to each visit, the order of exposures, and the exposure times have been revised as necessary. Furthermore, for all but one set of the WD0308-565 observations using G160M, the specifications now are SEGMENT=B (i.e. segment A is turned off). The one exception is the June sequence (visit 07) for which the specifications are SEGMENT=BOTH for these modes, because GD71 is not available during this period.

Proposal 15535 - WD0308 - Dec complete (01) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Visit	Proposal 15535, WD0308 - Dec complete (01), completed Wed Oct 30 13:01:00 GMT 2019 Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 26-DEC-2018:00:00:00 AND 08-JAN-2019:00:00:00																							
	Diagnostics	(WD0308 - Dec complete (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD0308 - Dec complete (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																						
Fixed Targets		<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>(1)</td> <td>WD0308-565</td> <td>RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000</td> <td>Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000</td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td colspan="6"> <i>Comments: Coordinates carried over from Cycle 25 proposal</i> <i>Category=STAR</i> <i>Description=[DB]</i> <i>Extended=NO</i> </td> </tr> </tbody> </table>						#	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	<i>Comments: Coordinates carried over from Cycle 25 proposal</i> <i>Category=STAR</i> <i>Description=[DB]</i> <i>Extended=NO</i>				
	#	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																			
<i>Comments: Coordinates carried over from Cycle 25 proposal</i> <i>Category=STAR</i> <i>Description=[DB]</i> <i>Extended=NO</i>																								

Proposal 15535 - WD0308 - Dec complete (01) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

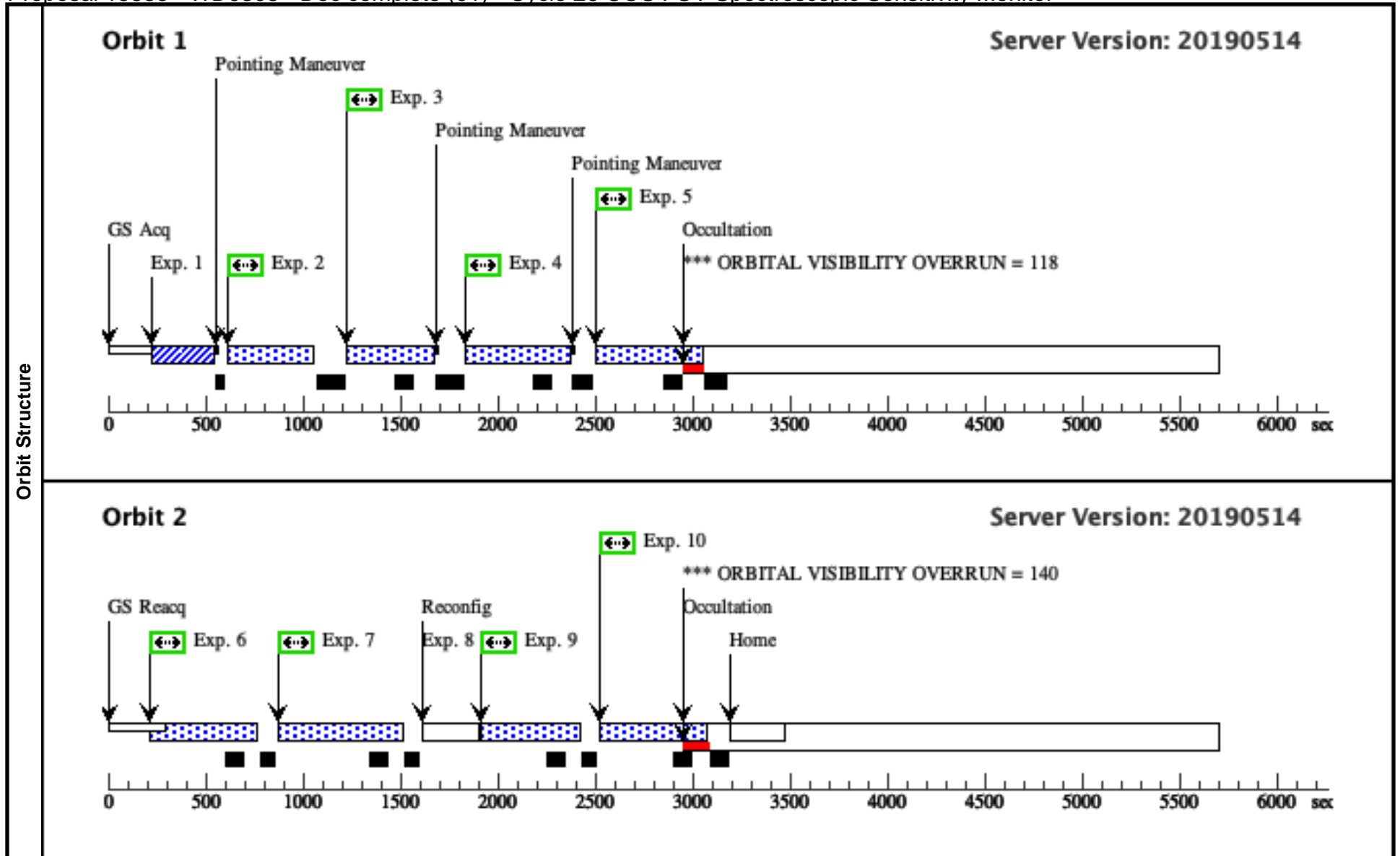
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs)		
								[==>]	[1]	
	<i>Comments: cycle 26 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
	2	G130M/122 2 (COS.sp.118 4026)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=17 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			176 Secs (254 Secs)	
								[==>254.0 Secs]	[1]	
<i>Comments: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 Continue use of 1 FP-POS</i>										
<i>Cy 26 exposure time relative to Cy25 (COS.sp.1021684) not significant.</i>										
<i>Use Cy25 value and allow the orbit planner to adjust durations.</i>										
3	G130M/129 1 (COS.sp.118 4029)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 1; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			231 Secs (309 Secs)		
								[==>309.0 Secs]	[1]	
<i>Comments: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144 Continue use of 1 FP-POS</i>										
<i>Cy 26 exposure time relative to Cy25 (COS.sp.1021690) not significant.</i>										
<i>Use Cy25 value and allow the orbit planner to adjust durations.</i>										
4	G130M/105 5/LP2 (COS.sp.118 4033)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=18 5; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			285 Secs (363 Secs)		
								[==>363.0 Secs]	[1]	
<i>Comments: ETC buffer time is larger than exptime (1482) Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 224 Continue use of 1 FP-POS</i>										
<i>While the program is optimized for FUVB we use the low SNR FUVB data to constraint the blue edge of the wavelength range.</i>										
<i>Cy 26 exposure time relative to Cy25 (COS.sp.1021696) not significant.</i>										
<i>Use Cy25 value and allow the orbit planner to adjust durations.</i>										

Proposal 15535 - WD0308 - Dec complete (01) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

5	G160M/157 (1) WD0308-565 7 (COS.sp.118 4034)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 4; LIFETIME-POS=L P4; SEGMENT=BOTH	264 Secs (342 Secs) [==>342.0 Secs]	[1]
<p>Comments: ETC buffer time is 599, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 190</p> <p>Continue use of 1 FP-POS</p> <p>Cy 26 exposure time relative to Cy25 (COS.sp.1021702) not significant.</p> <p>Use Cy25 value and allow the orbit planner to adjust durations.</p>						
6	G160M/162 (1) WD0308-565 3 (COS.sp.118 4035)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P4; SEGMENT=BOTH	368 Secs (418 Secs) [==>418.0 Secs]	[2]
<p>Comments: ETC buffer time is 799, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 300 Continue use of 1 FP-POS</p> <p>Cy 26 exposure time relative to Cy25 (COS.sp.1021704) not significant.</p> <p>Use Cy25 value and allow the orbit planner to adjust durations.</p>						
7	G140L/1280 (1) WD0308-565 (COS.sp.118 4038)	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH	328 Secs (378 Secs) [==>378.0 Secs]	[2]
<p>Comments: ETC buffer time is 451, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</p> <p>Cy 26 exposure time is 282 seconds, compared with Cy25 (COS.sp.1021719) time of 328 seconds, due to a shallower TDS.</p> <p>Use Cy25 value and allow the orbit planner to adjust durations.</p>						
8	DARK	S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>						

Proposal 15535 - WD0308 - Dec complete (01) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

9	G140L/1105 (1) WD0308-565 /FUVA (COS.sp.118 4043)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (377 Secs)	[=>377.0 Secs]	[2]
<p>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</p> <p>Cy 26 exposure time is 283 seconds, compared with Cy25 (COS.sp.1021720) time of 327 seconds, due to a shallower TDS.</p> <p>Use Cy25 value and allow the orbit planner to adjust durations.</p>							
10	G130M/132 (1) WD0308-565 7/FUVA (COS.sp.118 4044)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (328 Secs)	[=>328.0 Secs]	[2]
<p>Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS</p> <p>Cy 26 exposure time relative to Cy25 (COS.sp.1021693) not significant.</p> <p>Use Cy25 value and allow the orbit planner to adjust durations.</p>							



Proposal 15535 - WD0308 - Dec complete (51) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Visit	Proposal 15535, WD0308 - Dec complete (51), withdrawn Wed Oct 30 13:01:00 GMT 2019 Diagnostic Status: No Diagnostics Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 21-FEB-2019 AND 22-MAR-2019					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(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
<i>Comments: Coordinates carried over from Cycle 25 proposal</i> Category=STAR Description=[DB] Extended=NO						

Proposal 15535 - WD0308 - Dec complete (51) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				45 Secs (45 Secs) [==>]	[1]
<p><i>Comments: cycle 26 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i></p>									
2	G130M/122 2 (COS.sp.118 4026)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=17 6; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			176 Secs (176 Secs) [==>]	[1]
<p><i>Comments: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 Continue use of 1 FP-POS</i></p> <p><i>Cy 26 exposure time relative to Cy25 (COS.sp.1021684) not significant.</i></p> <p><i>Use Cy25 value and allow the orbit planner to adjust durations.</i></p>									
3	G130M/129 1 (COS.sp.118 4029)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 1; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			231 Secs (231 Secs) [==>]	[1]
<p><i>Comments: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144 Continue use of 1 FP-POS</i></p> <p><i>Cy 26 exposure time relative to Cy25 (COS.sp.1021690) not significant.</i></p> <p><i>Use Cy25 value and allow the orbit planner to adjust durations.</i></p>									
4	G130M/105 5/LP2 (COS.sp.118 4033)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=18 5; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			285 Secs (285 Secs) [==>]	[1]
<p><i>Comments: ETC buffer time is larger than exptime (1482) Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 224 Continue use of 1 FP-POS</i></p> <p><i>While the program is optimized for FUVB we use the low SNR FUVB data to constraint the blue edge of the wavelength range.</i></p> <p><i>Cy 26 exposure time relative to Cy25 (COS.sp.1021696) not significant.</i></p> <p><i>Use Cy25 value and allow the orbit planner to adjust durations.</i></p>									

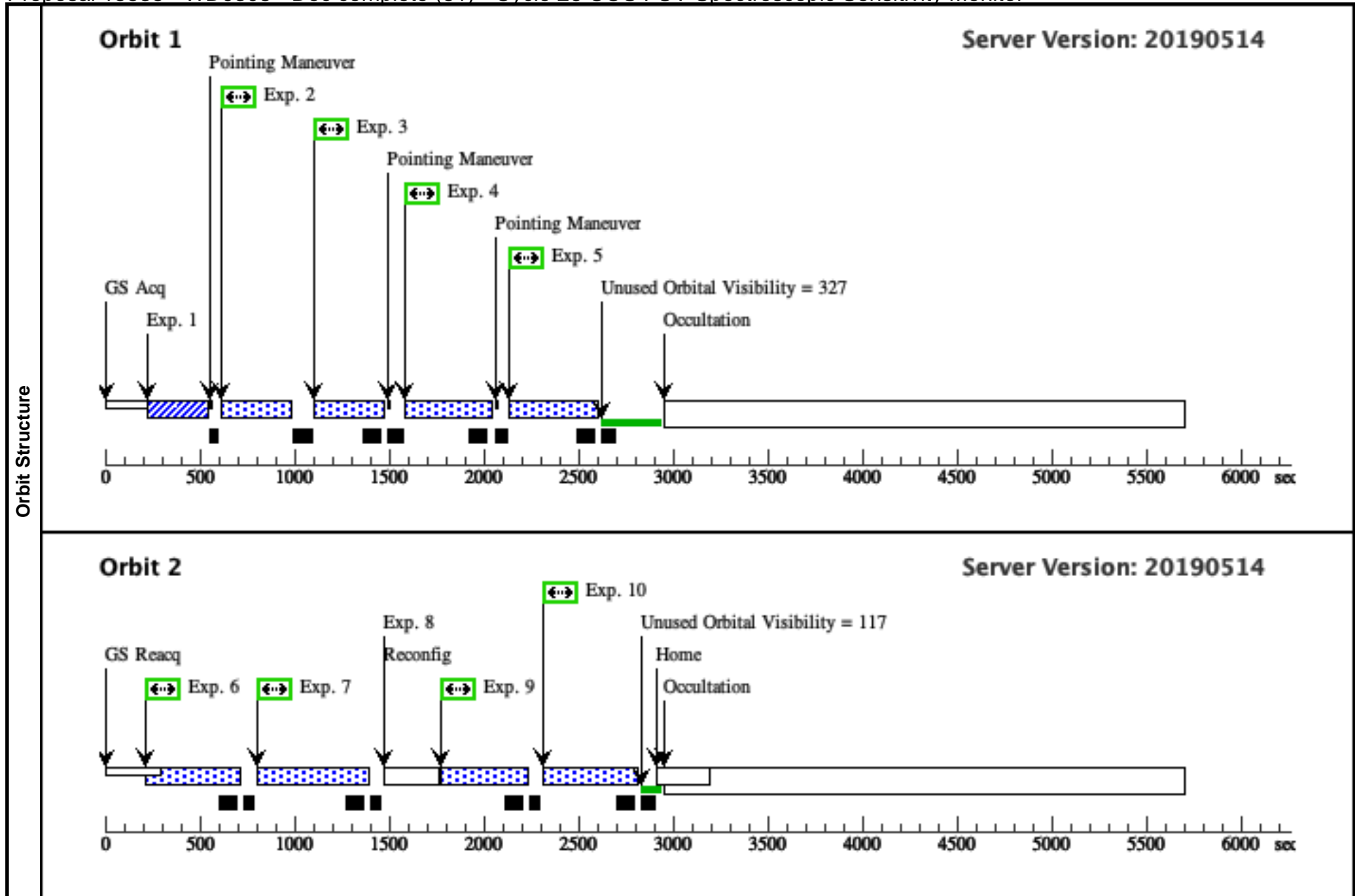
Exposures

Proposal 15535 - WD0308 - Dec complete (51) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

5	G160M/157 (1) WD0308-565 7 (COS.sp.118 4034)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 4; LIFETIME-POS=L P4; SEGMENT=BOTH	264 Secs (264 Secs)	[==>]	[1]
<p>Comments: ETC buffer time is 599, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 190</p> <p>Continue use of 1 FP-POS</p> <p>Cy 26 exposure time relative to Cy25 (COS.sp.1021702) not significant.</p> <p>Use Cy25 value and allow the orbit planner to adjust durations.</p>							
6	G160M/162 (1) WD0308-565 3 (COS.sp.118 4035)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P4; SEGMENT=BOTH	368 Secs (368 Secs)	[==>]	[2]
<p>Comments: ETC buffer time is 799, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 300 Continue use of 1 FP-POS</p> <p>Cy 26 exposure time relative to Cy25 (COS.sp.1021704) not significant.</p> <p>Use Cy25 value and allow the orbit planner to adjust durations.</p>							
7	G140L/1280 (1) WD0308-565 (COS.sp.118 4038)	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH	328 Secs (328 Secs)	[==>]	[2]
<p>Comments: ETC buffer time is 451, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</p> <p>Cy 26 exposure time is 282 seconds, compared with Cy25 (COS.sp.1021719) time of 328 seconds, due to a shallower TDS.</p> <p>Use Cy25 value and allow the orbit planner to adjust durations.</p>							
8	DARK	S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs)	[==>]	[2]
<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>							

Proposal 15535 - WD0308 - Dec complete (51) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

9	G140L/1105 (1) WD0308-565 /FUV A (COS.sp.118 4043)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs)	[==>]	[2]
<p><i>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i></p> <p><i>Cy 26 exposure time is 283 seconds, compared with Cy25 (COS.sp.1021720) time of 327 seconds, due to a shallower TDS.</i></p> <p><i>Use Cy25 value and allow the orbit planner to adjust durations.</i></p>							
10	G130M/132 (1) WD0308-565 7/FUVA (COS.sp.118 4044)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (278 Secs)	[==>]	[2]
<p><i>Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS</i></p> <p><i>Cy 26 exposure time relative to Cy25 (COS.sp.1021693) not significant.</i></p> <p><i>Use Cy25 value and allow the orbit planner to adjust durations.</i></p>							



Proposal 15535 - GD71 - Dec complete (02) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

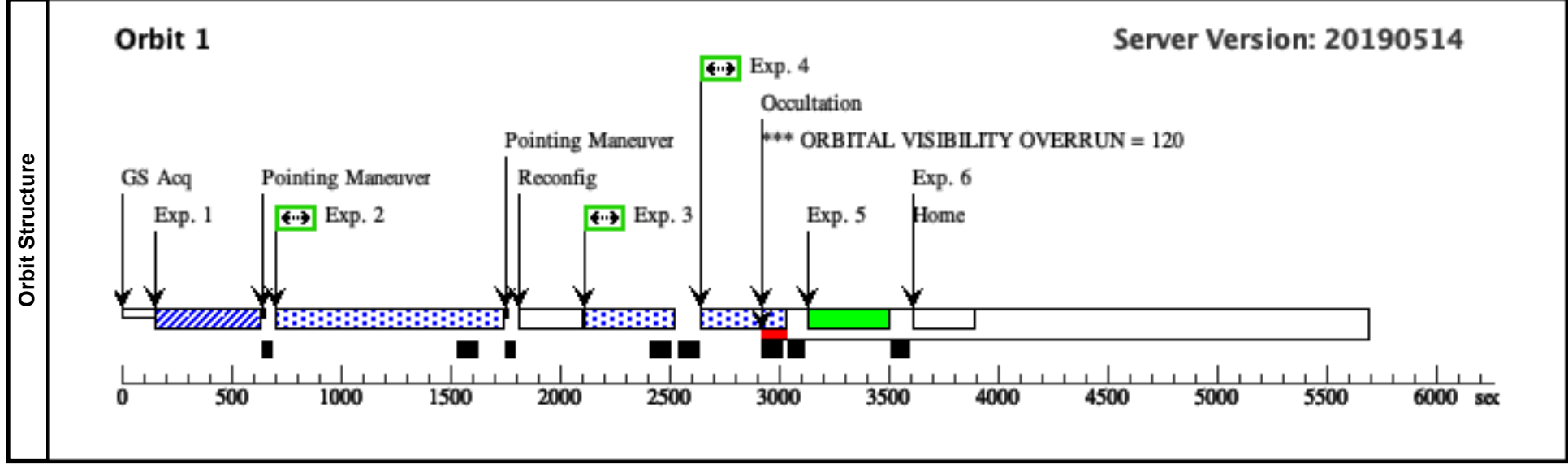
Wed Oct 30 13:01:00 GMT 2019

Visit	<p>Proposal 15535, GD71 - Dec complete (02), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 26-DEC-2018:00:00:00 AND 08-JAN-2019:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i></p> <p><i>George Chapman added Exposure 3</i></p> <p><i>Optimized the exposure time for the G130M/1096 setting to increase its SNR (exp time = 744 s) while remaining within the allocated time.</i></p>																	
	<p>(GD71 - Dec complete (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>																	
Diagnosics																		
Fixed Targets	<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>(2)</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>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	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	<p><i>Comments: Use sma RA, DEC amd PM as in proposal 12392 by Bohlin et al.</i></p> <p><i>Carried over from Cycle 25 proposal.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>				
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(2)	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 15535 - GD71 - Dec complete (02) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (COS.ta.839 574)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB			90 Secs (90 Secs) [==>]	[1]	
	<i>Comments: Exptime for S/N of 60 is 105.5 sec, using 90 sec leads to S/N of 55.</i>									
	2	G130M/109 6/FUVB/LP 2 (COS.sp.118 4046)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=64 4; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			744 Secs (836 Secs) [==>836.0 Secs]	[1]
	<i>Comments: FUVB only (all ETC warnings come from FUVA). Set buffer-time = exptime - 100 sec = 644 to maximize time on target. Cy 26 exposure time relative to Cy25, and Cy24 (COS.sp.839576) not significant. Use Cy25 value and allow the orbit planner to adjust durations.</i>									
	3	G160M/157 7/FUVA (COS.sp.118 4047)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=11 1; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			111 Secs (203 Secs) [==>203.0 Secs]	[1]
<i>Comments: FUVA only (all ETC warnings come from FUVB). Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime. 2.35e6 is the number of events that each buffer can record 6513 cts/sec is the count rate in FUVA, per ETC calculation above Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime Cy 26 exposure time relative to Cy25 (COS.sp.1021723) not significant. Use Cy25 value and allow the orbit planner to adjust durations.</i>										
4	G160M/162 3/FUVA (COS.sp.118 4049)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=16 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			162 Secs (254 Secs) [==>254.0 Secs]	[1]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime. 2.35e6 is the number of events that each buffer can record 6513 cts/sec is the count rate in FUVA, per ETC calculation above Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime Cy 26 exposure time relative to Cy25 (COS.sp.1021734) not significant. Use Cy25 value and allow the orbit planner to adjust durations.</i>										
5	G130M/109 6/FUVA W AVECAL/L P2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			140 Secs (140 Secs) [==>]	[1]	

6	DARK	S/C, DATA, NONE	QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs)	
				[==>]	[!]
Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.					



Proposal 15535 - WD0308-FEB-withDELTA (03) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Wed Oct 30 13:01:00 GMT 2019

Visit	<p>Proposal 15535, WD0308-FEB-withDELTA (03), failed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 18-FEB-2019:00:00:00 AND 27-FEB-2019:00:00:00</p> <p><i>Comments: New cenwaves G160M/1533/B and G140L/800/A have been added to the visit. All G160M observations are now with SEGMENT = B (i.e. segment A is turned off).</i></p>												
	Fixed Targets	<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>(1)</td> <td>WD0308-565</td> <td>RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000</td> <td>Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000</td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Coordinates carried over from Cycle 25 proposal Category=STAR Description=[DB] Extended=NO</i></p>	#	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
#	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								

Proposal 15535 - WD0308-FEB-withDELTA (03) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

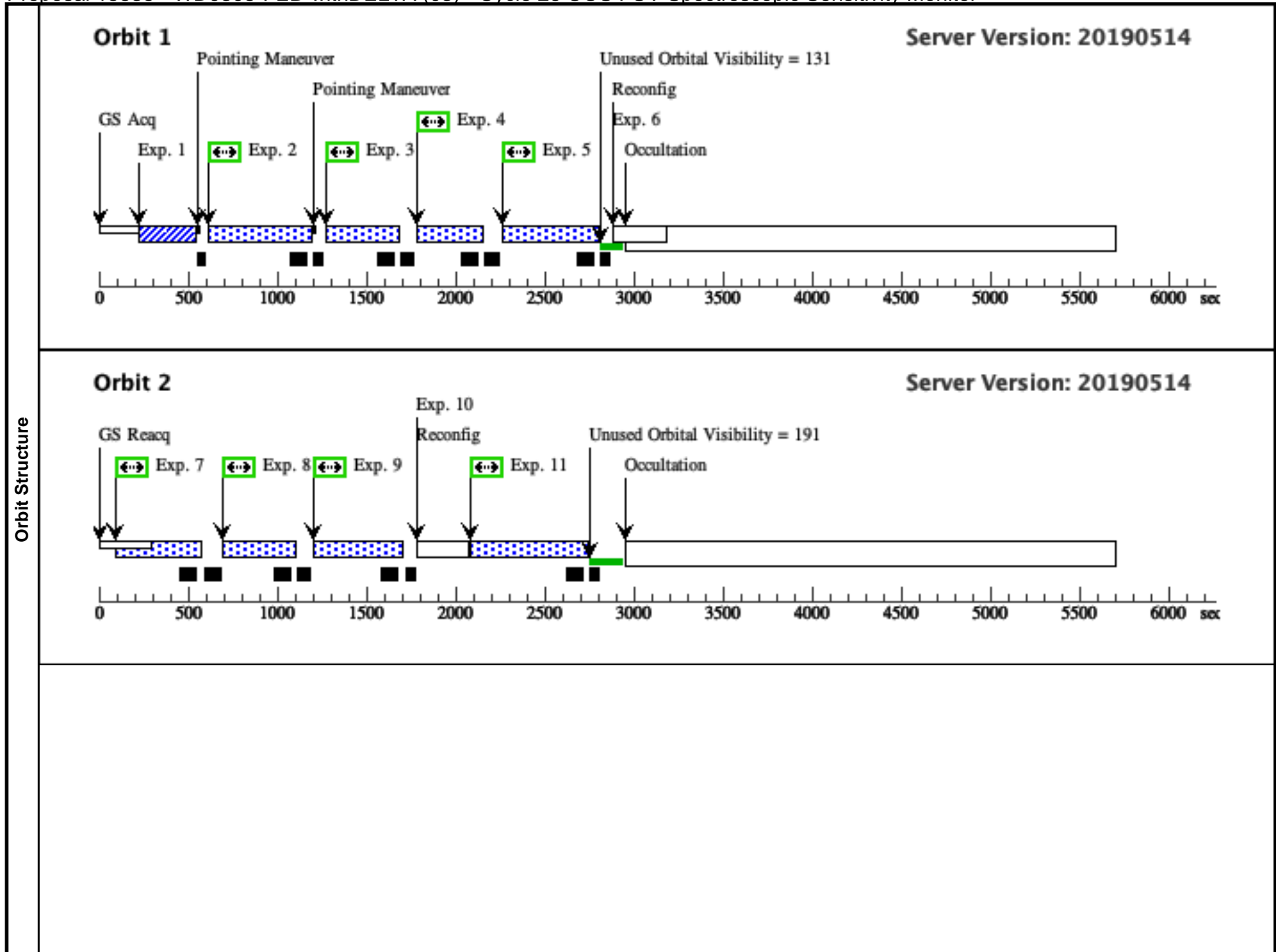
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
	2	G130M/105 5/LP2 (COS.sp.130 2752)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			363 Secs (363 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is larger than exptime (1482) Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 Continue use of 1 FP-POS</i>									
	3	G130M/122 2 (COS.sp.130 2754)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			254 Secs (254 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 Continue use of 1 FP-POS</i>									
4	G130M/129 1 (COS.sp.131 1908)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			233 Secs (233 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144 Continue use of 1 FP-POS</i>										
5	G140L/1280 (COS.sp.102 1719)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			328 Secs (328 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 451, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i>										
6	DARK		S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										

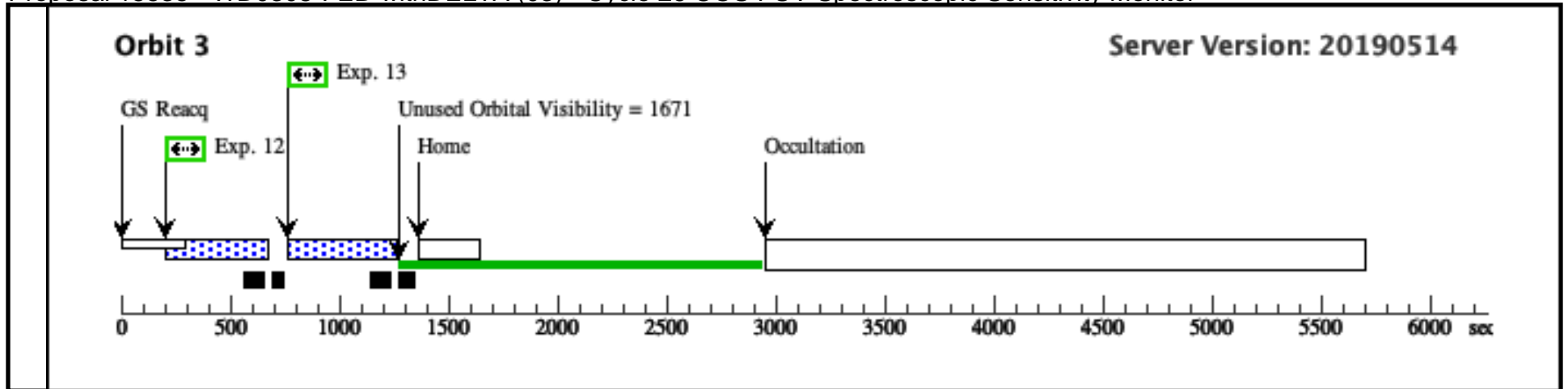
Proposal 15535 - WD0308-FEB-withDELTA (03) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/153 3/B (COS.sp.131 1897)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=12 2; LIFETIME-POS=L P4; SEGMENT=B	222 Secs (222 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 487, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>							
8	G160M/157 7/B (COS.sp.131 1899)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=17 3; LIFETIME-POS=L P4; SEGMENT=B	273 Secs (273 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 599, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>							
9	G160M/162 3/B (COS.sp.131 1901)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 9; LIFETIME-POS=L P4; SEGMENT=B	369 Secs (369 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 799, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 300 Continue use of 1 FP-POS</p>							
10	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>							
11	G140L/800/ FUVA (COS.sp.130 2815)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	363 Secs (363 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 263 Continue use of 1 FP-POS</p>							

Proposal 15535 - WD0308-FEB-withDELTA (03) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

12	G140L/1105 (1) WD0308-565 /FUVA (COS.sp.102 1720)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i></p>							
13	G130M/132 (1) WD0308-565 7/FUVA (COS.sp.102 1693)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (278 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS</i></p>							





Proposal 15535 - WD0308-FEB-withDELTA (53) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 15535, WD0308-FEB-withDELTA (53), completed Wed Oct 30 13:01:00 GMT 2019</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 18-FEB-2019:00:00:00 AND 23-APR-2019:00:00:00</p> <p><i>Comments: New cenwaves G160M/1533/B and G140L/800/A have been added to the visit. All G160M observations are now with SEGMENT = B (i.e. segment A is turned off).</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(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 carried over from Cycle 25 proposal Category=STAR Description=[DB] Extended=NO</i></p>						

Proposal 15535 - WD0308-FEB-withDELTA (53) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

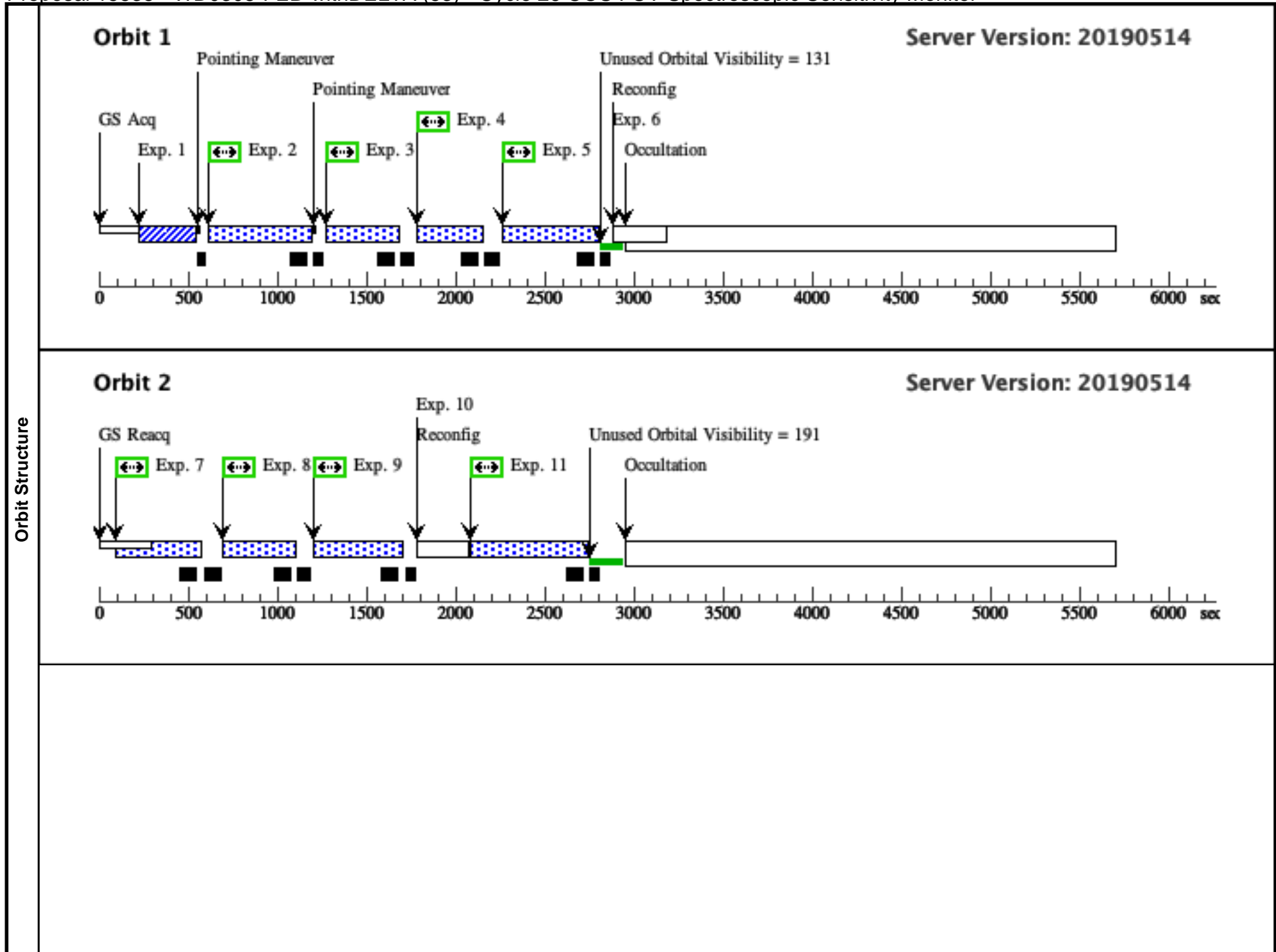
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
	2	G130M/105 5/LP2 (COS.sp.130 2752)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			363 Secs (363 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is larger than exptime (1482) Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 Continue use of 1 FP-POS</i>									
	3	G130M/122 2 (COS.sp.130 2754)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			254 Secs (254 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 Continue use of 1 FP-POS</i>									
4	G130M/129 1 (COS.sp.131 1908)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			233 Secs (233 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144 Continue use of 1 FP-POS</i>										
5	G140L/1280 (COS.sp.102 1719)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			328 Secs (328 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 451, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i>										
6	DARK		S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										

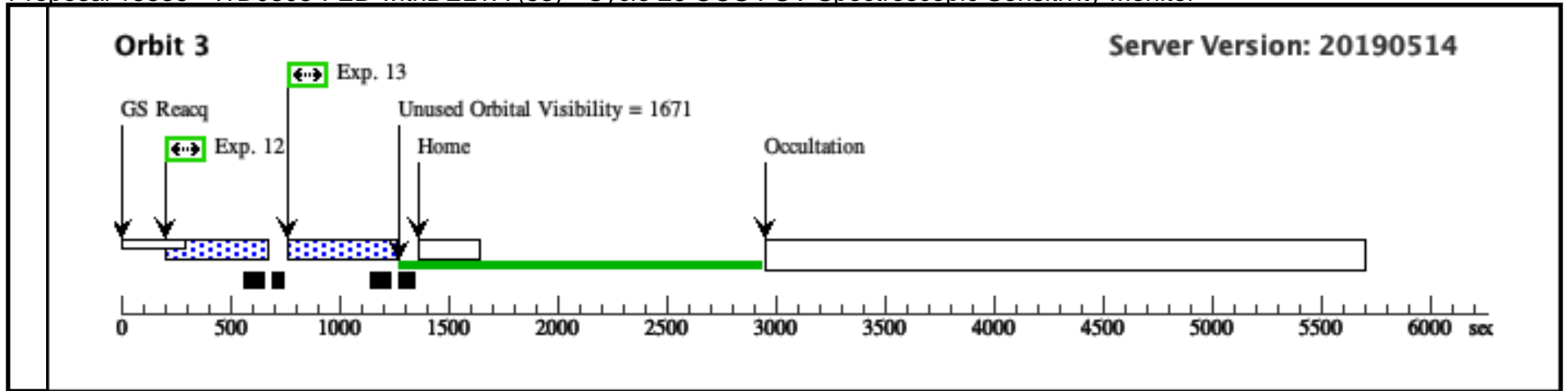
Proposal 15535 - WD0308-FEB-withDELTA (53) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/153 (1) WD0308-565 3/B (COS.sp.131 1897)	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=12 2; LIFETIME-POS=L P4; SEGMENT=B	222 Secs (222 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 487, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>						
8	G160M/157 (1) WD0308-565 7/B (COS.sp.131 1899)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=17 3; LIFETIME-POS=L P4; SEGMENT=B	273 Secs (273 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 599, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>						
9	G160M/162 (1) WD0308-565 3/B (COS.sp.131 1901)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 9; LIFETIME-POS=L P4; SEGMENT=B	369 Secs (369 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 799, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 300 Continue use of 1 FP-POS</p>						
10	DARK	S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>						
11	G140L/800/ (1) WD0308-565 FUVA (COS.sp.130 2815)	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	363 Secs (363 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 263 Continue use of 1 FP-POS</p>						

Proposal 15535 - WD0308-FEB-withDELTA (53) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

12	G140L/1105 (1) WD0308-565 /FUVA (COS.sp.102 1720)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i></p>							
13	G130M/132 (1) WD0308-565 7/FUVA (COS.sp.102 1693)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (278 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS</i></p>							





Proposal 15535 - GD71-FEB-withDELTA (04) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Wed Oct 30 13:01:00 GMT 2019

Visit	<p>Proposal 15535, GD71-FEB-withDELTA (04), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 18-FEB-2019:00:00:00 AND 27-FEB-2019:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i></p> <p><i>George Chapman added Exposure 3</i></p> <p><i>Optimized the exposure time for the G130M/1096 setting to increase its SNR (exp time = 744 s) while remaining within the allocated time.</i></p> <p><i>New cenwave G160M/1533/A has been added to this visit.</i></p>																	
	Fixed Targets	<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>(2)</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>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	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	<p><i>Comments: Use sma RA, DEC and PM as in proposal 12392 by Bohlin et al.</i></p> <p><i>Carried over from Cycle 25 proposal.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>			
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(2)	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 15535 - GD71-FEB-withDELTA (04) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

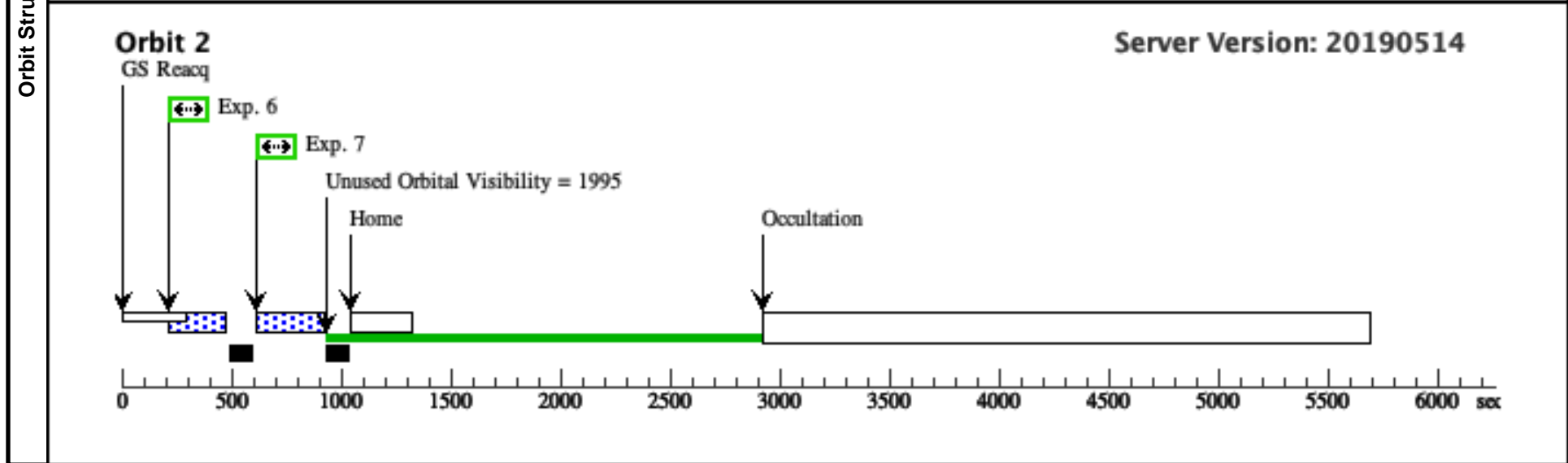
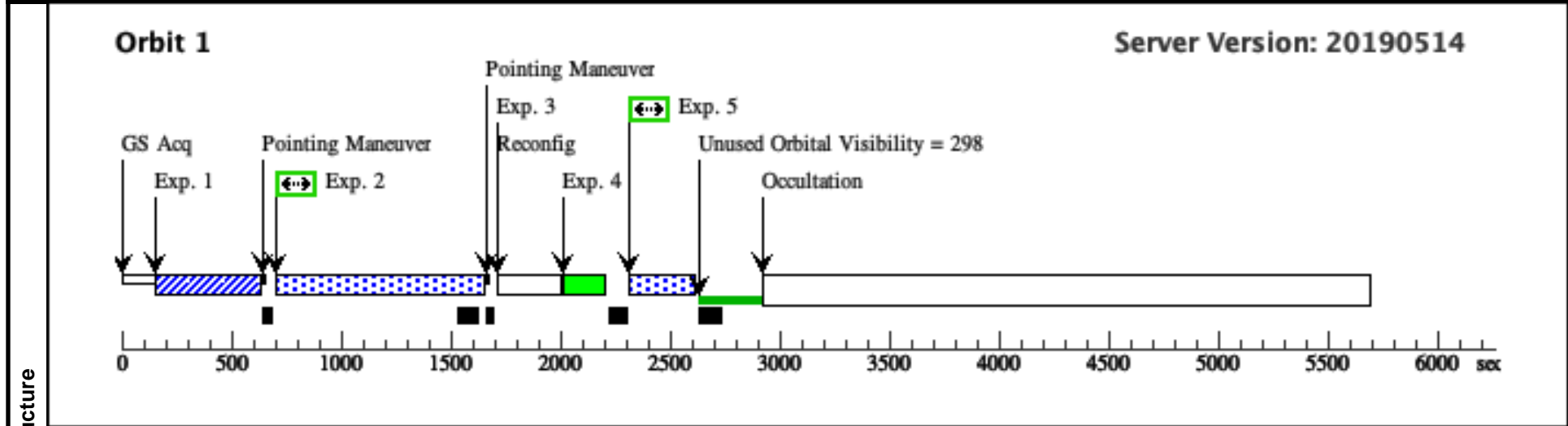
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (COS.ta.839 574)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB			90 Secs (90 Secs) [==>]	[1]	
	<i>Comments: Exptime for S/N of 60 is 105.5 sec, using 90 sec leads to S/N of 55.</i>									
	2	G130M/109 6/FUVB/LP 2 (COS.sp.839 576)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=64 4; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			744 Secs (744 Secs) [==>]	[1]
	<i>Comments: FUVB only (all ETC warnings come from FUVA). Set buffer-time = exptime - 100 sec = 644 to maximize time on target.</i>									
	3		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]
	<i>Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.</i>									
4	G130M/109 6/FUVA W AVECAL/L P2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			140 Secs (140 Secs) [==>]	[1]	
5	G160M/153 3/FUVA (COS.sp.131 1884)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			103 Secs (103 Secs) [==>]	[1]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime. 2.35e6 is the number of events that each buffer can record 6513 cts/sec is the count rate in FUVA, per ETC calculation above Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime</i>										
6	G160M/157 7/FUVA (COS.sp.131 1885)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			132 Secs (132 Secs) [==>]	[2]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime. 2.35e6 is the number of events that each buffer can record 6513 cts/sec is the count rate in FUVA, per ETC calculation above Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime</i>										

Proposal 15535 - GD71-FEB-withDELTA (04) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/162 (2) GD71 3/FUVA (COS.sp.131 1886)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	172 Secs (172 Secs) [==>]	[2]
---	--	------------------------	-----------------	---	------------------------------	-----

Comments: FUVA only (all ETC warnings come from FUVB).

Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime.
 $2.35e6$ is the number of events that each buffer can record
 6513 cts/sec is the count rate in FUVA, per ETC calculation above
 Set buffer-time = exptime b/c $exptime - 100 < 80$ which is the minimum exptime



Proposal 15535 - WD0308-APR-withDELTA (05) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 15535, WD0308-APR-withDELTA (05), completed Wed Oct 30 13:01:00 GMT 2019</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-APR-2019:00:00:00 AND 23-APR-2019:00:00:00</p> <p><i>Comments: New cenwaves G160M/1533/B and G140L/800/A have been added to the visit. All G160M observations are now with SEGMENT = B (i.e. segment A is turned off).</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(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 carried over from Cycle 25 proposal Category=STAR Description=[DB] Extended=NO</i></p>						

Proposal 15535 - WD0308-APR-withDELTA (05) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

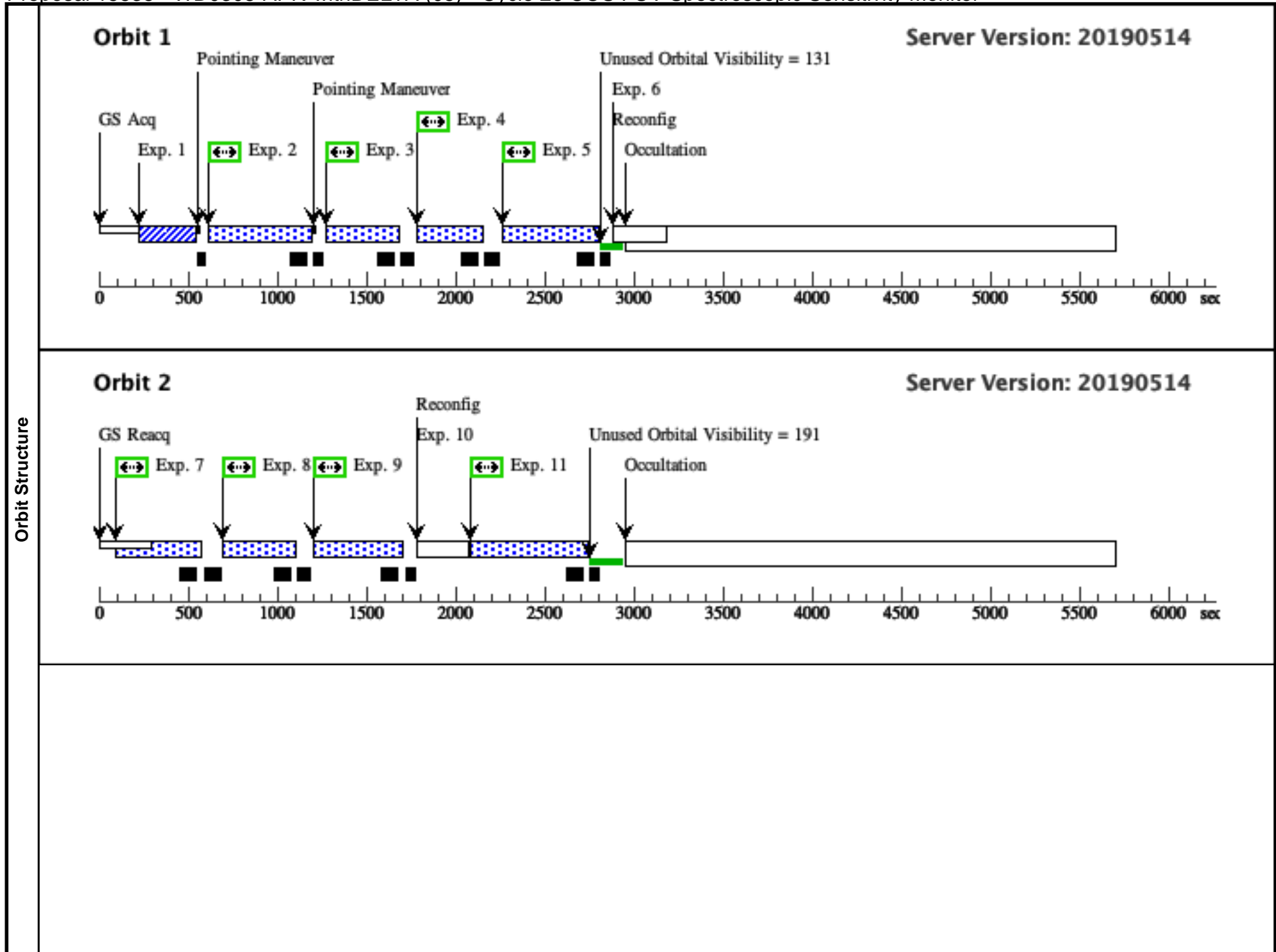
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
	2	G130M/105 5/LP2 (COS.sp.130 2752)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			363 Secs (363 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is larger than exptime (1482) Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 Continue use of 1 FP-POS</i>									
	3	G130M/122 2 (COS.sp.130 2754)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			254 Secs (254 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 Continue use of 1 FP-POS</i>									
4	G130M/129 1 (COS.sp.131 1908)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			233 Secs (233 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144 Continue use of 1 FP-POS</i>										
5	G140L/1280 (COS.sp.102 1719)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			328 Secs (328 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 451, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i>										
6	DARK		S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										

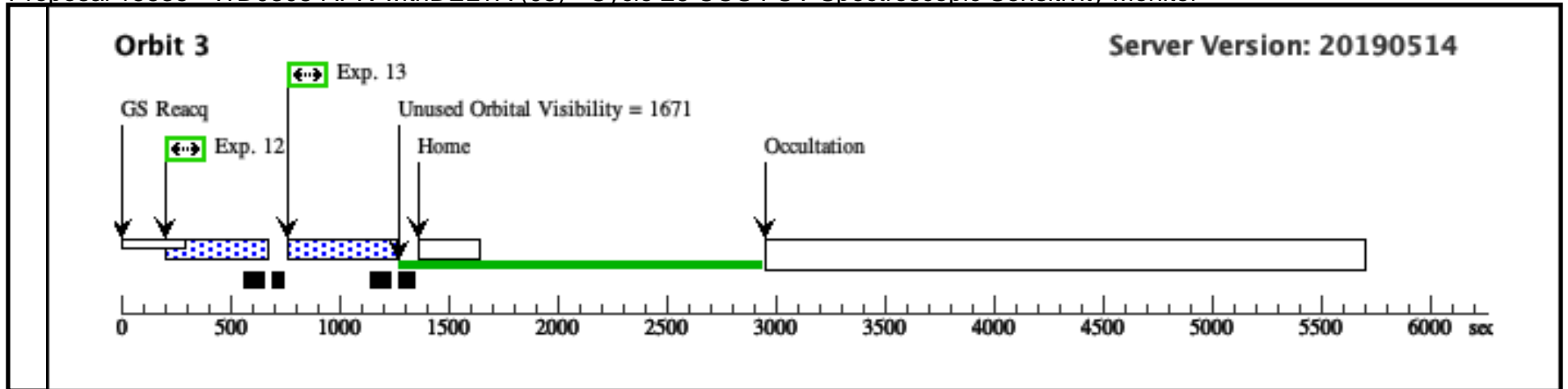
Proposal 15535 - WD0308-APR-withDELTA (05) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/153 3/B (COS.sp.131 1897)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=12 2; LIFETIME-POS=L P4; SEGMENT=B	222 Secs (222 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 487, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>							
8	G160M/157 7/B (COS.sp.131 1899)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=17 3; LIFETIME-POS=L P4; SEGMENT=B	273 Secs (273 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 599, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>							
9	G160M/162 3/B (COS.sp.131 1901)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 9; LIFETIME-POS=L P4; SEGMENT=B	369 Secs (369 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 799, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 300 Continue use of 1 FP-POS</p>							
10	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>							
11	G140L/800/ FUVA (COS.sp.130 2815)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	363 Secs (363 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 263 Continue use of 1 FP-POS</p>							

Proposal 15535 - WD0308-APR-withDELTA (05) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

12	G140L/1105 (1) WD0308-565 /FUVA (COS.sp.102 1720)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i></p>							
13	G130M/132 (1) WD0308-565 7/FUVA (COS.sp.102 1693)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (278 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS</i></p>							





Proposal 15535 - GD71-APR-withDELTA (06) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Wed Oct 30 13:01:01 GMT 2019

Visit	<p>Proposal 15535, GD71-APR-withDELTA (06), failed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-APR-2019:00:00:00 AND 23-APR-2019:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i></p> <p><i>George Chapman added Exposure 3</i></p> <p><i>Optimized the exposure time for the G130M/1096 setting to increase its SNR (exp time = 744 s) while remaining within the allocated time.</i></p> <p><i>New cenwave G160M/1533/A has been added to this visit.</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(2)		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
<p><i>Comments: Use sma RA, DEC and PM as in proposal 12392 by Bohlin et al.</i></p> <p><i>Carried over from Cycle 25 proposal.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>						

Proposal 15535 - GD71-APR-withDELTA (06) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

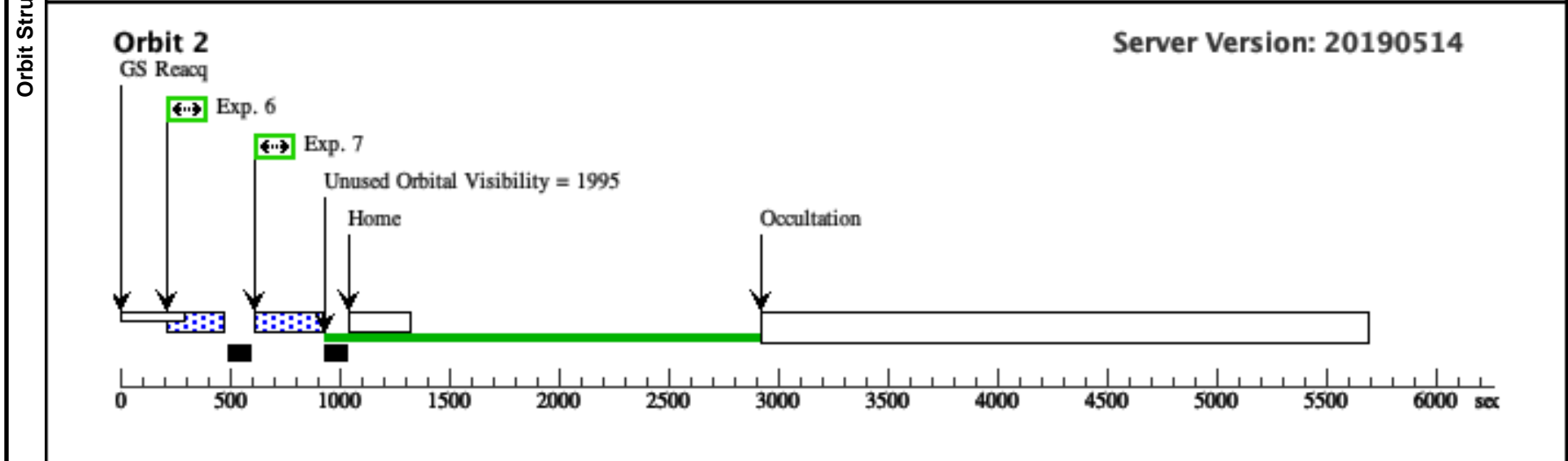
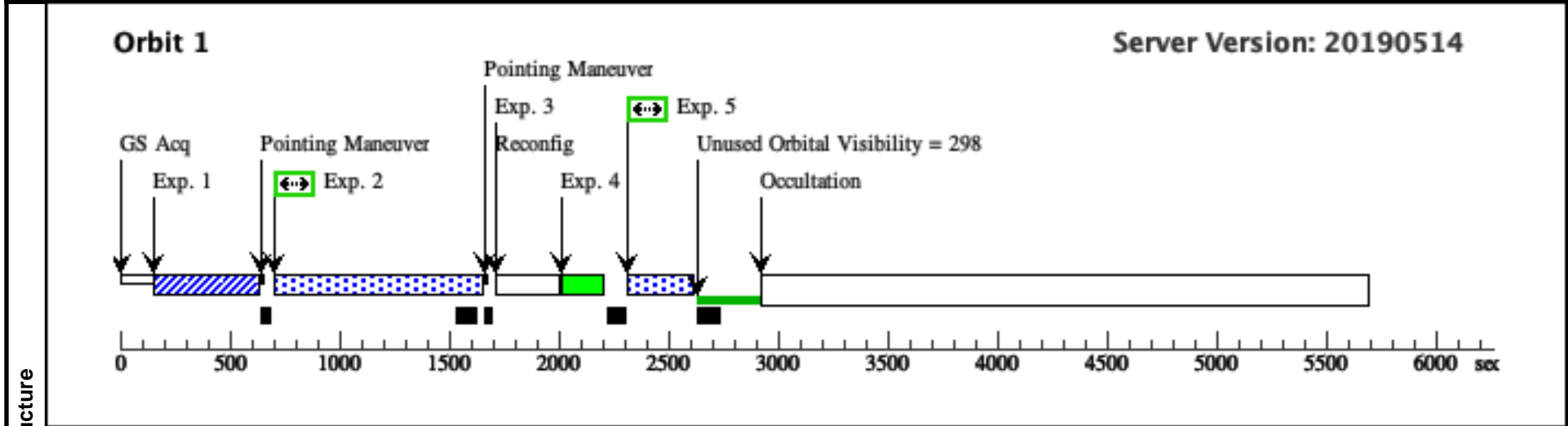
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (2) GD71 (COS.ta.839 574)	COS/NUV, ACQ/IMAGE, BOA	MIRRORB				90 Secs (90 Secs) [==>]	[1]	
	<i>Comments: Exptime for S/N of 60 is 105.5 sec, using 90 sec leads to S/N of 55.</i>									
	2	G130M/109 (2) GD71 6/FUVB/LP 2 (COS.sp.839 576)	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=64 4; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			744 Secs (744 Secs) [==>]	[1]	
	<i>Comments: FUVB only (all ETC warnings come from FUVA). Set buffer-time = exptime - 100 sec = 644 to maximize time on target.</i>									
	3	DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
	<i>Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.</i>									
4	G130M/109 WAVE 6/FUVA W AVECAL/L P2	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			140 Secs (140 Secs) [==>]	[1]		
5	G160M/153 (2) GD71 3/FUVA (COS.sp.131 1884)	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			103 Secs (103 Secs) [==>]	[1]		
<i>Comments: FUVA only (all ETC warnings come from FUVB). Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime. 2.35e6 is the number of events that each buffer can record 6513 cts/sec is the count rate in FUVA, per ETC calculation above Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime</i>										
6	G160M/157 (2) GD71 7/FUVA (COS.sp.131 1885)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			132 Secs (132 Secs) [==>]	[2]		
<i>Comments: FUVA only (all ETC warnings come from FUVB). Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime. 2.35e6 is the number of events that each buffer can record 6513 cts/sec is the count rate in FUVA, per ETC calculation above Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime</i>										

Proposal 15535 - GD71-APR-withDELTA (06) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/162 (2) GD71 3/FUVA (COS.sp.131 1886)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	172 Secs (172 Secs) [==>]	[2]
---	--	------------------------	-----------------	---	------------------------------	-----

Comments: FUVA only (all ETC warnings come from FUVB).

Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime.
 $2.35e6$ is the number of events that each buffer can record
 6513 cts/sec is the count rate in FUVA, per ETC calculation above
 Set buffer-time = exptime b/c $exptime - 100 < 80$ which is the minimum exptime



Proposal 15535 - GD71-APR-withDELTA (56) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Wed Oct 30 13:01:01 GMT 2019

Visit	<p>Proposal 15535, GD71-APR-withDELTA (56), withdrawn</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i></p> <p><i>George Chapman added Exposure 3</i></p> <p><i>Optimized the exposure time for the G130M/1096 setting to increase its SNR (exp time = 744 s) while remaining within the allocated time.</i></p> <p><i>New cenwave G160M/1533/A has been added to this visit.</i></p>																	
	Fixed Targets	<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>(2)</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> <p><i>Carried over from Cycle 25 proposal.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>						#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	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
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(2)	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 15535 - GD71-APR-withDELTA (56) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (COS.ta.839 574)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB			90 Secs (90 Secs) [==>]	[1]	
	<i>Comments: Exptime for S/N of 60 is 105.5 sec, using 90 sec leads to S/N of 55.</i>									
	2	G130M/109 6/FUVB/LP 2 (COS.sp.839 576)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=64 4; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			744 Secs (744 Secs) [==>]	[1]
	<i>Comments: FUVB only (all ETC warnings come from FUVA). Set buffer-time = exptime - 100 sec = 644 to maximize time on target.</i>									
	3		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]
	<i>Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.</i>									
4	G130M/109 6/FUVA W AVECAL/L P2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			140 Secs (140 Secs) [==>]	[1]	
5	G160M/153 3/FUVA (COS.sp.131 1884)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			103 Secs (103 Secs) [==>]	[1]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime. 2.35e6 is the number of events that each buffer can record 6513 cts/sec is the count rate in FUVA, per ETC calculation above Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime</i>										
6	G160M/157 7/FUVA (COS.sp.131 1885)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			132 Secs (132 Secs) [==>]	[2]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime. 2.35e6 is the number of events that each buffer can record 6513 cts/sec is the count rate in FUVA, per ETC calculation above Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime</i>										

Proposal 15535 - GD71-APR-withDELTA (56) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

7 G160M/162 (2) GD71 COS/FUV, TIME-TAG, PSA G160M BUFFER-TIME=17
 3/FUVA 1623 A 2;
 (COS.sp.131 FP-POS=3;
 1886) SEGMENT=A;
 LIFETIME-POS=L
 P4

172 Secs (172 Secs)

[==>]

[2]

Comments: FUVA only (all ETC warnings come from FUVB).

Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime.

2.35e6 is the number of events that each buffer can record

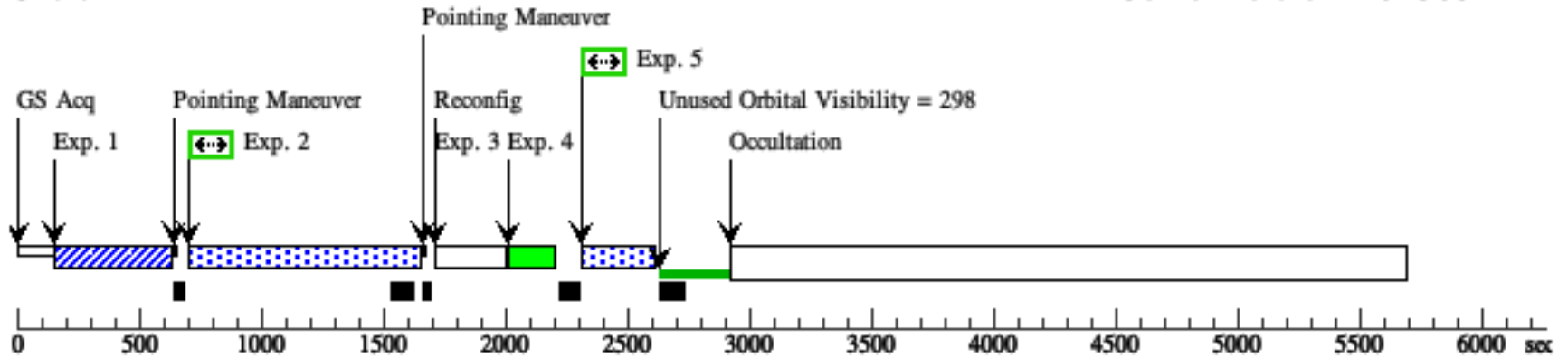
6513 cts/sec is the count rate in FUVA, per ETC calculation above

Set buffer-time = exptime b/c $exptime - 100 < 80$ which is the minimum exptime

Orbit Structure

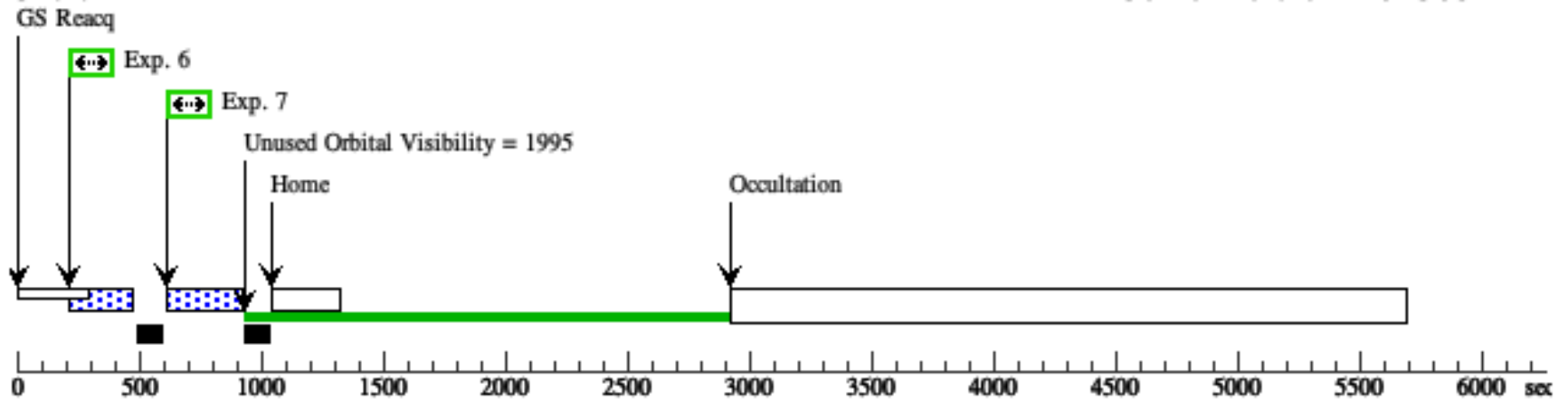
Orbit 1

Server Version: 20190514



Orbit 2

Server Version: 20190514



Proposal 15535 - WD0308-JUN-withDELTA (07) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Wed Oct 30 13:01:01 GMT 2019

Visit	<p>Proposal 15535, WD0308-JUN-withDELTA (07), failed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 05-JUN-2019:00:00:00 AND 18-JUN-2019:00:00:00</p> <p><i>Comments: New cenwaves G160M/1533/B and G140L/800/A have been added to the visit. All G160M observations for the June observations, visit 07, are now with SEGMENT = BOTH.</i></p>												
	Fixed Targets	<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>(1)</td> <td>WD0308-565</td> <td>RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000</td> <td>Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000</td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Coordinates carried over from Cycle 25 proposal Category=STAR Description=[DB] Extended=NO</i></p>	#	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
#	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								

Proposal 15535 - WD0308-JUN-withDELTA (07) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

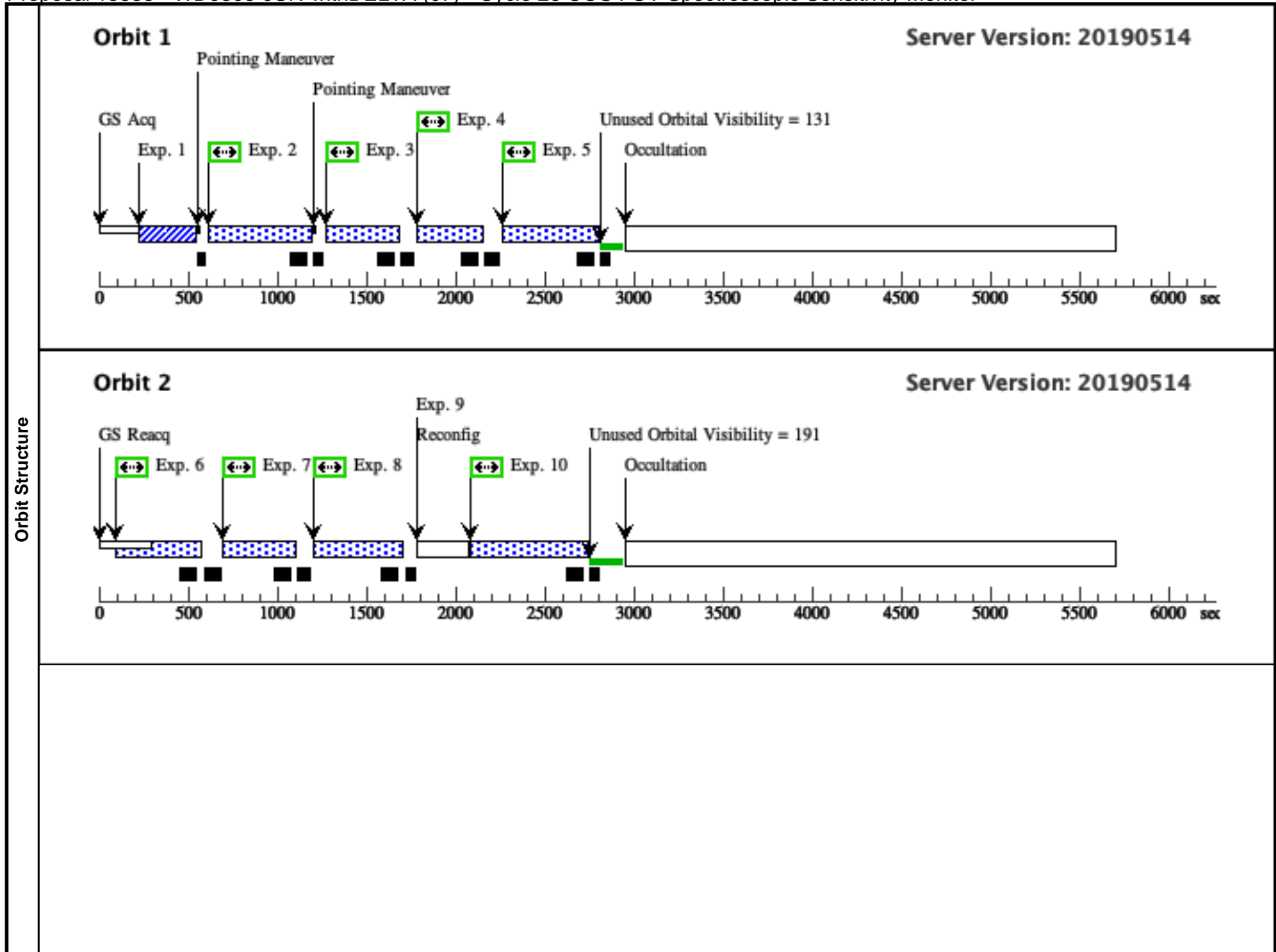
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA					45 Secs (45 Secs)	
									[==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>										
	2	G130M/105 5/LP2 (COS.sp.130 2752)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2				363 Secs (363 Secs)	
									[==>]	[1]	
	<i>Comments: ETC buffer time is larger than exptime (1482) Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 Continue use of 1 FP-POS</i>										
	3	G130M/122 2 (COS.sp.130 2754)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH				254 Secs (254 Secs)	
									[==>]	[1]	
	<i>Comments: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 Continue use of 1 FP-POS</i>										
4	G130M/129 1 (COS.sp.131 1908)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH				233 Secs (233 Secs)		
								[==>]	[1]		
<i>Comments: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144 Continue use of 1 FP-POS</i>											
5	G140L/1280 (COS.sp.102 1719)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH				328 Secs (328 Secs)		
								[==>]	[1]		
<i>Comments: ETC buffer time is 451, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i>											

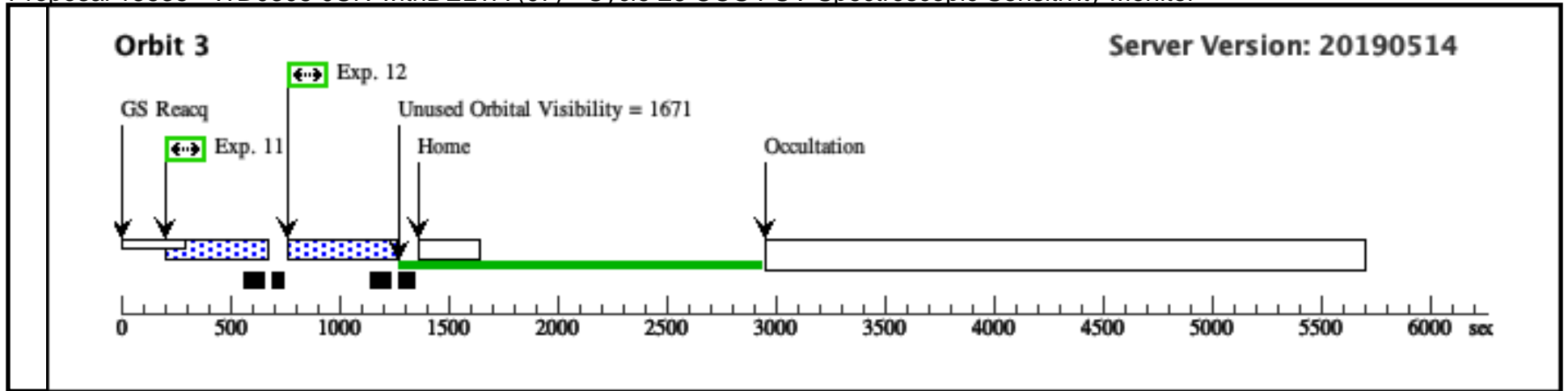
Proposal 15535 - WD0308-JUN-withDELTA (07) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

6	G160M/153 3/BOTH (COS.sp.131 1897)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=12 2; LIFETIME-POS=L P4; SEGMENT=BOTH	222 Secs (222 Secs) [==>]	[2]
<p><i>Comments: ETC buffer time is 487, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</i></p> <p><i>Continue use of 1 FP-POS</i></p>							
7	G160M/157 7/BOTH (COS.sp.131 1899)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=17 3; LIFETIME-POS=L P4; SEGMENT=BOTH	273 Secs (273 Secs) [==>]	[2]
<p><i>Comments: ETC buffer time is 599, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</i></p> <p><i>Continue use of 1 FP-POS</i></p>							
8	G160M/162 3/BOTH (COS.sp.131 1901)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 9; LIFETIME-POS=L P4; SEGMENT=BOTH	369 Secs (369 Secs) [==>]	[2]
<p><i>Comments: ETC buffer time is 799, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 300 Continue use of 1 FP-POS</i></p>							
9	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<p><i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i></p>							
10	G140L/800/ FUVA (COS.sp.130 2815)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	363 Secs (363 Secs) [==>]	[2]
<p><i>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 263 Continue use of 1 FP-POS</i></p>							

Proposal 15535 - WD0308-JUN-withDELTA (07) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

11	G140L/1105 (1) WD0308-565 /FUVA (COS.sp.102 1720)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i></p>							
12	G130M/132 (1) WD0308-565 7/FUVA (COS.sp.102 1693)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (278 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS</i></p>							





Proposal 15535 - WD0308-JUN-withDELTA (57) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 15535, WD0308-JUN-withDELTA (57), completed Wed Oct 30 13:01:01 GMT 2019</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%</p> <p><i>Comments: New cenwaves G160M/1533/B and G140L/800/A have been added to the visit. All G160M observations for the June observations, visit 07, are now with SEGMENT = BOTH.</i></p>												
	Fixed Targets	<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>(1)</td> <td>WD0308-565</td> <td>RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000</td> <td>Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000</td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Coordinates carried over from Cycle 25 proposal Category=STAR Description=[DB] Extended=NO</i></p>	#	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
#	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								

Proposal 15535 - WD0308-JUN-withDELTA (57) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

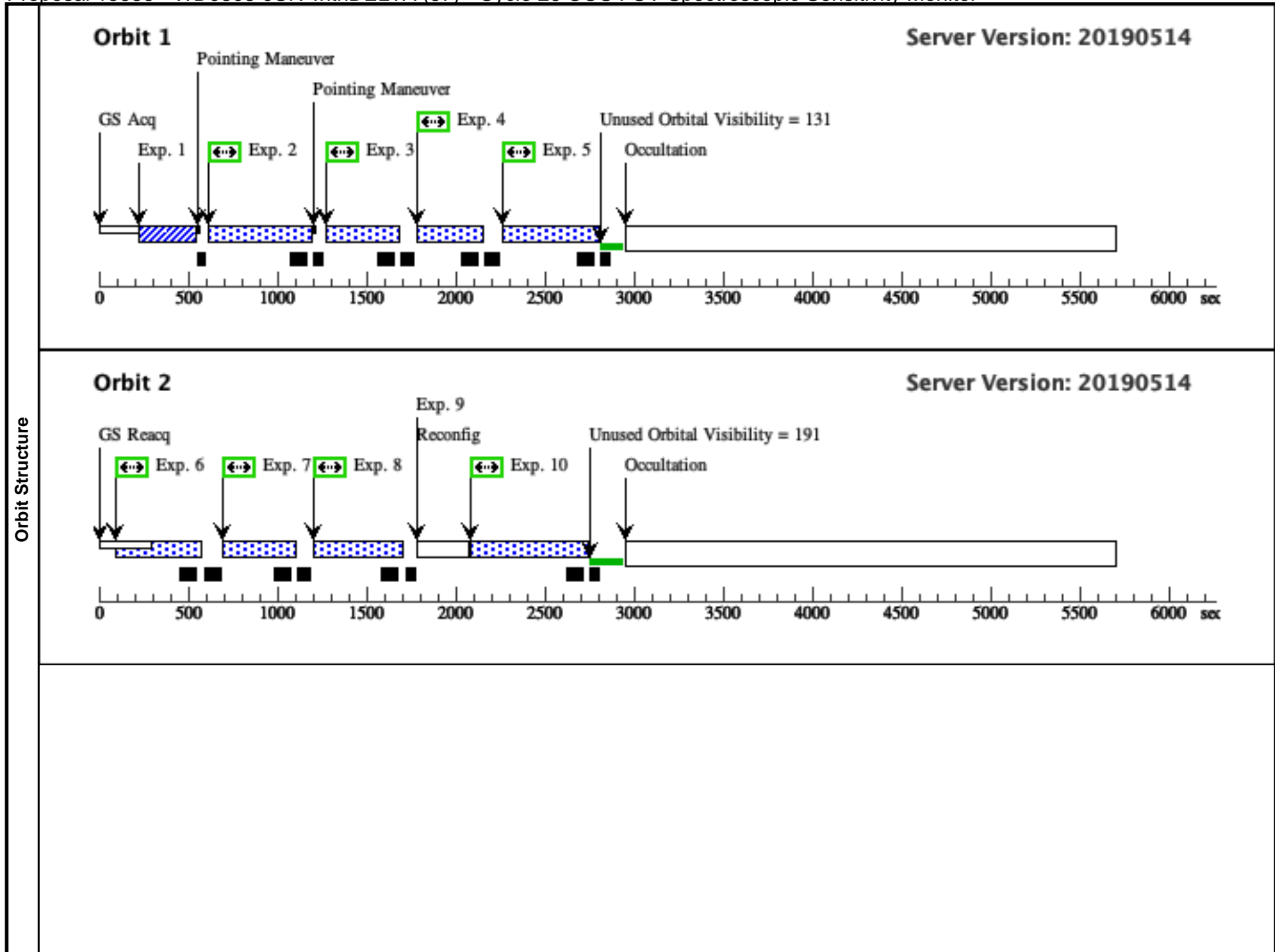
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
	2	G130M/105 5/LP2 (COS.sp.130 2752)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			363 Secs (363 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is larger than exptime (1482) Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 Continue use of 1 FP-POS</i>									
	3	G130M/122 2 (COS.sp.130 2754)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			254 Secs (254 Secs) [==>]	[1]
<i>Comments: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 Continue use of 1 FP-POS</i>										
4	G130M/129 1 (COS.sp.131 1908)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			233 Secs (233 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144 Continue use of 1 FP-POS</i>										
5	G140L/1280 (COS.sp.102 1719)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			328 Secs (328 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 451, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i>										

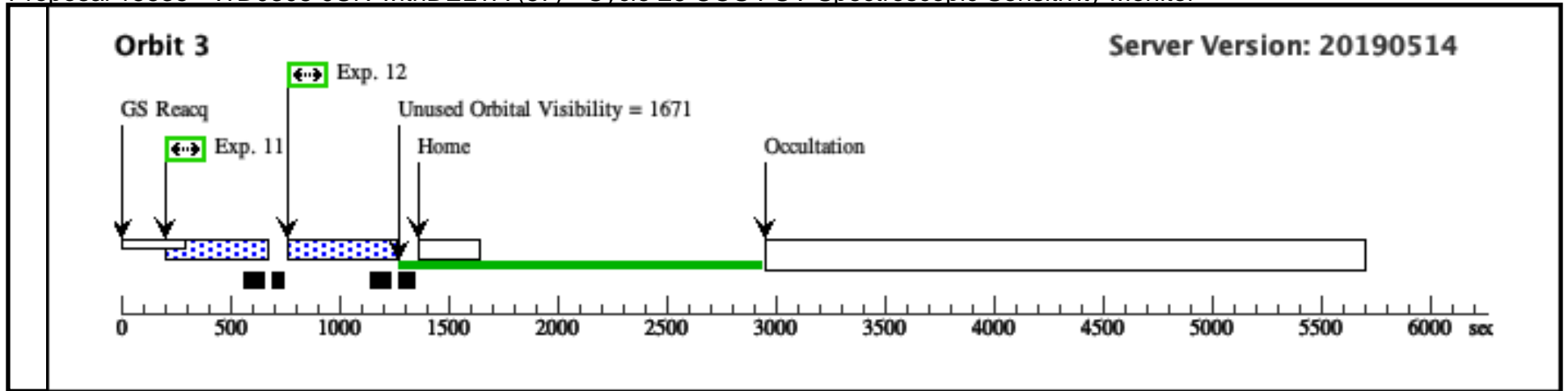
Proposal 15535 - WD0308-JUN-withDELTA (57) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

6	G160M/153 3/BOTH (COS.sp.131 1897)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=12 2; LIFETIME-POS=L P4; SEGMENT=BOTH	222 Secs (222 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 487, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>							
7	G160M/157 7/BOTH (COS.sp.131 1899)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=17 3; LIFETIME-POS=L P4; SEGMENT=BOTH	273 Secs (273 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 599, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>							
8	G160M/162 3/BOTH (COS.sp.131 1901)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 9; LIFETIME-POS=L P4; SEGMENT=BOTH	369 Secs (369 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 799, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 300 Continue use of 1 FP-POS</p>							
9	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>							
10	G140L/800/ FUVA (COS.sp.130 2815)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	363 Secs (363 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 263 Continue use of 1 FP-POS</p>							

Proposal 15535 - WD0308-JUN-withDELTA (57) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

11	G140L/1105 (1) WD0308-565 /FUVA (COS.sp.102 1720)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i></p>							
12	G130M/132 (1) WD0308-565 7/FUVA (COS.sp.102 1693)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (278 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS</i></p>							





Proposal 15535 - WD0308-AUG-withDELTA (08) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 15535, WD0308-AUG-withDELTA (08), completed Wed Oct 30 13:01:01 GMT 2019</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 04-AUG-2019:00:00:00 AND 17-AUG-2019:00:00:00</p> <p><i>Comments: New cenwaves G160M/1533/B and G140L/800/A have been added to the visit. All G160M observations are now with SEGMENT = B (i.e. segment A is turned off).</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(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 carried over from Cycle 25 proposal</i></p> <p>Category=STAR</p> <p>Description=[DB]</p> <p>Extended=NO</p>					

Proposal 15535 - WD0308-AUG-withDELTA (08) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

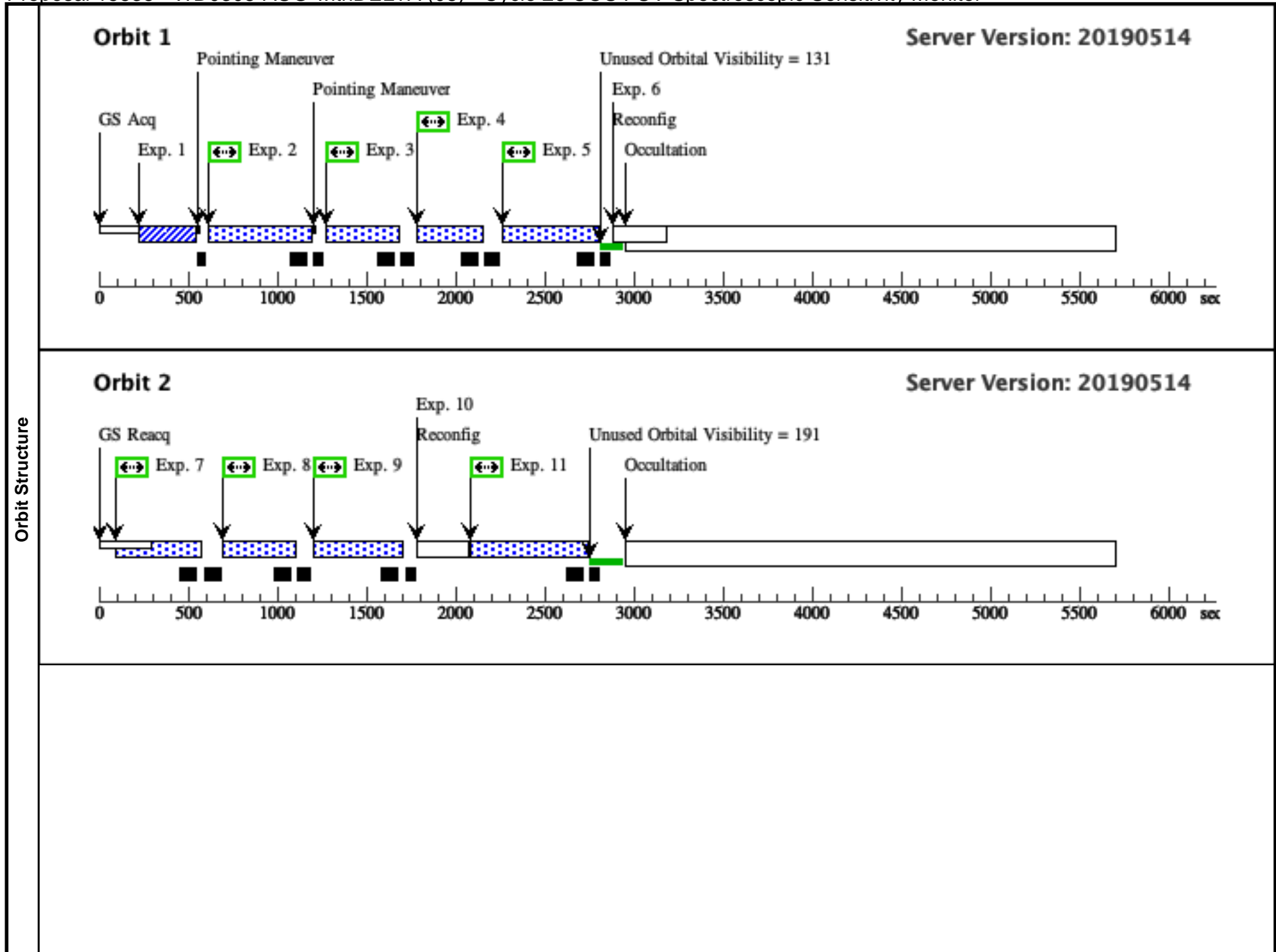
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
	2	G130M/105 5/LP2 (COS.sp.130 2752)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			363 Secs (363 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is larger than exptime (1482) Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 Continue use of 1 FP-POS</i>									
	3	G130M/122 2 (COS.sp.130 2754)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			254 Secs (254 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 Continue use of 1 FP-POS</i>									
4	G130M/129 1 (COS.sp.131 1908)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			233 Secs (233 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144 Continue use of 1 FP-POS</i>										
5	G140L/1280 (COS.sp.102 1719)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			328 Secs (328 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 451, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i>										
6	DARK		S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										

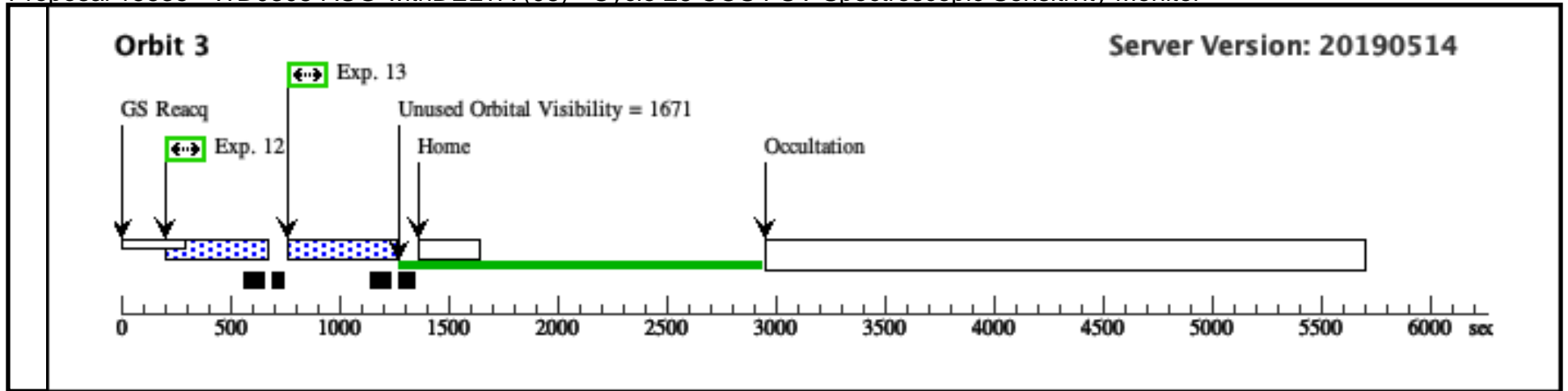
Proposal 15535 - WD0308-AUG-withDELTA (08) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/153 3/B (COS.sp.131 1897)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=12 2; LIFETIME-POS=L P4; SEGMENT=B	222 Secs (222 Secs) [==>]	[2]
<p><i>Comments: ETC buffer time is 487, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</i></p> <p><i>Continue use of 1 FP-POS</i></p>							
8	G160M/157 7/B (COS.sp.131 1899)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=17 3; LIFETIME-POS=L P4; SEGMENT=B	273 Secs (273 Secs) [==>]	[2]
<p><i>Comments: ETC buffer time is 599, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</i></p> <p><i>Continue use of 1 FP-POS</i></p>							
9	G160M/162 3/B (COS.sp.131 1901)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 9; LIFETIME-POS=L P4; SEGMENT=B	369 Secs (369 Secs) [==>]	[2]
<p><i>Comments: ETC buffer time is 799, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 300 Continue use of 1 FP-POS</i></p>							
10	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<p><i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i></p>							
11	G140L/800/ FUVA (COS.sp.130 2815)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	363 Secs (363 Secs) [==>]	[2]
<p><i>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 263 Continue use of 1 FP-POS</i></p>							

Proposal 15535 - WD0308-AUG-withDELTA (08) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

12	G140L/1105 (1) WD0308-565 /FUVA (COS.sp.102 1720)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i></p>							
13	G130M/132 (1) WD0308-565 7/FUVA (COS.sp.102 1693)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (278 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS</i></p>							





Proposal 15535 - WD0308-AUG-withDELTA (58) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 15535, WD0308-AUG-withDELTA (58), completed Wed Oct 30 13:01:01 GMT 2019</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 19-AUG-2019 AND 08-SEP-2019</p> <p><i>Comments: New cenwaves G160M/1533/B and G140L/800/A have been added to the visit. All G160M observations are now with SEGMENT = B (i.e. segment A is turned off).</i></p>												
	Fixed Targets	<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>(1)</td> <td>WD0308-565</td> <td>RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000</td> <td>Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000</td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: Coordinates carried over from Cycle 25 proposal Category=STAR Description=[DB] Extended=NO</i></p>	#	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
#	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								

Proposal 15535 - WD0308-AUG-withDELTA (58) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

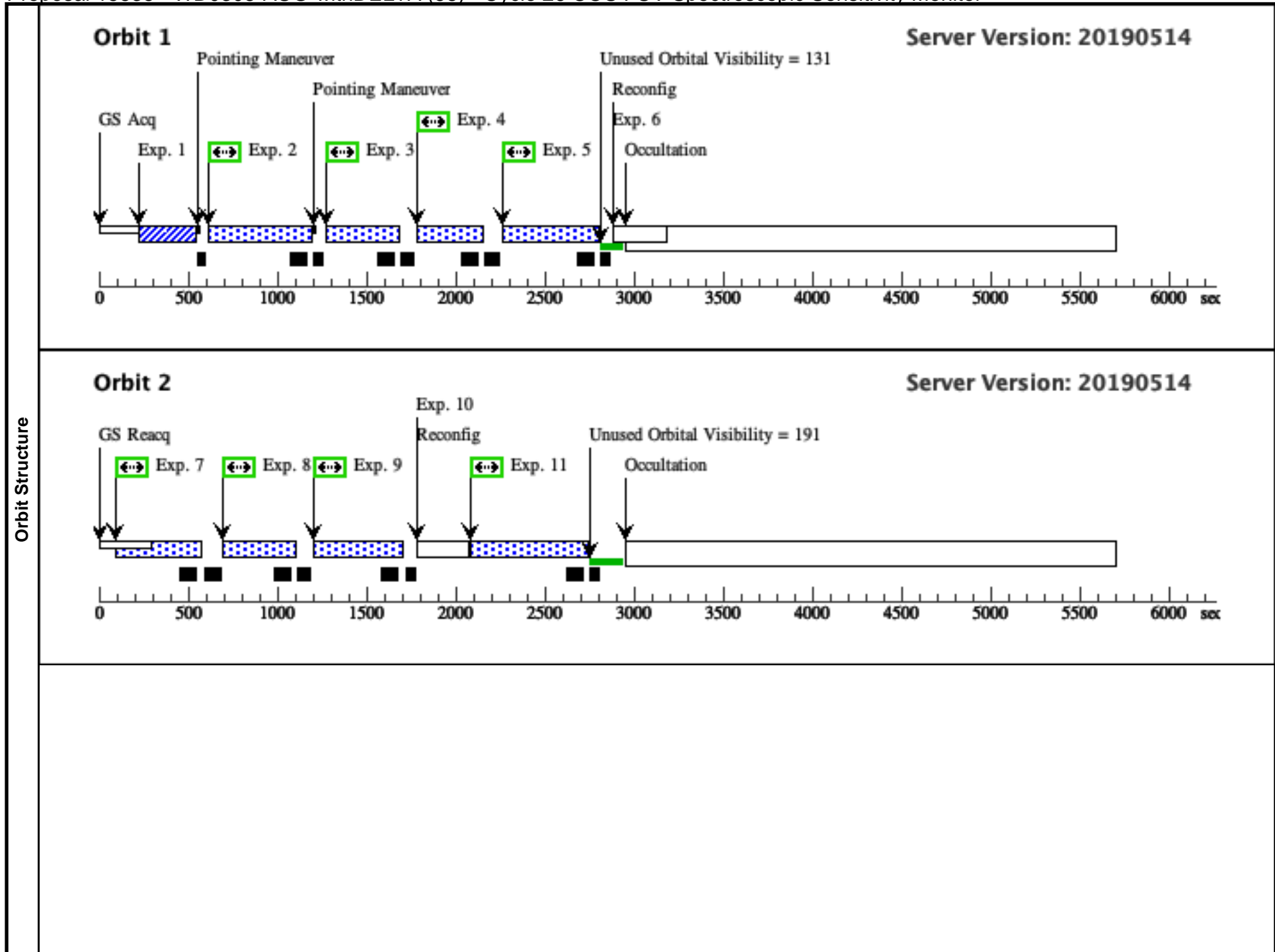
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
	2	G130M/105 5/LP2 (COS.sp.130 2752)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			363 Secs (363 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is larger than exptime (1482) Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 Continue use of 1 FP-POS</i>									
	3	G130M/122 2 (COS.sp.130 2754)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			254 Secs (254 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 Continue use of 1 FP-POS</i>									
4	G130M/129 1 (COS.sp.131 1908)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			233 Secs (233 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144 Continue use of 1 FP-POS</i>										
5	G140L/1280 (COS.sp.102 1719)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			328 Secs (328 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 451, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i>										
6	DARK		S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										

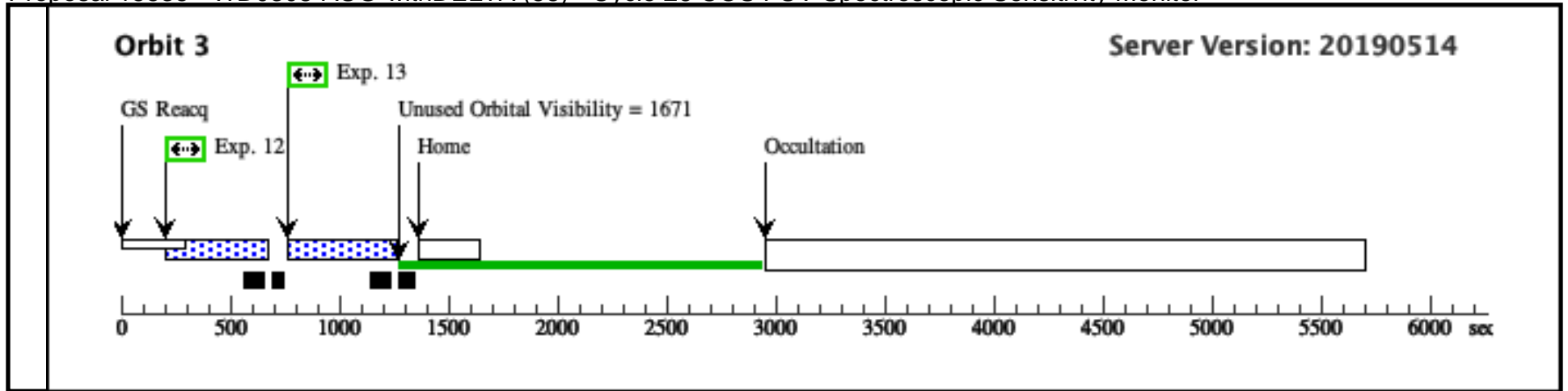
Proposal 15535 - WD0308-AUG-withDELTA (58) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/153 3/B (COS.sp.131 1897)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=12 2; LIFETIME-POS=L P4; SEGMENT=B	222 Secs (222 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 487, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>							
8	G160M/157 7/B (COS.sp.131 1899)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=17 3; LIFETIME-POS=L P4; SEGMENT=B	273 Secs (273 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 599, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>							
9	G160M/162 3/B (COS.sp.131 1901)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 9; LIFETIME-POS=L P4; SEGMENT=B	369 Secs (369 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 799, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 300 Continue use of 1 FP-POS</p>							
10	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>							
11	G140L/800/ FUVA (COS.sp.130 2815)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	363 Secs (363 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 263 Continue use of 1 FP-POS</p>							

Proposal 15535 - WD0308-AUG-withDELTA (58) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

12	G140L/1105 (1) WD0308-565 /FUV A (COS.sp.102 1720)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i></p>							
13	G130M/132 (1) WD0308-565 7/FUVA (COS.sp.102 1693)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (278 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS</i></p>							





Proposal 15535 - GD71-AUG-withDELTA (09) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 15535, GD71-AUG-withDELTA (09), completed Wed Oct 30 13:01:01 GMT 2019</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 14-AUG-2019:00:00:00 AND 27-AUG-2019:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i> <i>George Chapman added Exposure 3</i> <i>Optimized the exposure time for the G130M/1096 setting to increase its SNR (exp time = 744 s) while remaining within the allocated time.</i></p> <p><i>New cenwave G160M/1533/A has been added to this visit.</i></p>																	
	Fixed Targets	<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>(2)</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>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	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	<p><i>Comments: Use sma RA, DEC and PM as in proposal 12392 by Bohlin et al.</i> <i>Carried over from Cycle 25 proposal.</i> <i>Category=STAR</i> <i>Description=[DA]</i> <i>Extended=NO</i></p>			
#		Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(2)	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 15535 - GD71-AUG-withDELTA (09) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

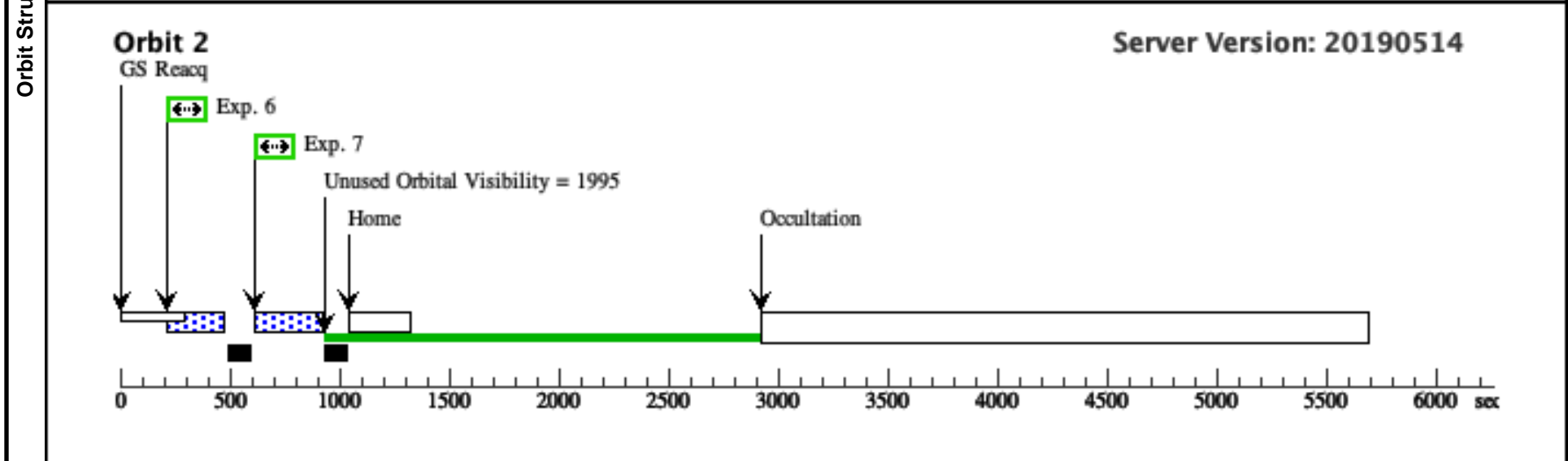
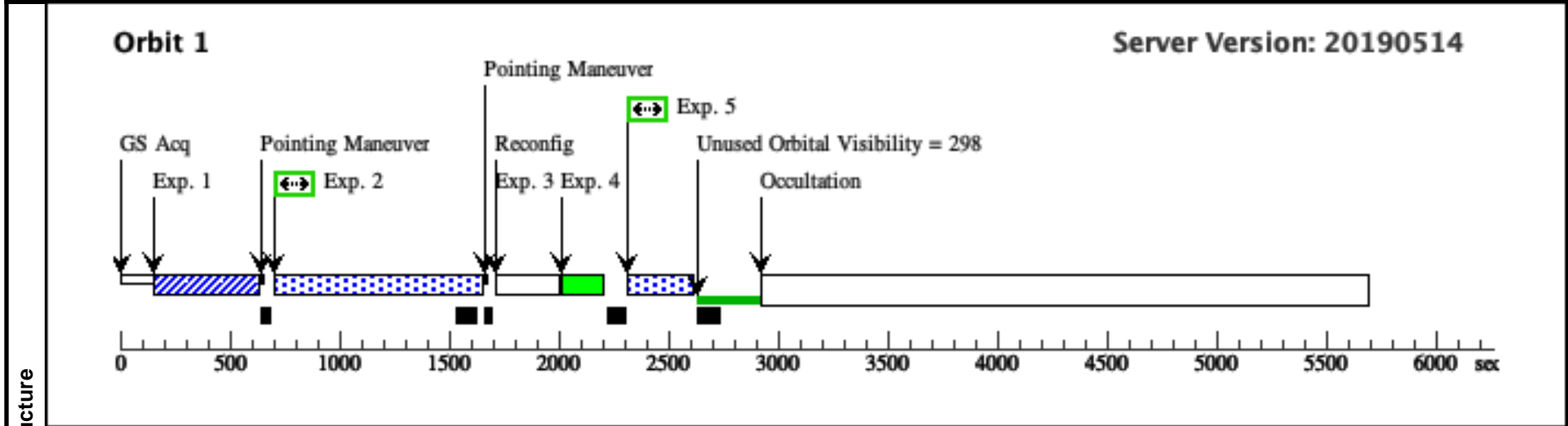
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (COS.ta.839 574)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB			90 Secs (90 Secs) [==>]	[1]	
	<i>Comments: Exptime for S/N of 60 is 105.5 sec, using 90 sec leads to S/N of 55.</i>									
	2	G130M/109 6/FUVB/LP 2 (COS.sp.839 576)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=64 4; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			744 Secs (744 Secs) [==>]	[1]
	<i>Comments: FUVB only (all ETC warnings come from FUVA). Set buffer-time = exptime - 100 sec = 644 to maximize time on target.</i>									
	3		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]
	<i>Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.</i>									
4	G130M/109 6/FUVA W AVECAL/L P2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			140 Secs (140 Secs) [==>]	[1]	
5	G160M/153 3/FUVA (COS.sp.131 1884)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			103 Secs (103 Secs) [==>]	[1]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime. 2.35e6 is the number of events that each buffer can record 6513 cts/sec is the count rate in FUVA, per ETC calculation above Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime</i>										
6	G160M/157 7/FUVA (COS.sp.131 1885)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			132 Secs (132 Secs) [==>]	[2]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime. 2.35e6 is the number of events that each buffer can record 6513 cts/sec is the count rate in FUVA, per ETC calculation above Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime</i>										

Proposal 15535 - GD71-AUG-withDELTA (09) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/162 (2) GD71	COS/FUV, TIME-TAG, PSA	G160M	BUFFER-TIME=17	172 Secs (172 Secs)
	3/FUVA (COS.sp.131 1886)		1623 A	2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	[==>]

Comments: FUVA only (all ETC warnings come from FUVB).

Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime.
 $2.35e6$ is the number of events that each buffer can record
 6513 cts/sec is the count rate in FUVA, per ETC calculation above
 Set buffer-time = exptime b/c $exptime - 100 < 80$ which is the minimum exptime



Proposal 15535 - WD0308-OCT-withDELTA (10) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Visit	<p>Proposal 15535, WD0308-OCT-withDELTA (10), failed Wed Oct 30 13:01:01 GMT 2019</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 06-OCT-2019:00:00:00 AND 29-OCT-2019:00:00:00</p> <p><i>Comments: New cenwaves G160M/1533/B and G140L/800/A have been added to the visit. All G160M observations are now with SEGMENT = B (i.e. segment A is turned off).</i></p>					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(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 carried over from Cycle 25 proposal Category=STAR Description=[DB] Extended=NO</i></p>						

Proposal 15535 - WD0308-OCT-withDELTA (10) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

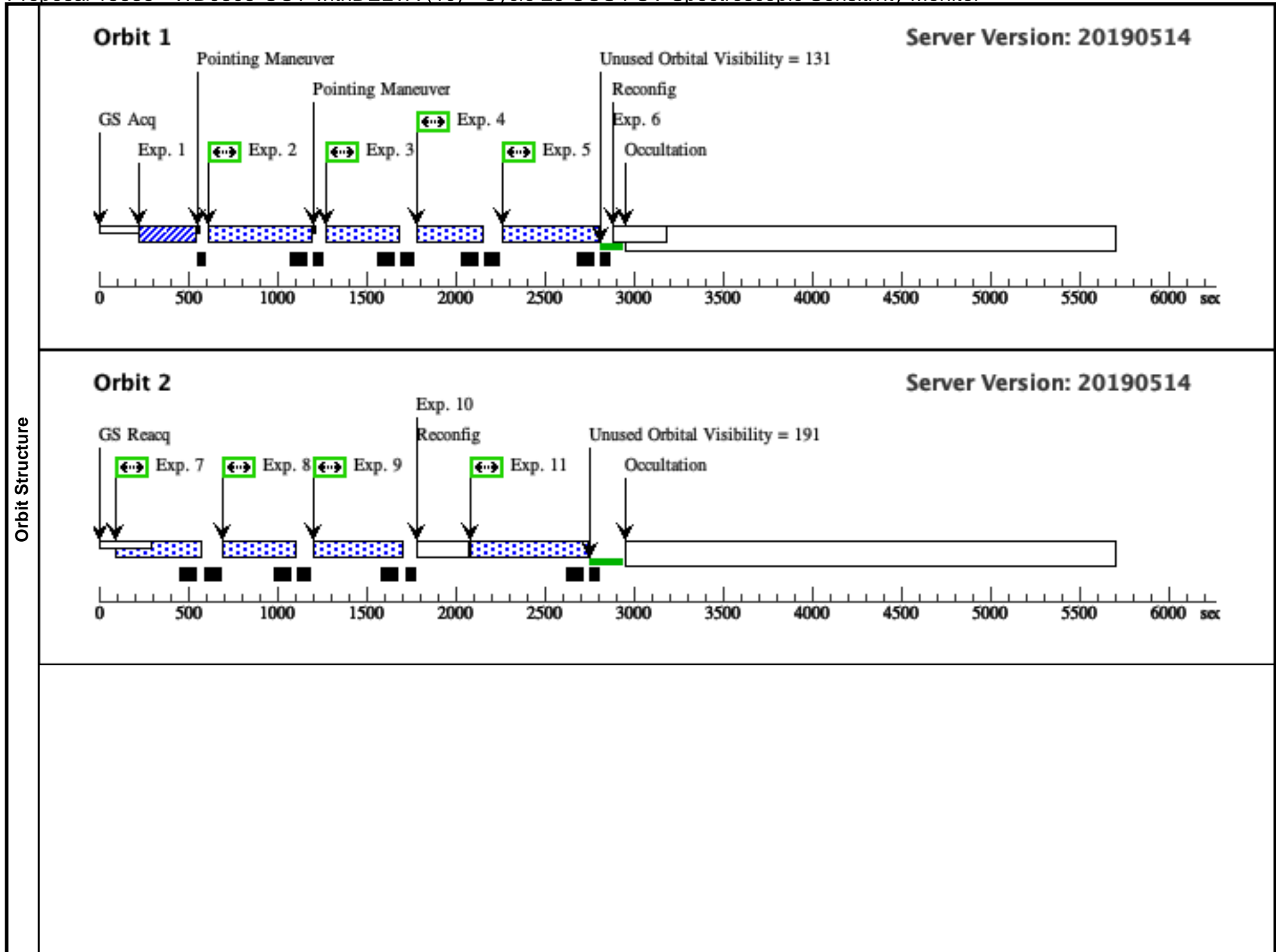
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
	2	G130M/105 5/LP2 (COS.sp.130 2752)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			363 Secs (363 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is larger than exptime (1482) Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 Continue use of 1 FP-POS</i>									
	3	G130M/122 2 (COS.sp.130 2754)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			254 Secs (254 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 Continue use of 1 FP-POS</i>									
4	G130M/129 1 (COS.sp.131 1908)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			233 Secs (233 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144 Continue use of 1 FP-POS</i>										
5	G140L/1280 (COS.sp.102 1719)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			328 Secs (328 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 451, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i>										
6	DARK		S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										

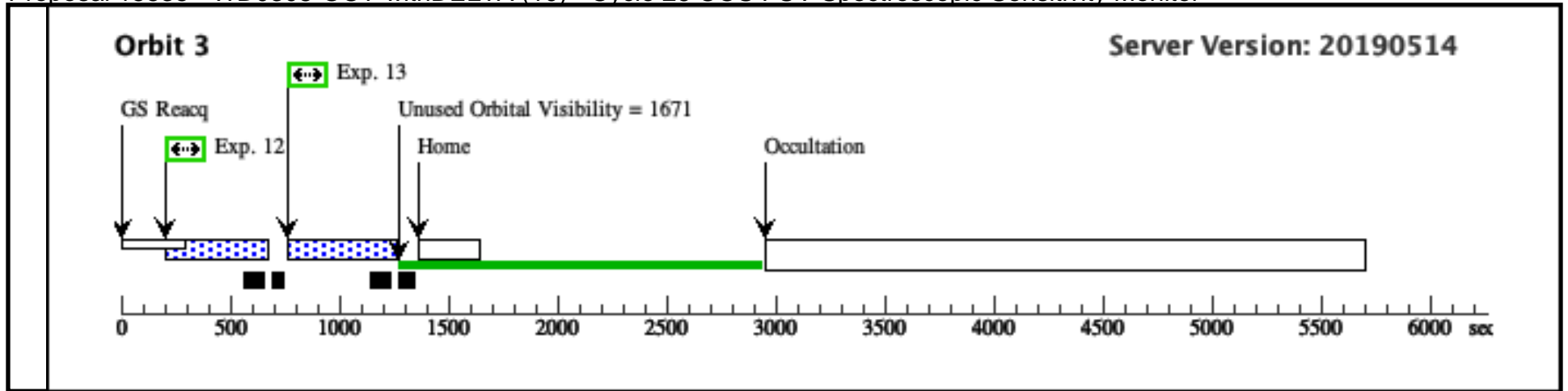
Proposal 15535 - WD0308-OCT-withDELTA (10) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/153 3/B (COS.sp.131 1897)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=12 2; LIFETIME-POS=L P4; SEGMENT=B	222 Secs (222 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 487, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>							
8	G160M/157 7/B (COS.sp.131 1899)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=17 3; LIFETIME-POS=L P4; SEGMENT=B	273 Secs (273 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 599, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>							
9	G160M/162 3/B (COS.sp.131 1901)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 9; LIFETIME-POS=L P4; SEGMENT=B	369 Secs (369 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 799, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 300 Continue use of 1 FP-POS</p>							
10	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>							
11	G140L/800/ FUVA (COS.sp.130 2815)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	363 Secs (363 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 263 Continue use of 1 FP-POS</p>							

Proposal 15535 - WD0308-OCT-withDELTA (10) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

12	G140L/1105 (1) WD0308-565 /FUVA (COS.sp.102 1720)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i></p>							
13	G130M/132 (1) WD0308-565 7/FUVA (COS.sp.102 1693)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (278 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS</i></p>							





Proposal 15535 - WD0308-OCT-withDELTA (60) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Wed Oct 30 13:01:01 GMT 2019

Visit	Proposal 15535, WD0308-OCT-withDELTA (60) Diagnostic Status: No Diagnostics Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 06-NOV-2019:00:00:00 AND 21-NOV-2019:00:00:00 Comments: New cenwaves G160M/1533/B and G140L/800/A have been added to the visit. All G160M observations are now with SEGMENT = B (i.e. segment A is turned off).												
	Fixed Targets	<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>(1)</td> <td>WD0308-565</td> <td> RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000 </td> <td> Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000 </td> <td>V=14.07+/-0.02</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p>Comments: Coordinates carried over from Cycle 25 proposal Category=STAR Description=[DB] Extended=NO</p>	#	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
#	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								

Proposal 15535 - WD0308-OCT-withDELTA (60) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

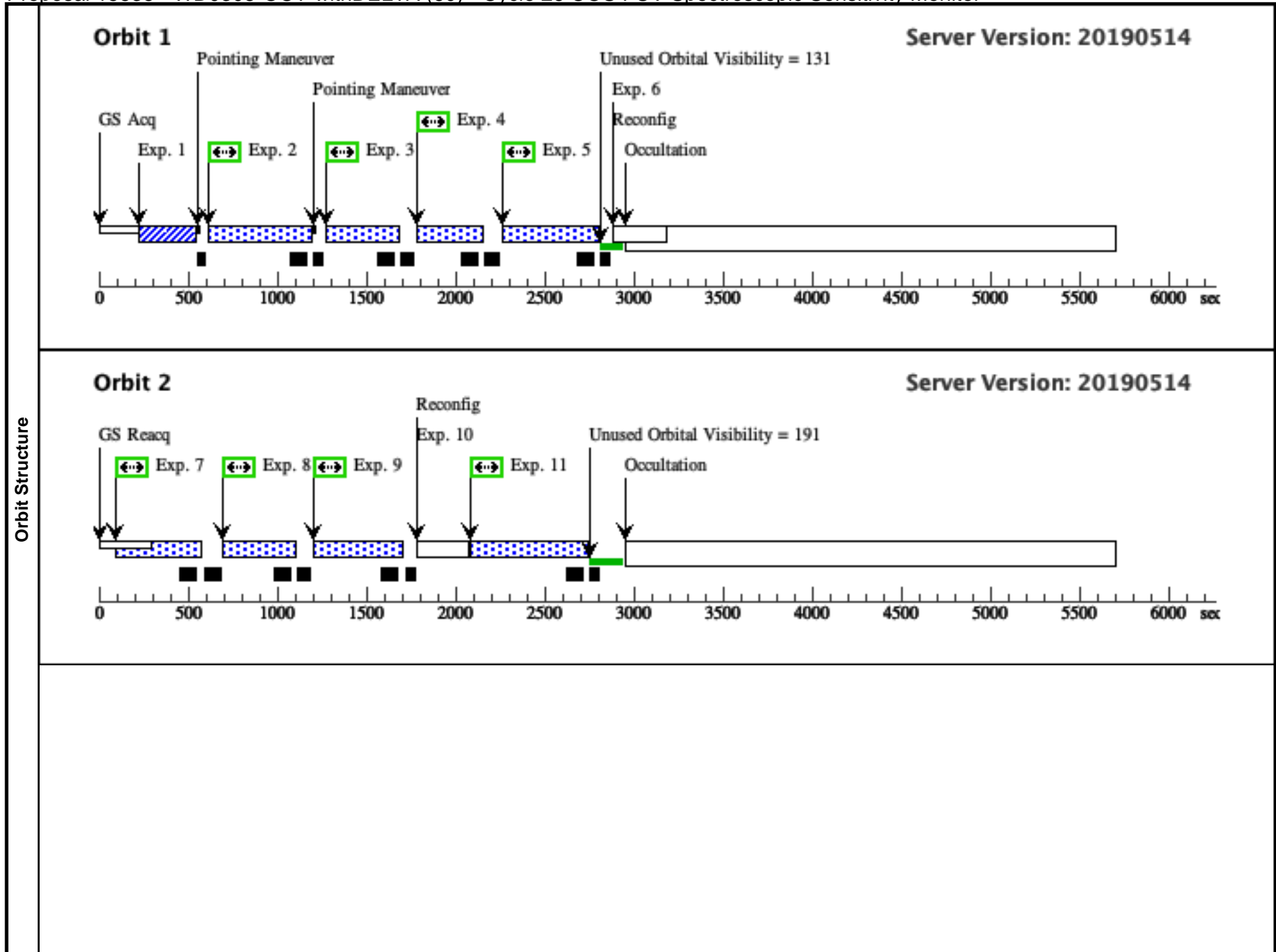
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (839564)	(1) WD0308-565	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			45 Secs (45 Secs) [==>]	[1]	
	<i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
	2	G130M/105 5/LP2 (COS.sp.130 2752)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1055 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=BOTH; LIFETIME-POS=L P2			363 Secs (363 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is larger than exptime (1482) Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 Continue use of 1 FP-POS</i>									
	3	G130M/122 2 (COS.sp.130 2754)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=15 4; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			254 Secs (254 Secs) [==>]	[1]
	<i>Comments: ETC buffer time is 395 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 126 Continue use of 1 FP-POS</i>									
4	G130M/129 1 (COS.sp.131 1908)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 3; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			233 Secs (233 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 322 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 144 Continue use of 1 FP-POS</i>										
5	G140L/1280 (COS.sp.102 1719)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH			328 Secs (328 Secs) [==>]	[1]	
<i>Comments: ETC buffer time is 451, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i>										
6		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]	
<i>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</i>										

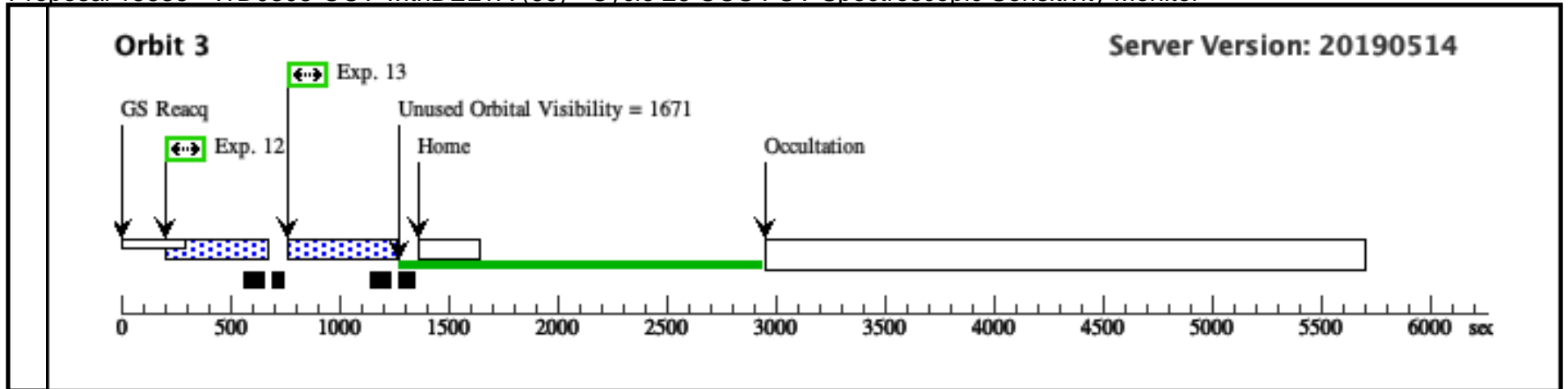
Proposal 15535 - WD0308-OCT-withDELTA (60) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/153 3/B (COS.sp.131 1897)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1533 A	FP-POS=3; BUFFER-TIME=12 2; LIFETIME-POS=L P4; SEGMENT=B	222 Secs (222 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 487, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>							
8	G160M/157 7/B (COS.sp.131 1899)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=17 3; LIFETIME-POS=L P4; SEGMENT=B	273 Secs (273 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 599, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100</p> <p>Continue use of 1 FP-POS</p>							
9	G160M/162 3/B (COS.sp.131 1901)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 9; LIFETIME-POS=L P4; SEGMENT=B	369 Secs (369 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 799, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 300 Continue use of 1 FP-POS</p>							
10	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>							
11	G140L/800/ FUVA (COS.sp.130 2815)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 800 A	BUFFER-TIME=26 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	363 Secs (363 Secs) [==>]	[2]
<p>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 263 Continue use of 1 FP-POS</p>							

Proposal 15535 - WD0308-OCT-withDELTA (60) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

12	G140L/1105 (1) WD0308-565 /FUVA (COS.sp.102 1720)	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (327 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 362, larger than exptime Target has been observed before no need to 2/3 factor Set buffer time = exptime - 100 = 180 Continue use of 1 FP-POS</i></p>							
13	G130M/132 (1) WD0308-565 7/FUVA (COS.sp.102 1693)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (278 Secs)	[==>]	[3]
<p><i>Comments: ETC buffer time is 320 sec. Target has been observed before and so no need for 2/3 safety margin. Since buffer time larger than exptime use buffer time = exptime -100 sec to maximize time on target = 212 Continue use of 1 FP-POS</i></p>							





Proposal 15535 - GD71-OCT-withDELTA (11) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

Wed Oct 30 13:01:01 GMT 2019

Visit	<p>Proposal 15535, GD71-OCT-withDELTA (11), completed</p> <p>Diagnostic Status: No Diagnostics</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 16-OCT-2019:00:00:00 AND 29-OCT-2019:00:00:00</p> <p><i>Comments: exposure 4: GO wavecal to calculate the OSM shifts of the G130M/1096/FUVB observation</i></p> <p><i>George Chapman added Exposure 3</i></p> <p><i>Optimized the exposure time for the G130M/1096 setting to increase its SNR (exp time = 744 s) while remaining within the allocated time.</i></p> <p><i>New cenwave G160M/1533/A has been added to this visit.</i></p>												
	Fixed Targets	<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>(2)</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> <p><i>Carried over from Cycle 25 proposal.</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(2)	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
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(2)	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 15535 - GD71-OCT-withDELTA (11) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	ACQ/IM (COS.ta.839 574)	(2) GD71	COS/NUV, ACQ/IMAGE, BOA	MIRRORB			90 Secs (90 Secs) [==>]	[1]	
	<i>Comments: Exptime for S/N of 60 is 105.5 sec, using 90 sec leads to S/N of 55.</i>									
	2	G130M/109 6/FUVB/LP 2 (COS.sp.839 576)	(2) GD71	COS/FUV, TIME-TAG, PSA	G130M 1096 A	BUFFER-TIME=64 4; FP-POS=3; SEGMENT=B; LIFETIME-POS=L P2			744 Secs (744 Secs) [==>]	[1]
	<i>Comments: FUVB only (all ETC warnings come from FUVA). Set buffer-time = exptime - 100 sec = 644 to maximize time on target.</i>									
	3		DARK	S/C, DATA, NONE			QASISTATES COS FUV HVLOW HVL OW		1 Secs (1 Secs) [==>]	[1]
	<i>Comments: Work-around to efficiently schedule the SEG-B to SEG-A reconfiguration. Eliminates SPSS induced gaps.</i>									
4	G130M/109 6/FUVA W AVECAL/L P2	WAVE	COS/FUV, TIME-TAG, WCA	G130M 1096 A	FP-POS=3; SEGMENT=A; FLASH=NO; LIFETIME-POS=L P2			140 Secs (140 Secs) [==>]	[1]	
5	G160M/153 3/FUVA (COS.sp.131 1884)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1533 A	BUFFER-TIME=10 3; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			103 Secs (103 Secs) [==>]	[1]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime. 2.35e6 is the number of events that each buffer can record 6513 cts/sec is the count rate in FUVA, per ETC calculation above Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime</i>										
6	G160M/157 7/FUVA (COS.sp.131 1885)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=13 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			132 Secs (132 Secs) [==>]	[2]	
<i>Comments: FUVA only (all ETC warnings come from FUVB). Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime. 2.35e6 is the number of events that each buffer can record 6513 cts/sec is the count rate in FUVA, per ETC calculation above Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime</i>										

Proposal 15535 - GD71-OCT-withDELTA (11) - Cycle 26 COS FUV Spectroscopic Sensitivity Monitor

7	G160M/162 (2) GD71 3/FUVA (COS.sp.131 1886)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=17 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	172 Secs (172 Secs) [==>]	[2]
---	--	------------------------	-----------------	---	------------------------------	-----

Comments: FUVA only (all ETC warnings come from FUVB).

Buffer-time for FUVA is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime.
 $2.35e6$ is the number of events that each buffer can record
 6513 cts/sec is the count rate in FUVA, per ETC calculation above
 Set buffer-time = exptime b/c $exptime - 100 < 80$ which is the minimum exptime

