



17217 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Cycle: 30, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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Dr. Jason X. Prochaska (CoI)	University of California - Santa Cruz
Dr. Gordon T. Richards (CoI)	Drexel University

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) SDSSJ0804+1926	COS/FUV COS/NUV	1	07-Jun-2024 13:00:57.0	yes
02	(2) SDSSJ0914+2141	COS/FUV COS/NUV	1	07-Jun-2024 13:00:57.0	yes
03	(3) SDSSJ0916+2446	COS/FUV COS/NUV	1	07-Jun-2024 13:00:58.0	yes

Proposal 17217 (STScI Edit Number: 1, Created: Friday, June 7, 2024 at 12:01:08 PM Eastern Standard Time) - Overview

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
04	(4) SDSSJ0922+3032	COS/FUV COS/NUV	1	07-Jun-2024 13:00:58.0	yes
05	(5) SDSSJ0932+4606	COS/FUV COS/NUV	1	07-Jun-2024 13:00:59.0	yes
06	(6) SDSSJ1008+3225	COS/FUV COS/NUV	1	07-Jun-2024 13:01:00.0	yes
07	(7) SDSSJ1140+4326	COS/FUV COS/NUV	1	07-Jun-2024 13:01:00.0	yes
08	(8) SDSSJ1214+4048	COS/FUV COS/NUV	1	07-Jun-2024 13:01:01.0	yes
09	(9) SDSSJ1221+4228	COS/FUV COS/NUV	1	07-Jun-2024 13:01:01.0	yes
10	(10) SDSSJ1246+3126	COS/FUV COS/NUV	1	07-Jun-2024 13:01:02.0	yes
11	(11) SDSSJ1304+2055	COS/FUV COS/NUV	1	07-Jun-2024 13:01:02.0	yes
12	(12) SDSSJ1312+2551	COS/FUV COS/NUV	1	07-Jun-2024 13:01:03.0	yes
13	(13) SDSSJ1319+2718	COS/FUV COS/NUV	1	07-Jun-2024 13:01:04.0	yes
14	(14) SDSSJ1357+0750	COS/FUV COS/NUV	1	07-Jun-2024 13:01:04.0	yes
15	(15) SDSSJ1422+1411	COS/FUV COS/NUV	1	07-Jun-2024 13:01:05.0	yes
16	(16) SDSSJ1432-0148	COS/FUV COS/NUV	1	07-Jun-2024 13:01:05.0	yes
17	(17) SDSSJ1432+0515	COS/FUV COS/NUV	1	07-Jun-2024 13:01:06.0	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>
18	(18) SDSSJ1602+1410	COS/FUV COS/NUV	1	07-Jun-2024 13:01:07.0	yes
19	(19) SDSSJ1718+3042	COS/FUV COS/NUV	1	07-Jun-2024 13:01:07.0	yes
20	(20) SDSSJ2357+1554	COS/FUV COS/NUV	1	07-Jun-2024 13:01:08.0	yes

20 Total Orbits Used

ABSTRACT

Characterizing the peak of the spectral energy distribution of unobscured broad-line active galactic nuclei (BLAGN) in the extreme UV is key to understand accretion onto supermassive black holes, and to calculate the budget of ionizing photons produced by BLAGN over cosmic time. While theory predicts that the peak and shape of this so-called Big Blue Bump should change with black hole mass and luminosity, existing UV composite spectra of BLAGN are either based on simplistic aggregates of archival data or just on luminous quasars. We propose the first dedicated spectroscopic survey to study the Big Blue Bump of low-luminosity BLAGN with HST/COS. Limited archival data on five mostly serendipitously observed objects reveal typical BLAGN UV continua, one of which is truncated by Lyman continuum absorption of neutral gas in the host environment. This may support limited indications from photometry that the Lyman continuum escape fraction of faint BLAGN is no longer unity. Leveraging a uniform SDSS sample of 20 low-redshift ($0.27 < z < 0.40$) low-luminosity ($-21 < M_{1450} < -20.6$) BLAGN we request 20 orbits of HST/COS to (1) Characterize their average extreme UV spectrum, (2) Test predictions from AGN accretion disk models that the peak of the Big Blue Bump changes significantly within our sample that spans a range in black hole mass and Eddington ratio, and (3) Determine the average Lyman continuum escape fraction of low-luminosity BLAGN. Finding significant Lyman continuum emission in these local analogs of $z > 4$ BLAGN discovered in recent surveys would demand an increased contribution of BLAGN to the UV background, and possibly to reionization.

OBSERVING DESCRIPTION

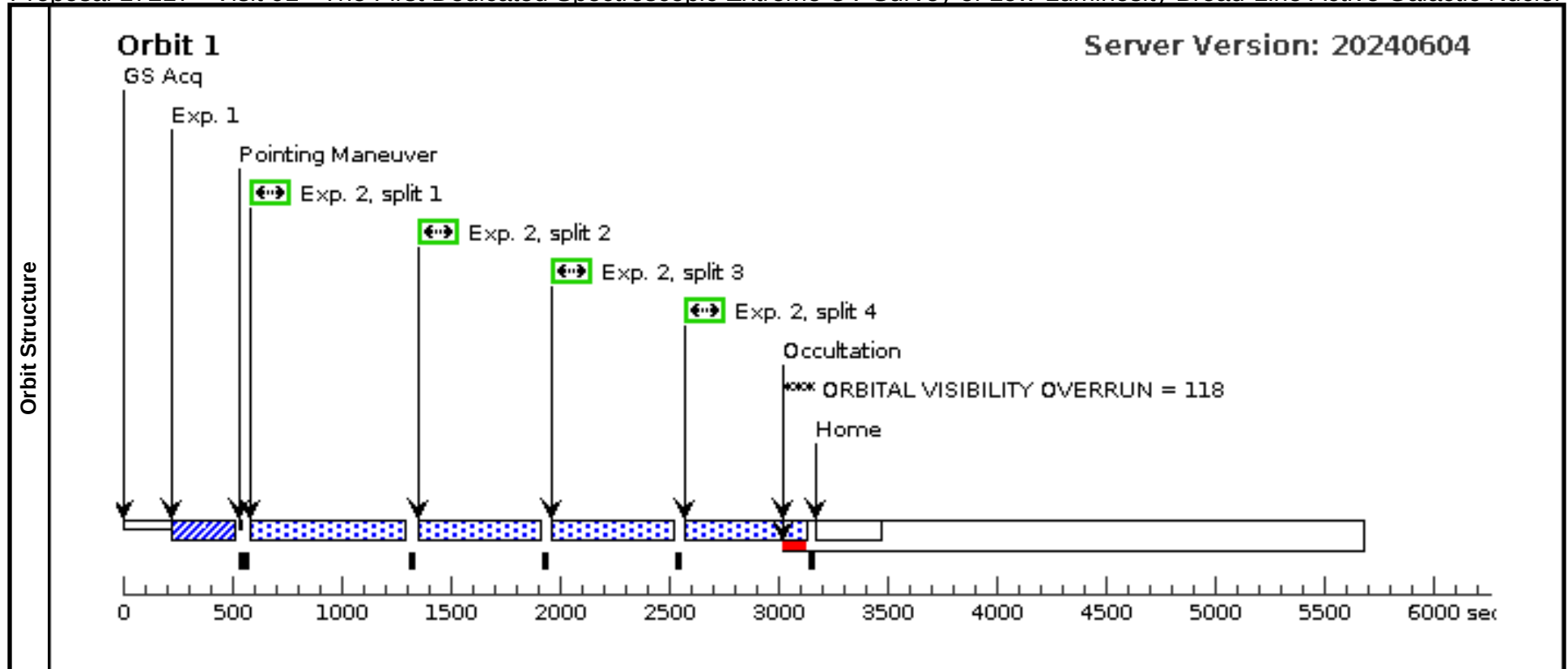
We will obtain COS FUV G140L spectra of 20 low-luminosity broad-line active galactic nuclei at $z \sim 0.3$ to measure their Lyman continuum properties. All targets have sufficiently accurate GALEX FUV and NUV magnitudes, and are safe to observe with COS. Their SDSS coordinates are accurate enough for efficient acquisition with ACQ/IMAGE. Due to our restriction to compact SDSS sources we expect that the NUV image is dominated by the central point source. To account for minor host galaxy light we aim at a point-source S/N= 40 instead of the minimum of 20,

yielding acquisition exposure times between 25 and 75 seconds. The COS G140L grating offers the required broad spectral coverage, while resolving the Lyman break region and the broad UV emission lines. We will employ the 800A setting to contiguously cover the Lyman continuum of our targets at all FP-POS offsets. With realistic COS mock spectra ($S/N=8-10$ per Angstrom at the Lyman limit in the AGN rest frame obtained in a 2000 seconds spectroscopic exposure) we verified our ability to discriminate between Lyman continuum escape fractions of unity and <0.7 for individual AGN. Stacking the 20 spectra we recover the mean AGN UV spectrum to better than 5-10% in the Lyman continuum, while probing $\sim 10\%$ deviations from unit escape fraction for the low-luminosity AGN population. Spectra will be recorded in TIME-TAG mode with concurrent wavelength calibration (TAGFLASH), and at all FP-POS offsets to correct for COS detector blemishes. Time intervals spent in the Earth's shadow will be used to correct for geocoronal OI and NI emission. Given our faint sources, airglow will dominate the COS count rates. However, even at the high airglow conditions conservatively assumed in our spectroscopic ETC calculations, the buffer time is longer than the exposure time. We have set all buffer times to 4800 seconds, filling the overhead between FP-POS moves. All exposure times have been adjusted to use the full visibility period in each orbit.

Reduced gyro operations will not affect our program, because our visits have no orientation constraints. APT indicates a sufficient number of scheduling windows for our one-orbit visits.

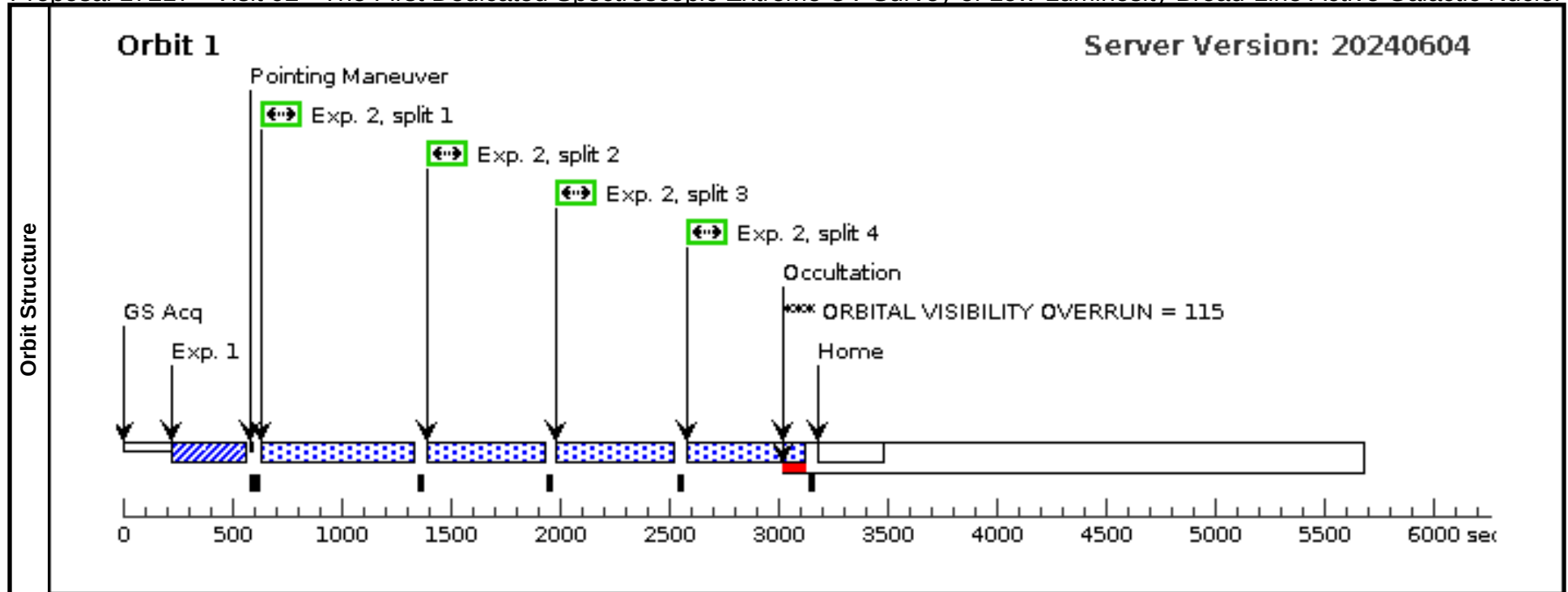
Proposal 17217 - Visit 01 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 01, completed										Fri Jun 07 17:01:08 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(Visit 01) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous					
	(1)	SDSSJ0804+1926	RA: 08 04 22.6190 (121.0942458d) Dec: +19 26 38.74 (19.44409d) Equinox: J2000		Redshift: 0.2788		V=19.2+/-0.1 GALEX FUV=20.19+/-0.22 NU V=19.97+/-0.12		Reference Frame: ICRS					
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0740)	(1) SDSSJ0804+1926	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				40 Secs (40 Secs)				
										[==>]		[1]		
	2	(COS.sp.181 0766)	(1) SDSSJ0804+1926	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=4800; FLASH=YES; FP-POS=ALL			600 Secs (2016 Secs)				
										[==>504.0 Secs (Split 1)]		[1]		
										[==>504.0 Secs (Split 2)]				
[==>504.0 Secs (Split 3)]														
[==>504.0 Secs (Split 4)]														



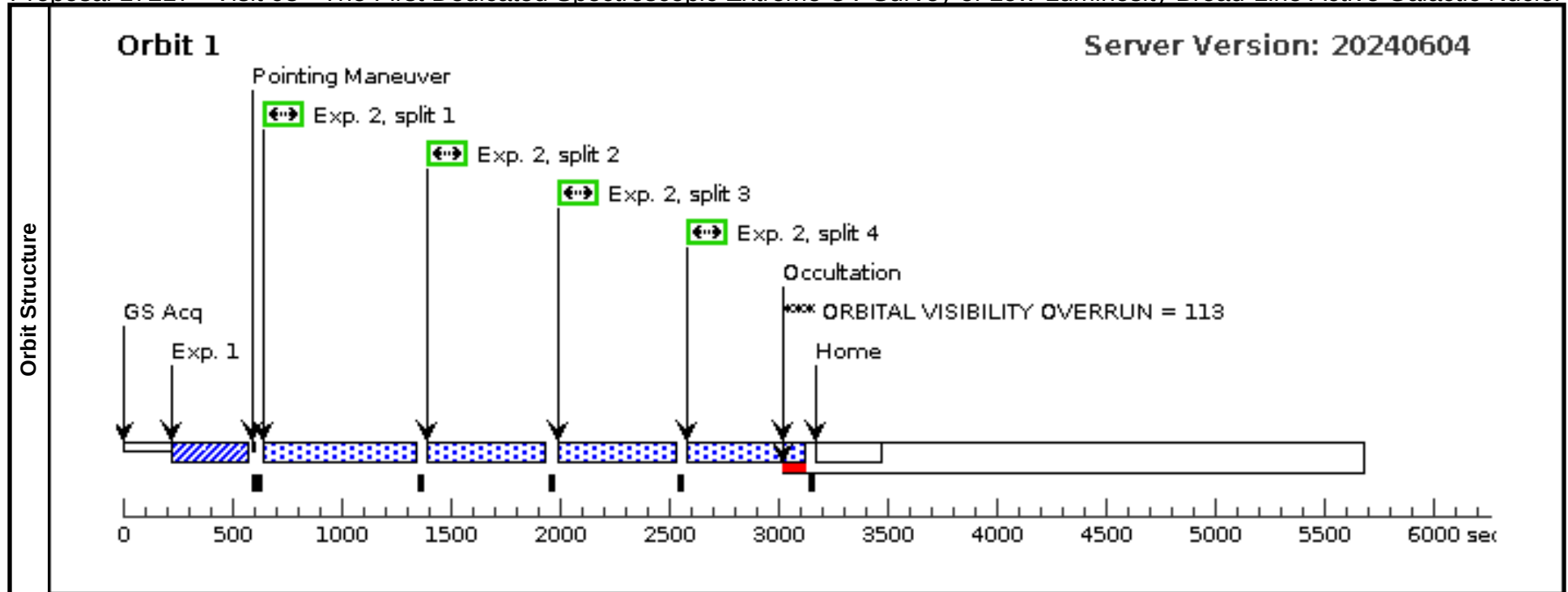
Proposal 17217 - Visit 02 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 02, completed										Fri Jun 07 17:01:08 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnos	(Visit 02) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(2)	SDSSJ0914+2141	RA: 09 14 43.5718 (138.6815492d) Dec: +21 41 33.87 (21.69274d) Equinox: J2000		Redshift: 0.3989		V=19.6+/-0.1 GALEX FUV=21.43+/-0.30 NU V=20.53+/-0.14		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.181 0744)	(2) SDSSJ0914+2141	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				65 Secs (65 Secs)		
			1							[==>]		[1]
	2	(COS.sp.181 0768)	(2) SDSSJ0914+2141	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=48 00; FLASH=YES; FP-POS=ALL			600 Secs (1968 Secs)		
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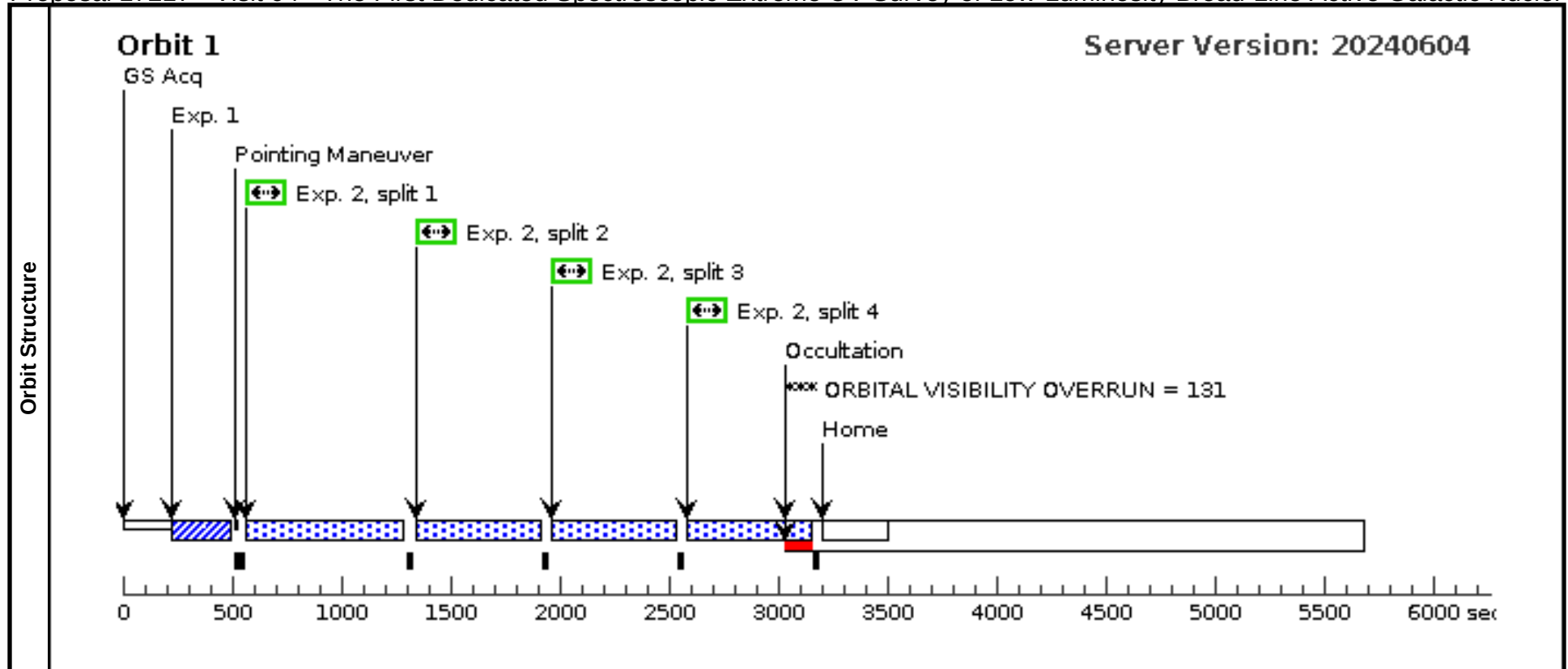
Proposal 17217 - Visit 03 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 03, completed										Fri Jun 07 17:01:08 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnos	(Visit 03) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous					
	(3)	SDSSJ0916+2446	RA: 09 16 16.0656 (139.0669400d) Dec: +24 46 23.02 (24.77306d) Equinox: J2000		Redshift: 0.3916		V=19.6+/-0.1 GALEX FUV=21.01+/-0.25 NU V=20.66+/-0.06		Reference Frame: ICRS					
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0746)	(3) SDSSJ0916+244 6	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				70 Secs (70 Secs)				
										[==>]		[1]		
	2	(COS.sp.181 0769)	(3) SDSSJ0916+244 6	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=48 00; FLASH=YES; FP-POS=ALL			600 Secs (1956 Secs)				
										[==>489.0 Secs (Split 1)] [==>489.0 Secs (Split 2)] [==>489.0 Secs (Split 3)] [==>489.0 Secs (Split 4)]		[1]		



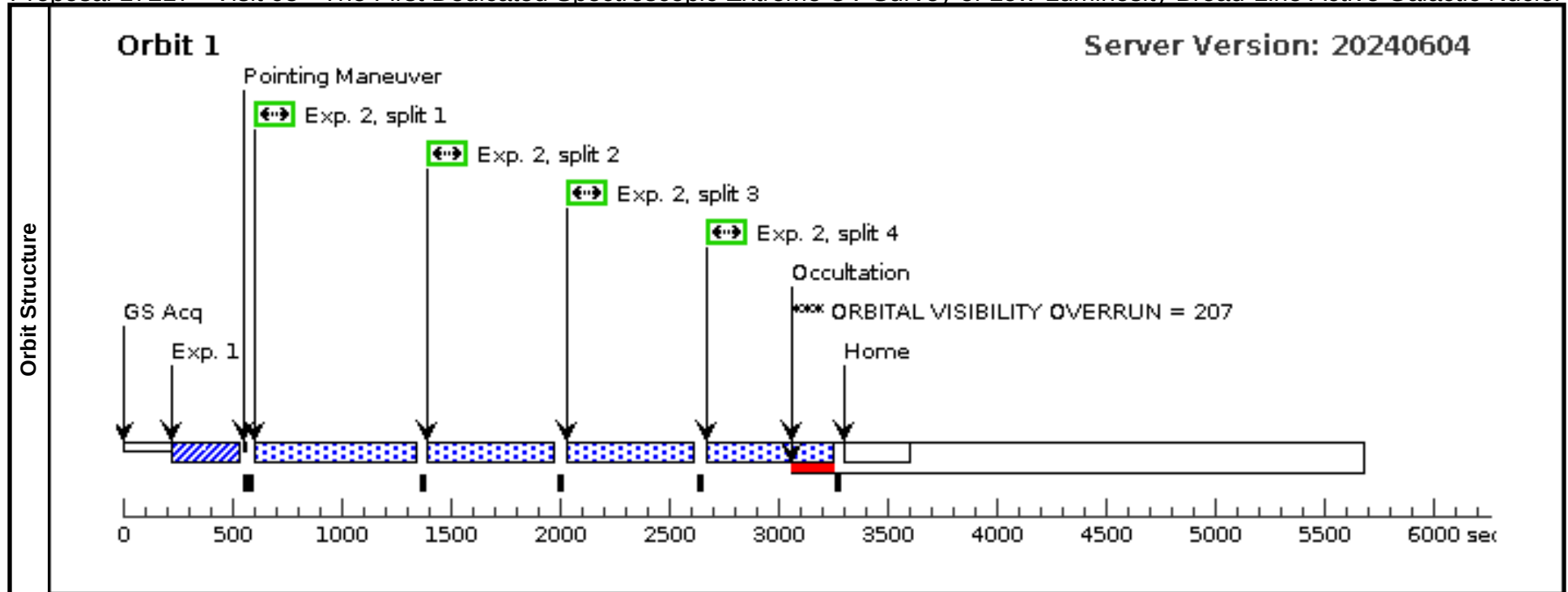
Proposal 17217 - Visit 04 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 04, completed										Fri Jun 07 17:01:08 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnos	(Visit 04) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous					
	(4)	SDSSJ0922+3032	RA: 09 22 45.1171 (140.6879879d)		Redshift: 0.2873		V=18.7+/-0.1		Reference Frame: ICRS					
			Dec: +30 32 58.35 (30.54954d)				GALEX FUV=19.16+/-0.09 NU							
			Equinox: J2000				V=19.71+/-0.01							
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0747)	(4) SDSSJ0922+3032	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				30 Secs (30 Secs)				
			2							[==>]		[1]		
	2	(COS.sp.181 0770)	(4) SDSSJ0922+3032	COS/FUV, TIME-TAG, PSA		G140L	BUFFER-TIME=4800;			600 Secs (2060 Secs)				
			2			800 A	FLASH=YES; FP-POS=ALL			[==>515.0 Secs (Split 1)] [==>515.0 Secs (Split 2)] [==>515.0 Secs (Split 3)] [==>515.0 Secs (Split 4)]		[1]		



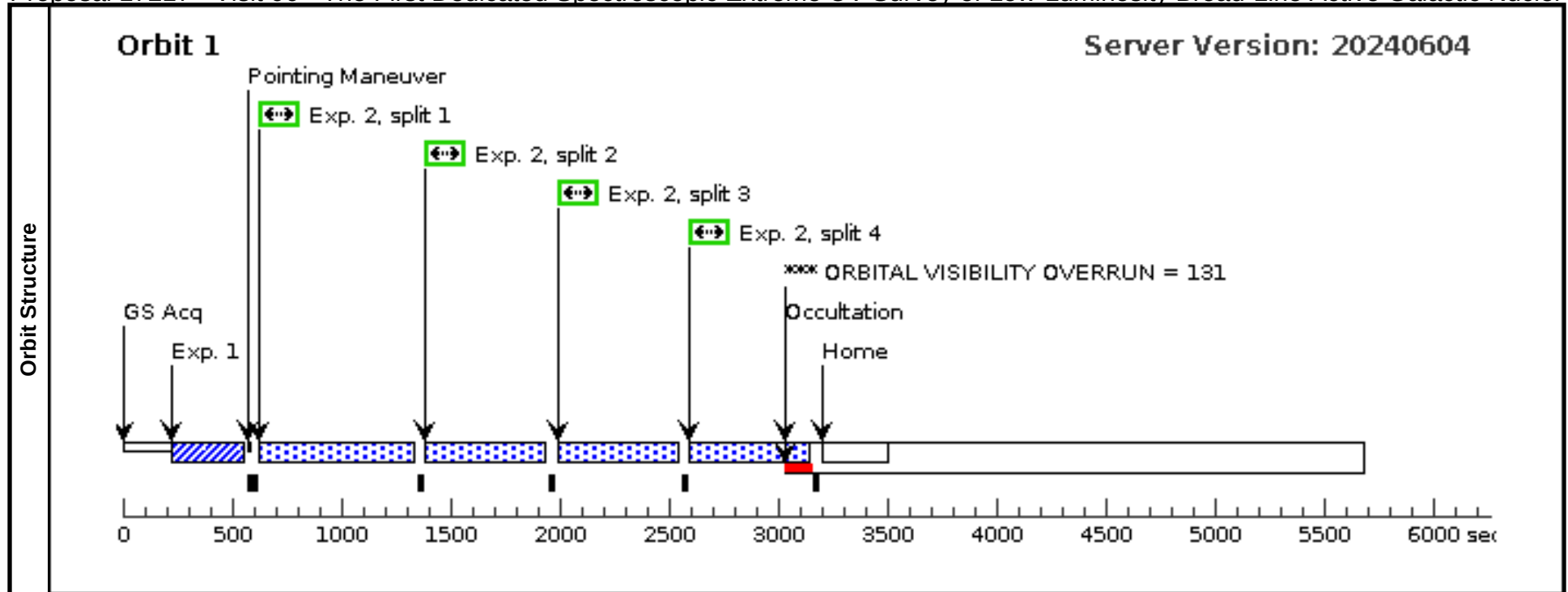
Proposal 17217 - Visit 05 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 05, completed										Fri Jun 07 17:01:08 GMT 2024	
	Diagnostic Status: Warning											
	Scientific Instruments: COS/FUV, COS/NUV											
	Special Requirements: (none)											
Diagnos	(Visit 05) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(5)	SDSSJ0932+4606	RA: 09 32 19.0759 (143.0794829d)		Redshift: 0.3906		V=19.4+/-0.1		Reference Frame: ICRS			
			Dec: +46 06 47.64 (46.11323d)				GALEX FUV=20.41+/-0.20 NU					
			Equinox: J2000				V=20.24+/-0.14					
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO											
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	(COS.ta.181 0748)	(5) SDSSJ0932+4606	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				50 Secs (50 Secs)		
			6							[==>]		[1]
	2	(COS.sp.181 0771)	(5) SDSSJ0932+4606	COS/FUV, TIME-TAG, PSA		G140L	BUFFER-TIME=48			600 Secs (2124 Secs)		
			6			800 A	00; FLASH=YES; FP-POS=ALL			[==>531.0 Secs (Split 1)] [==>531.0 Secs (Split 2)] [==>531.0 Secs (Split 3)] [==>531.0 Secs (Split 4)]		[1]



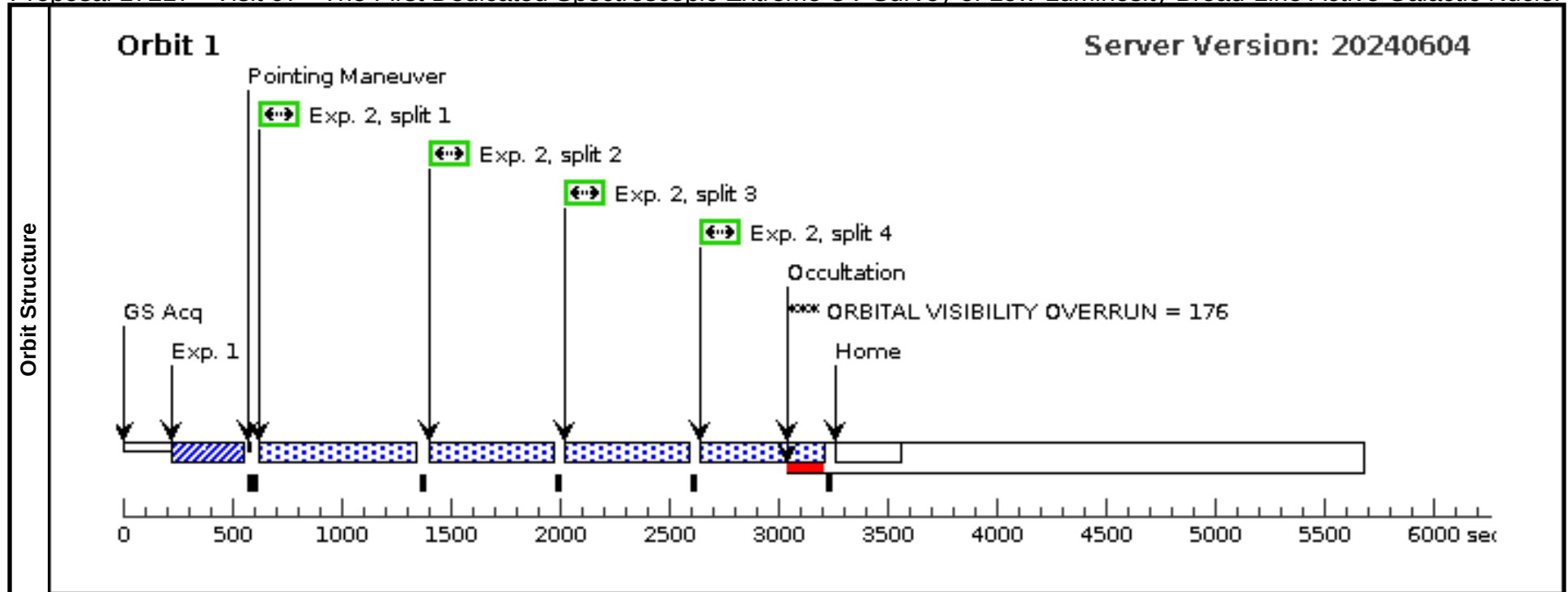
Proposal 17217 - Visit 06 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 06, completed										Fri Jun 07 17:01:08 GMT 2024		
	Diagnostic Status: Warning												
	Scientific Instruments: COS/FUV, COS/NUV												
	Special Requirements: (none)												
Diagnos	(Visit 06) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN												
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous				
	(6)	SDSSJ1008+3225	RA: 10 08 56.6052 (152.2358550d)		Redshift: 0.3943		V=19.3+/-0.1		Reference Frame: ICRS				
			Dec: +32 25 37.61 (32.42711d)				GALEX FUV=20.87+/-0.30 NU						
			Equinox: J2000				V=20.50+/-0.18						
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(COS.ta.181 0749)	(6) SDSSJ1008+3225	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				60 Secs (60 Secs)			
										[==>]		[1]	
	2	(COS.sp.181 0772)	(6) SDSSJ1008+3225	COS/FUV, TIME-TAG, PSA		G140L	BUFFER-TIME=4800;				600 Secs (2000 Secs)		
						800 A	FLASH=YES; FP-POS=ALL				[==>500.0 Secs (Split 1)] [==>500.0 Secs (Split 2)] [==>500.0 Secs (Split 3)] [==>500.0 Secs (Split 4)]		[1]



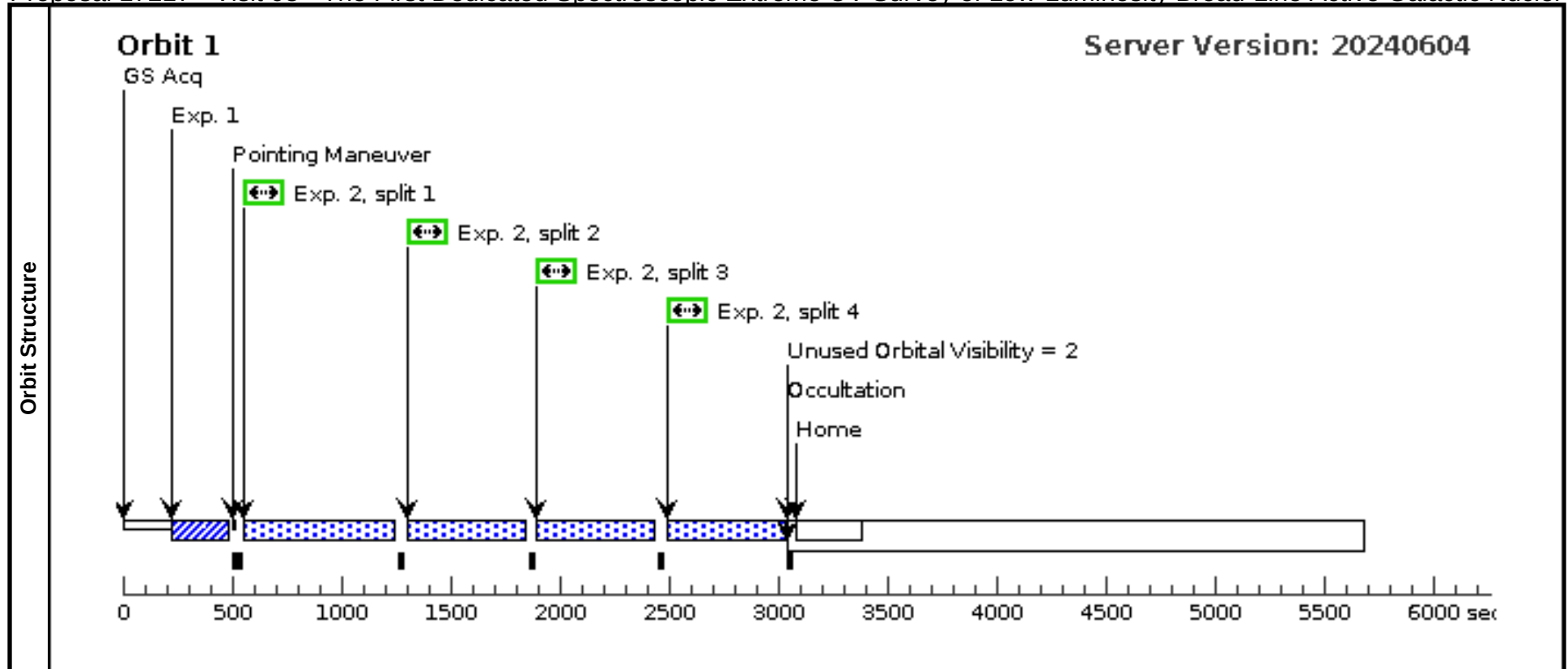
Proposal 17217 - Visit 07 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 07, completed										Fri Jun 07 17:01:08 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnos	(Visit 07) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(7)	SDSSJ1140+4326	RA: 11 40 4.0138 (175.0167242d) Dec: +43 26 5.63 (43.43490d) Equinox: J2000			Redshift: 0.3940			V=19.5+/-0.1 GALEX FUV=21.14+/-0.29 NU V=20.52+/-0.18		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0750)	(7) SDSSJ1140+4326	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				60 Secs (60 Secs)				
			6							[==>]		[1]		
	2	(COS.sp.181 0773)	(7) SDSSJ1140+4326	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=4800; FLASH=YES; FP-POS=ALL			600 Secs (2060 Secs)				
			6							[==>515.0 Secs (Split 1)] [==>515.0 Secs (Split 2)] [==>515.0 Secs (Split 3)] [==>515.0 Secs (Split 4)]		[1]		



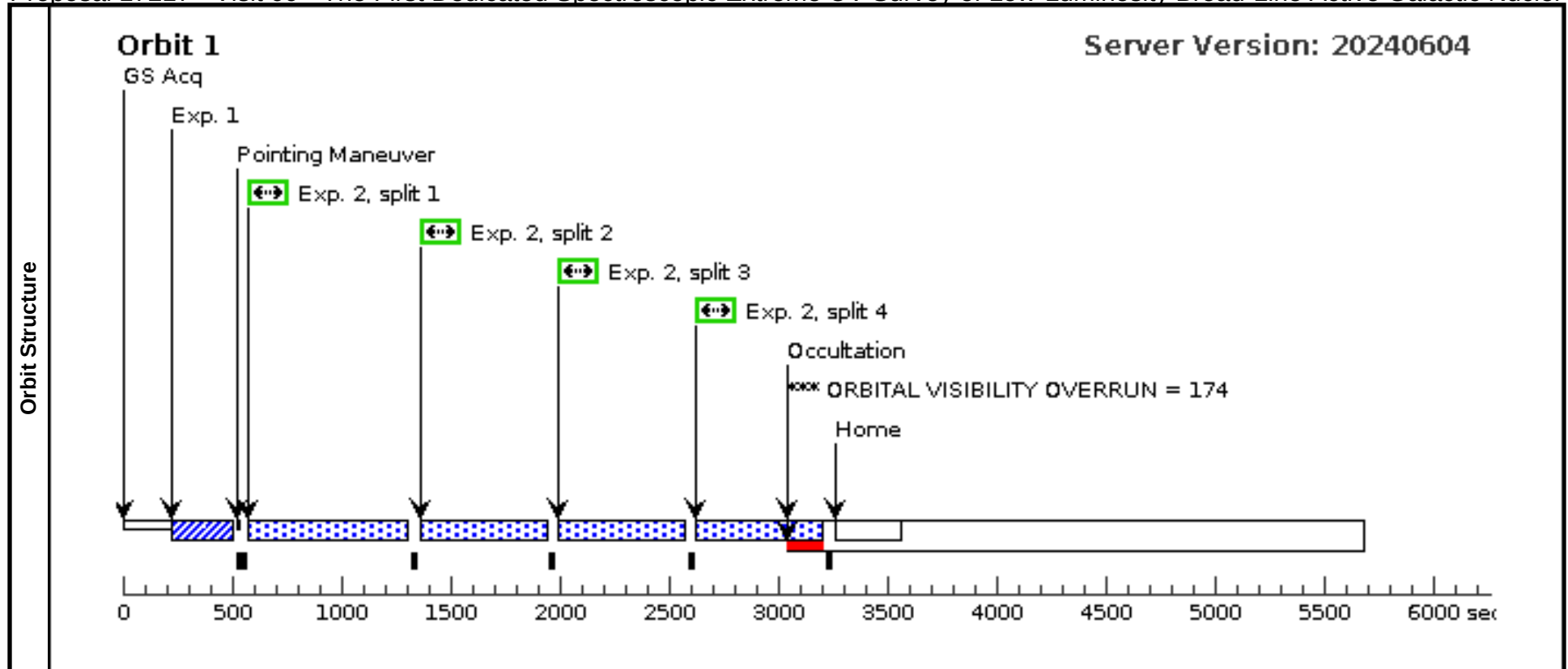
Proposal 17217 - Visit 08 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 08, implementation										Fri Jun 07 17:01:08 GMT 2024		
	Diagnostic Status: No Diagnostics												
	Scientific Instruments: COS/FUV, COS/NUV												
	Special Requirements: (none)												
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous		
	(8)	SDSSJ1214+4048	RA: 12 14 1.3476 (183.5056150d) Dec: +40 48 22.89 (40.80636d) Equinox: J2000			Redshift: 0.2769			V=18.5+/-0.1 GALEX FUV=20.01+/-0.18 NU V=19.52+/-0.09		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO												
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(COS.ta.181 0751)	(8) SDSSJ1214+404 8	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				25 Secs (25 Secs)			
										[==>]		[1]	
	2	(COS.sp.181 0775)	(8) SDSSJ1214+404 8	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=48 00;	FLASH=YES; FP-POS=ALL			600 Secs (1952 Secs)		
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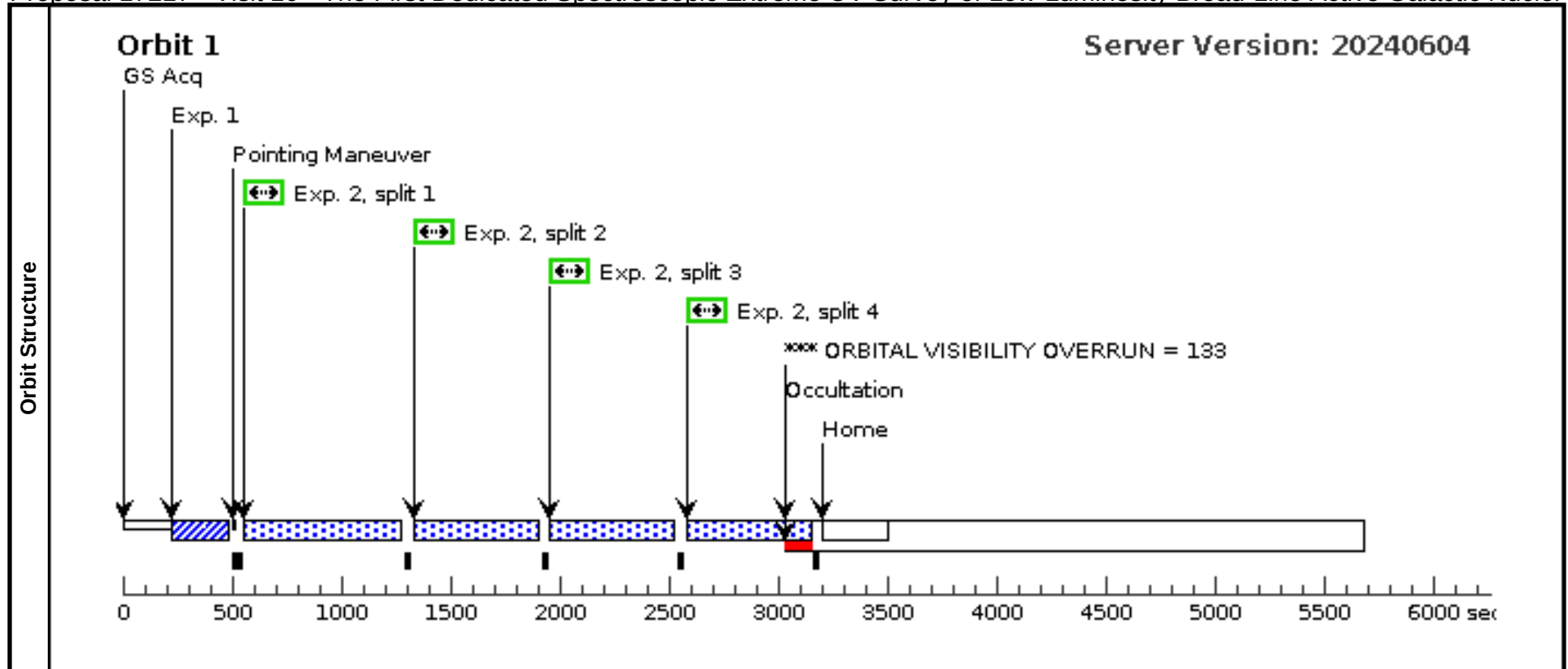
Proposal 17217 - Visit 09 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 09, completed										Fri Jun 07 17:01:08 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnos	(Visit 09) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(9)	SDSSJ1221+4228	RA: 12 21 8.9318 (185.2872158d) Dec: +42 28 39.21 (42.47756d) Equinox: J2000			Redshift: 0.2881			V=19.0+/-0.1 GALEX FUV=20.09+/-0.19 NU V=19.79+/-0.11		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0752)	(9) SDSSJ1221+4228	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				35 Secs (35 Secs)				
			8							[==>]		[1]		
	2	(COS.sp.181 0776)	(9) SDSSJ1221+4228	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=4800; FLASH=YES; FP-POS=ALL			600 Secs (2108 Secs)				
			8							[==>527.0 Secs (Split 1)] [==>527.0 Secs (Split 2)] [==>527.0 Secs (Split 3)] [==>527.0 Secs (Split 4)]		[1]		



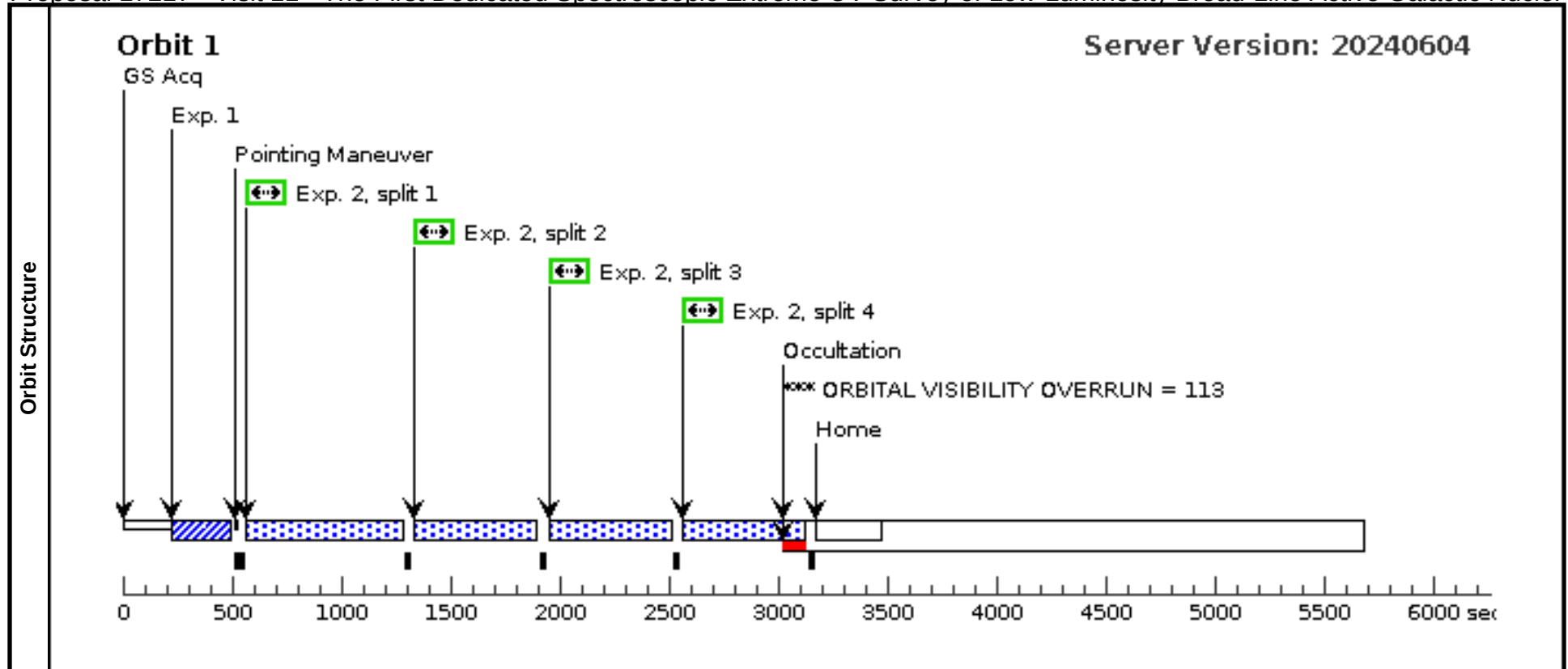
Proposal 17217 - Visit 10 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 10, completed										Fri Jun 07 17:01:08 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(Visit 10) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous					
	(10)	SDSSJ1246+3126	RA: 12 46 59.2750 (191.7469792d)		Redshift: 0.2767		V=18.7+/-0.1		Reference Frame: ICRS					
			Dec: +31 26 19.71 (31.43881d)				GALEX FUV=19.27+/-0.10 NU							
			Equinox: J2000				V=19.45+/-0.02							
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0753)	(10) SDSSJ1246+31 26	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				25 Secs (25 Secs)				
										[==>]		[1]		
	2	(COS.sp.181 0777)	(10) SDSSJ1246+31 26	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=48 00;			600 Secs (2072 Secs)				
							FLASH=YES;			[==>518.0 Secs (Split 1)]		[1]		
							FP-POS=ALL			[==>518.0 Secs (Split 2)]				
									[==>518.0 Secs (Split 3)]					
										[==>518.0 Secs (Split 4)]				



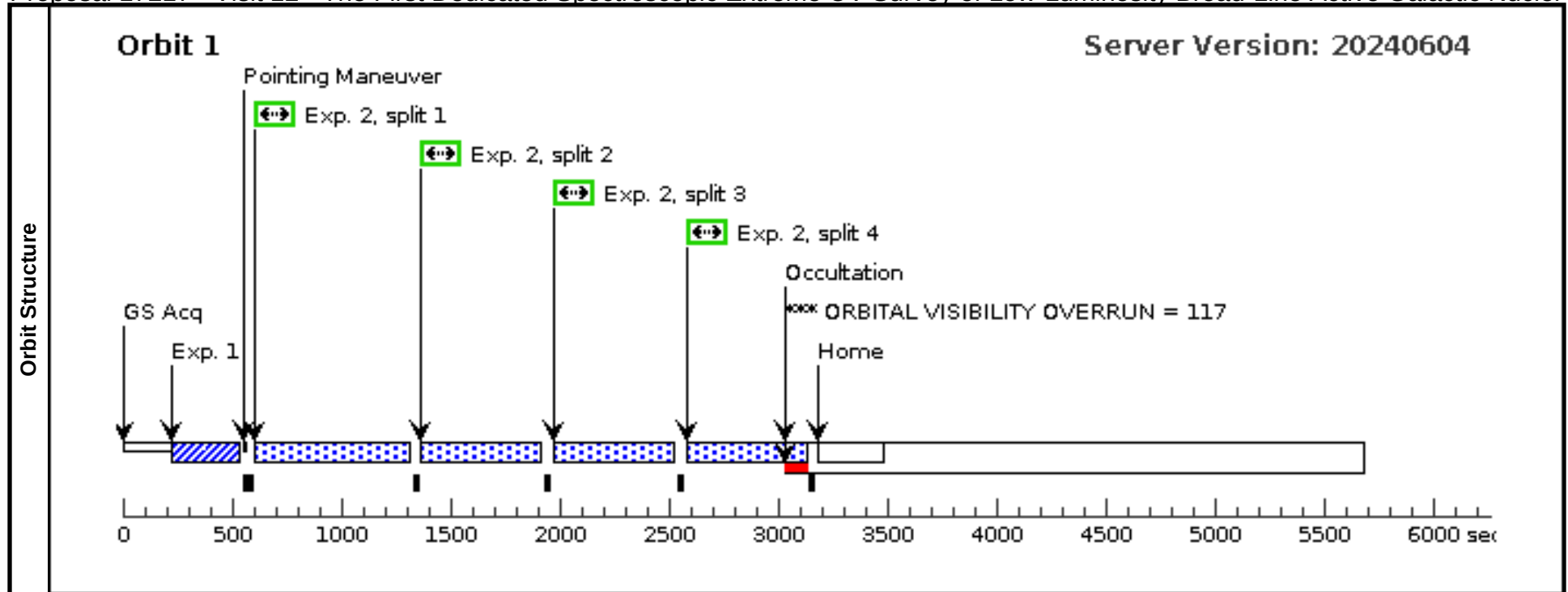
Proposal 17217 - Visit 11 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 11, completed										Fri Jun 07 17:01:08 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(Visit 11) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(11)	SDSSJ1304+2055	RA: 13 04 22.8845 (196.0953521d) Dec: +20 55 10.30 (20.91953d) Equinox: J2000			Redshift: 0.2824			V=19.4+/-0.1 GALEX FUV=19.72+/-0.15 NU V=19.73+/-0.08		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0754)	(11) SDSSJ1304+20 55	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				30 Secs (30 Secs)				
										[==>]		[1]		
	2	(COS.sp.181 0778)	(11) SDSSJ1304+20 55	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=48 00; FLASH=YES; FP-POS=ALL			600 Secs (2036 Secs)				
										[==>509.0 Secs (Split 1)] [==>509.0 Secs (Split 2)] [==>509.0 Secs (Split 3)] [==>509.0 Secs (Split 4)]		[1]		



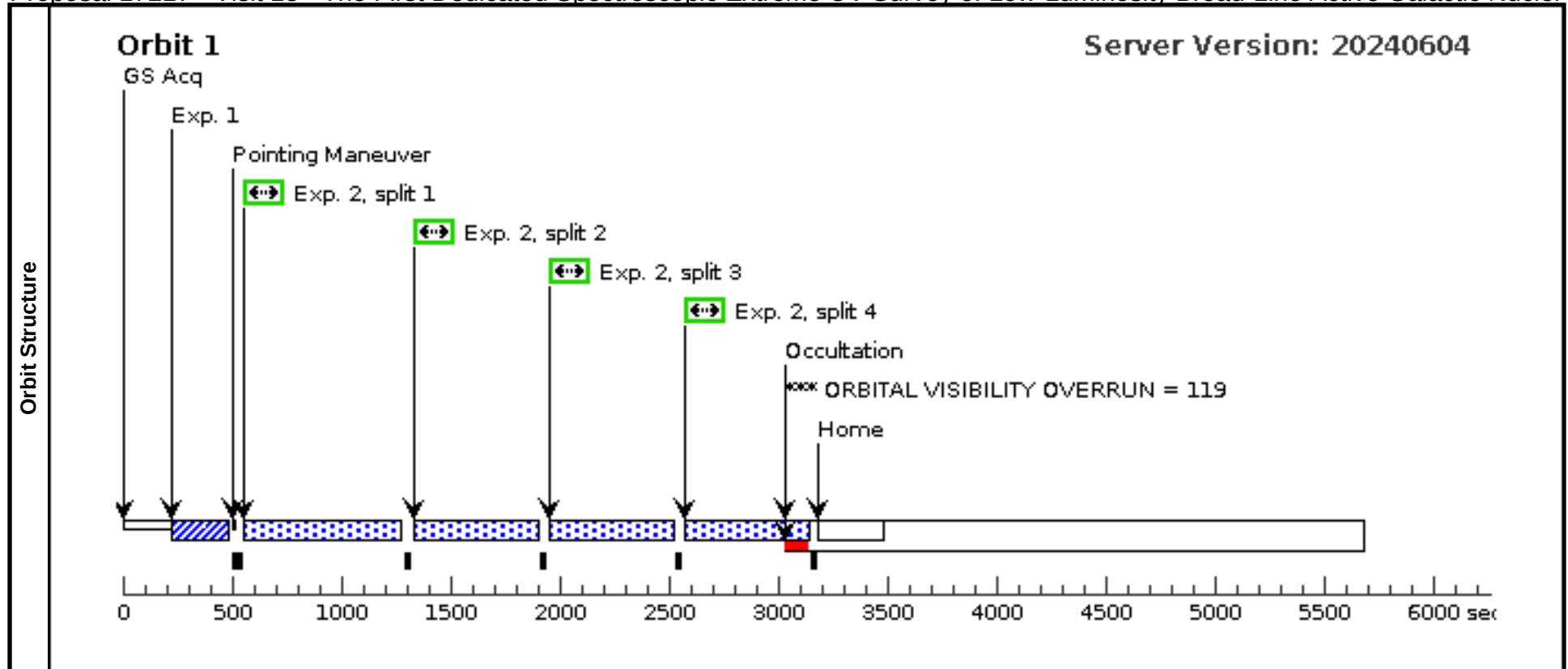
Proposal 17217 - Visit 12 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 12, completed										Fri Jun 07 17:01:08 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnos	(Visit 12) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(12)	SDSSJ1312+2551	RA: 13 12 58.8427 (198.2451779d)			Redshift: 0.3915			V=19.6+/-0.1		Reference Frame: ICRS			
			Dec: +25 51 43.42 (25.86206d)						GALEX FUV=21.40+/-0.30 NU					
			Equinox: J2000						V=20.23+/-0.12					
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit	
	1	(COS.ta.181 0755)	(12) SDSSJ1312+25 51	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				50 Secs (50 Secs)				
										[==>]			[1]	
	2	(COS.sp.181 0779)	(12) SDSSJ1312+25 51	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=48 00;			600 Secs (2004 Secs)				
							FLASH=YES;			[==>501.0 Secs (Split 1)] [==>501.0 Secs (Split 2)] [==>501.0 Secs (Split 3)] [==>501.0 Secs (Split 4)]			[1]	
						FP-POS=ALL								



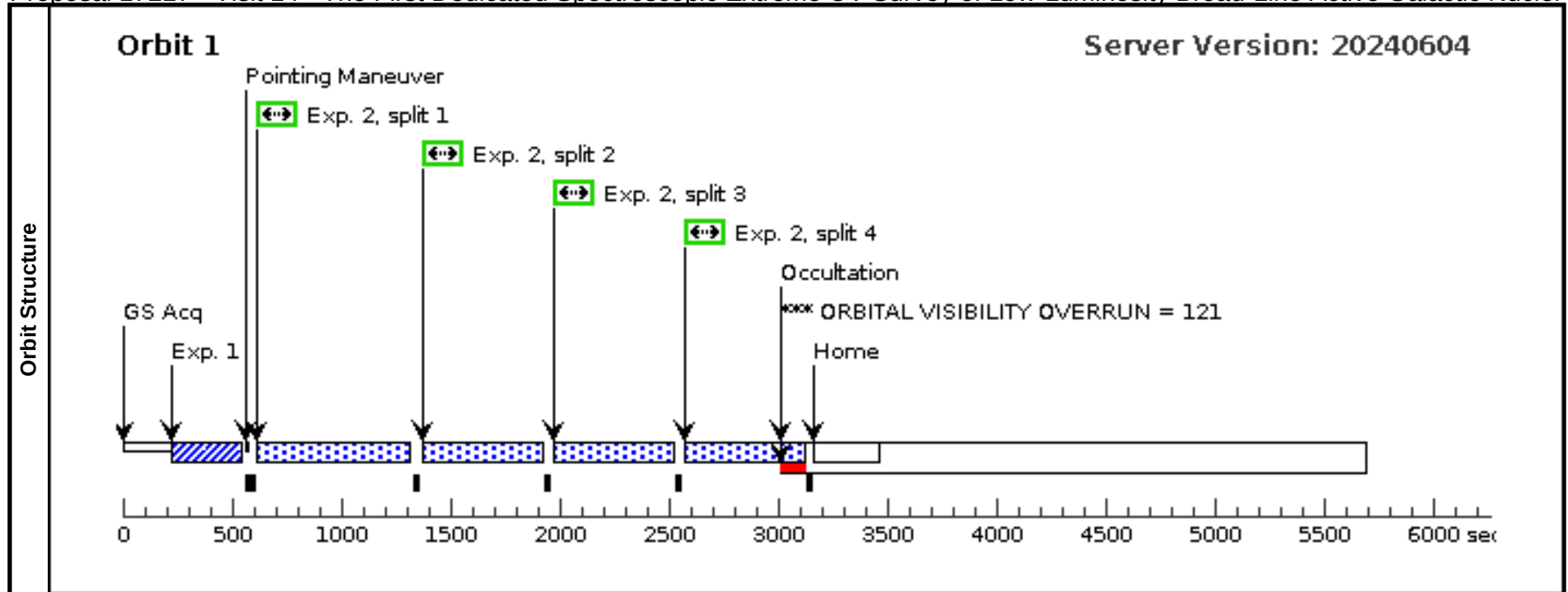
Proposal 17217 - Visit 13 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 13, completed										Fri Jun 07 17:01:09 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(Visit 13) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(13)	SDSSJ1319+2718	RA: 13 19 7.8295 (199.7826229d) Dec: +27 18 28.07 (27.30780d) Equinox: J2000			Redshift: 0.2839			V=19.1+/-0.1 GALEX FUV=19.98+/-0.13 NU V=19.59+/-0.09		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0756)	(13) SDSSJ1319+27 18	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				25 Secs (25 Secs)				
										[==>]		[1]		
	2	(COS.sp.181 0780)	(13) SDSSJ1319+27 18	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=48 00; FLASH=YES; FP-POS=ALL			600 Secs (2056 Secs)				
										[==>514.0 Secs (Split 1)] [==>514.0 Secs (Split 2)] [==>514.0 Secs (Split 3)] [==>514.0 Secs (Split 4)]		[1]		



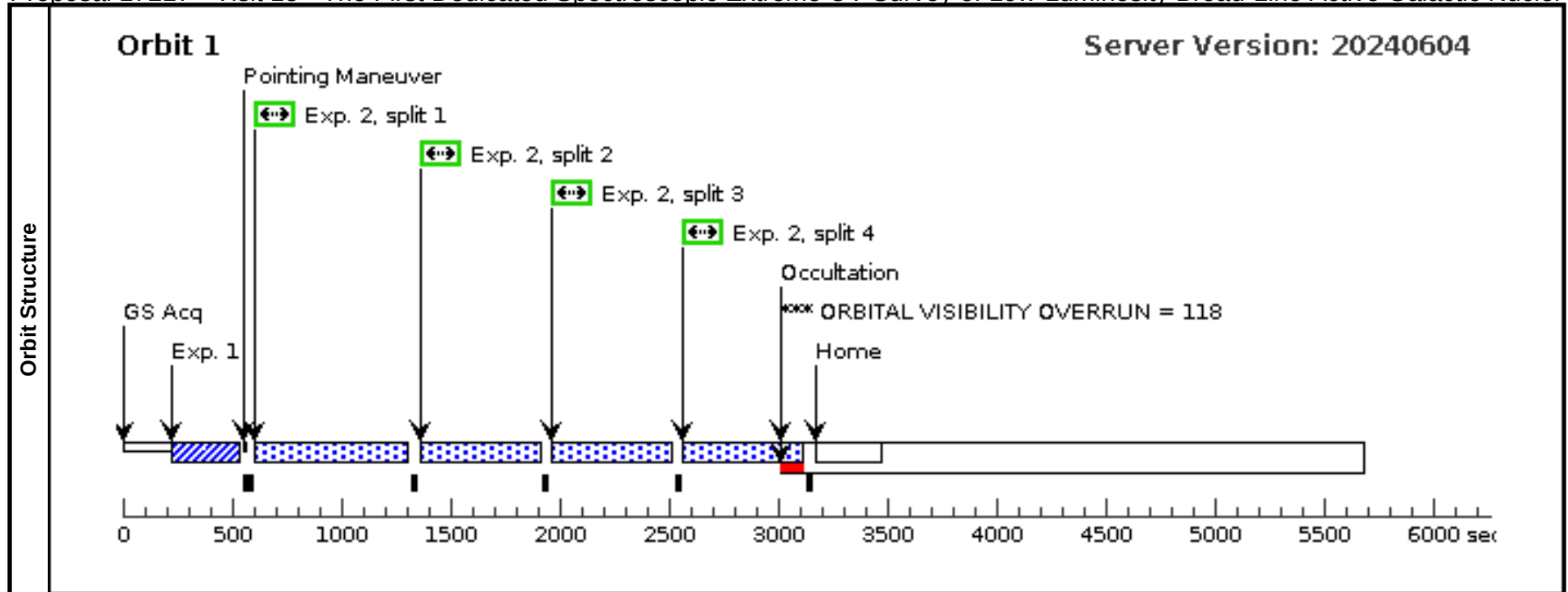
Proposal 17217 - Visit 14 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 14, completed										Fri Jun 07 17:01:09 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnos	(Visit 14) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(14)	SDSSJ1357+0750	RA: 13 57 59.8243 (209.4992679d)			Redshift: 0.3909			V=19.1+/-0.1		Reference Frame: ICRS			
			Dec: +07 50 17.75 (7.83826d)						GALEX FUV=20.28+/-0.21 NU					
			Equinox: J2000						V=20.35+/-0.17					
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0757)	(14) SDSSJ1357+0750	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				55 Secs (55 Secs)				
										[==>]		[1]		
	2	(COS.sp.181 0781)	(14) SDSSJ1357+0750	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=4800; FLASH=YES; FP-POS=ALL			600 Secs (1976 Secs)				
										[==>494.0 Secs (Split 1)] [==>494.0 Secs (Split 2)] [==>494.0 Secs (Split 3)] [==>494.0 Secs (Split 4)]		[1]		



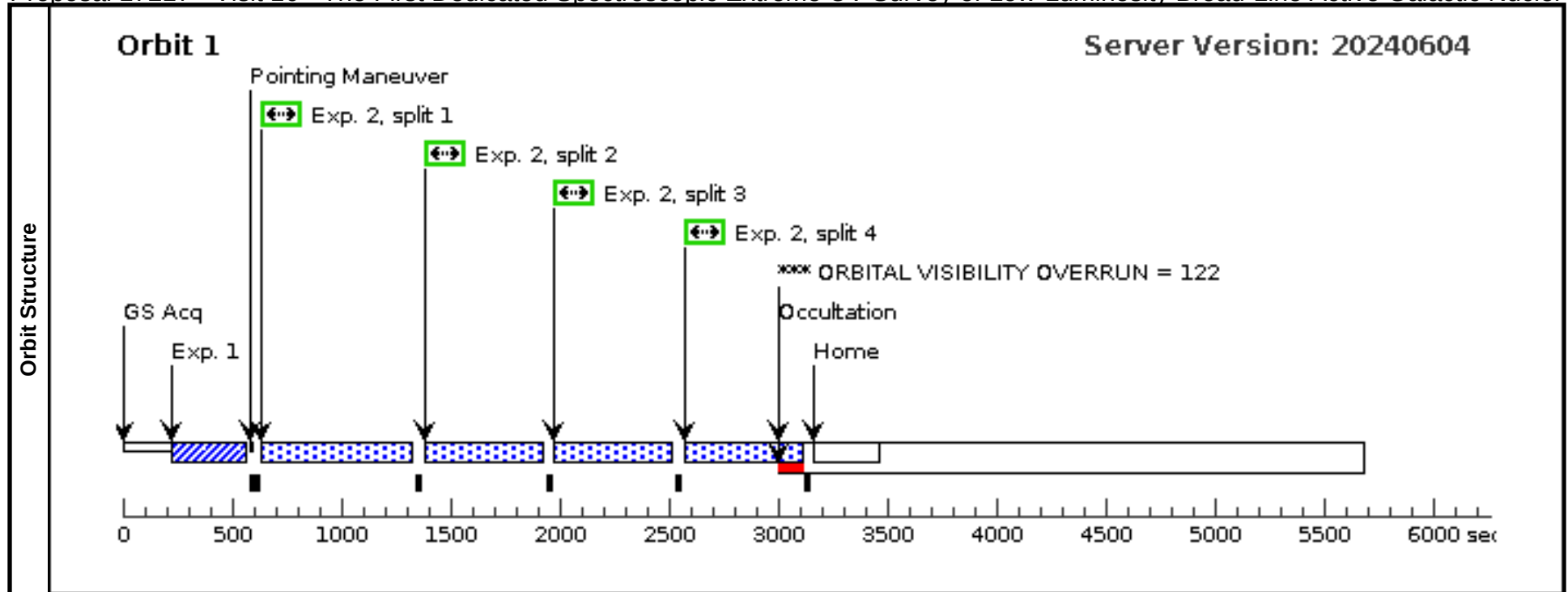
Proposal 17217 - Visit 15 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 15, completed										Fri Jun 07 17:01:09 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(Visit 15) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(15)	SDSSJ1422+1411	RA: 14 22 7.6795 (215.5319979d) Dec: +14 11 20.41 (14.18900d) Equinox: J2000			Redshift: 0.3997			V=19.6+/-0.1 GALEX FUV=21.07+/-0.35 NU V=20.31+/-0.10		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]			Orbit	
	1	(COS.ta.181 0758)	(15) SDSSJ1422+14 11	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				50 Secs (50 Secs)				
										[==>]			[1]	
	2	(COS.sp.181 0782)	(15) SDSSJ1422+14 11	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=48 00; FLASH=YES; FP-POS=ALL			600 Secs (1988 Secs)				
										[==>497.0 Secs (Split 1)] [==>497.0 Secs (Split 2)] [==>497.0 Secs (Split 3)] [==>497.0 Secs (Split 4)]			[1]	



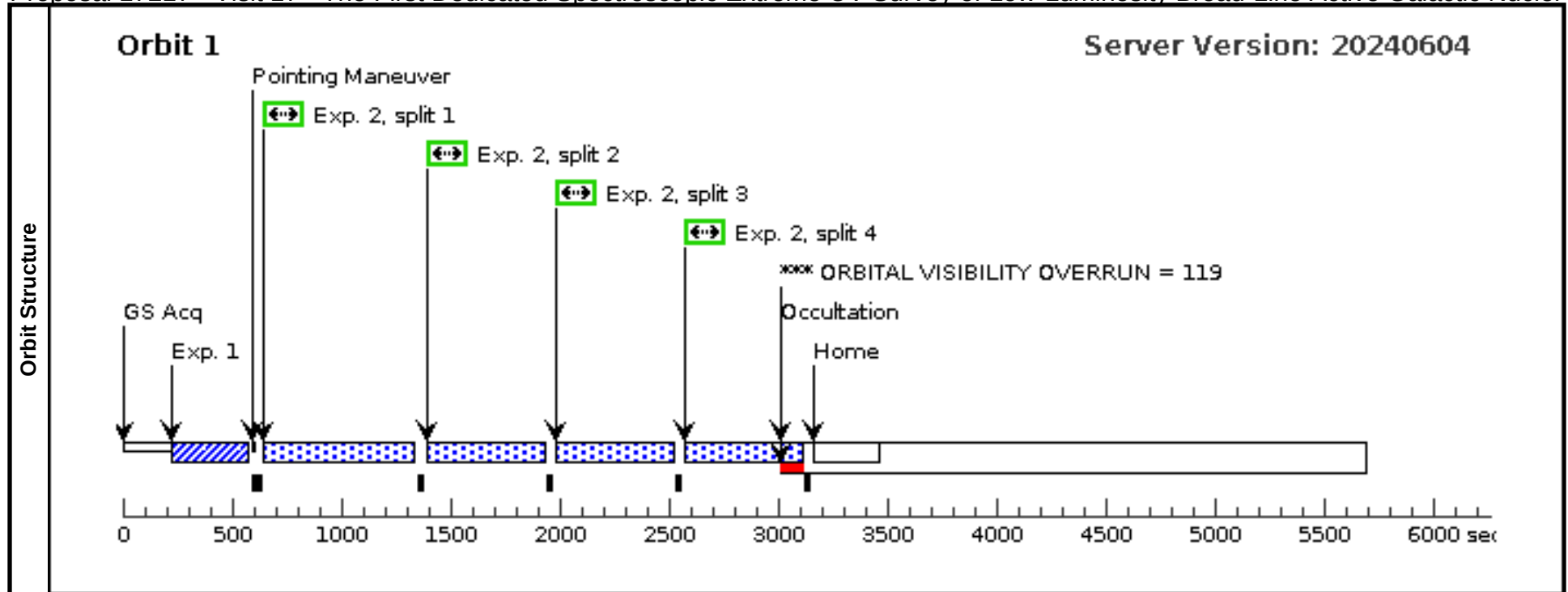
Proposal 17217 - Visit 16 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 16, completed										Fri Jun 07 17:01:09 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(Visit 16) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(16)	SDSSJ1432-0148	RA: 14 32 23.8073 (218.0991971d) Dec: -01 48 23.18 (-1.80644d) Equinox: J2000			Redshift: 0.3967			V=19.6+/-0.1 GALEX FUV=21.28+/-0.07 NU V=20.58+/-0.04		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0759)	(16) SDSSJ1432-0148	COS/NUV, ACQ/IMAGE, PSA		MIRRORA					65 Secs (65 Secs)			
											[==>]	[1]		
	2	(COS.sp.181 0783)	(16) SDSSJ1432-0148	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=4800; FLASH=YES; FP-POS=ALL				600 Secs (1952 Secs)			
											[==>488.0 Secs (Split 1)] [==>488.0 Secs (Split 2)] [==>488.0 Secs (Split 3)] [==>488.0 Secs (Split 4)]	[1]		



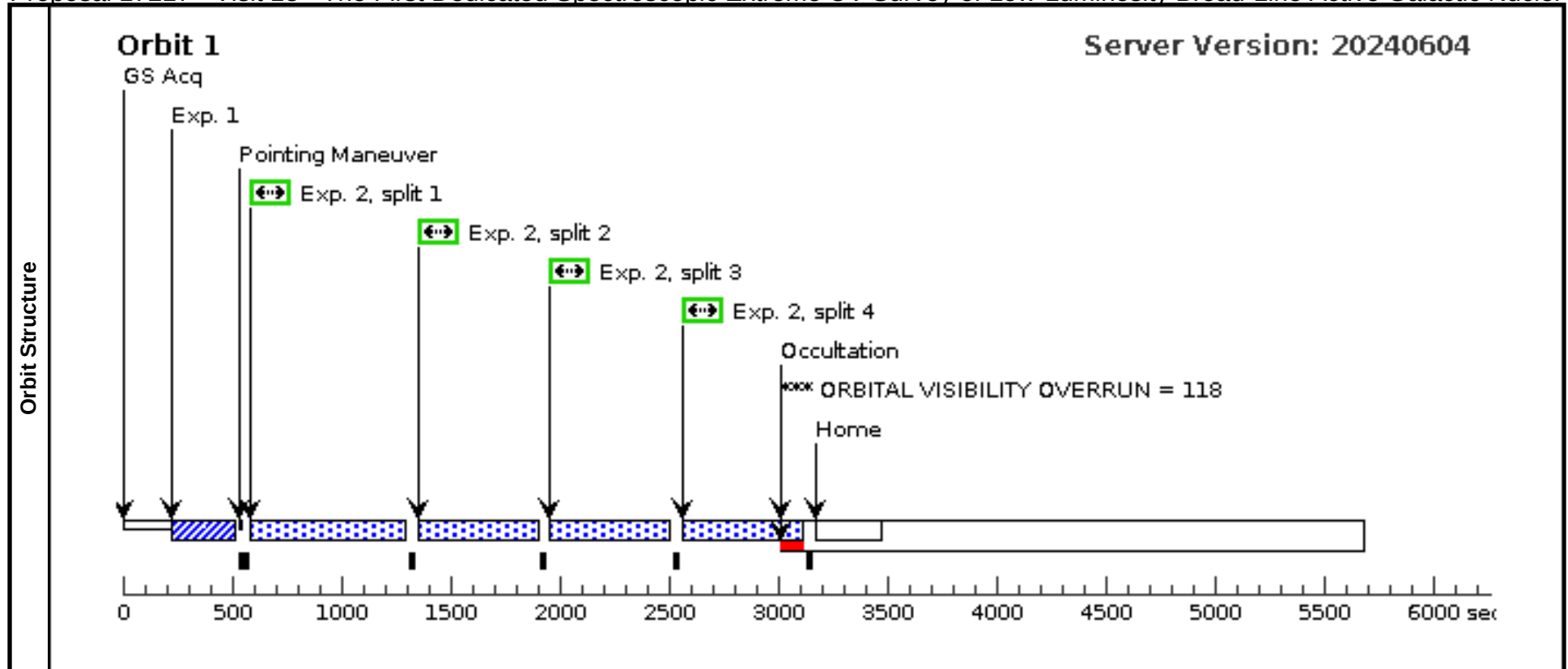
Proposal 17217 - Visit 17 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 17, completed										Fri Jun 07 17:01:09 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(Visit 17) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#													
	Name		Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(17) SDSSJ1432+0515		RA: 14 32 34.2626 (218.1427608d) Dec: +05 15 13.61 (5.25378d) Equinox: J2000			Redshift: 0.3989			V=19.8+/-0.1 GALEX FUV=21.35+/-0.12 NU V=20.67+/-0.06		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0760)	(17) SDSSJ1432+0515	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				70 Secs (70 Secs)				
										[==>]		[1]		
	2	(COS.sp.181 0784)	(17) SDSSJ1432+0515	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=4800; FLASH=YES; FP-POS=ALL			600 Secs (1944 Secs)				
										[==>486.0 Secs (Split 1)] [==>486.0 Secs (Split 2)] [==>486.0 Secs (Split 3)] [==>486.0 Secs (Split 4)]		[1]		



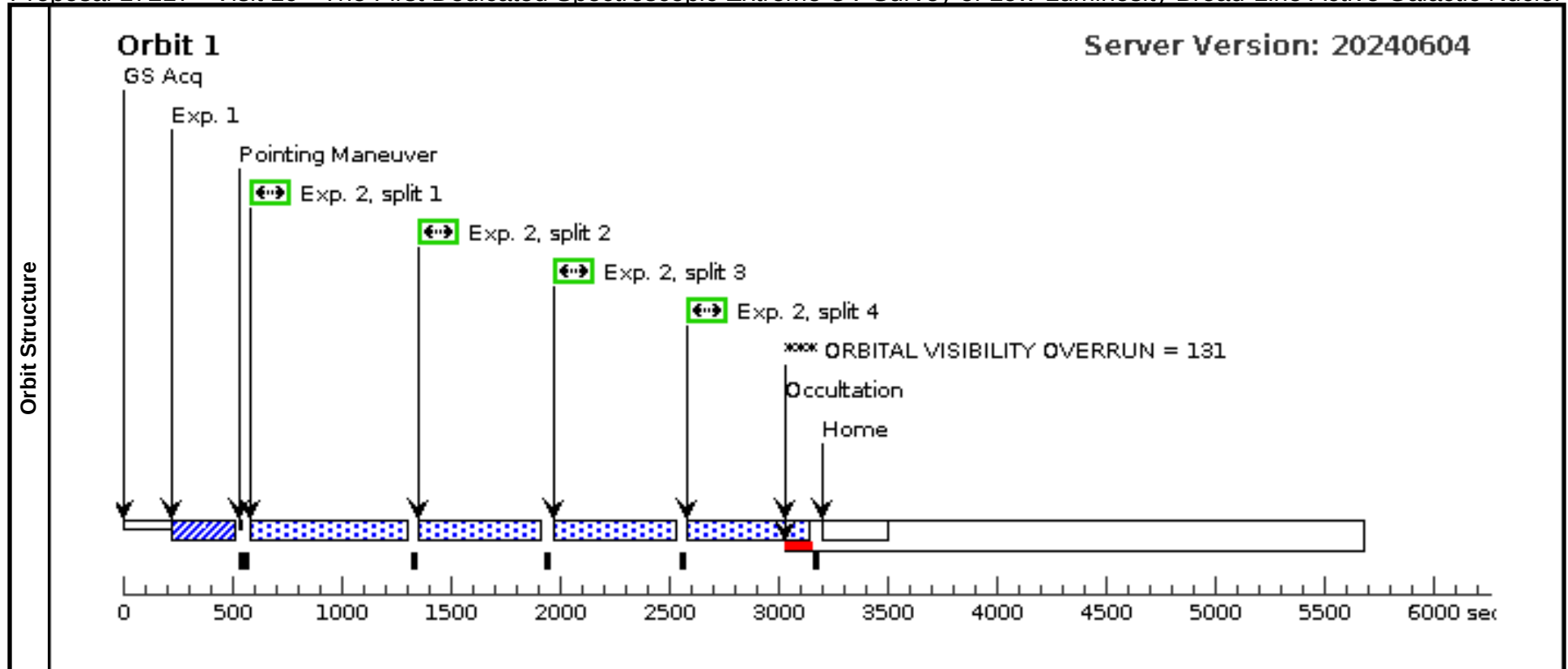
Proposal 17217 - Visit 18 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 18, completed										Fri Jun 07 17:01:09 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(Visit 18) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(18)	SDSSJ1602+1410	RA: 16 02 11.4991 (240.5479129d) Dec: +14 10 53.43 (14.18151d) Equinox: J2000			Redshift: 0.2766			V=18.3+/-0.1 GALEX FUV=20.25+/-0.17 NU V=19.97+/-0.12		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0761)	(18) SDSSJ1602+14 10	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				40 Secs (40 Secs)				
										[==>]		[1]		
	2	(COS.sp.181 0785)	(18) SDSSJ1602+14 10	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=48 00; FLASH=YES; FP-POS=ALL			600 Secs (2008 Secs)				
										[==>502.0 Secs (Split 1)] [==>502.0 Secs (Split 2)] [==>502.0 Secs (Split 3)] [==>502.0 Secs (Split 4)]		[1]		



Proposal 17217 - Visit 19 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 19, completed										Fri Jun 07 17:01:09 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnostics	(Visit 19) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous					
	(19)	SDSSJ1718+3042	RA: 17 18 50.2954 (259.7095642d)		Redshift: 0.2818		V=18.2+/-0.1		Reference Frame: ICRS					
			Dec: +30 42 1.58 (30.70044d)				GALEX FUV=20.86+/-0.08 NU							
			Equinox: J2000				V=20.04+/-0.03							
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0762)	(19) SDSSJ1718+30 42	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				40 Secs (40 Secs)				
										[==>]		[1]		
	2	(COS.sp.181 0786)	(19) SDSSJ1718+30 42	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=48 00;			600 Secs (2040 Secs)				
							FLASH=YES;			[==>510.0 Secs (Split 1)]		[1]		
							FP-POS=ALL			[==>510.0 Secs (Split 2)]				
									[==>510.0 Secs (Split 3)]					
										[==>510.0 Secs (Split 4)]				



Proposal 17217 - Visit 20 - The First Dedicated Spectroscopic Extreme UV Survey of Low-Luminosity Broad-Line Active Galactic Nuclei

Visit	Proposal 17217, Visit 20, completed										Fri Jun 07 17:01:09 GMT 2024			
	Diagnostic Status: Warning													
	Scientific Instruments: COS/FUV, COS/NUV													
	Special Requirements: (none)													
Diagnos	(Visit 20) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN													
Fixed Targets	#	Name	Target Coordinates			Targ. Coord. Corrections			Fluxes		Miscellaneous			
	(20)	SDSSJ2357+1554	RA: 23 57 59.2236 (359.4967650d)			Redshift: 0.3997			V=19.7+/-0.1		Reference Frame: ICRS			
			Dec: +15 54 58.05 (15.91613d)						GALEX FUV=21.35+/-0.29 NU					
			Equinox: J2000						V=20.72+/-0.12					
	Comments: Category=GALAXY Description=[QSO, SEYFERT] Extended=NO													
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture		Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit		
	1	(COS.ta.181 0763)	(20) SDSSJ2357+1554	COS/NUV, ACQ/IMAGE, PSA		MIRRORA				75 Secs (75 Secs)				
										[==>]		[1]		
	2	(COS.sp.181 0787)	(20) SDSSJ2357+1554	COS/FUV, TIME-TAG, PSA		G140L 800 A	BUFFER-TIME=4800;				600 Secs (1948 Secs)			
							FLASH=YES;				[==>487.0 Secs (Split 1)] [==>487.0 Secs (Split 2)] [==>487.0 Secs (Split 3)] [==>487.0 Secs (Split 4)]		[1]	
						FP-POS=ALL								

