



15682 - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

Cycle: 26, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

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

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) PG0832+676	COS/FUV COS/NUV	2	17-Nov-2019 23:00:26.0	yes
51	(1) PG0832+676	COS/FUV COS/NUV	2	17-Nov-2019 23:00:28.0	yes
02	(2) BD+631964	COS/FUV COS/NUV	4	17-Nov-2019 23:00:31.0	yes
52	(2) BD+631964	COS/FUV COS/NUV	4	17-Nov-2019 23:00:33.0	yes
53	(2) BD+631964	COS/FUV COS/NUV	4	17-Nov-2019 23:00:36.0	yes

16 Total Orbits Used

ABSTRACT

The purpose of this program is to provide comparison data for the observations obtained with program 13193 (COS Side 2 Initial FUV Checkout), which will measure the spectral resolution at LP4 if HST is operating in one-gyro mode at the time of Side-1 electronics failure.

One goal of 13193 is to check that the commanded focus is the best focus, after COS has switched to side-2 electronics. The data obtained in this program will be used as the benchmark side-1 electronics data against which the side-2 data can be compared in order to detect variations in the COS LSFs. The variations in line spread functions (LSFs) will need to be measured for two settings with widely separated focus values: G130M/1222 and G130M/1327 (i.e. following the design of 15366, COS FUV Spectral Resolution at LP4).

OBSERVING DESCRIPTION

We will acquire COS FUV spectra at LP4 of PG0832+676 and BD+63 1964 in two settings: G130M/1222, G130M/1327, using all FPPOS positions. The exposure times are calculated such that the combined FPPOS exposures give $S/N = 60/\text{resel}$ at the midpoint of the spectrum, allowing for $S/N > 40$ across the entire spectrum once all FPPOS settings are combined. We will perform a NUV imaging target acquisition using ACQ/IMAGE for both targets, each with BOA/MIRRORA.

The data will be used as comparison data for the contingency visits (03 & 04) within program 13193 (COS Side 2 Initial FUV Checkout, PI: James) if HST is operating in one-gyro mode at the time of Side-1 electronics failure and target AzV75 is not visible. The observations are designed to replicate settings and S/N requirements for the AzV75 data obtained in the LP4 spectral resolution verification programs at the two extreme wavelengths of G130M: G130M/1222 (15366, PI: Fox) and G130M/1327 (PI: Sonnentrucker), instead here we use the 13193 contingency targets PG0832+676 and BD+63 1964.

The target currently used for 13193 is AzV75. However, this target is not continuously visible under one-gyro mode. If the side-two electronics fail and AzV75 is not visible, alternative targets will need to be observed. As such, this program obtains data for two targets, PG 0832+767 and BD+63-1964, which have visibility windows that complement that of AzV75. The data obtained from this program will therefore only be used as comparison data for 13193 (visits 03 & 04) if:

- (1) HST is operating in one-gyro mode
- (2) The target nominally used for 13193 (AzV75) is not visible when the side 1 electronics fail.

This program obtains the side-1 electronics benchmark data for comparison against data taken using side-2 electronics (when operating in one-gyro mode). In order to detect whether the COS LSFs have remained constant or increased after switching to side-2 electronics, we will measure the COS LSFs observed using side-2 electronics by convolving the side-1 data with model LP4 LSFs and comparing the two datasets.

Proposal 15682 - PG0832-LP4-resolution (01) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

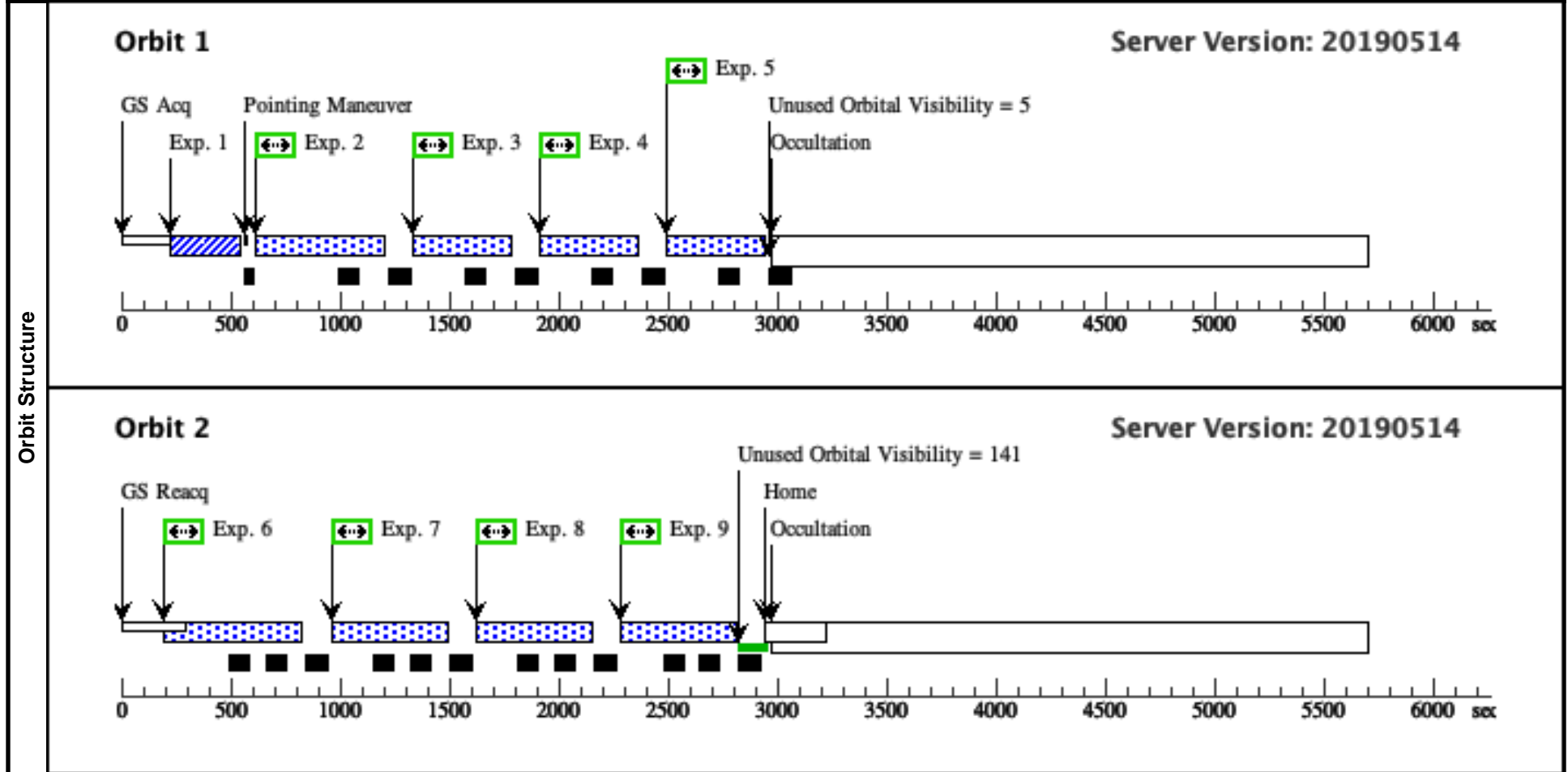
Visit	Proposal 15682, PG0832-LP4-resolution (01), failed Mon Nov 18 04:00:38 GMT 2019 Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%												
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>PG0832+676</td> <td> RA: 08 37 34.7328 (129.3947200d) Dec: +67 24 13.59 (67.40378d) Equinox: J2000 </td> <td> Proper Motion RA: -0.942 mas/yr Proper Motion Dec: -2.994 mas/yr Epoch of Position: 2000 </td> <td>V=14.12+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p> Comments: Coordinate and proper motion information taken from SIMBAD: http://simbad.u-strasbg.fr/simbad/sim-id?Ident=%40411127&Name=PG%200832%2b676&submit=submit Gaia DR2 Category=STAR Description=[POST-AGB STAR] Extended=NO </p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	PG0832+676	RA: 08 37 34.7328 (129.3947200d) Dec: +67 24 13.59 (67.40378d) Equinox: J2000	Proper Motion RA: -0.942 mas/yr Proper Motion Dec: -2.994 mas/yr Epoch of Position: 2000	V=14.12+/-0.1
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(1)	PG0832+676	RA: 08 37 34.7328 (129.3947200d) Dec: +67 24 13.59 (67.40378d) Equinox: J2000	Proper Motion RA: -0.942 mas/yr Proper Motion Dec: -2.994 mas/yr Epoch of Position: 2000	V=14.12+/-0.1	Reference Frame: ICRS								

Proposal 15682 - PG0832-LP4-resolution (01) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	image_acq_ boa (COS.ta.116 1669)	(1) PG0832+676	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			48 Secs (48 Secs) [==>]	[1]	
	<i>Comments: S/N of 20 reached</i>									
	2	1222_1 (COS.sp.116 1670)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=20 0; FP-POS=1; LIFETIME-POS=L P4			400 Secs (400 Secs) [==>]	[1]
	<i>Comments: S/N of 60 per resel @ 1250A when FP-POS combined</i>									
	3	1222_2 (COS.sp.116 1670)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=20 0; FP-POS=2; LIFETIME-POS=L P4			400 Secs (400 Secs) [==>]	[1]
	<i>Comments: S/N of 60 per resel when FP-POS combined</i>									
	4	1222_3 (COS.sp.116 1670)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=20 0; FP-POS=3; LIFETIME-POS=L P4			400 Secs (400 Secs) [==>]	[1]
<i>Comments: S/N of 60 per resel when FP-POS combined</i>										
5	1222_4 (COS.sp.116 1670)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=20 0; FP-POS=4; LIFETIME-POS=L P4			400 Secs (400 Secs) [==>]	[1]	
<i>Comments: S/N of 60 per resel when FP-POS combined</i>										
6	1327_1 (COS.sp.116 1673)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 2; FP-POS=1; LIFETIME-POS=L P4; SEGMENT=BOTH			480 Secs (480 Secs) [==>]	[2]	
<i>Comments: S/N of 60 per resel @ 1250A when FP-POS combined</i>										
7	1327_2 (COS.sp.116 1673)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 2; FP-POS=2; LIFETIME-POS=L P4; SEGMENT=BOTH			480 Secs (480 Secs) [==>]	[2]	
<i>Comments: S/N of 60 per resel when FP-POS combined</i>										

Proposal 15682 - PG0832-LP4-resolution (01) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

8	1327_3 (COS.sp.116 1673)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 2; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH	480 Secs (480 Secs) [==>]	[2]
Comments: S/N of 60 per resel when FP-POS combined							
9	1327_4 (COS.sp.116 1673)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 2; FP-POS=4; LIFETIME-POS=L P4; SEGMENT=BOTH	480 Secs (480 Secs) [==>]	[2]
Comments: S/N of 60 per resel when FP-POS combined							



Proposal 15682 - PG0832-LP4-resolution (51) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

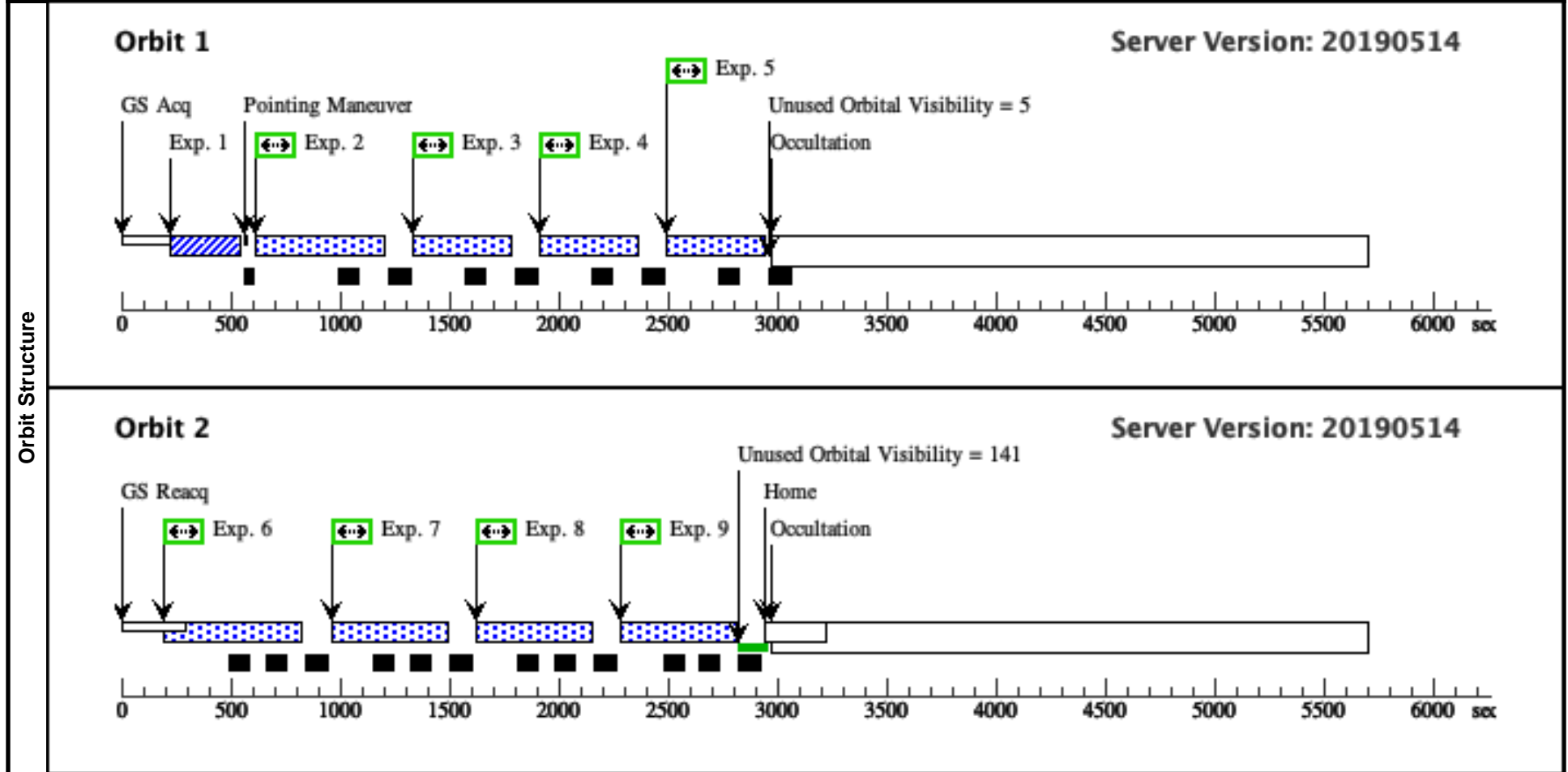
Visit	Proposal 15682, PG0832-LP4-resolution (51), completed Mon Nov 18 04:00:38 GMT 2019 Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%												
	Fixed Targets	<table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>PG0832+676</td> <td> RA: 08 37 34.7328 (129.3947200d) Dec: +67 24 13.59 (67.40378d) Equinox: J2000 </td> <td> Proper Motion RA: -0.942 mas/yr Proper Motion Dec: -2.994 mas/yr Epoch of Position: 2000 </td> <td>V=14.12+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p> <i>Comments: Coordinate and proper motion information taken from SIMBAD: http://simbad.u-strasbg.fr/simbad/sim-id?Ident=%40411127&Name=PG%200832%2b676&submit=submit</i> Gaia DR2 Category=STAR Description=[POST-AGB STAR] Extended=NO </p>	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(1)	PG0832+676	RA: 08 37 34.7328 (129.3947200d) Dec: +67 24 13.59 (67.40378d) Equinox: J2000	Proper Motion RA: -0.942 mas/yr Proper Motion Dec: -2.994 mas/yr Epoch of Position: 2000	V=14.12+/-0.1
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous								
(1)	PG0832+676	RA: 08 37 34.7328 (129.3947200d) Dec: +67 24 13.59 (67.40378d) Equinox: J2000	Proper Motion RA: -0.942 mas/yr Proper Motion Dec: -2.994 mas/yr Epoch of Position: 2000	V=14.12+/-0.1	Reference Frame: ICRS								

Proposal 15682 - PG0832-LP4-resolution (51) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	image_acq_ boa (COS.ta.116 1669)	(1) PG0832+676	COS/NUV, ACQ/IMAGE, BOA	MIRRORA			48 Secs (48 Secs) [==>]	[1]	
	<i>Comments: S/N of 20 reached</i>									
	2	1222_1 (COS.sp.116 1670)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=20 0; FP-POS=1; LIFETIME-POS=L P4			400 Secs (400 Secs) [==>]	[1]
	<i>Comments: S/N of 60 per resel @ 1250A when FP-POS combined</i>									
	3	1222_2 (COS.sp.116 1670)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=20 0; FP-POS=2; LIFETIME-POS=L P4			400 Secs (400 Secs) [==>]	[1]
	<i>Comments: S/N of 60 per resel when FP-POS combined</i>									
	4	1222_3 (COS.sp.116 1670)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=20 0; FP-POS=3; LIFETIME-POS=L P4			400 Secs (400 Secs) [==>]	[1]
	<i>Comments: S/N of 60 per resel when FP-POS combined</i>									
5	1222_4 (COS.sp.116 1670)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=20 0; FP-POS=4; LIFETIME-POS=L P4			400 Secs (400 Secs) [==>]	[1]	
<i>Comments: S/N of 60 per resel when FP-POS combined</i>										
6	1327_1 (COS.sp.116 1673)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 2; FP-POS=1; LIFETIME-POS=L P4; SEGMENT=BOTH			480 Secs (480 Secs) [==>]	[2]	
<i>Comments: S/N of 60 per resel @ 1250A when FP-POS combined</i>										
7	1327_2 (COS.sp.116 1673)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 2; FP-POS=2; LIFETIME-POS=L P4; SEGMENT=BOTH			480 Secs (480 Secs) [==>]	[2]	
<i>Comments: S/N of 60 per resel when FP-POS combined</i>										

Proposal 15682 - PG0832-LP4-resolution (51) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

8	1327_3 (COS.sp.116 1673)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 2; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH	480 Secs (480 Secs) [==>]	[2]
Comments: S/N of 60 per resel when FP-POS combined							
9	1327_4 (COS.sp.116 1673)	(1) PG0832+676	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 2; FP-POS=4; LIFETIME-POS=L P4; SEGMENT=BOTH	480 Secs (480 Secs) [==>]	[2]
Comments: S/N of 60 per resel when FP-POS combined							



Proposal 15682 - BD63_1964-LP4-resolution (02) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

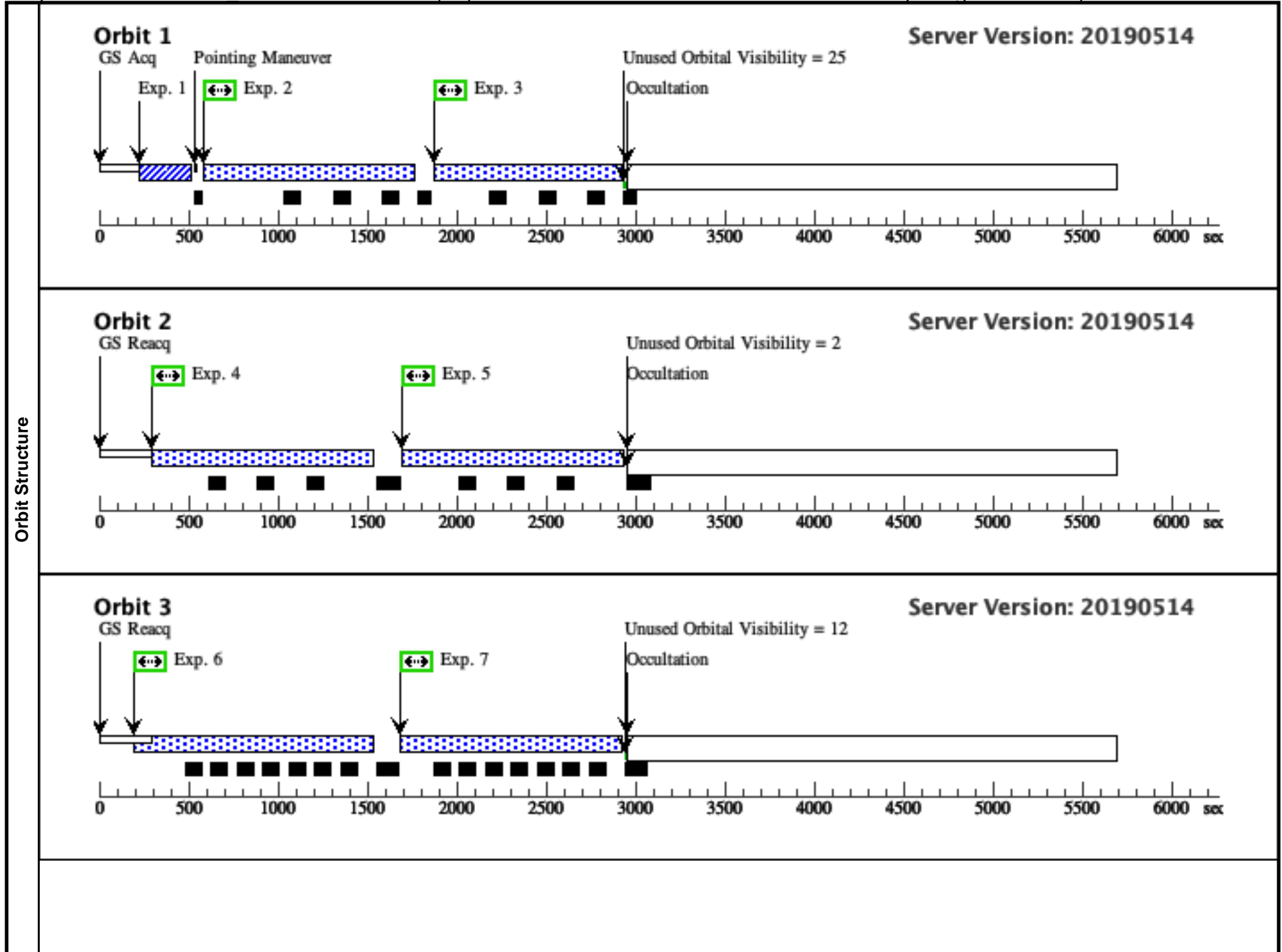
Visit	Proposal 15682, BD63_1964-LP4-resolution (02), failed Mon Nov 18 04:00:38 GMT 2019 Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(2)		BD+631964	RA: 23 17 21.5627 (349.3398446d) Dec: +64 07 16.17 (64.12116d) Equinox: J2000	Proper Motion RA: -6.765 mas/yr Proper Motion Dec: -0.753 mas/yr Epoch of Position: 2000	V=8.49	Reference Frame: ICRS
<i>Comments: Coordinates and proper motion information taken from SIMBAD: http://simbad.u-strasbg.fr/simbad/sim-id?Ident=BD%2B631964&NbIdent=1&Radius=2&Radius.unit=arcmin&submit=submit+id Gaia DR2. Category=STAR Description=[B0-B2 III-I] Extended=NO</i>						

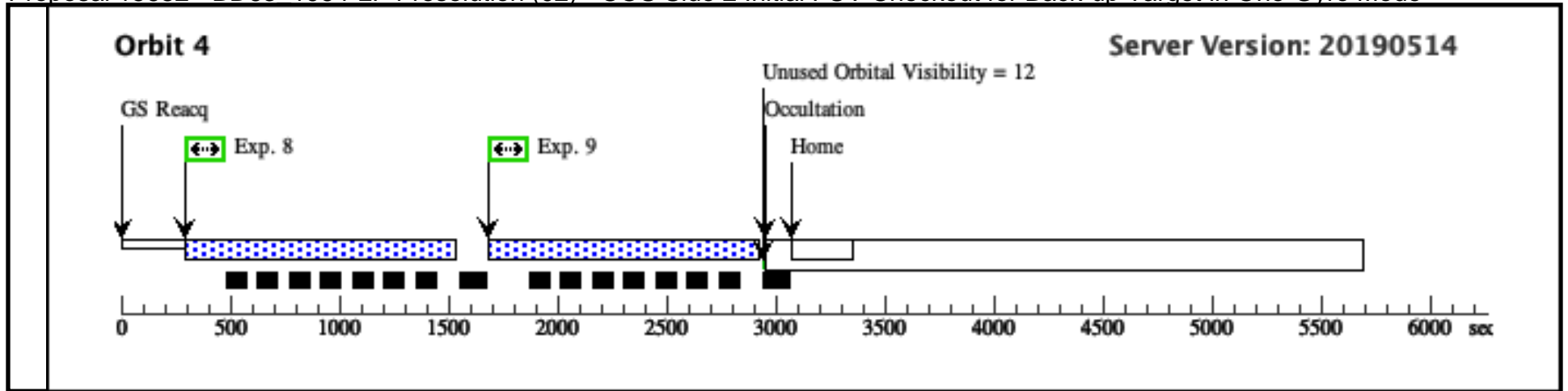
Proposal 15682 - BD63 1964-LP4-resolution (02) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	image_acq_ (2) BD+631964 boa (COS.ta.116 1678)	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				32 Secs (32 Secs) [==>]	[1]	
	<i>Comments: S/N of 40 reached</i>									
	2	1222_1 (2) BD+631964 (COS.sp.116 7582)	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 6; FP-POS=1; LIFETIME-POS=L P4			995 Secs (995 Secs) [==>]	[1]	
	<i>Comments: S/N of 40 per resel @ 1180A when FP-POS combined</i>									
	3	1222_2 (2) BD+631964 (COS.sp.116 7582)	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 6; FP-POS=2; LIFETIME-POS=L P4			995 Secs (995 Secs) [==>]	[1]	
	<i>Comments: S/N of 40 per resel @ 1180A when FP-POS combined</i>									
	4	1222_3 (2) BD+631964 (COS.sp.116 7582)	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 6; FP-POS=3; LIFETIME-POS=L P4			1190 Secs (1190 Secs) [==>]	[2]	
<i>Comments: S/N of 40 per resel @ 1180A when FP-POS combined</i>										
5	1222_4 (2) BD+631964 (COS.sp.116 7582)	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 6; FP-POS=4; LIFETIME-POS=L P4			1190 Secs (1190 Secs) [==>]	[2]		
<i>Comments: S/N of 40 per resel @ 1180A when FP-POS combined</i>										
6	1327_1 (2) BD+631964 (COS.sp.131 4278)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=14 5; FP-POS=1; LIFETIME-POS=L P4; SEGMENT=BOTH			1190 Secs (1190 Secs) [==>]	[3]		
<i>Comments: S/N of 50-60 per resel @ 1150A when FP-POS combined at 1180A ETC reports countrate exceeded for irregularly variable sources. Target is not variable.</i>										
7	1327_2 (2) BD+631964 (COS.sp.131 4278)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=14 5; FP-POS=2; LIFETIME-POS=L P4; SEGMENT=BOTH			1190 Secs (1190 Secs) [==>]	[3]		
<i>Comments: S/N of 50-60 per resel @ 1150A when FP-POS combined at 1180A</i>										

Proposal 15682 - BD63 1964-LP4-resolution (02) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

8	1327_3 (COS.sp.131 4278)	(2) BD+631964	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=14 5; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH	1190 Secs (1190 Secs)	[==>]	[4]
<i>Comments: S/N of 50-60 per resel @1150A when FP-POS combined at 1180A</i>								
9	1327_4 (COS.sp.131 4278)	(2) BD+631964	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=14 5; FP-POS=4; LIFETIME-POS=L P4; SEGMENT=BOTH	1190 Secs (1190 Secs)	[==>]	[4]
<i>Comments: S/N of 50-60 per resel @1150A when FP-POS combined at 1180A</i>								





Proposal 15682 - BD63_1964-LP4-resolution (52) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

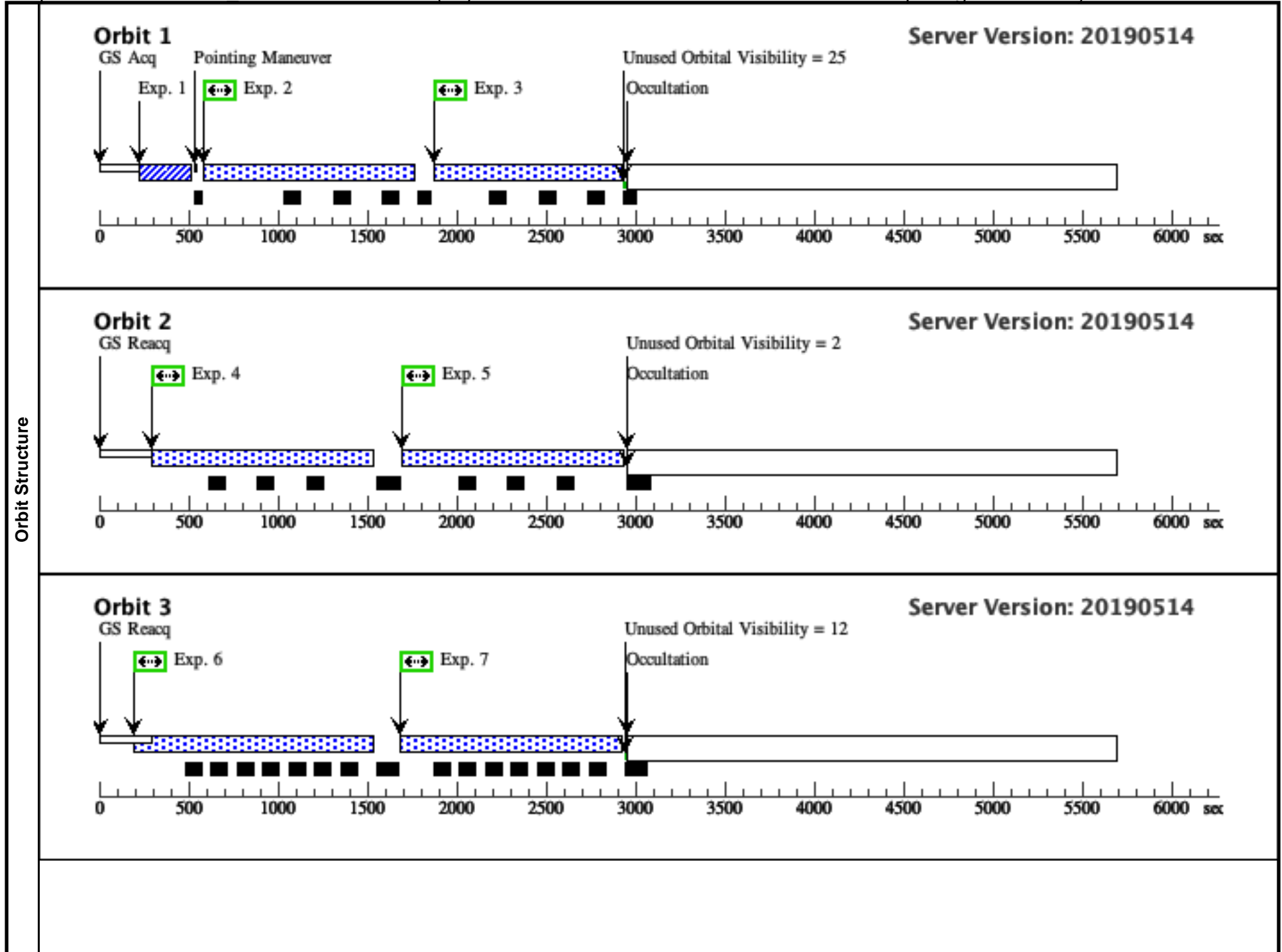
Visit	Proposal 15682, BD63_1964-LP4-resolution (52), failed Mon Nov 18 04:00:38 GMT 2019 Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(2)		BD+631964	RA: 23 17 21.5627 (349.3398446d) Dec: +64 07 16.17 (64.12116d) Equinox: J2000	Proper Motion RA: -6.765 mas/yr Proper Motion Dec: -0.753 mas/yr Epoch of Position: 2000	V=8.49	Reference Frame: ICRS
Comments: Coordinates and proper motion information taken from SIMBAD: http://simbad.u-strasbg.fr/simbad/sim-id?Ident=BD%2B631964&NbIdent=1&Radius=2&Radius.unit=arcmin&submit=submit+id Gaia DR2. Category=STAR Description=[B0-B2 III-I] Extended=NO						

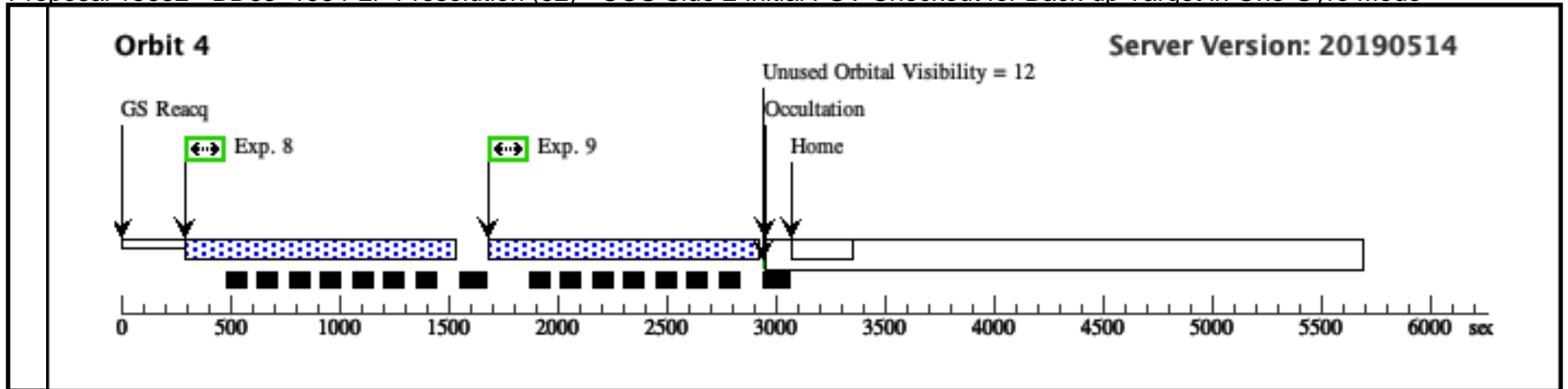
Proposal 15682 - BD63 1964-LP4-resolution (52) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	image_acq_ (2) BD+631964 boa (COS.ta.116 1678)	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				32 Secs (32 Secs) [==>]	[1]	
	<i>Comments: S/N of 40 reached</i>									
	2	1222_1 (2) BD+631964 (COS.sp.116 7582)	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 6; FP-POS=1; LIFETIME-POS=L P4			995 Secs (995 Secs) [==>]	[1]	
	<i>Comments: S/N of 40 per resel @ 1180A when FP-POS combined</i>									
	3	1222_2 (2) BD+631964 (COS.sp.116 7582)	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 6; FP-POS=2; LIFETIME-POS=L P4			995 Secs (995 Secs) [==>]	[1]	
	<i>Comments: S/N of 40 per resel @ 1180A when FP-POS combined</i>									
	4	1222_3 (2) BD+631964 (COS.sp.116 7582)	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 6; FP-POS=3; LIFETIME-POS=L P4			1190 Secs (1190 Secs) [==>]	[2]	
<i>Comments: S/N of 40 per resel @ 1180A when FP-POS combined</i>										
5	1222_4 (2) BD+631964 (COS.sp.116 7582)	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 6; FP-POS=4; LIFETIME-POS=L P4			1190 Secs (1190 Secs) [==>]	[2]		
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<i>Comments: S/N of 50-60 per resel @ 1150A when FP-POS combined at 1180A ETC reports countrate exceeded for irregularly variable sources. Target is not variable.</i>										
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<i>Comments: S/N of 50-60 per resel @ 1150A when FP-POS combined at 1180A</i>										

Proposal 15682 - BD63 1964-LP4-resolution (52) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

8	1327_3 (COS.sp.131 4278)	(2) BD+631964	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=14 5; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH	1190 Secs (1190 Secs)	[==>]	[4]
<i>Comments: S/N of 50-60 per resel @1150A when FP-POS combined at 1180A</i>								
9	1327_4 (COS.sp.131 4278)	(2) BD+631964	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=14 5; FP-POS=4; LIFETIME-POS=L P4; SEGMENT=BOTH	1190 Secs (1190 Secs)	[==>]	[4]
<i>Comments: S/N of 50-60 per resel @1150A when FP-POS combined at 1180A</i>								





Proposal 15682 - BD63_1964-LP4-resolution (53) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

Mon Nov 18 04:00:38 GMT 2019

Visit	Proposal 15682, BD63_1964-LP4-resolution (53) Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV, COS/NUV Special Requirements: SCHED 100%					
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
(2)		BD+631964	RA: 23 17 21.5627 (349.3398446d) Dec: +64 07 16.17 (64.12116d) Equinox: J2000	Proper Motion RA: -6.765 mas/yr Proper Motion Dec: -0.753 mas/yr Epoch of Position: 2000	V=8.49	Reference Frame: ICRS
<i>Comments: Coordinates and proper motion information taken from SIMBAD: http://simbad.u-strasbg.fr/simbad/sim-id?Ident=BD%2B631964&NbIdent=1&Radius=2&Radius.unit=arcmin&submit=submit+id Gaia DR2. Category=STAR Description=[B0-B2 III-I] Extended=NO</i>						

Proposal 15682 - BD63 1964-LP4-resolution (53) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
Exposures	1	image_acq_ (2) BD+631964 boa (COS.ta.116 1678)	COS/NUV, ACQ/IMAGE, BOA	MIRRORA				32 Secs (32 Secs) [==>]	[1]	
	<i>Comments: S/N of 40 reached</i>									
	2	1222_1 (2) BD+631964 (COS.sp.116 7582)	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 6; FP-POS=1; LIFETIME-POS=L P4			995 Secs (995 Secs) [==>]	[1]	
	<i>Comments: S/N of 40 per resel @ 1180A when FP-POS combined</i>									
	3	1222_2 (2) BD+631964 (COS.sp.116 7582)	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 6; FP-POS=2; LIFETIME-POS=L P4			995 Secs (995 Secs) [==>]	[1]	
	<i>Comments: S/N of 40 per resel @ 1180A when FP-POS combined</i>									
	4	1222_3 (2) BD+631964 (COS.sp.116 7582)	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 6; FP-POS=3; LIFETIME-POS=L P4			1190 Secs (1190 Secs) [==>]	[2]	
<i>Comments: S/N of 40 per resel @ 1180A when FP-POS combined</i>										
5	1222_4 (2) BD+631964 (COS.sp.116 7582)	COS/FUV, TIME-TAG, PSA	G130M 1222 A	BUFFER-TIME=27 6; FP-POS=4; LIFETIME-POS=L P4			1190 Secs (1190 Secs) [==>]	[2]		
<i>Comments: S/N of 40 per resel @ 1180A when FP-POS combined</i>										
6	1327_1 (2) BD+631964 (COS.sp.131 4278)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=14 5; FP-POS=1; LIFETIME-POS=L P4; SEGMENT=BOTH			1190 Secs (1190 Secs) [==>]	[3]		
<i>Comments: S/N of 50-60 per resel @ 1150A when FP-POS combined at 1180A ETC reports countrate exceeded for irregularly variable sources. Target is not variable.</i>										
7	1327_2 (2) BD+631964 (COS.sp.131 4278)	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=14 5; FP-POS=2; LIFETIME-POS=L P4; SEGMENT=BOTH			1190 Secs (1190 Secs) [==>]	[3]		
<i>Comments: S/N of 50-60 per resel @ 1150A when FP-POS combined at 1180A</i>										

Proposal 15682 - BD63 1964-LP4-resolution (53) - COS Side 2 Initial FUV Checkout for Back-up Target in One-Gyro Mode

8	1327_3 (COS.sp.131 4278)	(2) BD+631964	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=14 5; FP-POS=3; LIFETIME-POS=L P4; SEGMENT=BOTH	1190 Secs (1190 Secs)	[==>]	[4]
<i>Comments: S/N of 50-60 per resel @1150A when FP-POS combined at 1180A</i>								
9	1327_4 (COS.sp.131 4278)	(2) BD+631964	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=14 5; FP-POS=4; LIFETIME-POS=L P4; SEGMENT=BOTH	1190 Secs (1190 Secs)	[==>]	[4]
<i>Comments: S/N of 50-60 per resel @1150A when FP-POS combined at 1180A</i>								

