



15384 - COS FUV Spectroscopic Sensitivity Monitoring

Cycle: 25, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	28-Feb-2019 11:00:28.0	yes
02	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	1	28-Feb-2019 11:00:29.0	yes
03	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	28-Feb-2019 11:00:31.0	yes
04	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	1	28-Feb-2019 11:00:32.0	yes

Proposal 15384 (STScI Edit Number: 11, Created: Thursday, February 28, 2019 at 11:00:54 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>
05	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	28-Feb-2019 11:00:34.0	yes
55	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	28-Feb-2019 11:00:36.0	yes
06	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	1	28-Feb-2019 11:00:37.0	yes
07	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	28-Feb-2019 11:00:39.0	yes
08	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	28-Feb-2019 11:00:41.0	yes
09	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	1	28-Feb-2019 11:00:43.0	yes
10	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	28-Feb-2019 11:00:44.0	yes
11	(2) GD71 DARK WAVE	COS/FUV COS/NUV S/C	1	28-Feb-2019 11:00:45.0	yes
12	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	28-Feb-2019 11:00:47.0	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>
56	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	28-Feb-2019 11:00:48.0	yes
57	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	28-Feb-2019 11:00:50.0	yes
58	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	28-Feb-2019 11:00:51.0	yes
59	(1) WD0308-565 DARK	COS/FUV COS/NUV S/C	2	28-Feb-2019 11:00:53.0	yes
13	(2) GD71	COS/FUV COS/NUV	1	28-Feb-2019 11:00:54.0	yes

30 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. There will be one additional sequence to verify the sensitivities obtained at LP3, and their zero-points relative to those obtained at LP4. (These are visits 12 and 13.)

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 2017.
- GD71 is unschedulable May-July 2017, and therefore that sequence will consist of only one visit.
- The sequence using LP3 should occur towards the end of the cycle.

Proposal 15384 - WD0308 - Dec complete (01) - COS FUV Spectroscopic Sensitivity Monitoring

Thu Feb 28 16:00:54 GMT 2019

Visit	Proposal 15384, WD0308 - Dec complete (01), completed Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 26-DEC-2017:00:00:00 AND 08-JAN-2018:00:00:00																	
	Diagnosics (WD0308 - Dec complete (01)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (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> </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
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS													
Comments: Coordinates from Charle's proposal Category=STAR Description=[DB] Extended=NO																		

Proposal 15384 - WD0308 - Dec complete (01) - COS FUV Spectroscopic Sensitivity Monitoring

#	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		GS ACQ SCENARI O BASE1B3		45 Secs (45 Secs) [==>]	[1]
<p><i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i></p>									
2	G130M/122 2 (COS.sp.102 1684)	(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]
<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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i></p> <p><i>Cycle 25 comment: the ETC was run for each exposure and the differences compared to Cycle 24 were not significant. We have generally used the newly calculated values and allowed the orbit planner to adjust durations.</i></p>									
3	G130M/129 1 (COS.sp.102 1690)	(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]
<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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i></p> <p><i>Cycle 25 comment: the ETC was run for each exposure and the differences compared to Cycle 24 were not significant. We have generally used the newly calculated values and allowed the orbit planner to adjust durations.</i></p>									
4	G130M/105 5/LP2 (COS.sp.102 1696)	(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]
<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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. While the program is optimized for FUVa we use the low SNR FUVB data to constraint the blue edge of the wavelength range.</i></p> <p><i>Cycle 25 comment: the ETC was run for each exposure and the differences compared to Cycle 24 were not significant. We have generally used the newly calculated values and allowed the orbit planner to adjust durations.</i></p>									

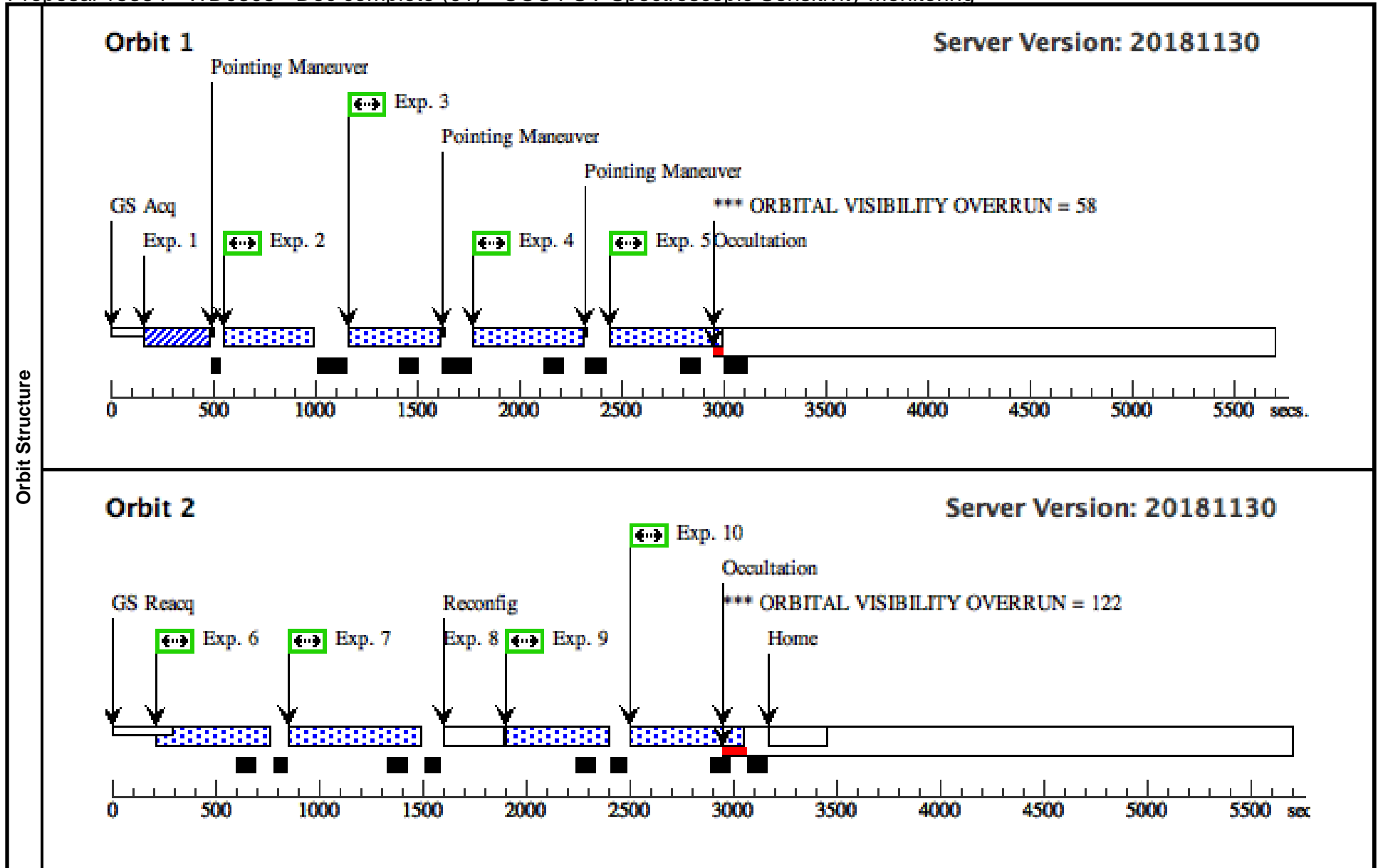
Exposures

Proposal 15384 - WD0308 - Dec complete (01) - COS FUV Spectroscopic Sensitivity Monitoring

5	G160M/157 (1) WD0308-565 7 (COS.sp.102 1702)	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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p> <p>Cycle 25 comment: the ETC was run for each exposure and the differences compared to Cycle 24 were not significant. We have generally used the newly calculated values and allowed the orbit planner to adjust durations.</p>						
6	G160M/162 (1) WD0308-565 3 (COS.sp.102 1704)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P4; SEGMENT=BOTH	368 Secs (416 Secs) [==>416.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p> <p>Cycle 25 comment: the ETC was run for each exposure and the differences compared to Cycle 24 were not significant. We have generally used the newly calculated values and allowed the orbit planner to adjust durations.</p>						
7	G140L/1280 (1) WD0308-565 (COS.sp.102 1719)	COS/FUV, TIME-TAG, PSA	G140L 1280 A	BUFFER-TIME=22 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH	328 Secs (376 Secs) [==>376.0 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>Cycle 25 comment: the ETC was run for each exposure and the differences compared to Cycle 24 were not significant. We have generally used the newly calculated values and allowed 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 15384 - WD0308 - Dec complete (01) - COS FUV Spectroscopic Sensitivity Monitoring

9	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 (375 Secs)	[=>375.0 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>Cycle 25 comment: the ETC was run for each exposure and the differences compared to Cycle 24 were not significant. We have generally used the newly calculated values and allowed the orbit planner to adjust durations.</p>							
10	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 (326 Secs)	[=>326.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p>							
<p>Cycle 25 comment: the ETC was run for each exposure and the differences compared to Cycle 24 were not significant. We have generally used the newly calculated values and allowed the orbit planner to adjust durations.</p>							



Proposal 15384 - GD71 - Dec complete (02) - COS FUV Spectroscopic Sensitivity Monitoring

Thu Feb 28 16:00:54 GMT 2019

Visit	<p>Proposal 15384, 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-2017:00:00:00 AND 08-JAN-2018:00:00:00</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 (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(GD71 - Dec complete (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>					
Diagnosics						
Fixed Targets	#	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>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>						

Proposal 15384 - GD71 - Dec complete (02) - COS FUV Spectroscopic Sensitivity Monitoring

#	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 (737 Secs) [==>737.0 Secs]	[1]
	<i>Comments: FUVB only (all ETC warnings come from FUVA). Set buffer-time = exptime - 100 sec = 644 to maximize time on target.</i>								
	<i>Cycle 25 comment: the ETC was run for each exposure and the differences compared to Cycle 24 were not significant. We have generally used the newly calculated values and allowed the orbit planner to adjust durations.</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/157 (2) GD71 7/FUVA (COS.sp.102 1723)		COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=11 1; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			111 Secs (104 Secs) [==>104.0 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</i>									
<i>Cycle 24 comment: FUVA TDS is shallower than ETC prediction, so no need to update exposure time (SNR @ 1749 will be larger than 13)</i>									
<i>Cycle 25 comment: the ETC was run for each exposure and the differences compared to Cycle 24 were not significant. We have generally used the newly calculated values and allowed the orbit planner to adjust durations.</i>									

Proposal 15384 - GD71 - Dec complete (02) - COS FUV Spectroscopic Sensitivity Monitoring

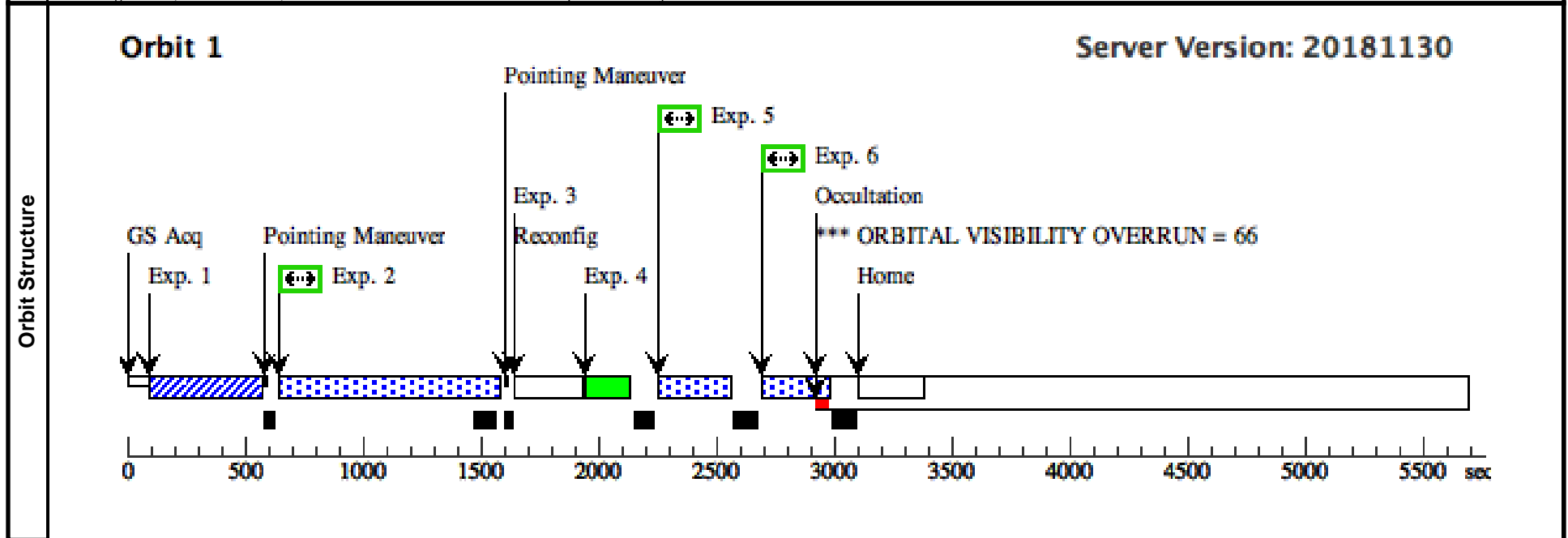
6	G160M/162 (2) GD71 3/FUVA (COS.sp.102 1734)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=16 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	162 Secs (155 Secs)	[1]
					[=>155.0 Secs]	

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

Cycle 24 comment: FUVA TDS is shallower than ETC prediction, so no need to update exposure time (SNR @ 1749 will be larger than 13)

Cycle 25 comment: the ETC was run for each exposure and the differences compared to Cycle 24 were not significant.
 We have generally used the newly calculated values and allowed the orbit planner to adjust durations.



Proposal 15384 - WD0308 - Feb complete (03) - COS FUV Spectroscopic Sensitivity Monitoring

Thu Feb 28 16:00:54 GMT 2019

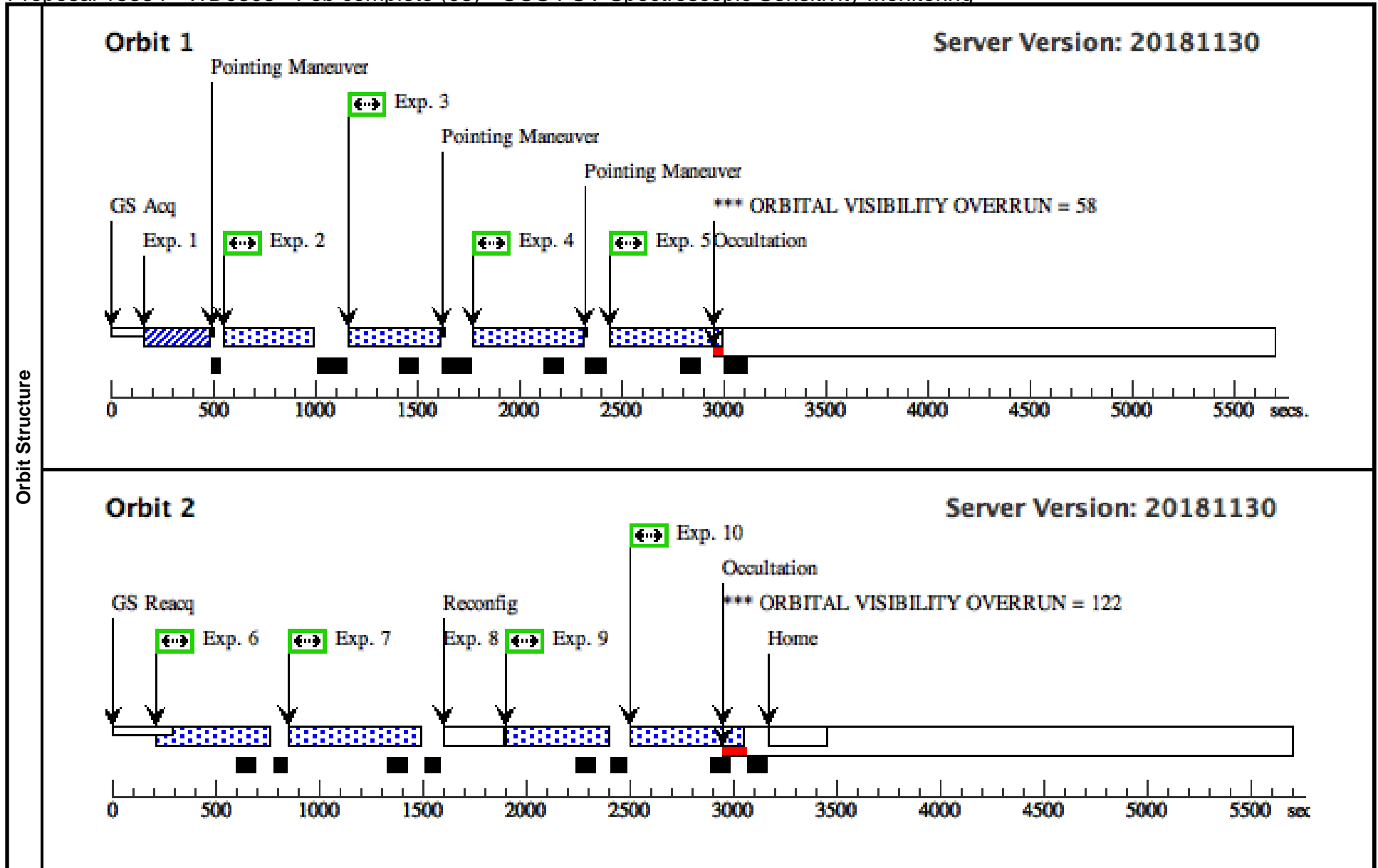
Visit	Proposal 15384, WD0308 - Feb complete (03), completed Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 20-FEB-2018:00:00:00 AND 26-FEB-2018:00:00:00																	
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Comments: Coordinates from Charle's proposal Category=STAR Description=[DB] Extended=NO																		

Proposal 15384 - WD0308 - Feb complete (03) - COS FUV Spectroscopic Sensitivity Monitoring

#	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		GS ACQ SCENARI O BASE1B3	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/122 2 (COS.sp.102 1684)	(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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>								
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<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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
4	G130M/105 5/LP2 (COS.sp.102 1696)	(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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. While the program is optimized for FUVa we use the low SNR FUVB data to constraint the blue edge of the wavelength range.</i>									
5	G160M/157 7 (COS.sp.102 1702)	(1) WD0308-565	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]	
<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 = 190 Continue use of 1 FP-POS</i>									
<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									

Proposal 15384 - WD0308 - Feb complete (03) - COS FUV Spectroscopic Sensitivity Monitoring

6	G160M/162 3 (COS.sp.102 1704)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P4; SEGMENT=BOTH	368 Secs (416 Secs) [==>416.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p>							
7	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 (376 Secs) [==>376.0 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>							
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>							
9	G140L/1105 /FUVA (COS.sp.102 1720)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (375 Secs) [==>375.0 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>							
10	G130M/132 7/FUVA (COS.sp.102 1693)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (326 Secs) [==>326.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p>							



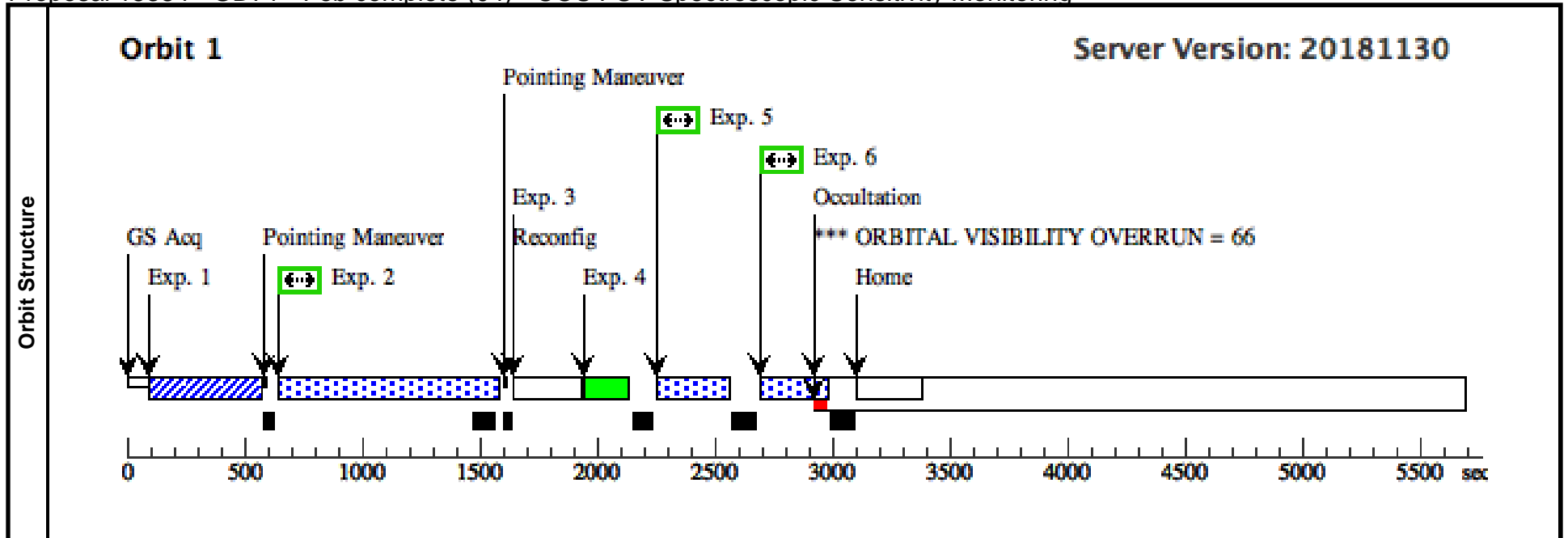
Proposal 15384 - GD71 - Feb complete (04) - COS FUV Spectroscopic Sensitivity Monitoring

Thu Feb 28 16:00:55 GMT 2019

Visit	<p>Proposal 15384, GD71 - Feb complete (04), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 20-FEB-2018:00:00:00 AND 26-FEB-2018:00:00:00</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 - Feb complete (04)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(GD71 - Feb complete (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>					
Diagnosics						
Fixed Targets	#	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>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>						

Proposal 15384 - GD71 - Feb complete (04) - COS FUV Spectroscopic Sensitivity Monitoring

#	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 (737 Secs) [==>737.0 Secs]	[1]
	<i>Comments: FUVB only (all ETC warnings come from FUVA). Set buffer-time = exptime - 100 sec = 644 to maximize time on target.</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/157 (2) GD71 7/FUVA (COS.sp.102 1723)	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=11 1; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			111 Secs (104 Secs) [==>104.0 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 Cycle 24 comment: FUVA TDS is shallower than ETC prediction, so no need to update exposure time (SNR @ 1749 will be larger than 13)</i>									
6	G160M/162 (2) GD71 3/FUVA (COS.sp.102 1734)	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=16 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4			162 Secs (155 Secs) [==>155.0 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 Cycle 24 comment: FUVA TDS is shallower than ETC prediction, so no need to update exposure time (SNR @ 1749 will be larger than 13)</i>									



Proposal 15384 - WD0308 - Apr complete (05) - COS FUV Spectroscopic Sensitivity Monitoring

Thu Feb 28 16:00:55 GMT 2019

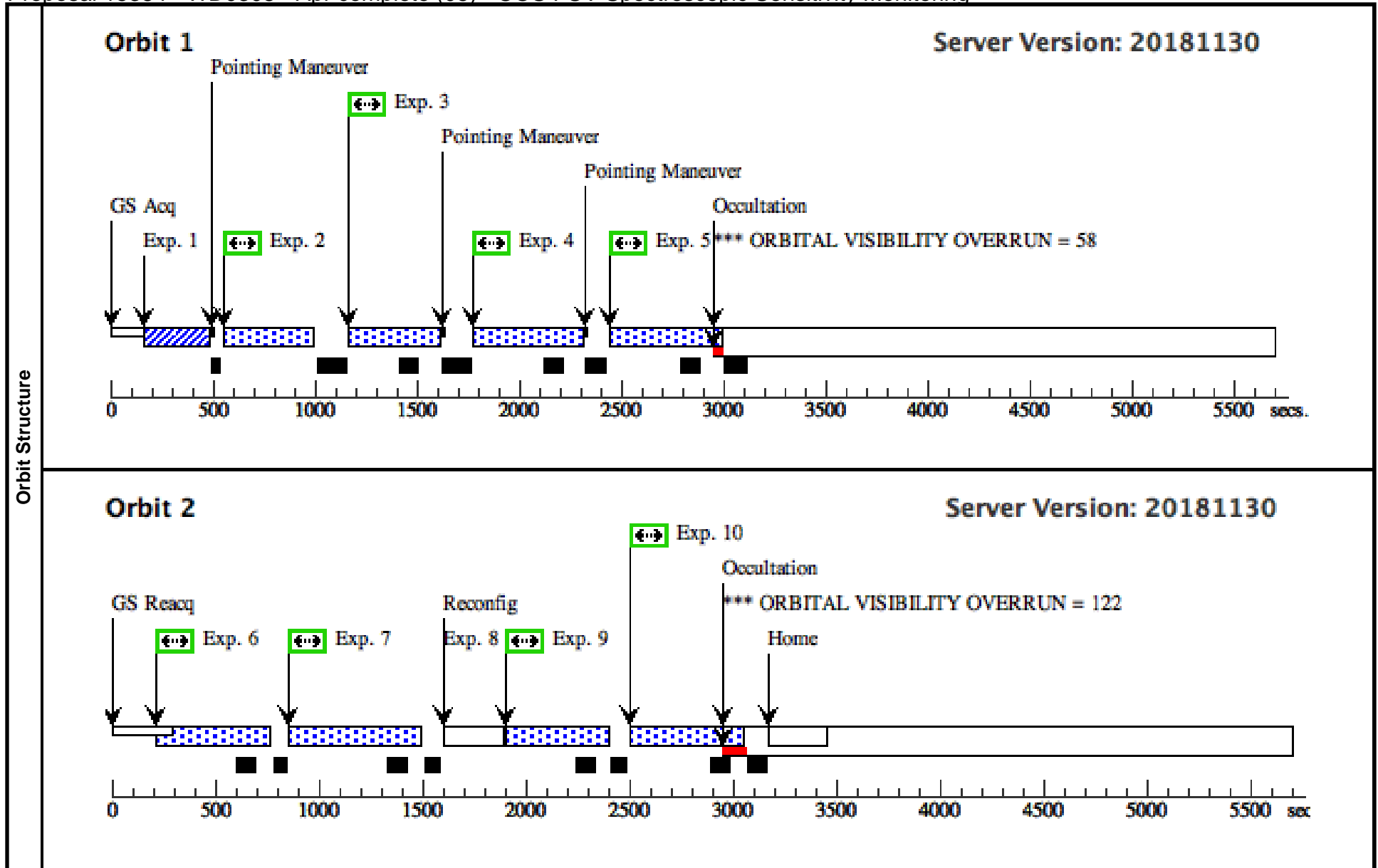
Visit	<p>Proposal 15384, WD0308 - Apr complete (05), failed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-APR-2018:00:00:00 AND 23-APR-2018:00:00:00</p>					
	<p>(WD0308 - Apr complete (05)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(WD0308 - Apr complete (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(WD0308 - Apr complete (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>					
Diagnosics						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS
<p><i>Comments: Coordinates from Charle's proposal</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DB]</i></p> <p><i>Extended=NO</i></p>						

Proposal 15384 - WD0308 - Apr complete (05) - COS FUV Spectroscopic Sensitivity Monitoring

#	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		GS ACQ SCENARI O BASE1B3	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/122 2 (COS.sp.102 1684)	(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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>								
3	G130M/129 1 (COS.sp.102 1690)	(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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
4	G130M/105 5/LP2 (COS.sp.102 1696)	(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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. While the program is optimized for FUVa we use the low SNR FUVB data to constraint the blue edge of the wavelength range.</i>									
5	G160M/157 7 (COS.sp.102 1702)	(1) WD0308-565	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]	
<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 = 190 Continue use of 1 FP-POS</i>									
<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									

Proposal 15384 - WD0308 - Apr complete (05) - COS FUV Spectroscopic Sensitivity Monitoring

6	G160M/1623 (COS.sp.102 1704)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P4; SEGMENT=BOTH	368 Secs (416 Secs) [==>416.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p>							
7	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 (376 Secs) [==>376.0 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>							
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>							
9	G140L/1105 /FUVA (COS.sp.102 1720)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (375 Secs) [==>375.0 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>							
10	G130M/1327 7/FUVA (COS.sp.102 1693)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (326 Secs) [==>326.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p>							



Proposal 15384 - WD0308 - Apr complete (55) - COS FUV Spectroscopic Sensitivity Monitoring

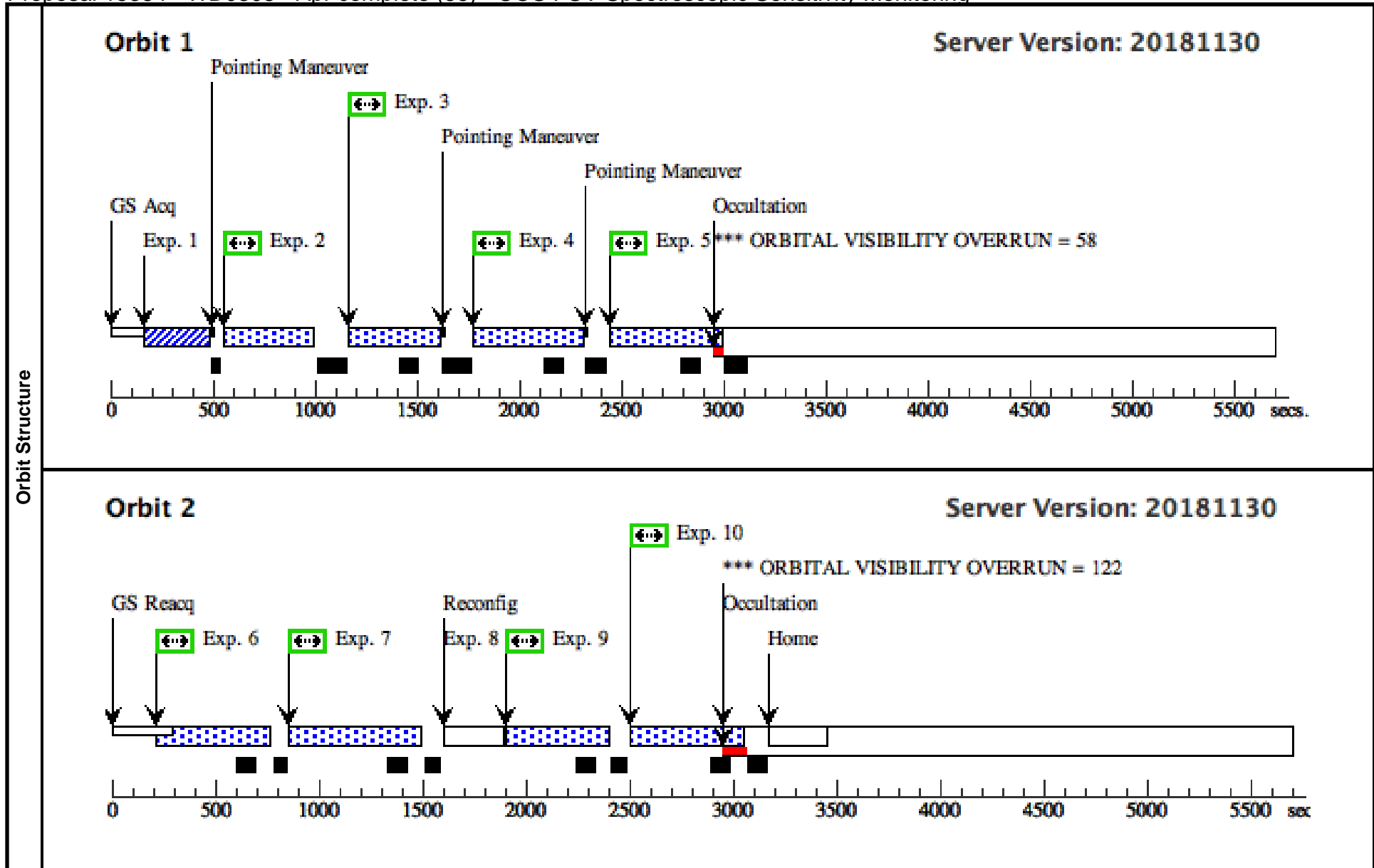
Visit	Proposal 15384, WD0308 - Apr complete (55), completed Thu Feb 28 16:00:55 GMT 2019 Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 07-MAY-2018:00:00:00 AND 13-MAY-2018:00:00:00																	
	Diagnostics	(WD0308 - Apr complete (55)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (WD0308 - Apr complete (55)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD0308 - Apr complete (55)) 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> </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
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS													
Comments: Coordinates from Charle's proposal Category=STAR Description=[DB] Extended=NO																		

Proposal 15384 - WD0308 - Apr complete (55) - COS FUV Spectroscopic Sensitivity Monitoring

#	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		GS ACQ SCENARI O BASE1B3	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/122 2 (COS.sp.102 1684)	(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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>								
3	G130M/129 1 (COS.sp.102 1690)	(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>									
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4	G130M/105 5/LP2 (COS.sp.102 1696)	(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>									
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5	G160M/157 7 (COS.sp.102 1702)	(1) WD0308-565	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]	
<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 = 190 Continue use of 1 FP-POS</i>									
<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									

Proposal 15384 - WD0308 - Apr complete (55) - COS FUV Spectroscopic Sensitivity Monitoring

6	G160M/162 3 (COS.sp.102 1704)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P4; SEGMENT=BOTH	368 Secs (416 Secs) [==>416.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p>							
7	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 (376 Secs) [==>376.0 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>							
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>							
9	G140L/1105 /FUVA (COS.sp.102 1720)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (375 Secs) [==>375.0 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>							
10	G130M/132 7/FUVA (COS.sp.102 1693)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (326 Secs) [==>326.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p>							



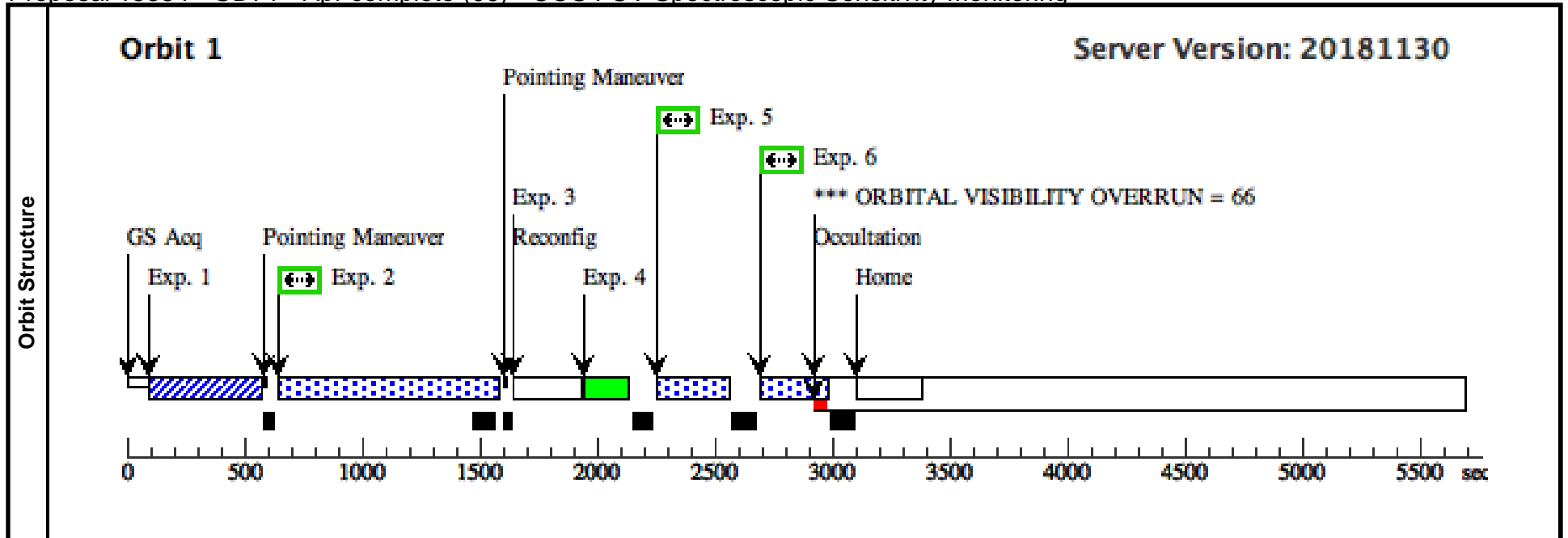
Proposal 15384 - GD71 - Apr complete (06) - COS FUV Spectroscopic Sensitivity Monitoring

Thu Feb 28 16:00:55 GMT 2019

Visit	<p>Proposal 15384, GD71 - Apr complete (06), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 10-APR-2018:00:00:00 AND 23-APR-2018:00:00:00</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>																	
	Diagnostics	<p>(GD71 - Apr complete (06)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(GD71 - Apr complete (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</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>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 15384 - GD71 - Apr complete (06) - COS FUV Spectroscopic Sensitivity Monitoring

#	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 (737 Secs) [==>737.0 Secs]	[1]
	<i>Comments: FUVB only (all ETC warnings come from FUVA). Set buffer-time = exptime - 100 sec = 644 to maximize time on target.</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/157 7/FUVA (COS.sp.102 1723)	(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 (104 Secs) [==>104.0 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 Cycle 24 comment: FUVA TDS is shallower than ETC prediction, so no need to update exposure time (SNR @ 1749 will be larger than 13)</i>									
6	G160M/162 3/FUVA (COS.sp.102 1734)	(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 (155 Secs) [==>155.0 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 Cycle 24 comment: FUVA TDS is shallower than ETC prediction, so no need to update exposure time (SNR @ 1749 will be larger than 13)</i>									



Proposal 15384 - WD0308 - Jun complete (07) - COS FUV Spectroscopic Sensitivity Monitoring

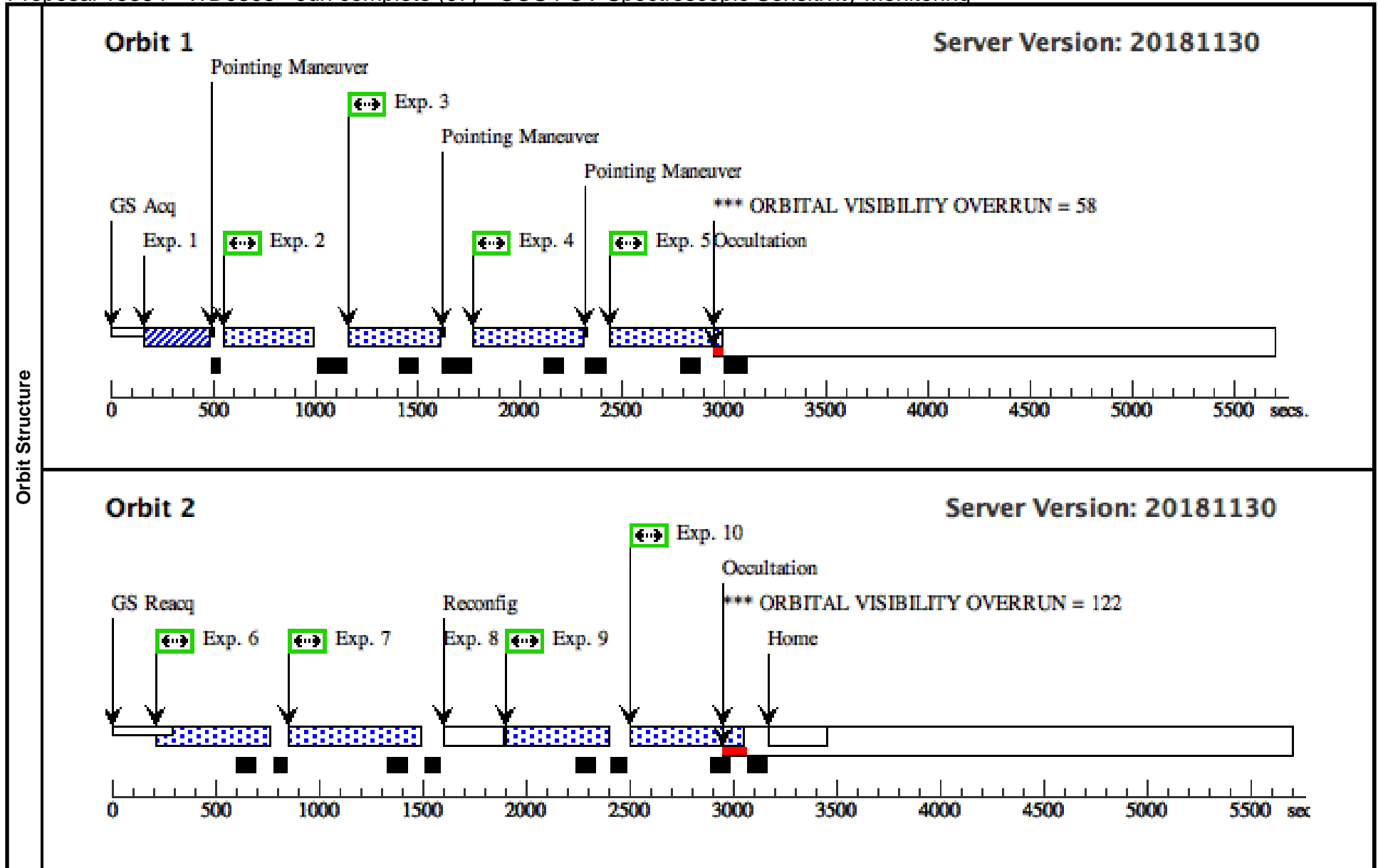
Visit	Proposal 15384, WD0308 - Jun complete (07), completed Thu Feb 28 16:00:55 GMT 2019 Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 05-JUN-2018:00:00:00 AND 18-JUN-2018:00:00:00																	
	Diagnosics (WD0308 - Jun complete (07)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (WD0308 - Jun complete (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD0308 - Jun complete (07)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																	
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<i>Comments: Coordinates from Charle's proposal</i> <i>Category=STAR</i> <i>Description=[DB]</i> <i>Extended=NO</i>																		

Proposal 15384 - WD0308 - Jun complete (07) - COS FUV Spectroscopic Sensitivity Monitoring

#	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		GS ACQ SCENARI O BASE1B3	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/122 2 (COS.sp.102 1684)	(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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>								
3	G130M/129 1 (COS.sp.102 1690)	(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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
4	G130M/105 5/LP2 (COS.sp.102 1696)	(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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. While the program is optimized for FUVa we use the low SNR FUVB data to constraint the blue edge of the wavelength range.</i>									
5	G160M/157 7 (COS.sp.102 1702)	(1) WD0308-565	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]	
<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 = 190 Continue use of 1 FP-POS</i>									
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Proposal 15384 - WD0308 - Jun complete (07) - COS FUV Spectroscopic Sensitivity Monitoring

6	G160M/162 3 (COS.sp.102 1704)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P4; SEGMENT=BOTH	368 Secs (416 Secs) [==>416.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p>							
7	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 (376 Secs) [==>376.0 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>							
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>							
9	G140L/1105 /FUVA (COS.sp.102 1720)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (375 Secs) [==>375.0 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>							
10	G130M/132 7/FUVA (COS.sp.102 1693)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (326 Secs) [==>326.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p>							



Proposal 15384 - WD0308 - Aug complete (08) - COS FUV Spectroscopic Sensitivity Monitoring

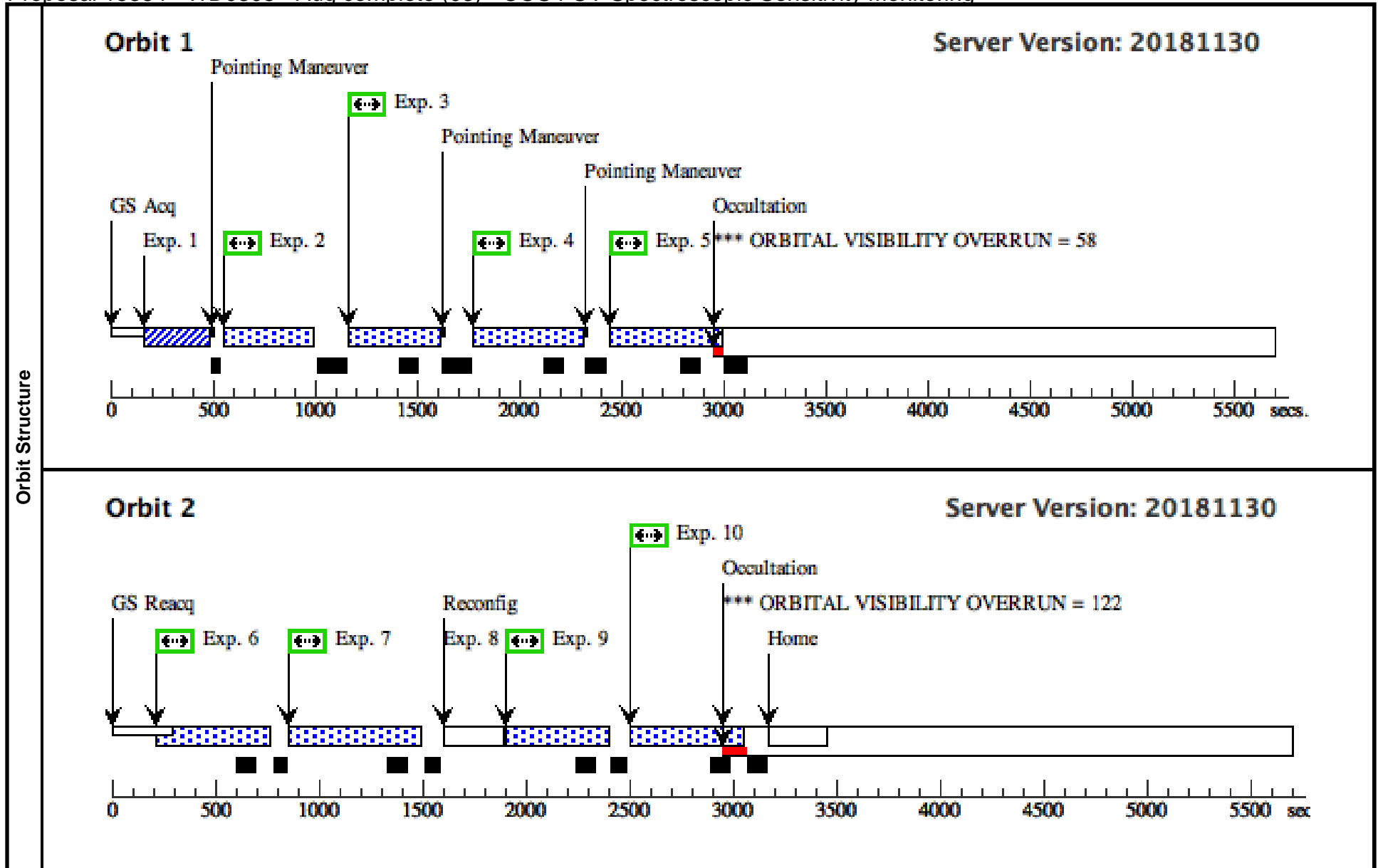
Visit	Proposal 15384, WD0308 - Aug complete (08), completed Thu Feb 28 16:00:55 GMT 2019 Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 14-AUG-2018:00:00:00 AND 27-AUG-2018:00:00:00																	
	Diagnostics	(WD0308 - Aug complete (08)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (WD0308 - Aug complete (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD0308 - Aug complete (08)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN																
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Proposal 15384 - WD0308 - Aug complete (08) - COS FUV Spectroscopic Sensitivity Monitoring

#	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		GS ACQ SCENARI O BASE1B3	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/122 2 (COS.sp.102 1684)	(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]
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3	G130M/129 1 (COS.sp.102 1690)	(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]	
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<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
4	G130M/105 5/LP2 (COS.sp.102 1696)	(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]	
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Proposal 15384 - WD0308 - Aug complete (08) - COS FUV Spectroscopic Sensitivity Monitoring

6	G160M/162 3 (COS.sp.102 1704)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P4; SEGMENT=BOTH	368 Secs (416 Secs) [==>416.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p>							
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<p>Comments: Work-around to efficiently schedule the reconfiguration to SEG-A. Eliminates SPSS induced gaps.</p>							
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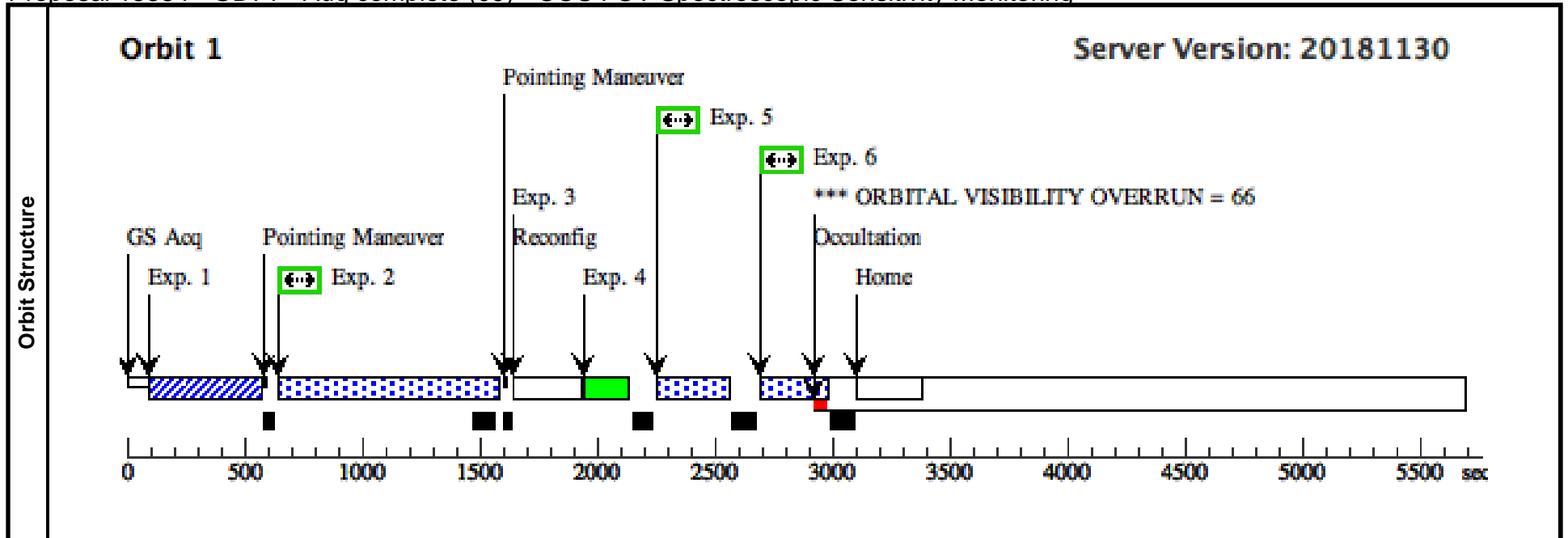
Proposal 15384 - GD71 - Aug complete (09) - COS FUV Spectroscopic Sensitivity Monitoring

Thu Feb 28 16:00:55 GMT 2019

Visit	<p>Proposal 15384, GD71 - Aug complete (09), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 14-AUG-2018:00:00:00 AND 27-AUG-2018:00:00:00</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 - Aug complete (09)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(GD71 - Aug complete (09)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>					
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Fixed Targets	#	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>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>						

Proposal 15384 - GD71 - Aug complete (09) - COS FUV Spectroscopic Sensitivity Monitoring

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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>								
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	<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/157 7/FUVA (COS.sp.102 1723)	(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 (104 Secs) [==>104.0 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 Cycle 24 comment: FUVA TDS is shallower than ETC prediction, so no need to update exposure time (SNR @ 1749 will be larger than 13)</i>									
6	G160M/162 3/FUVA (COS.sp.102 1734)	(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 (155 Secs) [==>155.0 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 Cycle 24 comment: FUVA TDS is shallower than ETC prediction, so no need to update exposure time (SNR @ 1749 will be larger than 13)</i>									



Proposal 15384 - WD0308 - Oct complete (10) - COS FUV Spectroscopic Sensitivity Monitoring

Thu Feb 28 16:00:55 GMT 2019

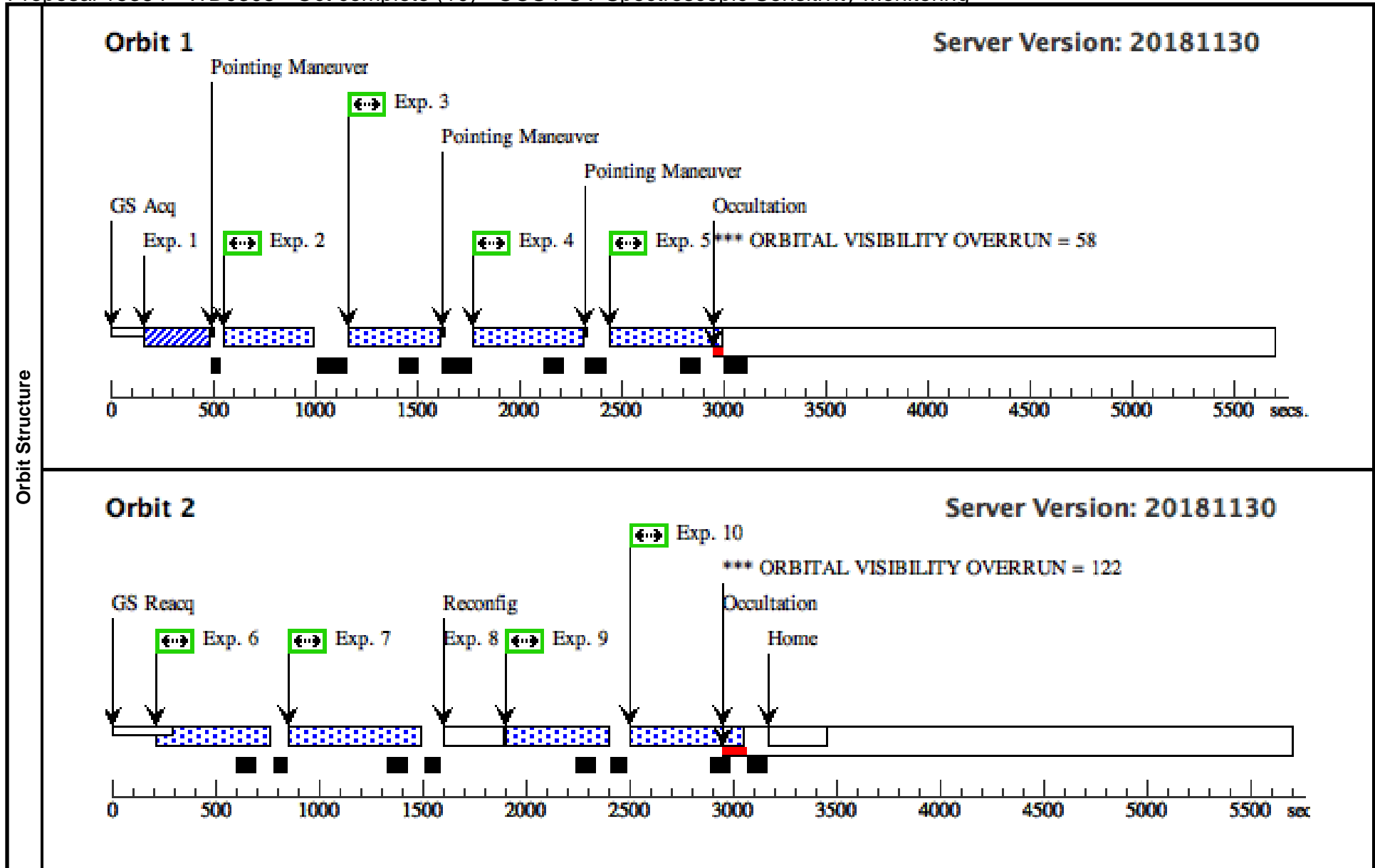
Visit	Proposal 15384, WD0308 - Oct complete (10), completed Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 16-OCT-2018:00:00:00 AND 05-NOV-2018:00:00:00																	
	Diagnosics (WD0308 - Oct complete (10)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details. (WD0308 - Oct complete (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD0308 - Oct complete (10)) 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> </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
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous												
(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS													
Comments: Coordinates from Charle's proposal Category=STAR Description=[DB] Extended=NO																		

Proposal 15384 - WD0308 - Oct complete (10) - COS FUV Spectroscopic Sensitivity Monitoring

#	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		GS ACQ SCENARI O BASE1B3	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/122 2 (COS.sp.102 1684)	(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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
3	G130M/129 1 (COS.sp.102 1690)	(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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>										
4	G130M/105 5/LP2 (COS.sp.102 1696)	(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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested. While the program is optimized for FUVa we use the low SNR FUVB data to constraint the blue edge of the wavelength range.</i>										
5	G160M/157 7 (COS.sp.102 1702)	(1) WD0308-565	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]		
<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 = 190 Continue use of 1 FP-POS</i>										
<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>										

Proposal 15384 - WD0308 - Oct complete (10) - COS FUV Spectroscopic Sensitivity Monitoring

6	G160M/162 3 (COS.sp.102 1704)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P4; SEGMENT=BOTH	368 Secs (416 Secs) [==>416.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p>							
7	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 (376 Secs) [==>376.0 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>							
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>							
9	G140L/1105 /FUVA (COS.sp.102 1720)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P4	327 Secs (375 Secs) [==>375.0 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>							
10	G130M/132 7/FUVA (COS.sp.102 1693)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=A	278 Secs (326 Secs) [==>326.0 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</p>							



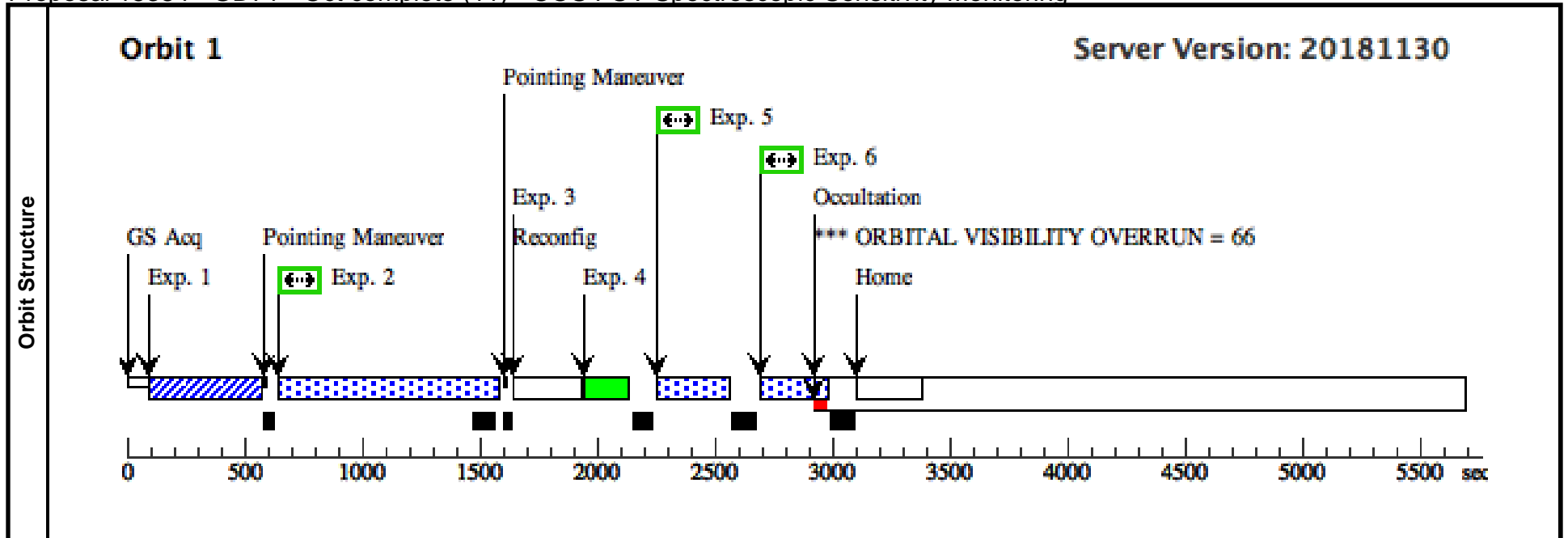
Proposal 15384 - GD71 - Oct complete (11) - COS FUV Spectroscopic Sensitivity Monitoring

Thu Feb 28 16:00:55 GMT 2019

Visit	<p>Proposal 15384, GD71 - Oct complete (11), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 16-OCT-2018:00:00:00 AND 12-NOV-2018:00:00:00</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 - Oct complete (11)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</p> <p>(GD71 - Oct complete (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p>					
Diagnosics						
Fixed Targets	#	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>Category=STAR</i></p> <p><i>Description=[DA]</i></p> <p><i>Extended=NO</i></p>						

Proposal 15384 - GD71 - Oct complete (11) - COS FUV Spectroscopic Sensitivity Monitoring

#	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 (737 Secs) [==>737.0 Secs]	[1]
	<i>Comments: FUVB only (all ETC warnings come from FUVA). Set buffer-time = exptime - 100 sec = 644 to maximize time on target.</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/157 7/FUVA (COS.sp.102 1723)	(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 (104 Secs) [==>104.0 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 Cycle 24 comment: FUVA TDS is shallower than ETC prediction, so no need to update exposure time (SNR @ 1749 will be larger than 13)</i>										
6	G160M/162 3/FUVA (COS.sp.102 1734)	(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 (155 Secs) [==>155.0 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 Cycle 24 comment: FUVA TDS is shallower than ETC prediction, so no need to update exposure time (SNR @ 1749 will be larger than 13)</i>										



Proposal 15384 - WD0308 - LP3check (12) - COS FUV Spectroscopic Sensitivity Monitoring

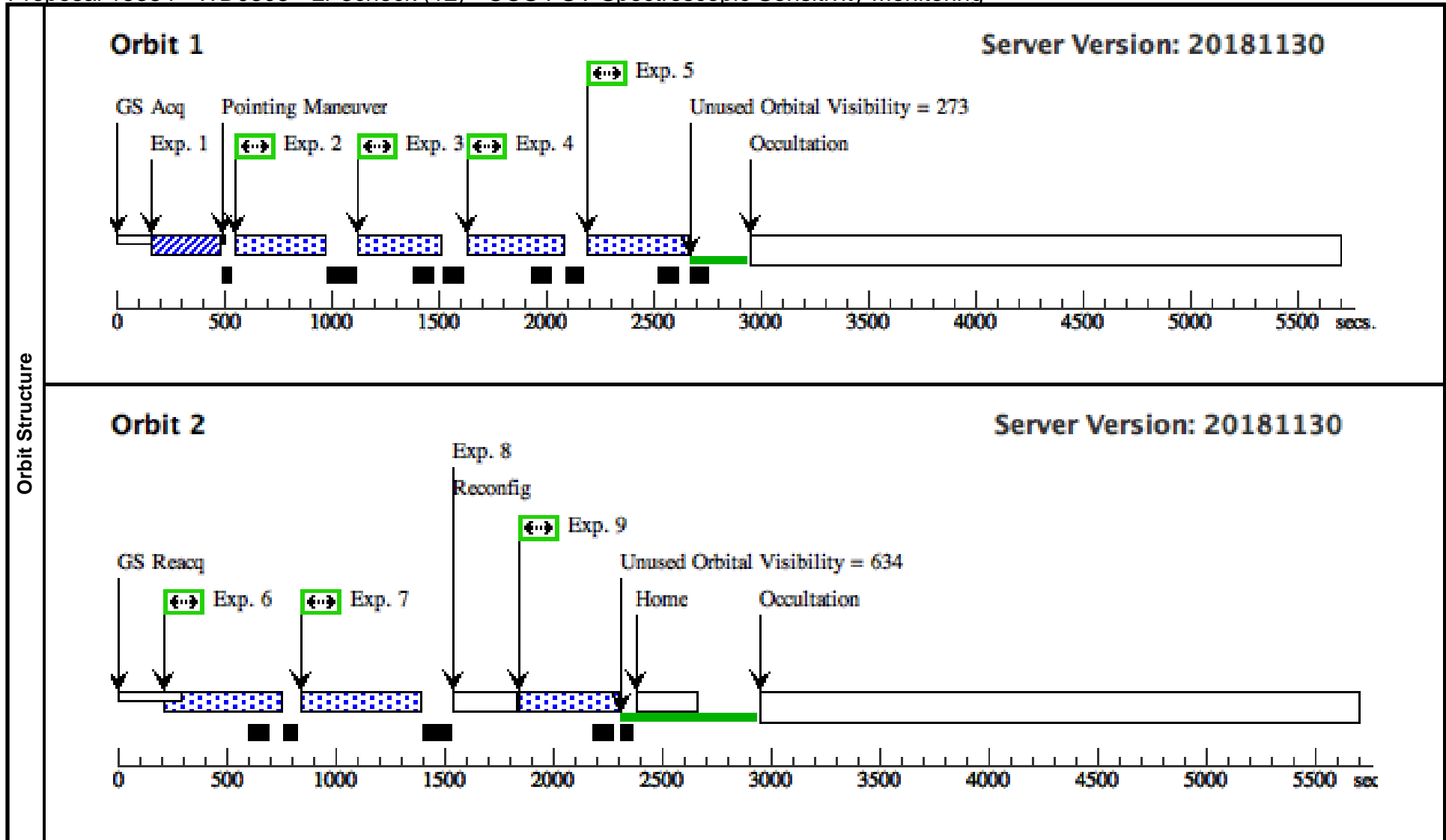
Visit	Proposal 15384, WD0308 - LP3check (12), failed Thu Feb 28 16:00:55 GMT 2019 Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 25-AUG-2018 AND 31-OCT-2018																	
	Diagnosics (WD0308 - LP3check (12)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.																	
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(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS													
Comments: Coordinates from Charle's proposal Category=STAR Description=[DB] Extended=NO																		

Proposal 15384 - WD0308 - LP3check (12) - COS FUV Spectroscopic Sensitivity Monitoring

#	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		GS ACQ SCENARI O BASE1B3	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/122 2 (COS.sp.102 1684)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=17 6; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			226 Secs (226 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
3	G130M/129 1 (COS.sp.102 1690)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			244 Secs (244 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>										
4	G130M/132 7 (COS.sp.102 1693)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			312 Secs (312 Secs) [==>]	[1]	
<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>										
<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>										
<i>Because this observation is at LP3, "BOTH" segments are being used. (For LP4 visits, only FUV is obtained for cenwave 1327.)</i>										
5	G160M/157 7 (COS.sp.102 1702)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 4; LIFETIME-POS=L P3; SEGMENT=BOTH			290 Secs (290 Secs) [==>]	[1]	
<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 = 190</i>										
<i>Continue use of 1 FP-POS</i>										
<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>										

Proposal 15384 - WD0308 - LP3check (12) - COS FUV Spectroscopic Sensitivity Monitoring

6	G160M/1623 (COS.sp.102 1704)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P3; SEGMENT=BOTH	400 Secs (400 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> <p><i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i></p>							
7	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 P3; SEGMENT=BOTH	280 Secs (280 Secs) [==>]	[2]
<p><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></p>							
8	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>							
9	G140L/1105 /FUVA (COS.sp.102 1720)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	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>							



Proposal 15384 - WD0308 - LP3check (56) - COS FUV Spectroscopic Sensitivity Monitoring

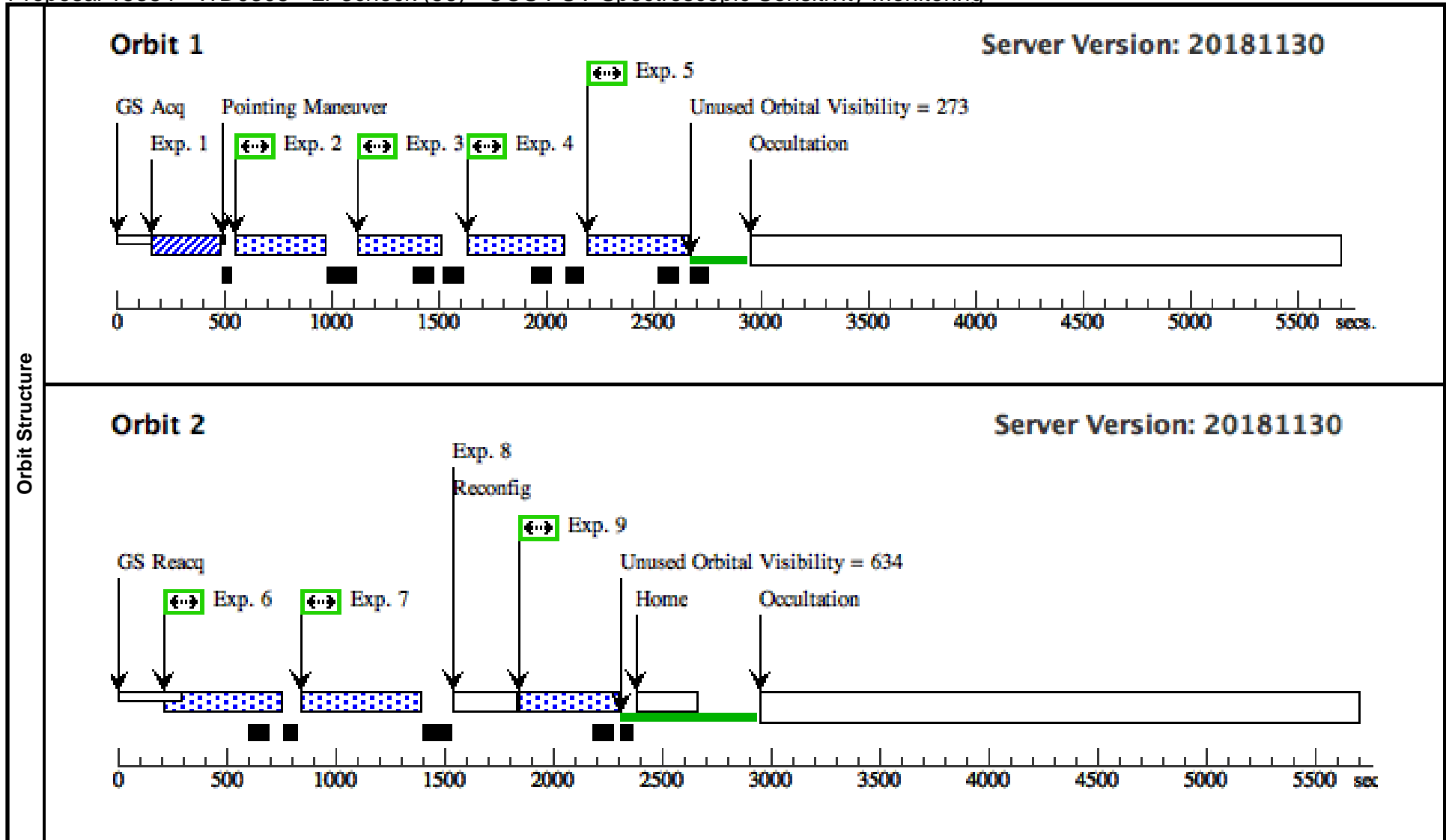
Visit	<p>Proposal 15384, WD0308 - LP3check (56), failed Thu Feb 28 16:00:55 GMT 2019</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 25-AUG-2018 AND 12-NOV-2018</p>																	
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	#	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													
<p><i>Comments: Coordinates from Charle's proposal</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DB]</i></p> <p><i>Extended=NO</i></p>																		

Proposal 15384 - WD0308 - LP3check (56) - COS FUV Spectroscopic Sensitivity Monitoring

#	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		GS ACQ SCENARI O BASE1B3	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/122 2 (COS.sp.102 1684)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=17 6; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			226 Secs (226 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
3	G130M/129 1 (COS.sp.102 1690)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			244 Secs (244 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>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>										
4	G130M/132 7 (COS.sp.102 1693)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			312 Secs (312 Secs) [==>]	[1]	
<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>										
<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>										
<i>Because this observation is at LP3, "BOTH" segments are being used. (For LP4 visits, only FUV is obtained for cenwave 1327.)</i>										
5	G160M/157 7 (COS.sp.102 1702)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 4; LIFETIME-POS=L P3; SEGMENT=BOTH			290 Secs (290 Secs) [==>]	[1]	
<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 = 190</i>										
<i>Continue use of 1 FP-POS</i>										
<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>										

Proposal 15384 - WD0308 - LP3check (56) - COS FUV Spectroscopic Sensitivity Monitoring

6	G160M/1623 (COS.sp.102 1704)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P3; SEGMENT=BOTH	400 Secs (400 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> <p><i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i></p>							
7	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 P3; SEGMENT=BOTH	280 Secs (280 Secs) [==>]	[2]
<p><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></p>							
8	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>							
9	G140L/1105 /FUVA (COS.sp.102 1720)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	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>							



Proposal 15384 - WD0308 - LP3check (57) - COS FUV Spectroscopic Sensitivity Monitoring

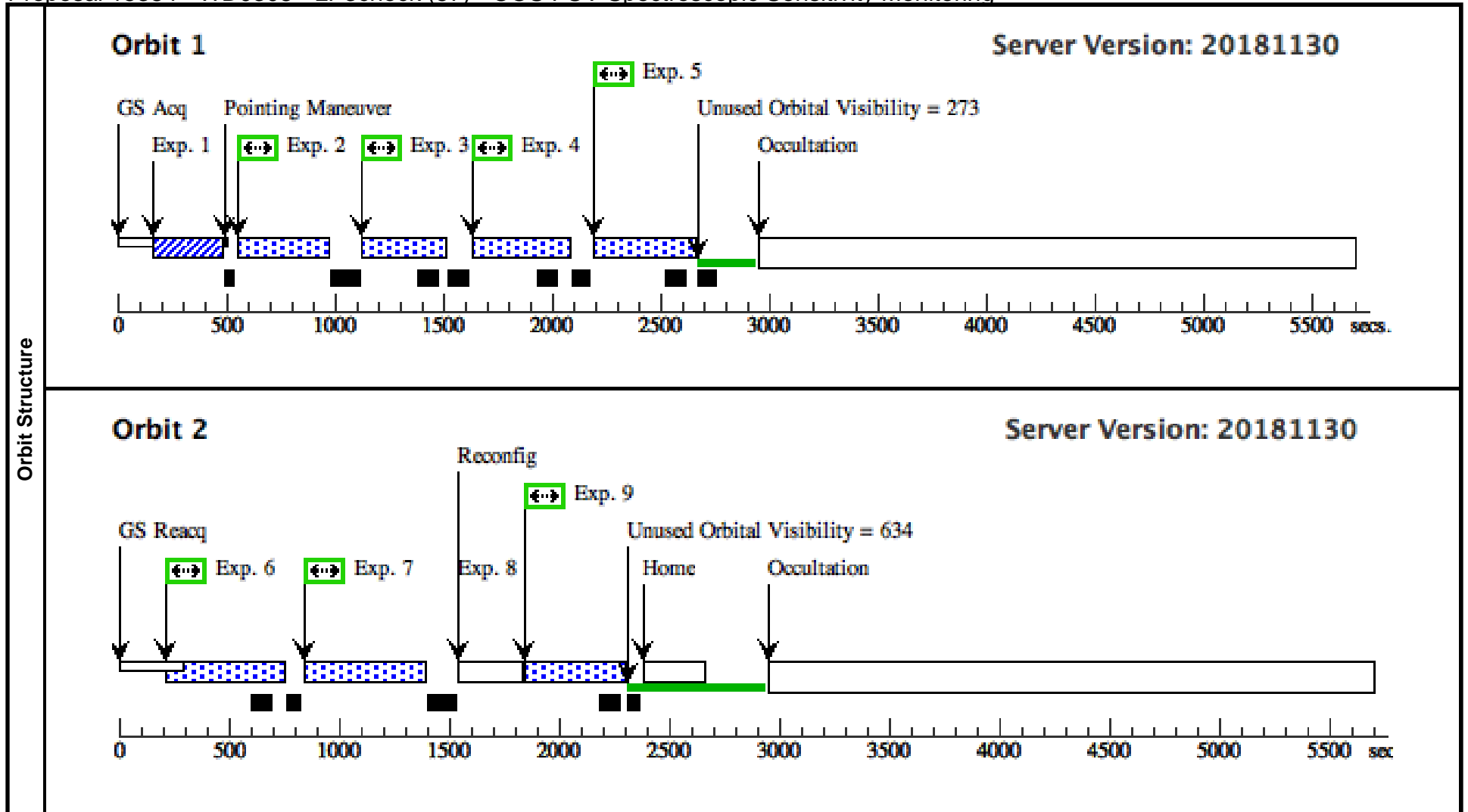
Visit	<p>Proposal 15384, WD0308 - LP3check (57), failed Thu Feb 28 16:00:55 GMT 2019</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: S/C, COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 26-DEC-2018 AND 08-JAN-2019</p>																	
	Diagnostics	<p>(WD0308 - LP3check (57)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</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>	#	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	<p><i>Comments: Coordinates from Charle's proposal</i></p> <p><i>Category=STAR</i></p> <p><i>Description=[DB]</i></p> <p><i>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	Reference Frame: ICRS													

Proposal 15384 - WD0308 - LP3check (57) - COS FUV Spectroscopic Sensitivity Monitoring

#	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		GS ACQ SCENARI O BASE1B3	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/122 2 (COS.sp.102 1684)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=17 6; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			226 Secs (226 Secs) [==>]	[1]
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3	G130M/129 1 (COS.sp.102 1690)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			244 Secs (244 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>										
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4	G130M/132 7 (COS.sp.102 1693)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			312 Secs (312 Secs) [==>]	[1]	
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<i>Because this observation is at LP3, "BOTH" segments are being used. (For LP4 visits, only FUV is obtained for cenwave 1327.)</i>										
5	G160M/157 7 (COS.sp.102 1702)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 4; LIFETIME-POS=L P3; SEGMENT=BOTH			290 Secs (290 Secs) [==>]	[1]	
<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 = 190</i>										
<i>Continue use of 1 FP-POS</i>										
<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>										

Proposal 15384 - WD0308 - LP3check (57) - COS FUV Spectroscopic Sensitivity Monitoring

6	G160M/1623 (COS.sp.102 1704)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P3; SEGMENT=BOTH	400 Secs (400 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> <p><i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i></p>							
7	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 P3; SEGMENT=BOTH	280 Secs (280 Secs) [==>]	[2]
<p><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></p>							
8	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
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9	G140L/1105 /FUVA (COS.sp.102 1720)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	327 Secs (327 Secs) [==>]	[2]
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Proposal 15384 - WD0308 - LP3check (58) - COS FUV Spectroscopic Sensitivity Monitoring

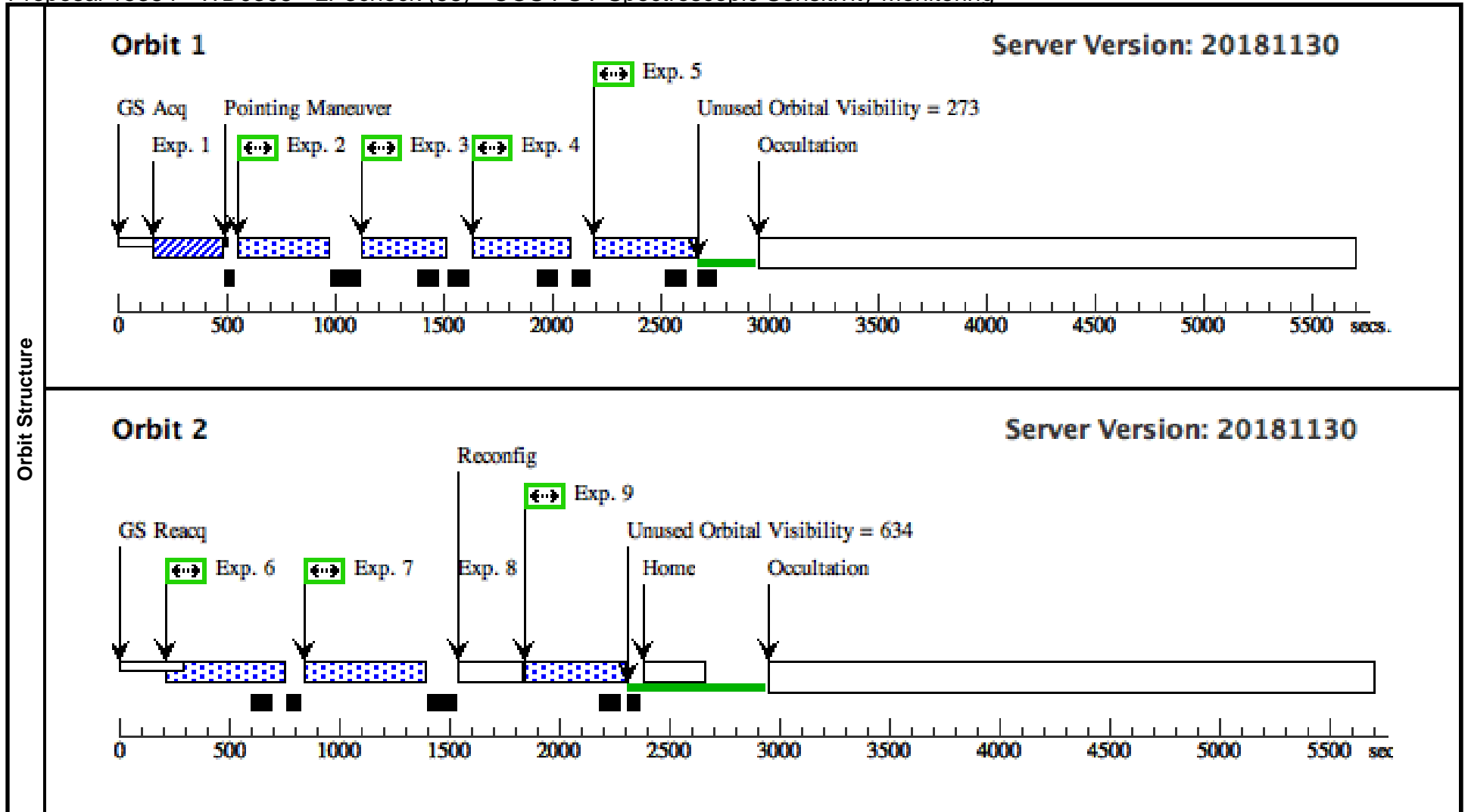
Visit	Proposal 15384, WD0308 - LP3check (58), completed Thu Feb 28 16:00:55 GMT 2019 Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 21-FEB-2019 AND 05-MAR-2019																
	Diagnosics (WD0308 - LP3check (58)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.																
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>					#	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
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(1)	WD0308-565	RA: 03 09 47.9200 (47.4496667d) Dec: -56 23 49.41 (-56.39706d) Equinox: J2000	Proper Motion RA: 0.018141 sec of time/yr Proper Motion Dec: 0.0643 arcsec/yr Epoch of Position: 2000	V=14.07+/-0.02	Reference Frame: ICRS												
Comments: Coordinates from Charle's proposal Category=STAR Description=[DB] Extended=NO																	

Proposal 15384 - WD0308 - LP3check (58) - COS FUV Spectroscopic Sensitivity Monitoring

#	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		GS ACQ SCENARI O BASE1B3	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/122 2 (COS.sp.102 1684)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=17 6; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			226 Secs (226 Secs) [==>]	[1]
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	<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
3	G130M/129 1 (COS.sp.102 1690)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			244 Secs (244 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>										
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4	G130M/132 7 (COS.sp.102 1693)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			312 Secs (312 Secs) [==>]	[1]	
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<i>Because this observation is at LP3, "BOTH" segments are being used. (For LP4 visits, only FUV is obtained for cenwave 1327.)</i>										
5	G160M/157 7 (COS.sp.102 1702)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 4; LIFETIME-POS=L P3; SEGMENT=BOTH			290 Secs (290 Secs) [==>]	[1]	
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Proposal 15384 - WD0308 - LP3check (58) - COS FUV Spectroscopic Sensitivity Monitoring

6	G160M/1623 (COS.sp.102 1704)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P3; SEGMENT=BOTH	400 Secs (400 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> <p><i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i></p>							
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8	DARK		S/C, DATA, NONE		QASISTATES COS FUV HVLOW HVL OW	1 Secs (1 Secs) [==>]	[2]
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Proposal 15384 - WD0308 - LP3check (59) - COS FUV Spectroscopic Sensitivity Monitoring

Thu Feb 28 16:00:55 GMT 2019

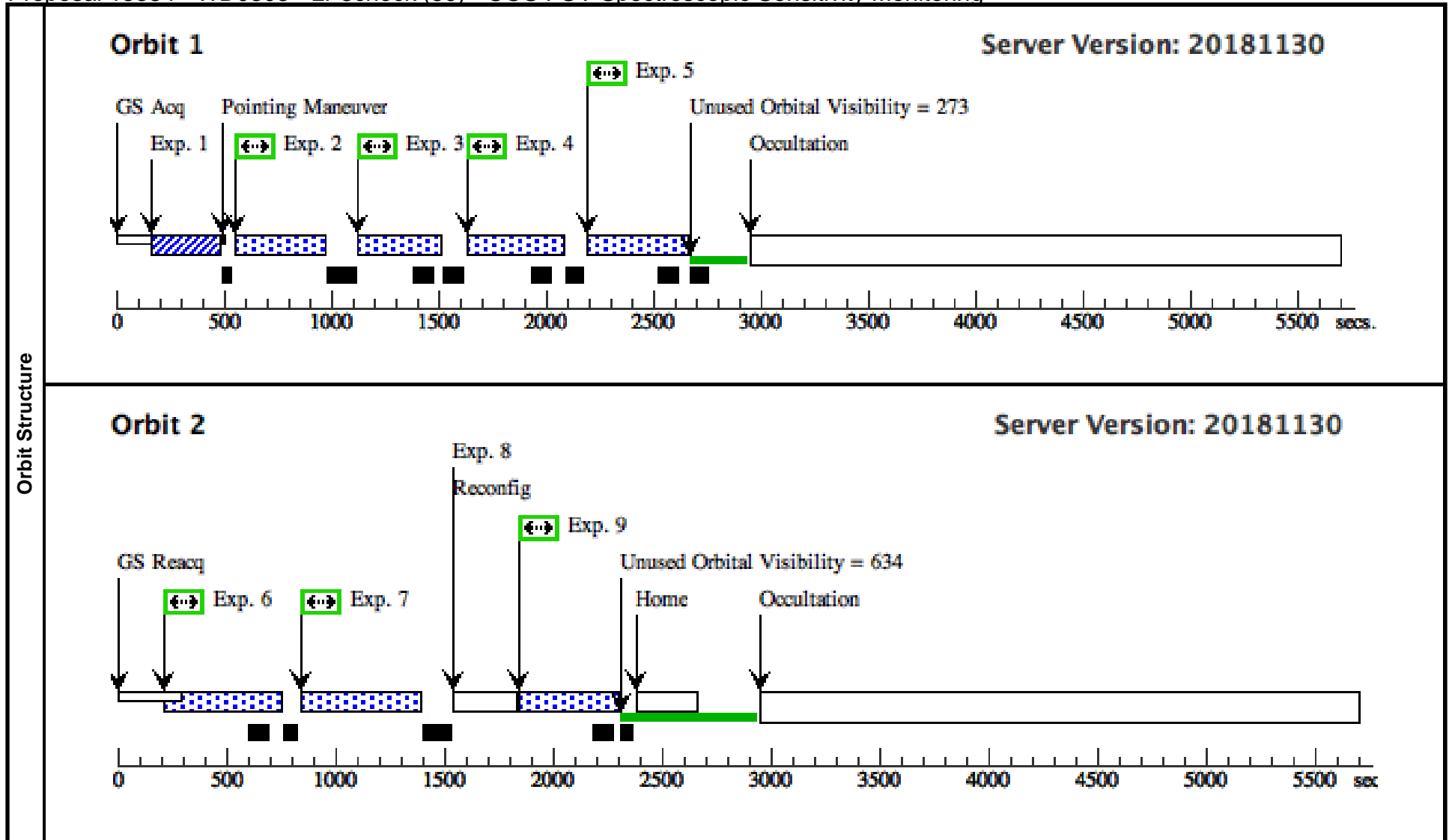
Visit	Proposal 15384, WD0308 - LP3check (59) Diagnostic Status: Warning Scientific Instruments: S/C, COS/FUV, COS/NUV Special Requirements: SCHED 100%; BETWEEN 21-FEB-2019 AND 23-APR-2019																	
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Proposal 15384 - WD0308 - LP3check (59) - COS FUV Spectroscopic Sensitivity Monitoring

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
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	<i>Comments: cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>									
	2	G130M/122 2 (COS.sp.102 1684)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=17 6; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			226 Secs (226 Secs) [==>]	[1]
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3	G130M/129 1 (COS.sp.102 1690)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 1; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			244 Secs (244 Secs) [==>]	[1]	
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4	G130M/132 7 (COS.sp.102 1693)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 8; FP-POS=3; LIFETIME-POS=L P3; SEGMENT=BOTH			312 Secs (312 Secs) [==>]	[1]	
<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>										
<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>										
<i>Because this observation is at LP3, "BOTH" segments are being used. (For LP4 visits, only FUV is obtained for cenwave 1327.)</i>										
5	G160M/157 7 (COS.sp.102 1702)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1577 A	FP-POS=3; BUFFER-TIME=16 4; LIFETIME-POS=L P3; SEGMENT=BOTH			290 Secs (290 Secs) [==>]	[1]	
<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 = 190</i>										
<i>Continue use of 1 FP-POS</i>										
<i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i>										

Proposal 15384 - WD0308 - LP3check (59) - COS FUV Spectroscopic Sensitivity Monitoring

6	G160M/1623 (COS.sp.102 1704)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G160M 1623 A	FP-POS=3; BUFFER-TIME=26 8; LIFETIME-POS=L P3; SEGMENT=BOTH	400 Secs (400 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> <p><i>cycle 24 comment: exposure times not reduced following updated ETC calculations, differences not enough to affect orbit requested.</i></p>							
7	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 P3; SEGMENT=BOTH	280 Secs (280 Secs) [==>]	[2]
<p><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></p>							
8	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>							
9	G140L/1105 /FUVA (COS.sp.102 1720)	(1) WD0308-565	COS/FUV, TIME-TAG, PSA	G140L 1105 A	BUFFER-TIME=22 7; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3	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>							



Proposal 15384 - GD71 - LP3check (13) - COS FUV Spectroscopic Sensitivity Monitoring

Thu Feb 28 16:00:55 GMT 2019

Visit	<p>Proposal 15384, GD71 - LP3check (13), completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: SCHED 100%; BETWEEN 25-AUG-2018 AND 31-OCT-2018</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>																	
	Diagnostics	<p>(GD71 - LP3check (13)) Warning (Form): For the best data quality, it is strongly recommended that the maximum number of allowed FP-POS positions is used when observing at a given COS CENWAVE setting. See full description for details.</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>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
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Proposal 15384 - GD71 - LP3check (13) - COS FUV Spectroscopic Sensitivity Monitoring

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	ACQ/IM (2) GD71 (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	G160M/157 7/FUVA (COS.sp.102 1723)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1577 A	BUFFER-TIME=11 1; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3			111 Secs (213 Secs) [==>213.0 Secs]	[1]
<i>Comments: FUVB only (all ETC warnings come from FUVB).</i> <i>Buffer-time for FUVB is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime.</i> <i>2.35e6 is the number of events that each buffer can record</i> <i>6513 cts/sec is the count rate in FUVB, per ETC calculation above</i> <i>Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime</i> <i>Cycle 24 comment: FUVB TDS is shallower than ETC prediction, so no need to update exposure time (SNR @ 1749 will be larger than 13)</i>									
3	G160M/162 3/FUVA (COS.sp.102 1734)	(2) GD71	COS/FUV, TIME-TAG, PSA	G160M 1623 A	BUFFER-TIME=16 2; FP-POS=3; SEGMENT=A; LIFETIME-POS=L P3			162 Secs (264 Secs) [==>264.0 Secs]	[1]
<i>Comments: FUVB only (all ETC warnings come from FUVB).</i> <i>Buffer-time for FUVB is $2.35e6/6513 = 360$ sec, which is larger than exp time, so set buffer time to exptime.</i> <i>2.35e6 is the number of events that each buffer can record</i> <i>6513 cts/sec is the count rate in FUVB, per ETC calculation above</i> <i>Set buffer-time = exptime b/c exptime - 100 < 80 which is the minimum exptime</i> <i>Cycle 24 comment: FUVB TDS is shallower than ETC prediction, so no need to update exposure time (SNR @ 1749 will be larger than 13)</i>									

