



14597 - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Cycle: 24, Proposal Category: GO

(UV Initiative)

(Availability Mode: AVAILABLE)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
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Prof. Detlev G. Koester (CoI) (ESA Member)	Universitat Kiel	koester@astrophysik.uni-kiel.de

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>
29	(2) WD0047+190	COS/FUV COS/NUV	2	19-Sep-2017 18:00:26.0	yes
Z9	(2) WD0047+190	COS/FUV COS/NUV	2	19-Sep-2017 18:00:27.0	yes
03	(3) WD0106-328	COS/FUV COS/NUV	1	19-Sep-2017 18:00:29.0	yes
28	(4) WD0106-358	STIS/CCD STIS/FUV-MAMA	2	19-Sep-2017 18:00:30.0	yes
05	(5) WD0110-565	COS/FUV COS/NUV	2	19-Sep-2017 18:00:32.0	yes

Proposal 14597 (STScI Edit Number: 8, Created: Tuesday, September 19, 2017 5:01:16 PM EST) - 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>
06	(6) WD0125-236	COS/FUV COS/NUV	2	19-Sep-2017 18:00:34.0	yes
07	(7) WD0235+064	COS/FUV COS/NUV	3	19-Sep-2017 18:00:35.0	yes
08	(8) WD0437+138	COS/FUV COS/NUV	2	19-Sep-2017 18:00:36.0	yes
Z8	(8) WD0437+138	COS/FUV COS/NUV	2	19-Sep-2017 18:00:38.0	yes
09	(9) WD0536-479	COS/FUV COS/NUV	1	19-Sep-2017 18:00:39.0	yes
10	(10) WD0842+572	COS/FUV COS/NUV	4	19-Sep-2017 18:00:40.0	yes
11	(11) WD1018+410	COS/FUV COS/NUV	1	19-Sep-2017 18:00:42.0	yes
12	(12) WD1107+265	COS/FUV COS/NUV	3	19-Sep-2017 18:00:43.0	yes
13	(13) WD1141+057	COS/FUV COS/NUV	3	19-Sep-2017 18:00:46.0	yes
14	(14) WD1337+705	STIS/CCD STIS/FUV-MAMA	2	19-Sep-2017 18:00:48.0	yes
15	(15) WD1349-230	COS/FUV COS/NUV	3	19-Sep-2017 18:00:49.0	yes
16	(16) WD1352+004	COS/FUV COS/NUV	3	19-Sep-2017 18:00:51.0	yes
17	(17) WD1457-086	COS/FUV	1	19-Sep-2017 18:00:52.0	yes
Z7	(17) WD1457-086	COS/FUV	1	19-Sep-2017 18:00:53.0	yes
18	(18) WD1536+520	COS/FUV COS/NUV	5	19-Sep-2017 18:00:55.0	yes

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Y8	(18) WD1536+520	COS/FUV COS/NUV	5	19-Sep-2017 18:00:58.0	yes
19	(19) WD1554+094	COS/FUV COS/NUV	5	19-Sep-2017 18:01:00.0	yes
20	(20) WD1614+160	COS/FUV COS/NUV	1	19-Sep-2017 18:01:02.0	yes
21	(21) WD1644+198	COS/FUV COS/NUV	3	19-Sep-2017 18:01:03.0	yes
22	(22) WD2032+248	STIS/CCD STIS/FUV-MAMA	1	19-Sep-2017 18:01:04.0	yes
23	(23) WD2132+096	COS/FUV COS/NUV	5	19-Sep-2017 18:01:06.0	yes
24	(24) WD2149+021	STIS/CCD STIS/FUV-MAMA	2	19-Sep-2017 18:01:08.0	yes
25	(25) WD2229+139	COS/FUV COS/NUV	5	19-Sep-2017 18:01:10.0	yes
26	(26) WD2230-125	COS/FUV COS/NUV	1	19-Sep-2017 18:01:11.0	yes
27	(27) WD2354+159	COS/FUV COS/NUV	1	19-Sep-2017 18:01:12.0	yes
Y7	(27) WD2354+159	COS/FUV COS/NUV	1	19-Sep-2017 18:01:13.0	yes

75 Total Orbits Used

ABSTRACT

Polluted white dwarfs represent the best path to empirically measure the bulk chemical compositions and limiting masses of extrasolar planetesimals. A wealth of data now firmly link metal-enriched white dwarfs with circumstellar debris that derives from rocky planetary building blocks or fragments of larger parent bodies.

Ultraviolet spectroscopy is the only way to detect critical elements such as carbon and oxygen, and the small handful of stars studied in this way have yielded spectacular results. Our recent HST successes demonstrate the power of this technique, and we wish to take the next logical step with a large survey.

In the same way that planetary scientists utilize diverse meteorite classes to understand the formation and composition of the terrestrial planets, we need a statistical census of extrasolar planetesimal compositions to fully understand their physical and chemical role as exoplanet precursors. A large ($N \sim 40$) dataset of detailed metal abundances in polluted white dwarfs is essential to our understanding of the assembly and chemistry of Earth-like exoplanets.

We propose to observe a brightness-limited sample of metal-rich white dwarfs, by selecting 31 targets that can be observed in a single COS / STIS visit, and thereby making the most efficient use of HST time for any sample of this size. This will increase the number of polluted white dwarfs observed in the far ultraviolet by a factor of five, and thereby perform the most robust and statistically meaningful study that is currently possible.

This is a legacy that HST should leave to future planet formation modelers and cosmochemists, and it requires the ultraviolet capacity of HST.

OBSERVING DESCRIPTION

We will obtain far-ultraviolet spectroscopy of 27 metal-polluted white dwarfs, with the aim to measure photospheric abundances, and infer the bulk composition of exo-planetesimals. The bulk of the observations will be done with COS/G130M, with a few targets done with STIS/E140M.

We have compiled the most accurate effective temperatures and surface gravities from the literature, computed model spectra for each star, and scaled the model spectra to match the GALEX NUV/FUV fluxes. These scaled models were then used for all ETC simulations, paying particular attention to any possible violations of the bright object limits. BOP does flag up a few possible problems, but those are related to the fact that BOP assumes a steeper O5V spectrum.

We used APOP and PPMXL to obtain coordinates and proper motions. We have gathered extensive experience from > 100 COS observations that these coordinates are sufficiently accurate that we can skip the ACCUM/SEARCH pattern during the acquisition.

Following the Phase I time allocation, we have slightly revised our target list based on more detailed simulations, which results in the removal of the following Phase I targets:

WD0408-041
WD0415-105
WD1011+570
WD1150-153
WD1350-162
WD1709+230
WD2144-079
WD2229+235
WD2253+803

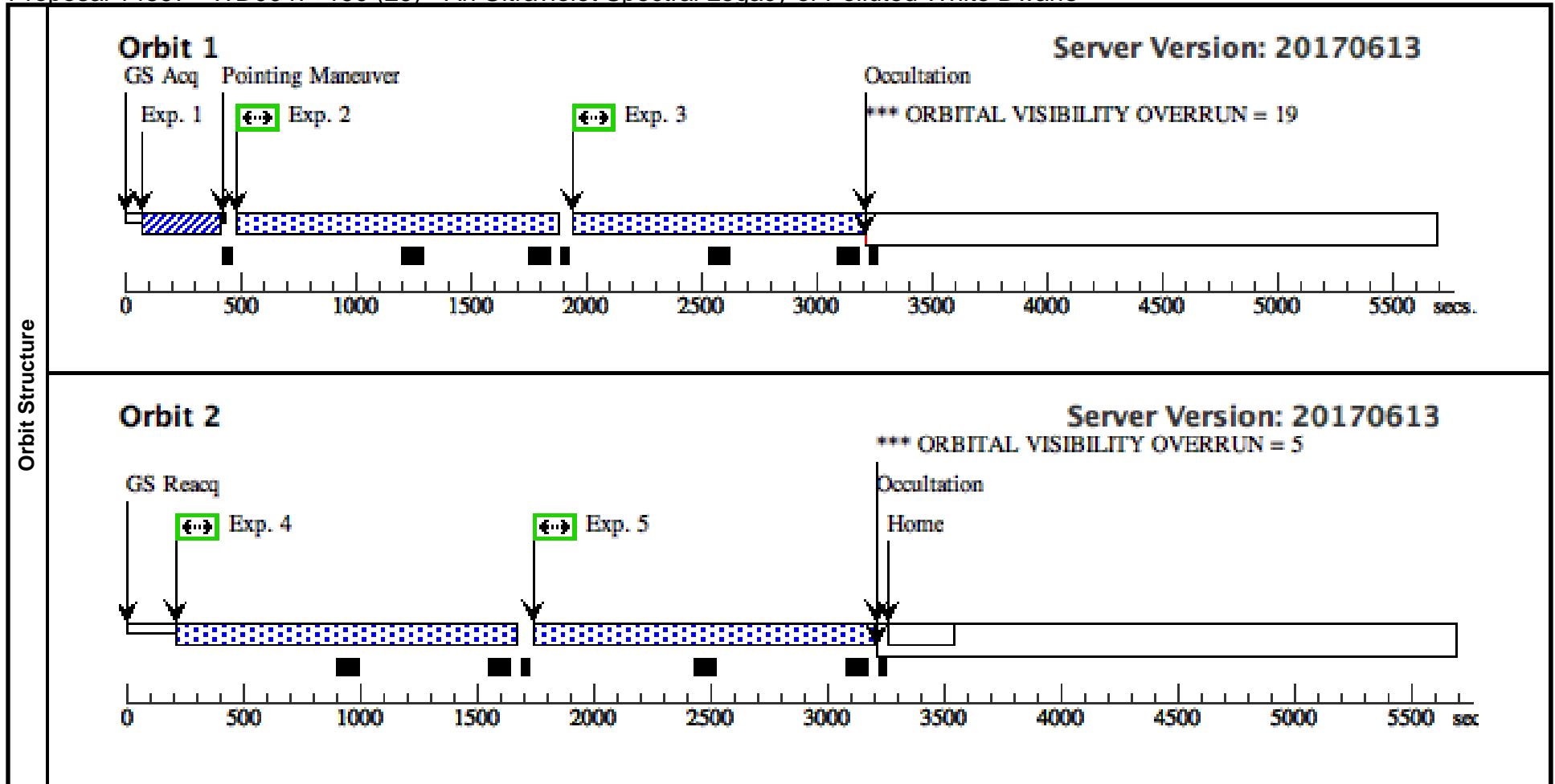
The reason for withdrawing these targets is that either updated temperature measurements make them less likely to produce high-quality data, or that deeper exposures compared to previous COS observations would have less impact due to the decreasing COS sensitivity. We have (a) increased the exposure time for a few of the remaining targets, and (b) added the following five new targets

WD0106-358
WD0437+138
WD0536-479
WD0842+572
WD1644+198

Proposal 14597 - WD0047+190 (29) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:16 GMT 2017

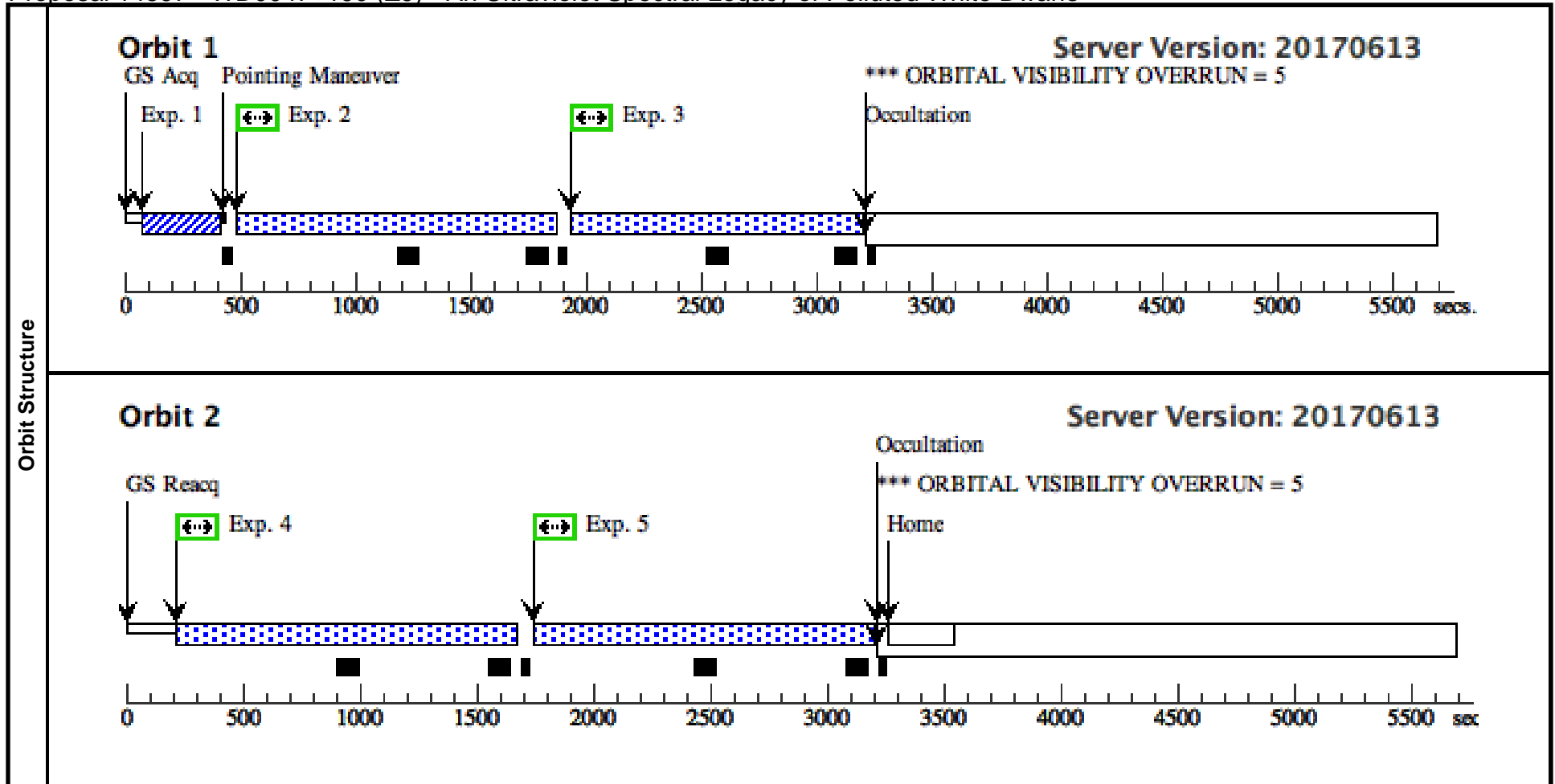
Visit	Proposal 14597, WD0047+190 (29), failed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																
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Proposal 14597 - WD0047+190 (Z9) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:19 GMT 2017

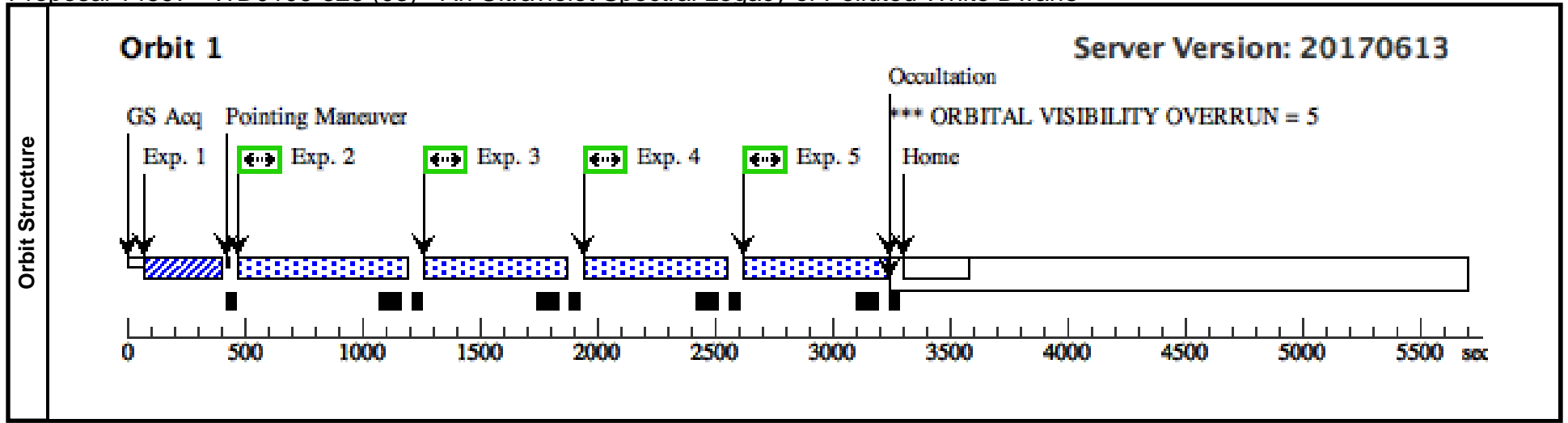
Visit	Proposal 14597, WD0047+190 (Z9), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: Repeat of Visit 29, with the central wavelength at 1291A instead of 1327A.</i>																																																																
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Proposal 14597 - WD0106-328 (03) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:19 GMT 2017

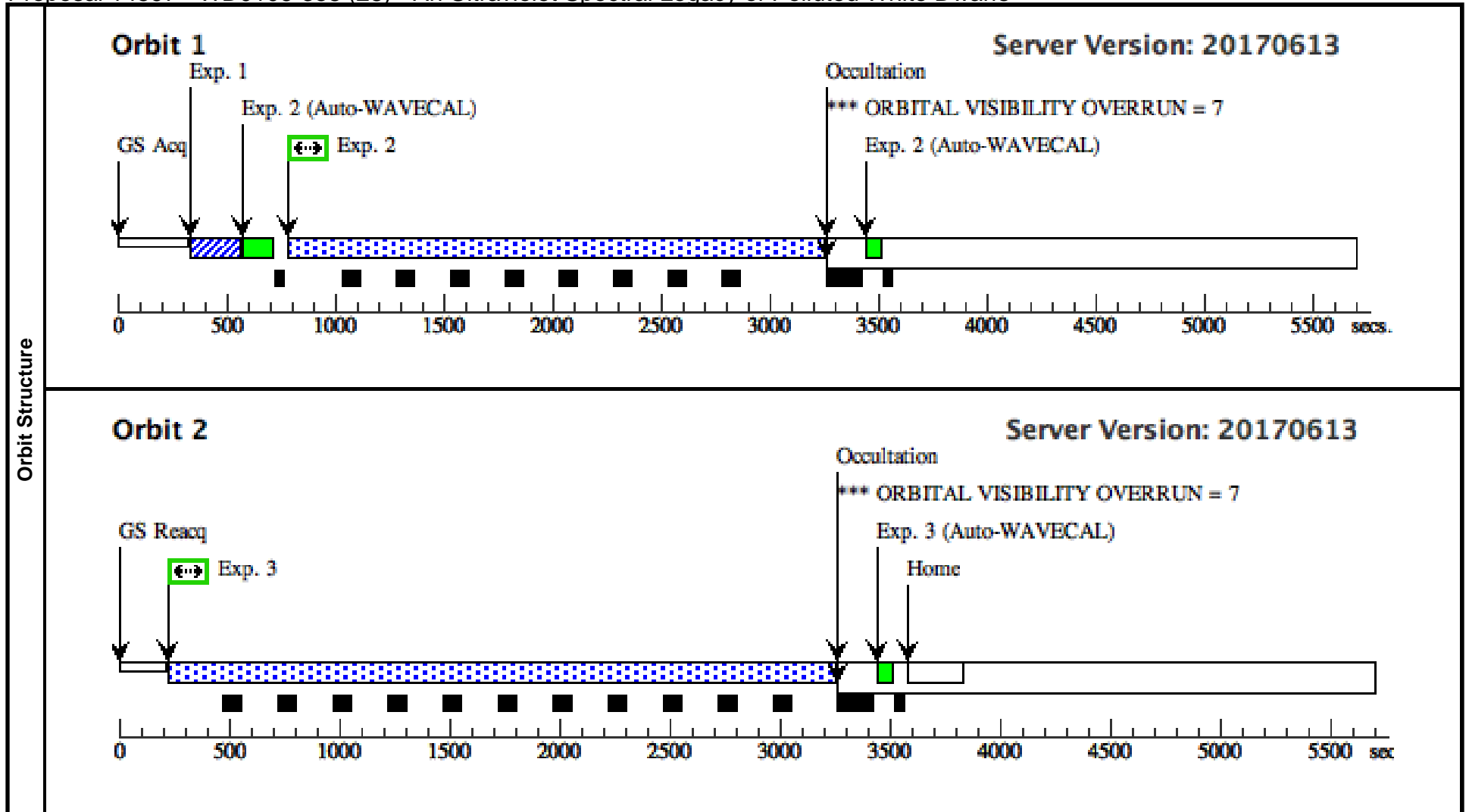
Visit	Proposal 14597, WD0106-328 (03), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																
	(Exposure 2 (WD0106-328 (03))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 3 (WD0106-328 (03))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 4 (WD0106-328 (03))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 5 (WD0106-328 (03))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD0106-328 (03)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD0106-328 (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (WD0106-328 (03))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 3 (WD0106-328 (03))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.																																																																
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#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																								
1	(COS.ta.827 546)	(3) WD0106-328	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				8 Secs (8 Secs) [==>]	[1]																																																								
2	(COS.sp.827 547)	(3) WD0106-328	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=44 3			553 Secs (553 Secs) [==>]	[1]																																																								
3	(COS.sp.827 547)	(3) WD0106-328	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=44 3			553 Secs (553 Secs) [==>]	[1]																																																								
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5	(COS.sp.827 547)	(3) WD0106-328	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=44 3			556 Secs (556 Secs) [==>]	[1]																																																								



Proposal 14597 - WD0106-358 (28) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:19 GMT 2017

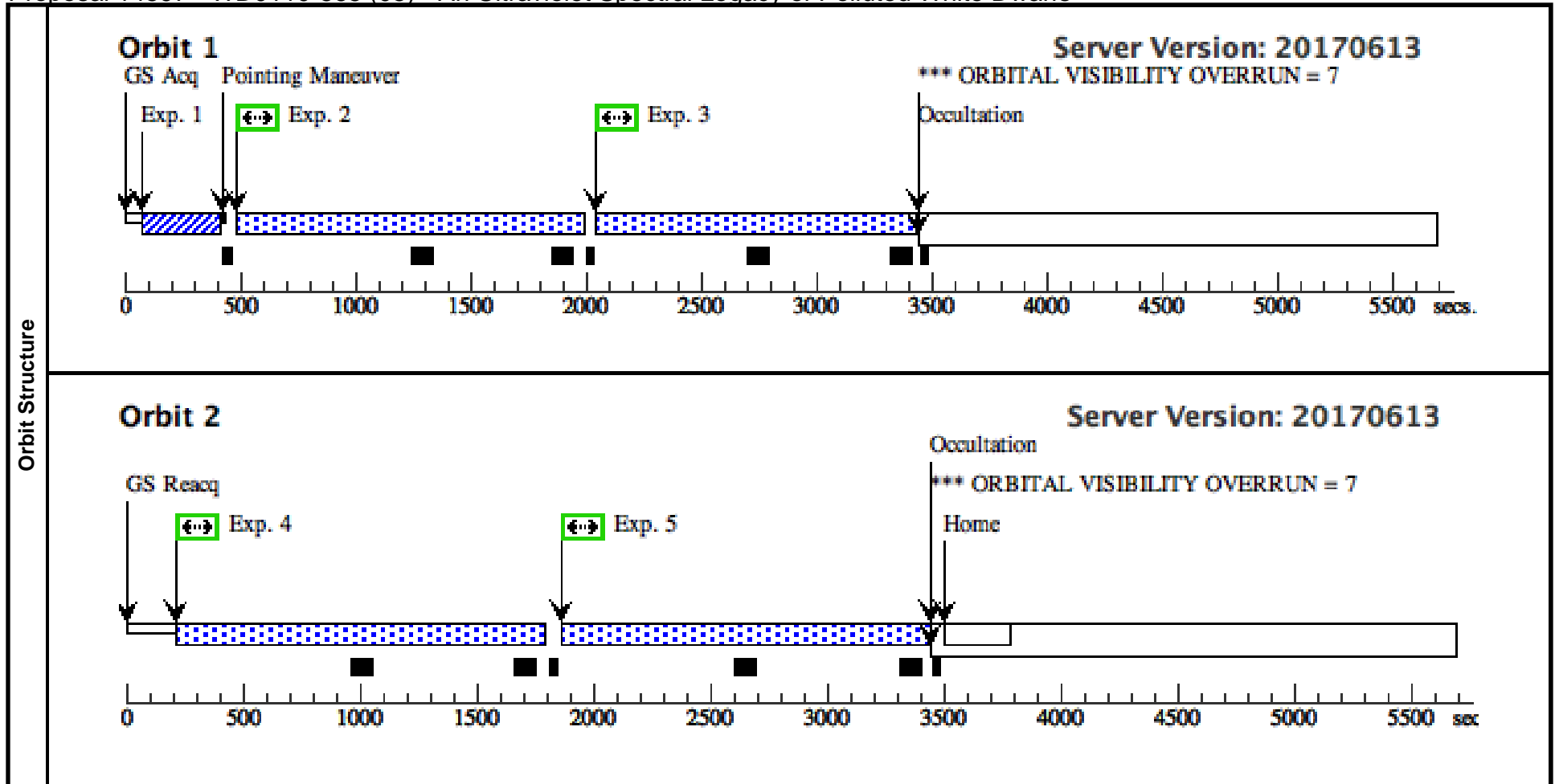
Visit	Proposal 14597, WD0106-358 (28), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	(WD0106-358 (28)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD0106-358 (28)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes	Miscellaneous			
	(4)	WD0106-358 Alt Name1: GD683	RA: 01 08 20.7682 (17.0865342d) Dec: -35 34 41.58 (-35.57822d) Equinox: J2000	Proper Motion RA: -36 mas/yr Proper Motion Dec: -49 mas/yr Epoch of Position: 2000.0		V=14.716+/-0.1 GALEX FUV=26633microJy G ALEX NUV=13767microJy (these values are corrected for the non-linearity)	Reference Frame: ICRS			
Comments: Teff=29000K Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.828 321)	(4) WD0106-358	STIS/CCD, ACQ, F28X50LP	MIRROR		GS ACQ SCENARIO BASE1B3		0.5 Secs (0.5 Secs)	
									[==>]	[1]
	2	(STIS.sp.82 8322)	(4) WD0106-358	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A		BUFFER-TIME=25 0			2451 Secs (2451 Secs)
									[==>]	[1]
3	(STIS.sp.82 8322)	(4) WD0106-358	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A		BUFFER-TIME=25 0			3015 Secs (3015 Secs)	
									[==>]	[2]



Proposal 14597 - WD0110-565 (05) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:19 GMT 2017

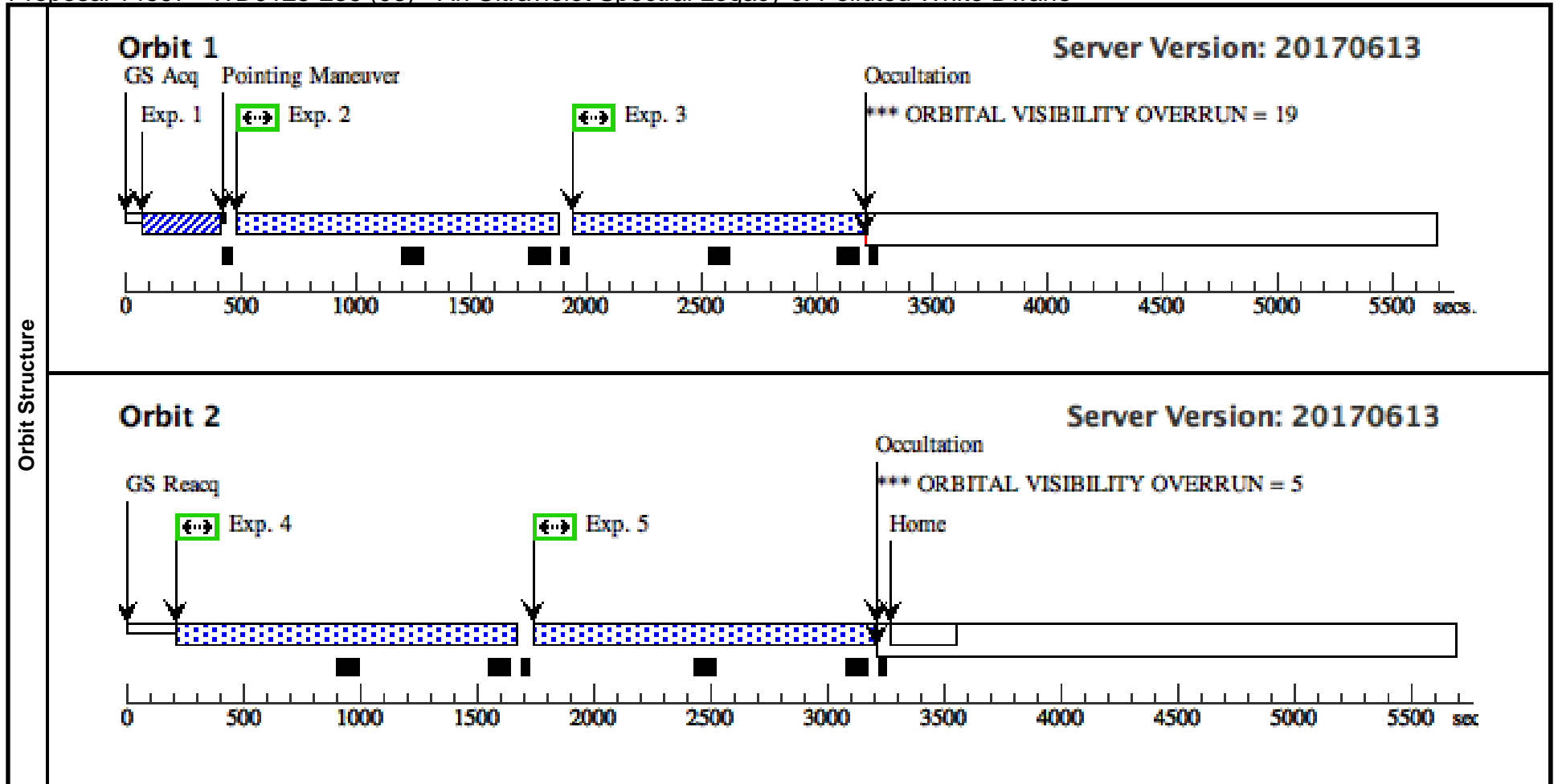
Visit	Proposal 14597, WD0110-565 (05), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Exposure 2 (WD0110-565 (05))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 3 (WD0110-565 (05))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 4 (WD0110-565 (05))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 5 (WD0110-565 (05))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD0110-565 (05)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD0110-565 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD0110-565 (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (WD0110-565 (05))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 3 (WD0110-565 (05))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	WD0110-565 Alt Name1: HE0110-5630	RA: 01 12 21.1260 (18.0880250d) Dec: -56 14 27.53 (-56.24098d) Equinox: J2000	Proper Motion RA: 6 mas/yr Proper Motion Dec: -35 mas/yr Epoch of Position: 2000.0	V=15.794+/-0.1 GALEX FUV=2190microJy GA LEX NUV=2670microJy	Reference Frame: ICRS				
Comments: $T_{eff}=18700K$ 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.827 551)	(5) WD0110-565	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]
	2	(COS.sp.827 553)	(5) WD0110-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=61 2			1339 Secs (1339 Secs) [==>]	[1]
	3	(COS.sp.827 553)	(5) WD0110-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=62 1			1340 Secs (1340 Secs) [==>]	[1]
	4	(COS.sp.827 553)	(5) WD0110-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=70 6			1527 Secs (1527 Secs) [==>]	[2]
	5	(COS.sp.827 553)	(5) WD0110-565	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=70 6			1528 Secs (1528 Secs) [==>]	[2]



Proposal 14597 - WD0125-236 (06) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:19 GMT 2017

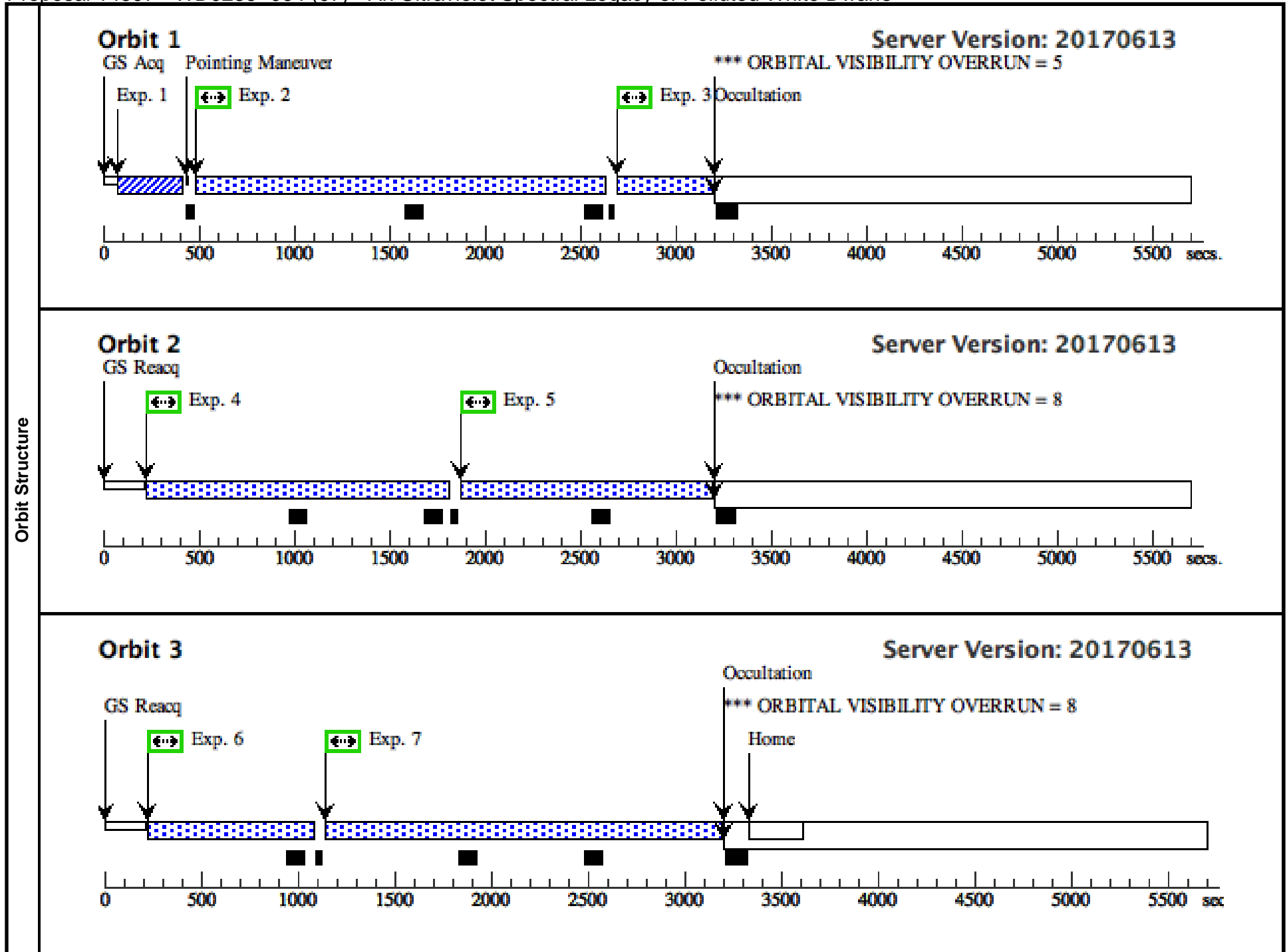
Visit	Proposal 14597, WD0125-236 (06), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																
	(Exposure 2 (WD0125-236 (06))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 3 (WD0125-236 (06))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 4 (WD0125-236 (06))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 5 (WD0125-236 (06))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD0125-236 (06)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD0125-236 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD0125-236 (06)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (WD0125-236 (06))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 3 (WD0125-236 (06))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 4 (WD0125-236 (06))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 5 (WD0125-236 (06))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.																																																																
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5	(COS.sp.827 561)	(6) WD0125-236	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=65 0			1411 Secs (1411 Secs) [==>]	[2]																																																								
Exposures																																																																	



Proposal 14597 - WD0235+064 (07) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:19 GMT 2017

Visit	Proposal 14597, WD0235+064 (07), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	WD0235+064 Alt Name1: PG	RA: 02 38 30.9160 (39.6288167d) Dec: +06 37 59.75 (6.63326d) Equinox: J2000	Proper Motion RA: -2 mas/yr Proper Motion Dec: -90 mas/yr Epoch of Position: 2000.0	V=15.044+/-0.1 GALEX FUV=1450microJy LEX NUV=1790microJy	Reference Frame: ICRS				
<i>Comments: Teff=13500K Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.827 575)	(7) WD0235+064	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				14 Secs (14 Secs) [==>]	[1]
	2	(COS.sp.827 582)	(7) WD0235+064	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=94 1			1982 Secs (1982 Secs) [==>]	[1]
	3	(COS.sp.827 582)	(7) WD0235+064	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=44 9			453 Secs (453 Secs) [==>]	[1]
	4	(COS.sp.827 582)	(7) WD0235+064	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=71 5			1541 Secs (1541 Secs) [==>]	[2]
	5	(COS.sp.827 582)	(7) WD0235+064	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=65 0			1271 Secs (1271 Secs) [==>]	[2]
	6	(COS.sp.827 582)	(7) WD0235+064	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=69 3			812 Secs (812 Secs) [==>]	[3]
	7	(COS.sp.827 582)	(7) WD0235+064	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=65 0			2000 Secs (2000 Secs) [==>]	[3]

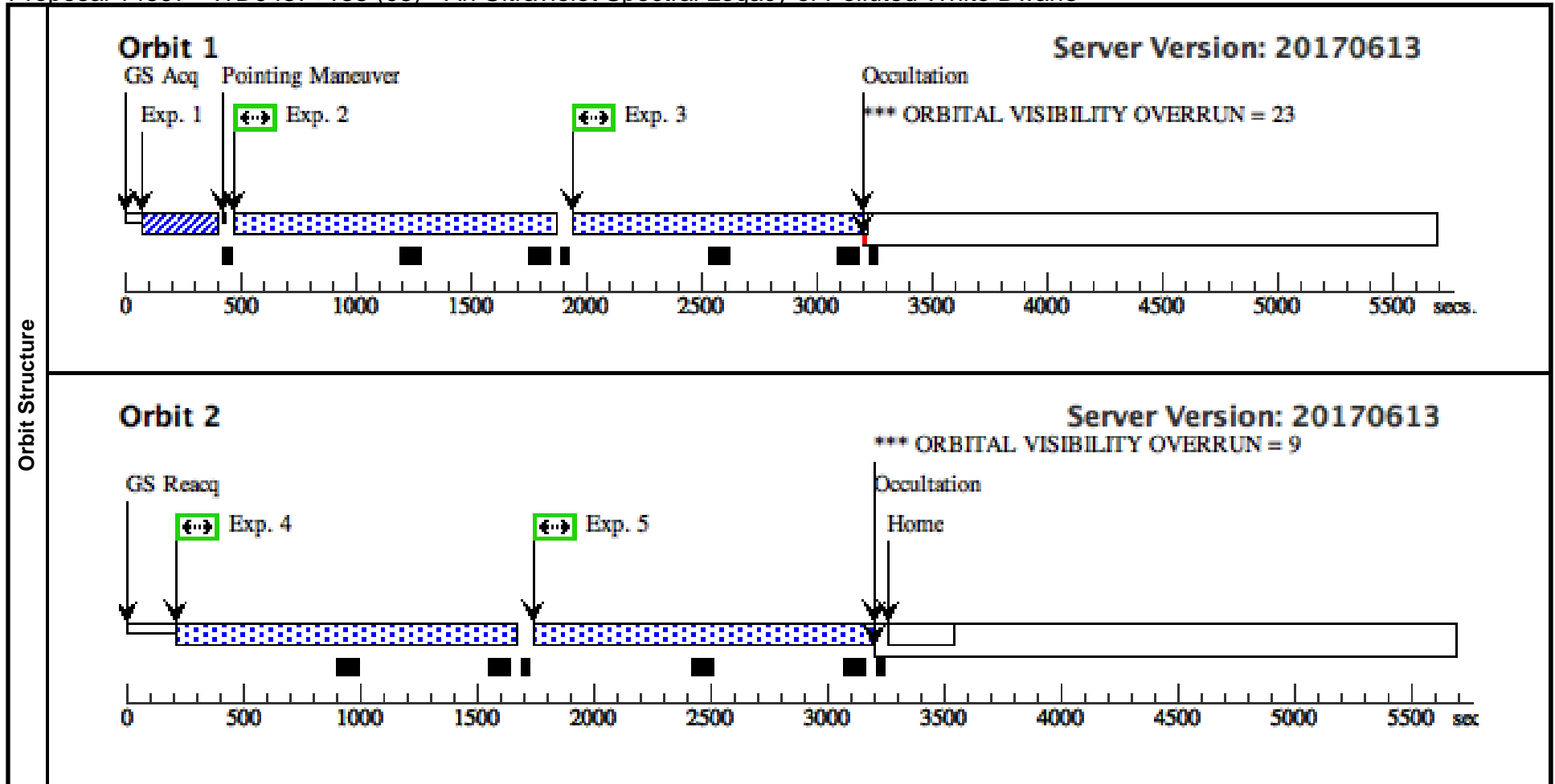


Orbit Structure

Proposal 14597 - WD0437+138 (08) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:19 GMT 2017

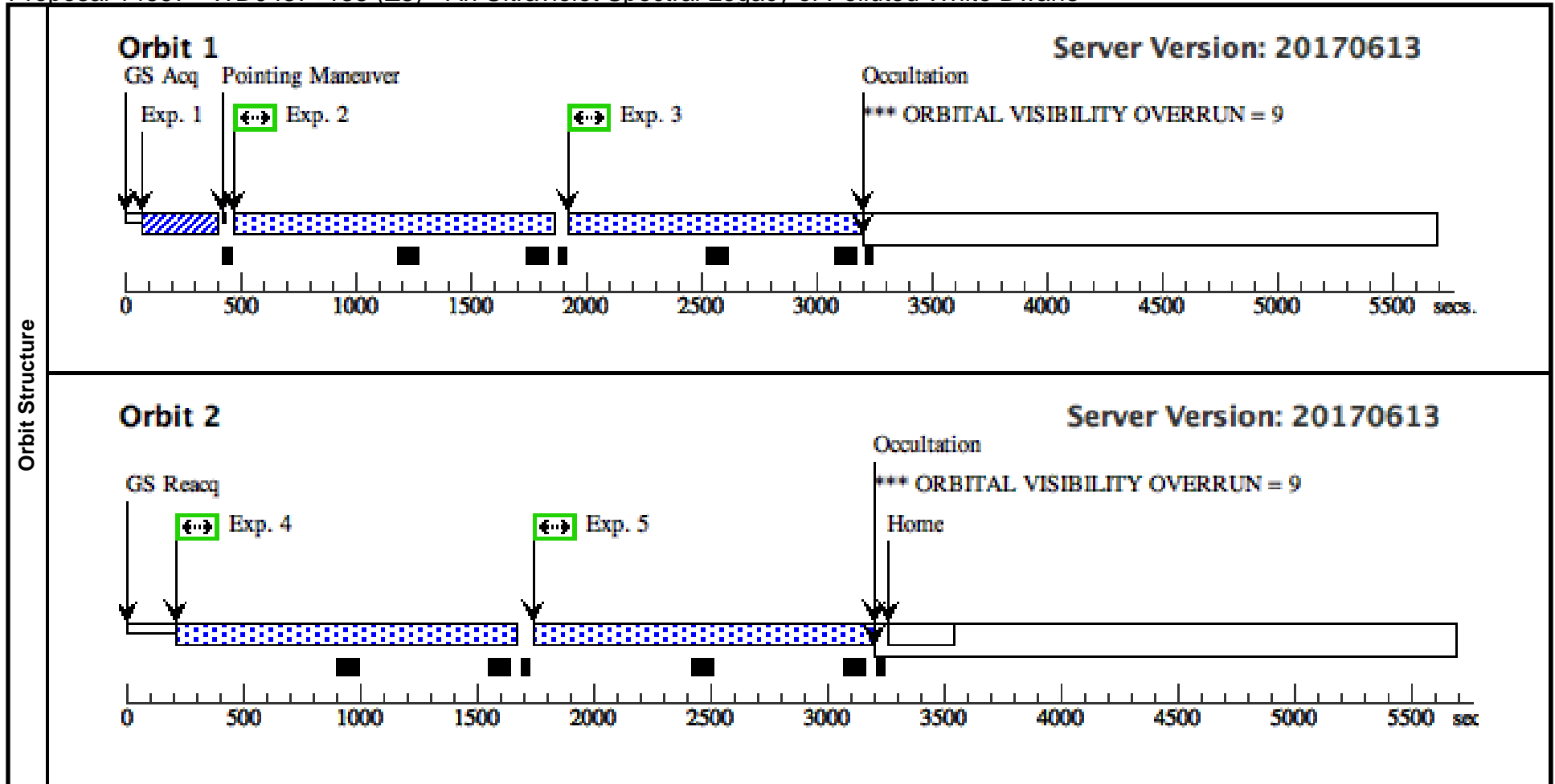
Visit	Proposal 14597, WD0437+138 (08), failed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																
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Proposal 14597 - WD0437+138 (Z8) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

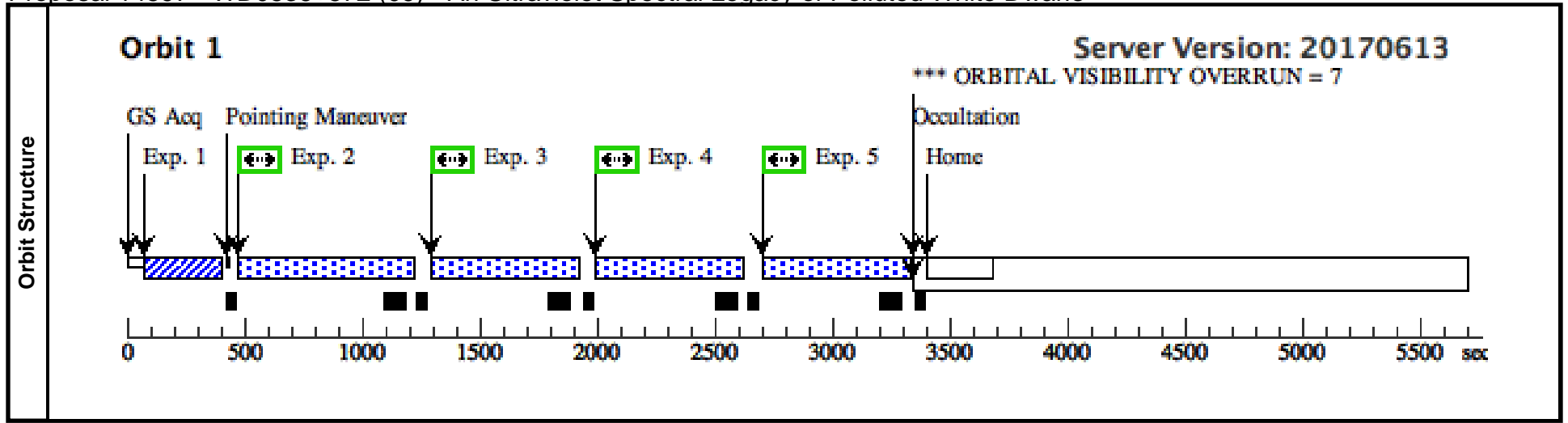
Visit	Proposal 14597, WD0437+138 (Z8), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none) <i>Comments: Repeat of Visit 08, with the central wavelength at 1291A instead of 1327A.</i>																																																																
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Proposal 14597 - WD0536+572 (09) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

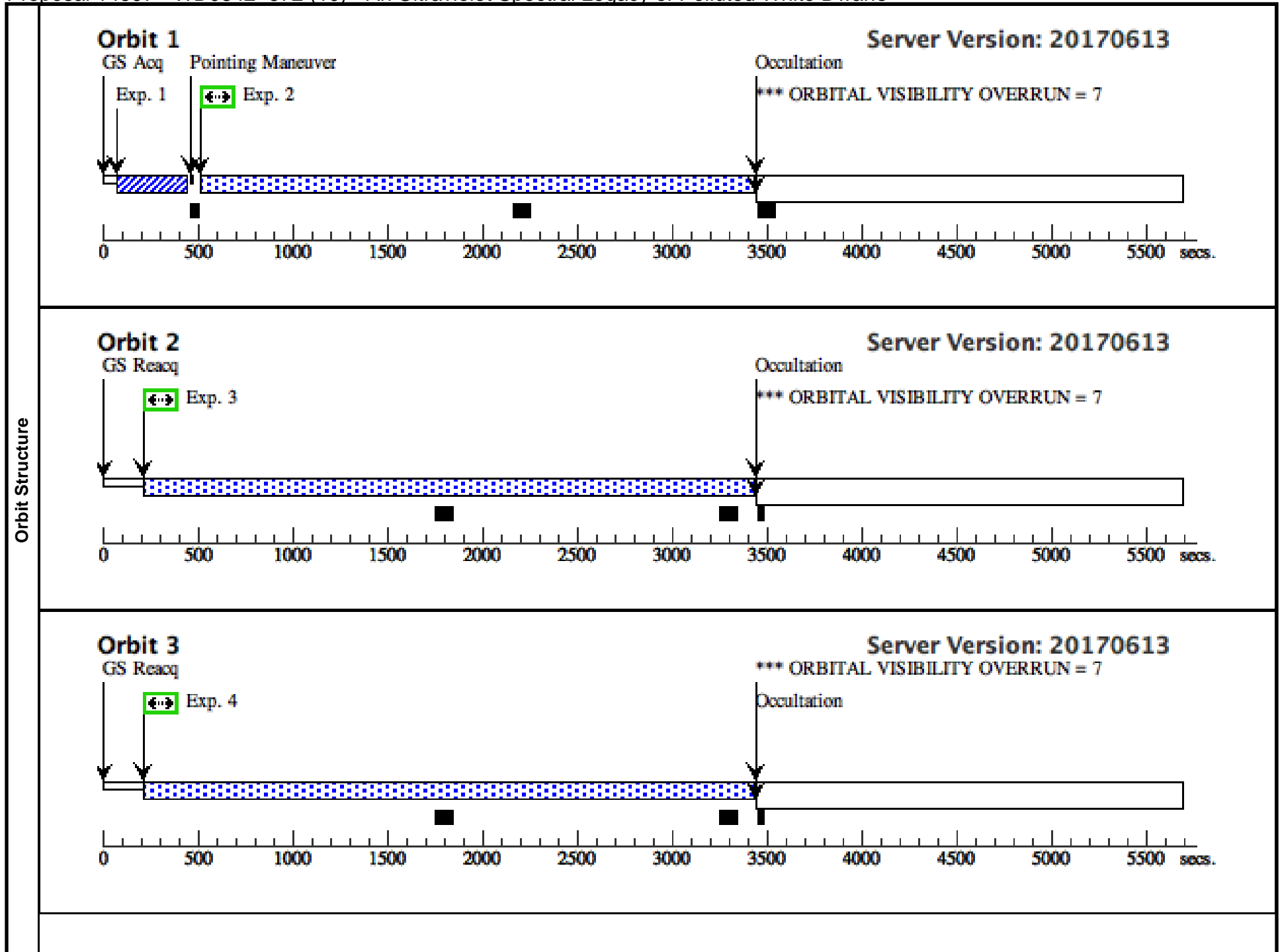
Visit	Proposal 14597, WD0536+572 (09), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																																																																			
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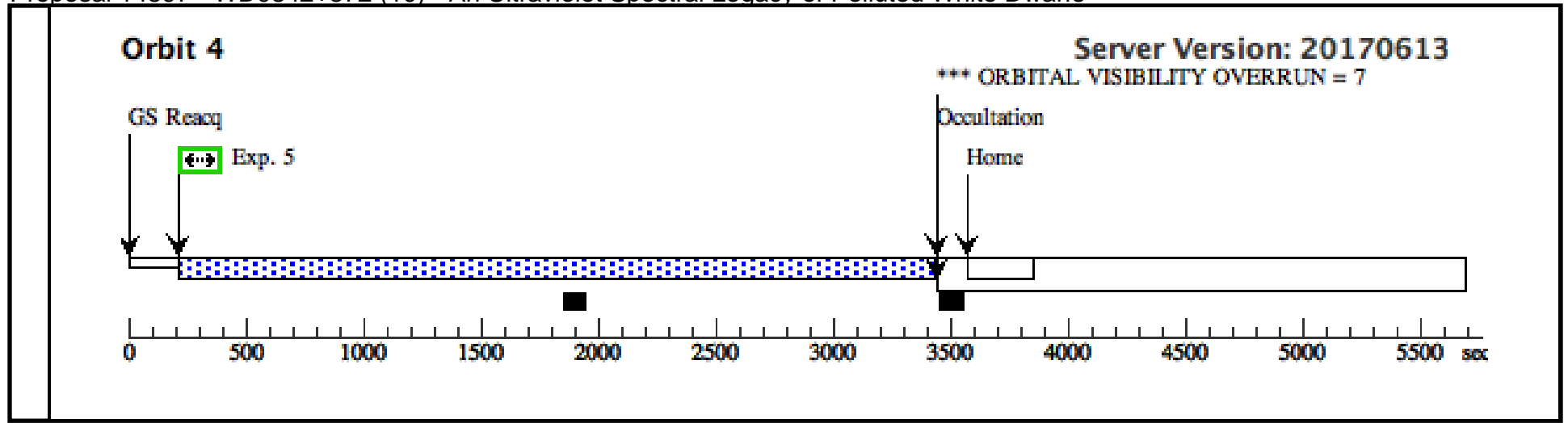


Proposal 14597 - WD0842+572 (10) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

Visit	Proposal 14597, WD0842+572 (10), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Diagnostics	(WD0842+572 (10)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD0842+572 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD0842+572 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD0842+572 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD0842+572 (10)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(10)	WD0842+572	RA: 08 46 2.4100 (131.5100417d) Alt Name1: SDSSJ084602.45+57032 8.5	Dec: +57 03 28.76 (57.05799d) Equinox: J2000	Proper Motion RA: -30 mas/yr Proper Motion Dec: -25 mas/yr Epoch of Position: 2000.0	V=16.55+/-0.1 GALEX FUV=854microJy GAL EX NUV=825microJy	Reference Frame: ICRS			
<i>Comments: Teff=18000K Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.827 982)	(10) WD0842+572	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				28 Secs (28 Secs) [==>]	[1]
	2	(COS.sp.827 983)	(10) WD0842+572	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=15 00; LIFETIME-POS=L P3			2758 Secs (2758 Secs) [==>]	[1]
	3	(COS.sp.827 582)	(10) WD0842+572	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=15 00; LIFETIME-POS=L P3			3170 Secs (3170 Secs) [==>]	[2]
	4	(COS.sp.827 582)	(10) WD0842+572	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=15 00; LIFETIME-POS=L P3			3170 Secs (3170 Secs) [==>]	[3]
	5	(COS.sp.827 582)	(10) WD0842+572	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=16 00; LIFETIME-POS=L P3			3170 Secs (3170 Secs) [==>]	[4]

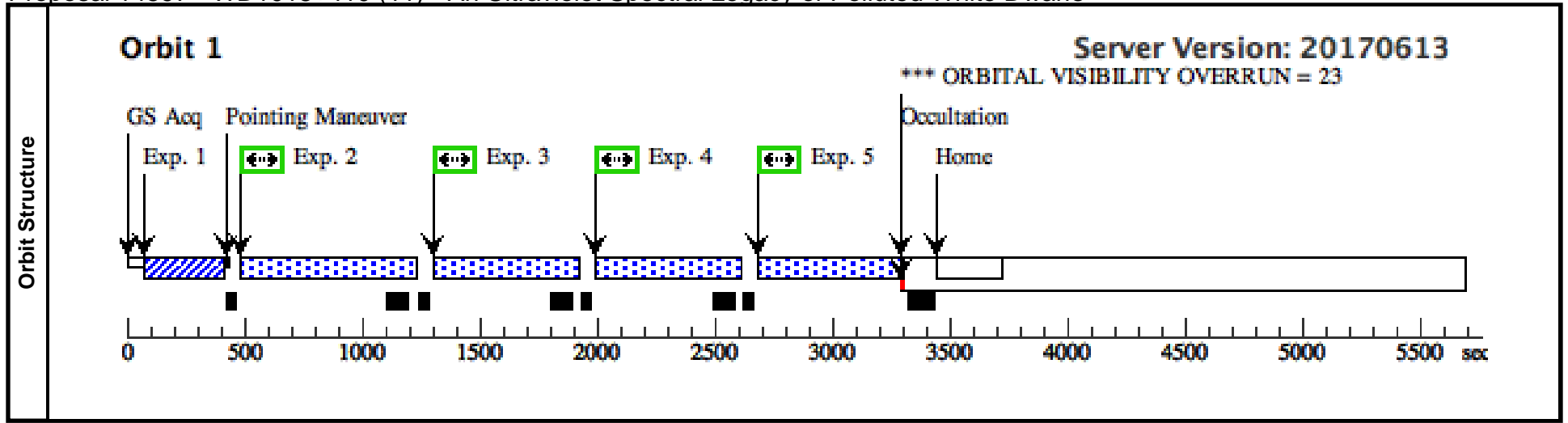




Proposal 14597 - WD1018+410 (11) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

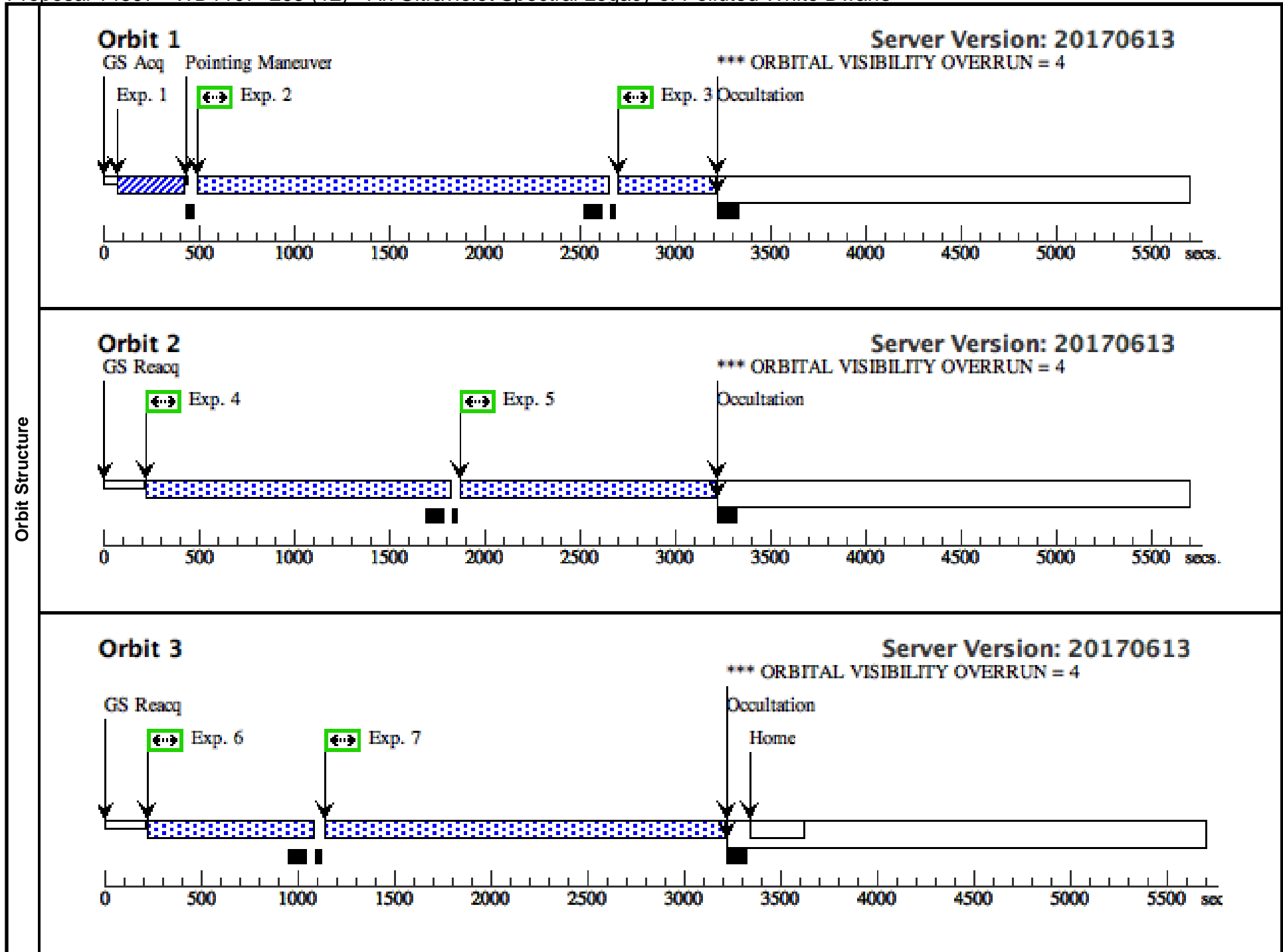
Visit	Proposal 14597, WD1018+410 (11), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Exposure 2 (WD1018+410 (11))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 3 (WD1018+410 (11))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 4 (WD1018+410 (11))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 5 (WD1018+410 (11))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1018+410 (11)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD1018+410 (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (WD1018+410 (11))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 3 (WD1018+410 (11))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 4 (WD1018+410 (11))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 5 (WD1018+410 (11))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	WD1018+410 Alt Name1: PG	RA: 10 21 55.5040 (155.4812667d) Dec: +40 50 14.62 (40.83739d) Equinox: J2000	Proper Motion RA: -21 mas/yr Proper Motion Dec: -12 mas/yr Epoch of Position: 2000.0	V=16.368+/-0.1 GALEX FUV=2330microJy GA LEX NUV=1780microJy	Reference Frame: ICRS				
Comments: Teff=22400K 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.827 (11) 588)	WD1018+410	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		GS ACQ SCENARI O BASE1B3		12 Secs (12 Secs) [==>]	[1]
	2	(COS.sp.827 (11) 589)	WD1018+410	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=46 0			567 Secs (567 Secs) [==>]	[1]
	3	(COS.sp.827 (11) 589)	WD1018+410	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=46 0			567 Secs (567 Secs) [==>]	[1]
	4	(COS.sp.827 (11) 589)	WD1018+410	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=46 0			567 Secs (567 Secs) [==>]	[1]
	5	(COS.sp.827 (11) 589)	WD1018+410	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=53 9			568 Secs (568 Secs) [==>]	[1]



Proposal 14597 - WD1107+265 (12) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

Visit	Proposal 14597, WD1107+265 (12), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Exposure 2 (WD1107+265 (12))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 3 (WD1107+265 (12))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 4 (WD1107+265 (12))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 5 (WD1107+265 (12))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 6 (WD1107+265 (12))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 7 (WD1107+265 (12))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1107+265 (12)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD1107+265 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1107+265 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1107+265 (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (WD1107+265 (12))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 3 (WD1107+265 (12))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 4 (WD1107+265 (12))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	WD1107+265 Alt Name1: GD128	RA: 11 09 59.8480 (167.4993667d) Dec: +26 18 47.23 (26.31312d) Equinox: J2000	Proper Motion RA: 75 mas/yr Proper Motion Dec: -152 mas/yr Epoch of Position: 2000.0	V=15.779+/-0.1 GALEX FUV=950microJy GAL EX NUV=1740microJy	Reference Frame: ICRS				
<i>Comments: Teff=14900K Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.828 567)	(12) WD1107+265	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				16 Secs (16 Secs) [==>]	[1]
	2	(COS.sp.827 602)	(12) WD1107+265	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=18 84			1994 Secs (1994 Secs) [==>]	[1]
	3	(COS.sp.827 602)	(12) WD1107+265	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=44 9			456 Secs (456 Secs) [==>]	[1]
	4	(COS.sp.827 602)	(12) WD1107+265	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=14 40			1550 Secs (1550 Secs) [==>]	[2]
	5	(COS.sp.827 602)	(12) WD1107+265	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=12 88			1288 Secs (1288 Secs) [==>]	[2]
	6	(COS.sp.827 602)	(12) WD1107+265	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=70 2			812 Secs (812 Secs) [==>]	[3]
	7	(COS.sp.827 602)	(12) WD1107+265	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=20 16			2016 Secs (2016 Secs) [==>]	[3]

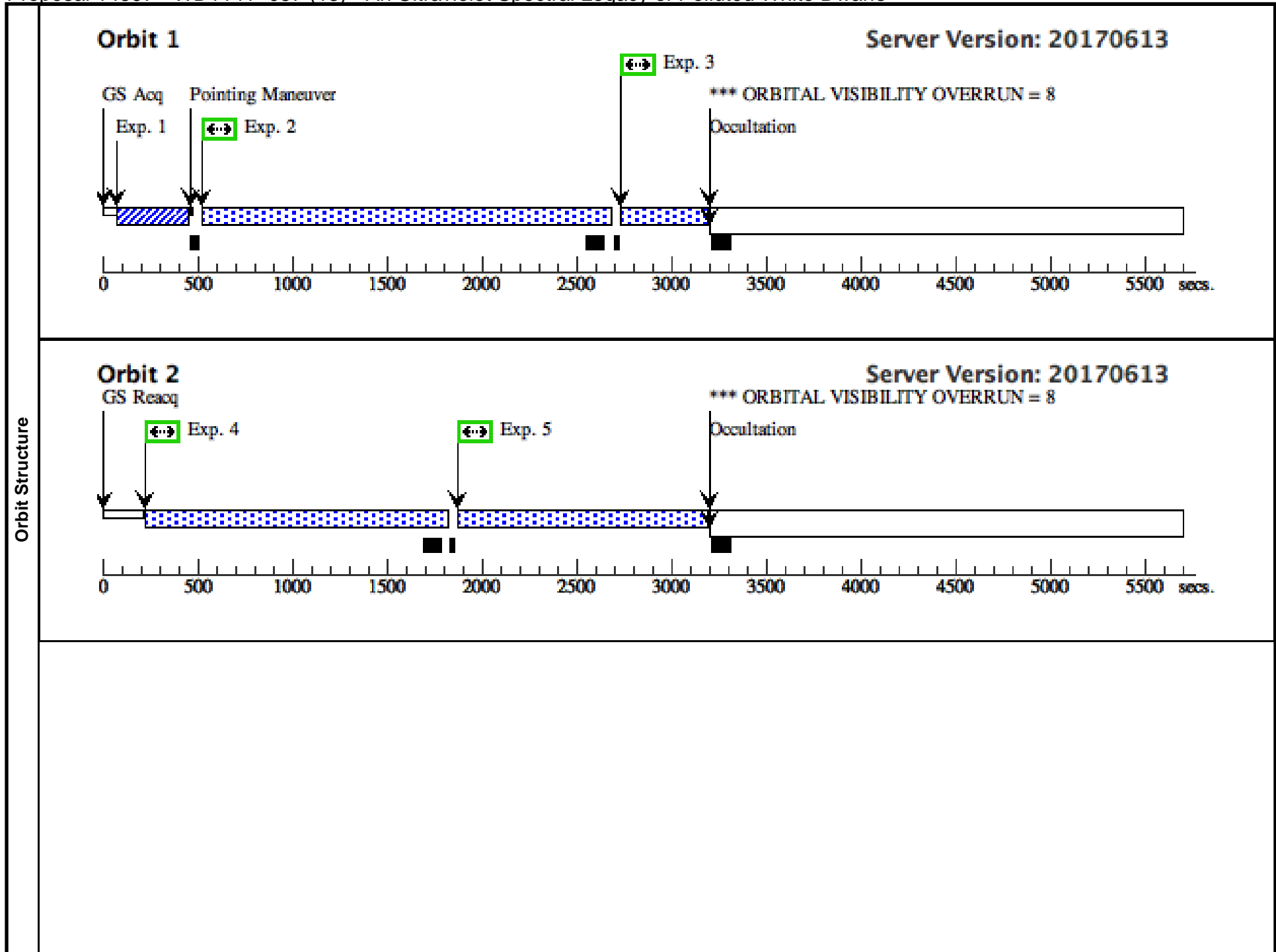


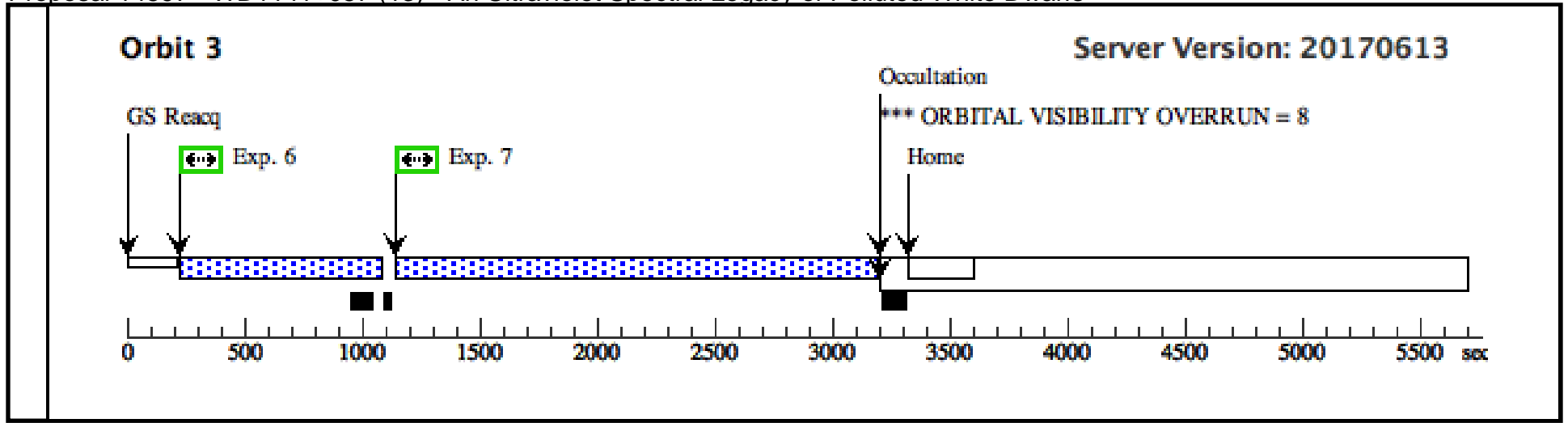
Orbit Structure

Proposal 14597 - WD1141+057 (13) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

Visit	Proposal 14597, WD1141+057 (13), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																																					
	(Exposure 2 (WD1141+057 (13))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 3 (WD1141+057 (13))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 4 (WD1141+057 (13))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 5 (WD1141+057 (13))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 6 (WD1141+057 (13))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 7 (WD1141+057 (13))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1141+057 (13)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD1141+057 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1141+057 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1141+057 (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (WD1141+057 (13))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 3 (WD1141+057 (13))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 4 (WD1141+057 (13))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.																																																																																					
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																																																																																
(13)	WD1141+057	RA: 11 44 4.7530 (176.0198042d) Dec: +05 29 51.74 (5.49771d) Equinox: J2000	Proper Motion RA: -70 mas/yr Proper Motion Dec: -26 mas/yr Epoch of Position: 2000.0	V=17.39+/-0.1 GALEX FUV=880microJy GAL EX NUV=640microJy	Reference Frame: ICRS																																																																																	
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(COS.ta.827 612)</td> <td>(13) WD1141+057</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td>GS ACQ SCENARI O BASE1B3</td> <td></td> <td>32 Secs (32 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(COS.sp.828 568)</td> <td>(13) WD1141+057</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=1; BUFFER-TIME=18 84</td> <td></td> <td></td> <td>1994 Secs (1994 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(COS.sp.828 568)</td> <td>(13) WD1141+057</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=2; BUFFER-TIME=40 8</td> <td></td> <td></td> <td>408 Secs (408 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>(COS.sp.828 568)</td> <td>(13) WD1141+057</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=2; BUFFER-TIME=14 40</td> <td></td> <td></td> <td>1550 Secs (1550 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>5</td> <td>(COS.sp.828 568)</td> <td>(13) WD1141+057</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; BUFFER-TIME=12 72</td> <td></td> <td></td> <td>1272 Secs (1272 Secs) [==>]</td> <td>[2]</td> </tr> <tr> <td>6</td> <td>(COS.sp.828 568)</td> <td>(13) WD1141+057</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; BUFFER-TIME=70 2</td> <td></td> <td></td> <td>812 Secs (812 Secs) [==>]</td> <td>[3]</td> </tr> <tr> <td>7</td> <td>(COS.sp.828 568)</td> <td>(13) WD1141+057</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; BUFFER-TIME=20 00</td> <td></td> <td></td> <td>2000 Secs (2000 Secs) [==>]</td> <td>[3]</td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(COS.ta.827 612)	(13) WD1141+057	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		GS ACQ SCENARI O BASE1B3		32 Secs (32 Secs) [==>]	[1]	2	(COS.sp.828 568)	(13) WD1141+057	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=18 84			1994 Secs (1994 Secs) [==>]	[1]	3	(COS.sp.828 568)	(13) WD1141+057	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=40 8			408 Secs (408 Secs) [==>]	[1]	4	(COS.sp.828 568)	(13) WD1141+057	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=14 40			1550 Secs (1550 Secs) [==>]	[2]	5	(COS.sp.828 568)	(13) WD1141+057	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=12 72			1272 Secs (1272 Secs) [==>]	[2]	6	(COS.sp.828 568)	(13) WD1141+057	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=70 2			812 Secs (812 Secs) [==>]	[3]	7	(COS.sp.828 568)	(13) WD1141+057	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=20 00			2000 Secs (2000 Secs) [==>]	[3]					
	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																												
	1	(COS.ta.827 612)	(13) WD1141+057	COS/NUV, ACQ/IMAGE, PSA	MIRRORB		GS ACQ SCENARI O BASE1B3		32 Secs (32 Secs) [==>]	[1]																																																																												
	2	(COS.sp.828 568)	(13) WD1141+057	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=18 84			1994 Secs (1994 Secs) [==>]	[1]																																																																												
	3	(COS.sp.828 568)	(13) WD1141+057	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=40 8			408 Secs (408 Secs) [==>]	[1]																																																																												
	4	(COS.sp.828 568)	(13) WD1141+057	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=14 40			1550 Secs (1550 Secs) [==>]	[2]																																																																												
	5	(COS.sp.828 568)	(13) WD1141+057	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=12 72			1272 Secs (1272 Secs) [==>]	[2]																																																																												
	6	(COS.sp.828 568)	(13) WD1141+057	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=70 2			812 Secs (812 Secs) [==>]	[3]																																																																												
7	(COS.sp.828 568)	(13) WD1141+057	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=20 00			2000 Secs (2000 Secs) [==>]	[3]																																																																													

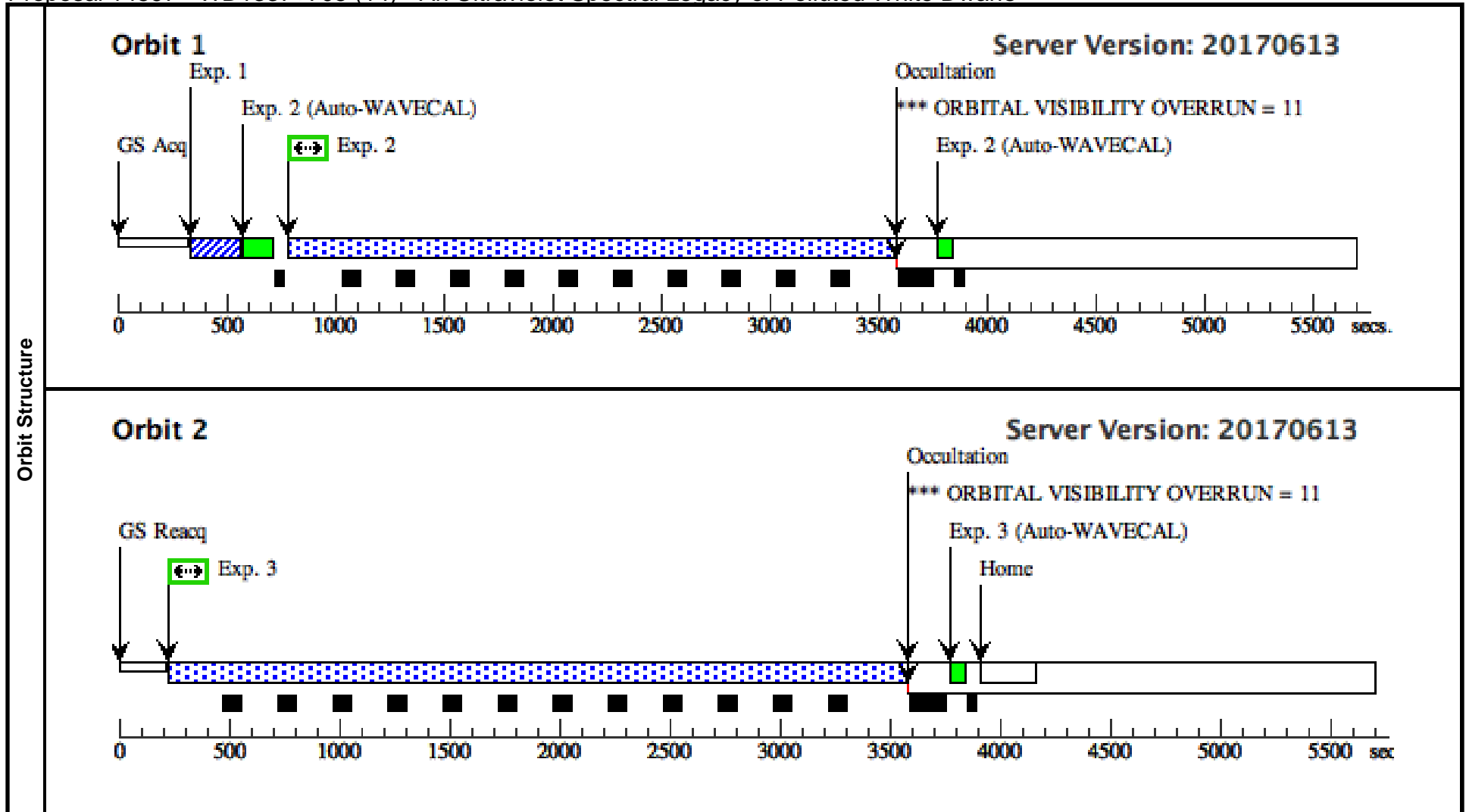




Proposal 14597 - WD1337+705 (14) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

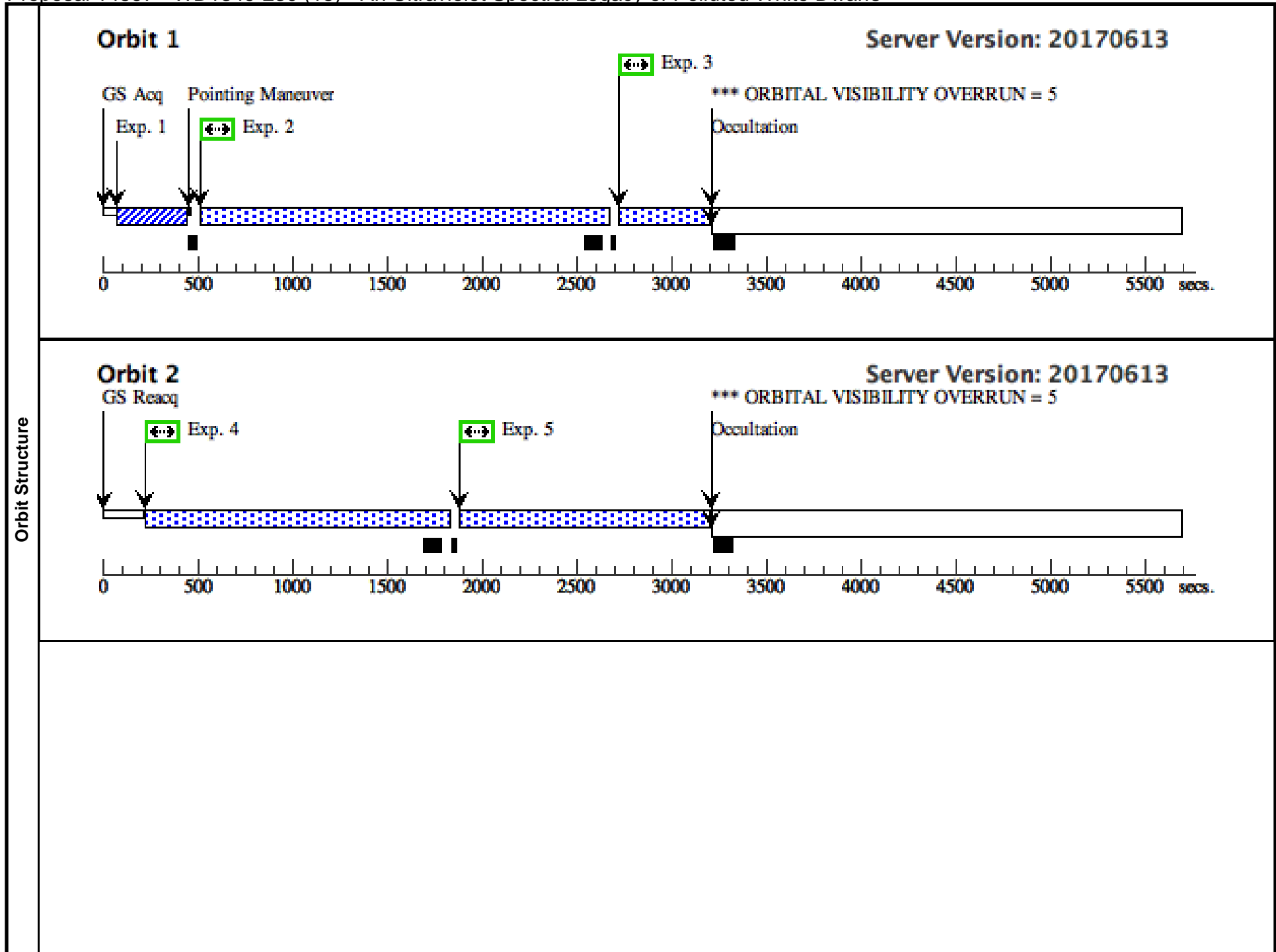
Visit	Proposal 14597, WD1337+705 (14), completed Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	(WD1337+705 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1337+705 (14)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	WD1337+705 Alt Name1: G238-44	RA: 13 38 50.4760 (204.7103167d) Dec: +70 17 7.68 (70.28547d) Equinox: J2000	Proper Motion RA: -404 mas/yr Proper Motion Dec: -22 mas/yr Epoch of Position: 2000.0	V=12.773+/-0.1 GALEX FUV=33700microJy G ALEX NUV=35000microJy	Reference Frame: ICRS				
Comments: Teff=20400K STIS not COS Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.827 650)	(14) WD1337+705	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) [==>]	[1]
	2	(STIS.sp.82 7654)	(14) WD1337+705	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=25 0			2782 Secs (2782 Secs) [==>]	[1]
	3	(STIS.sp.82 7654)	(14) WD1337+705	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=25 0			3344 Secs (3344 Secs) [==>]	[2]

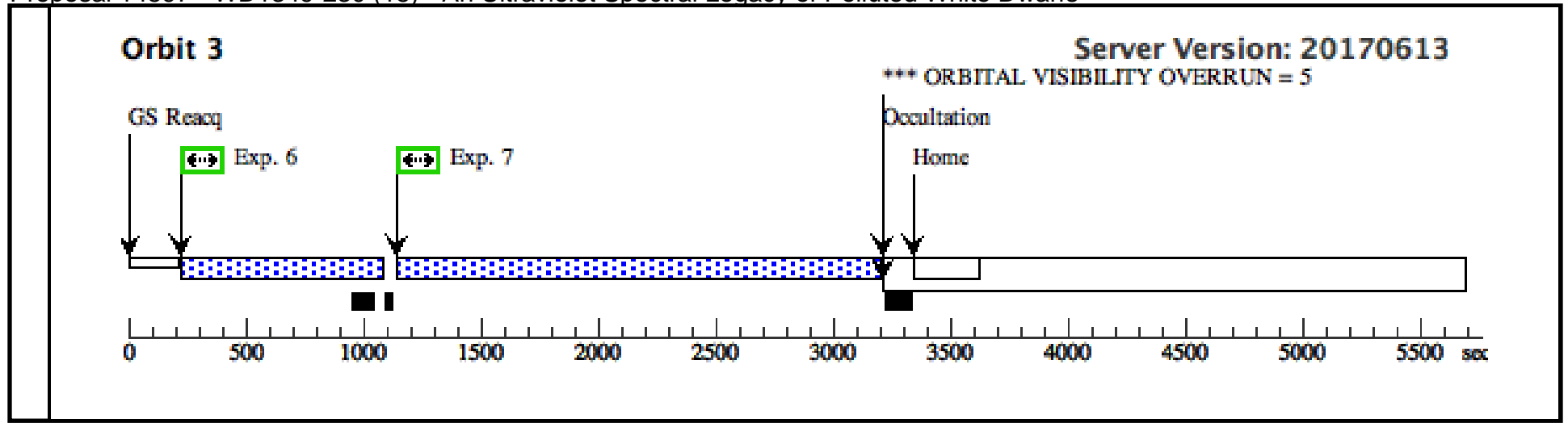


Proposal 14597 - WD1349-230 (15) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

Visit	Proposal 14597, WD1349-230 (15), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Exposure 2 (WD1349-230 (15))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 3 (WD1349-230 (15))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 4 (WD1349-230 (15))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 5 (WD1349-230 (15))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 6 (WD1349-230 (15))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 7 (WD1349-230 (15))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1349-230 (15)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD1349-230 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1349-230 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1349-230 (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (WD1349-230 (15))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 3 (WD1349-230 (15))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 4 (WD1349-230 (15))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	WD1349-230 Alt Name1: HE1349-2305	RA: 13 52 44.1540 (208.1839750d) Dec: -23 20 5.25 (-23.33479d) Equinox: J2000	Proper Motion RA: 6 mas/yr Proper Motion Dec: -18 mas/yr Epoch of Position: 2000.0	V=16.378+/-0.1 GALEX FUV=880microJy GAL EX NUV=1160microJy	Reference Frame: ICRS				
<i>Comments: Teff=18200K Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.827 658)	(15) WD1349-230	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				25 Secs (25 Secs) [==>]	[1]
	2	(COS.sp.827 659)	(15) WD1349-230	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=18 84			1994 Secs (1994 Secs) [==>]	[1]
	3	(COS.sp.827 659)	(15) WD1349-230	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=40 8			431 Secs (431 Secs) [==>]	[1]
	4	(COS.sp.827 659)	(15) WD1349-230	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=14 40			1559 Secs (1559 Secs) [==>]	[2]
	5	(COS.sp.827 659)	(15) WD1349-230	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=12 72			1272 Secs (1272 Secs) [==>]	[2]
	6	(COS.sp.827 659)	(15) WD1349-230	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=70 2			812 Secs (812 Secs) [==>]	[3]
	7	(COS.sp.827 659)	(15) WD1349-230	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=20 00			2009 Secs (2009 Secs) [==>]	[3]

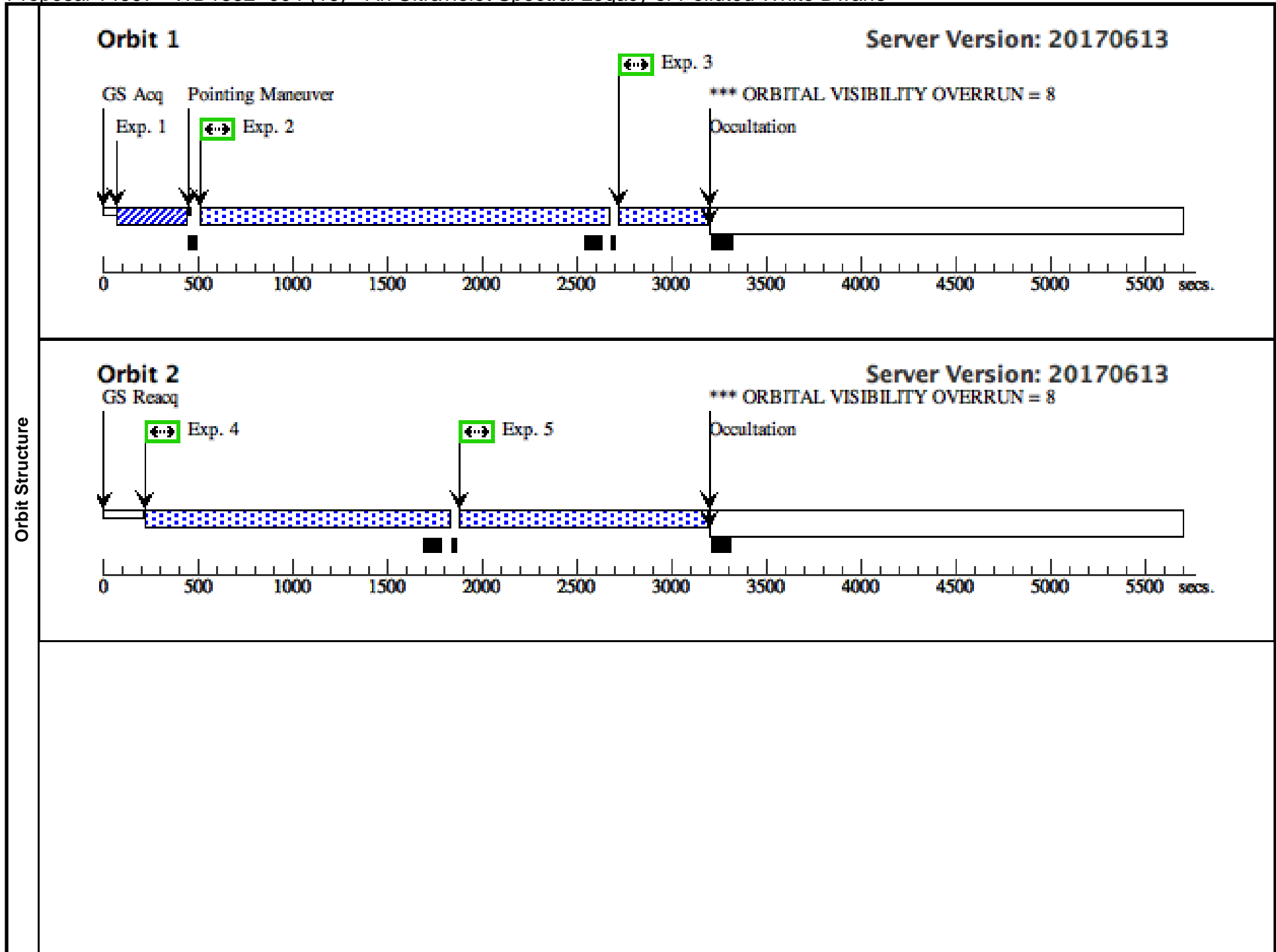


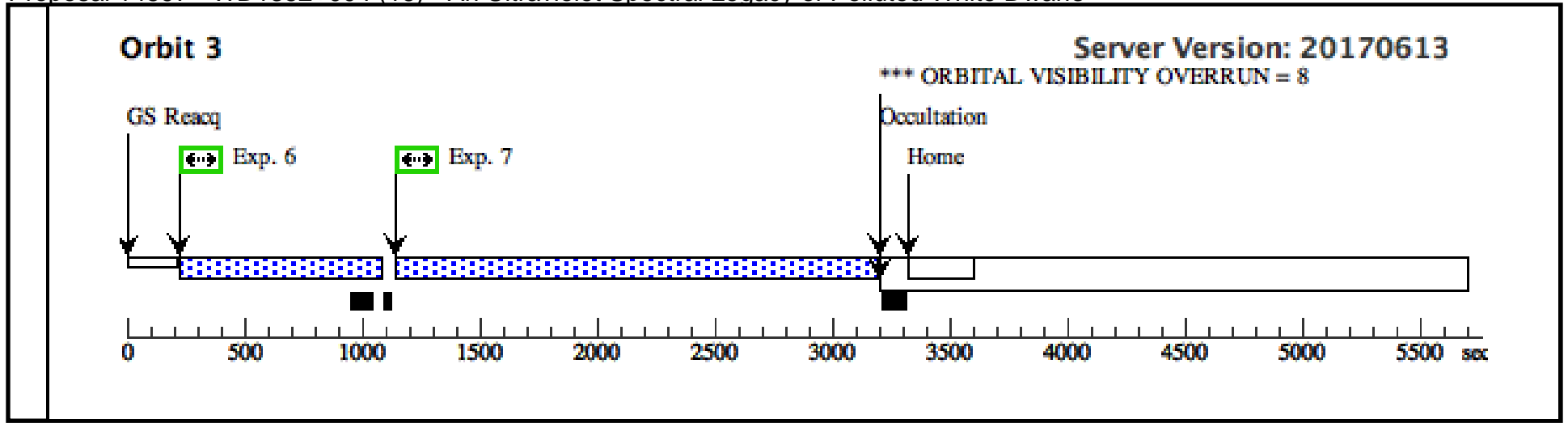


Proposal 14597 - WD1352+004 (16) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

Visit	Proposal 14597, WD1352+004 (16), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Exposure 2 (WD1352+004 (16))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 3 (WD1352+004 (16))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 4 (WD1352+004 (16))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 5 (WD1352+004 (16))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 6 (WD1352+004 (16))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 7 (WD1352+004 (16))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1352+004 (16)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD1352+004 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1352+004 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1352+004 (16)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (WD1352+004 (16))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 3 (WD1352+004 (16))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 4 (WD1352+004 (16))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(16)	WD1352+004 Alt Name1: PG	RA: 13 55 32.4080 (208.8850333d) Dec: +00 11 23.98 (.18999d) Equinox: J2000	Proper Motion RA: -47 mas/yr Proper Motion Dec: -43 mas/yr Epoch of Position: 2000.0	V=15.852+/-0.1 GALEX FUV=0microJy GALE X NUV=1570microJy	Reference Frame: ICRS				
<i>Comments: Teff=14000K Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.827 (16) 667)	(16) WD1352+004	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				25 Secs (25 Secs) [==>]	[1]
	2	(COS.sp.827 (16) 668)	(16) WD1352+004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=18 84			1994 Secs (1994 Secs) [==>]	[1]
	3	(COS.sp.827 (16) 668)	(16) WD1352+004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=40 8			419 Secs (419 Secs) [==>]	[1]
	4	(COS.sp.827 (16) 668)	(16) WD1352+004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=14 40			1559 Secs (1559 Secs) [==>]	[2]
	5	(COS.sp.827 (16) 668)	(16) WD1352+004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=12 60			1260 Secs (1260 Secs) [==>]	[2]
	6	(COS.sp.827 (16) 668)	(16) WD1352+004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=70 2			812 Secs (812 Secs) [==>]	[3]
	7	(COS.sp.827 (16) 668)	(16) WD1352+004	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=19 97			1997 Secs (1997 Secs) [==>]	[3]





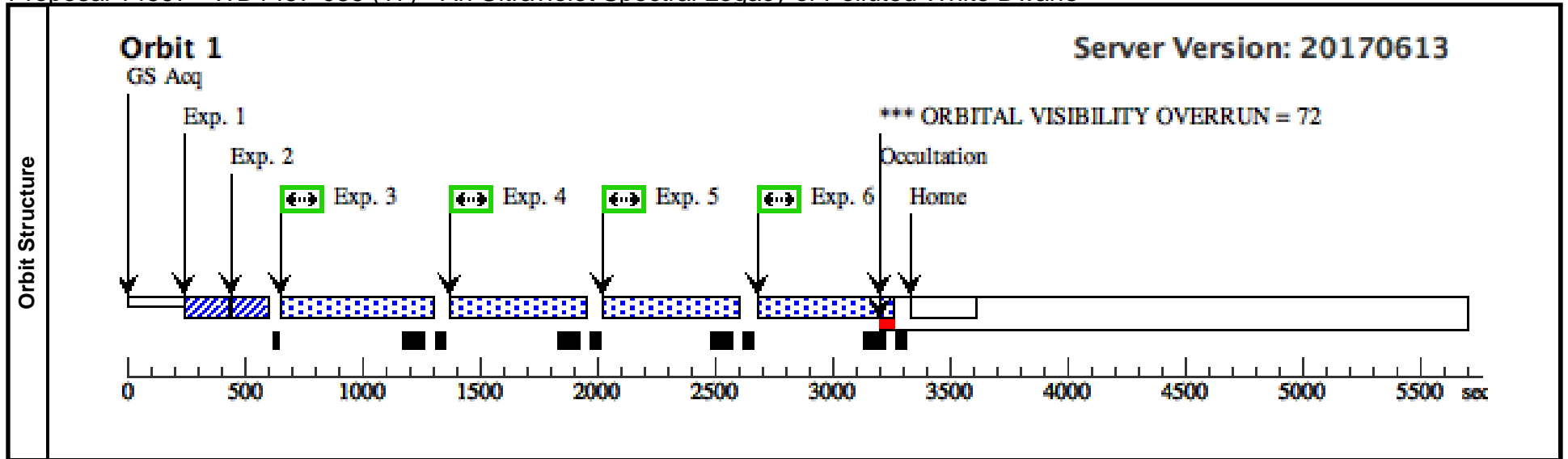
Proposal 14597 - WD1457-086 (17) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

Visit	Proposal 14597, WD1457-086 (17), failed Diagnostic Status: Error Scientific Instruments: COS/FUV Special Requirements: (none)						
	Diagnostics	(ACQ/PEAKXD (17.001)) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (ACQ/PEAKD (17.002)) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1457-086 COS/G130M FP-POS=1 (17.003)) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1457-086 COS/G130M FP-POS=1 (17.004)) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1457-086 COS/G130M FP-POS=4 (17.005)) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1457-086 COS/G130M FP-POS=4 (17.006)) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1457-086 (17)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/PEAKXD. (WD1457-086 (17)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (ACQ/PEAKXD (17.001)) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (ACQ/PEAKD (17.002)) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (WD1457-086 COS/G130M FP-POS=1 (17.003)) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (WD1457-086 COS/G130M FP-POS=1 (17.004)) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (WD1457-086 COS/G130M FP-POS=4 (17.005)) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (WD1457-086 COS/G130M FP-POS=4 (17.006)) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.					
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
		(17)	WD1457-086 Alt Name1: PG	RA: 14 59 52.9880 (224.9707833d) Dec: -08 49 29.67 (-8.82491d) Equinox: J2000	Proper Motion RA: 7 mas/yr Proper Motion Dec: -48 mas/yr Epoch of Position: 2000.0	V=15.759+/-0.1 GALEX FUV=0microJy GALE X NUV=0microJy	Reference Frame: ICRS
Comments: Teff=21450K Extended=NO							

Proposal 14597 - WD1457-086 (17) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ/PEAK XD (COS.sa.626 099)	(17) WD1457-086	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A					2 Secs (2 Secs) [==>]	[1]
	<i>Comments: This target has no GALEX fluxes, we rely on the WD model predictions for the UV, which are way below any safety threshold.</i>										
	2	ACQ/PEAK D (COS.sa.626 099)	(17) WD1457-086	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF				2 Secs (2 Secs) [==>]	[1]
	<i>Comments: This target has no GALEX fluxes, we rely on the WD model predictions for the UV, which are way below any safety threshold.</i>										
	3	WD1457-08 6 COS/G130 M FP-POS= 1 (COS.sp.827 681)	(17) WD1457-086	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=41 8; FLASH=YES; FP-POS=1				528 Secs (528 Secs) [==>]	[1]
	<i>Comments: This target has no GALEX fluxes, we rely on the WD model predictions for the UV, which are way below any safety threshold.</i>										
4	WD1457-08 6 COS/G130 M FP-POS= 1 (COS.sp.827 681)	(17) WD1457-086	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=41 8; FLASH=YES; FP-POS=2				528 Secs (528 Secs) [==>]	[1]	
<i>Comments: This target has no GALEX fluxes, we rely on the WD model predictions for the UV, which are way below any safety threshold.</i>											
5	WD1457-08 6 COS/G130 M FP-POS= 4 (COS.sp.827 681)	(17) WD1457-086	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=41 8; FLASH=YES; FP-POS=3				528 Secs (528 Secs) [==>]	[1]	
<i>Comments: This target has no GALEX fluxes, we rely on the WD model predictions for the UV, which are way below any safety threshold.</i>											
6	WD1457-08 6 COS/G130 M FP-POS= 4 (COS.sp.827 681)	(17) WD1457-086	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=41 8; FLASH=YES; FP-POS=4				530 Secs (530 Secs) [==>]	[1]	
<i>Comments: This target has no GALEX fluxes, we rely on the WD model predictions for the UV, which are way below any safety threshold.</i>											



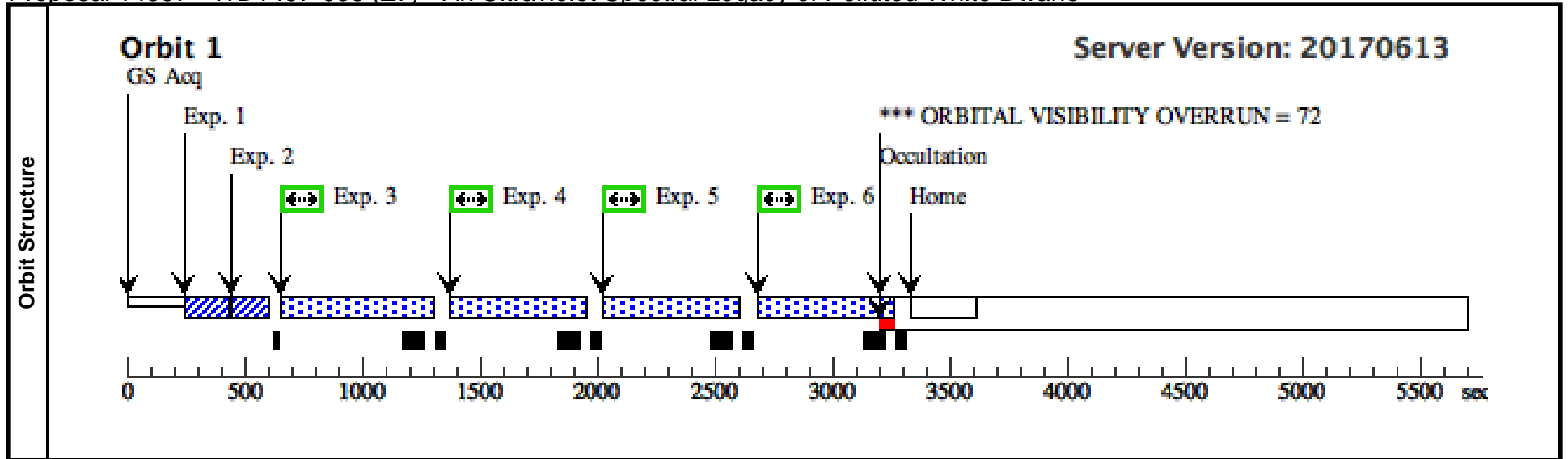
Proposal 14597 - WD1457-086 (Z7) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

Visit	<p>Proposal 14597, WD1457-086 (Z7), completed</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: COS/FUV</p> <p>Special Requirements: (none)</p> <p><i>Comments: Repeat of Visit 17, with the central wavelength at 1291A instead of 1327A.</i></p>																												
	Diagnostics	<p>(ACQ/PEAKXD (Z7.001)) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(ACQ/PEAKD (Z7.002)) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(WD1457-086 COS/G130M FP-POS=1 (Z7.003)) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(WD1457-086 COS/G130M FP-POS=1 (Z7.004)) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(WD1457-086 COS/G130M FP-POS=4 (Z7.005)) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(WD1457-086 COS/G130M FP-POS=4 (Z7.006)) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(WD1457-086 (Z7)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/PEAKXD.</p> <p>(WD1457-086 (Z7)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(WD1457-086 COS/G130M FP-POS=1 (Z7.003)) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.</p> <p>(WD1457-086 COS/G130M FP-POS=1 (Z7.004)) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. 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>(17)</td> <td>WD1457-086</td> <td>RA: 14 59 52.9880 (224.9707833d)</td> <td>Proper Motion RA: 7 mas/yr</td> <td>V=15.759+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: PG</td> <td>Dec: -08 49 29.67 (-8.82491d)</td> <td>Proper Motion Dec: -48 mas/yr</td> <td>GALEX FUV=0microJy GALE X NUV=0microJy</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Equinox: J2000</td> <td>Epoch of Position: 2000.0</td> <td></td> <td></td> </tr> </tbody> </table> <p><i>Comments: Teff=21450K Extended=NO</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(17)	WD1457-086	RA: 14 59 52.9880 (224.9707833d)	Proper Motion RA: 7 mas/yr	V=15.759+/-0.1	Reference Frame: ICRS		Alt Name1: PG	Dec: -08 49 29.67 (-8.82491d)	Proper Motion Dec: -48 mas/yr	GALEX FUV=0microJy GALE X NUV=0microJy				Equinox: J2000	Epoch of Position: 2000.0	
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
(17)	WD1457-086	RA: 14 59 52.9880 (224.9707833d)	Proper Motion RA: 7 mas/yr	V=15.759+/-0.1	Reference Frame: ICRS																								
	Alt Name1: PG	Dec: -08 49 29.67 (-8.82491d)	Proper Motion Dec: -48 mas/yr	GALEX FUV=0microJy GALE X NUV=0microJy																									
		Equinox: J2000	Epoch of Position: 2000.0																										

Proposal 14597 - WD1457-086 (Z7) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	ACQ/PEAK XD (COS.sa.626 099)	(17) WD1457-086	COS/FUV, ACQ/PEAKXD, PSA	G130M 1291 A					2 Secs (2 Secs) [==>]	[1]
	<i>Comments: This target has no GALEX fluxes, we rely on the WD model predictions for the UV, which are way below any safety threshold.</i>										
	2	ACQ/PEAK D (COS.sa.626 099)	(17) WD1457-086	COS/FUV, ACQ/PEAKD, PSA	G130M 1291 A	STEP-SIZE=0.9; NUM-POS=5; CENTER=DEF				2 Secs (2 Secs) [==>]	[1]
	<i>Comments: This target has no GALEX fluxes, we rely on the WD model predictions for the UV, which are way below any safety threshold.</i>										
	3	WD1457-08 6 COS/G130 M FP-POS= 1 (COS.sp.827 681)	(17) WD1457-086	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=41 8; FLASH=YES; FP-POS=1				528 Secs (528 Secs) [==>]	[1]
	<i>Comments: This target has no GALEX fluxes, we rely on the WD model predictions for the UV, which are way below any safety threshold.</i>										
4	WD1457-08 6 COS/G130 M FP-POS= 1 (COS.sp.827 681)	(17) WD1457-086	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=41 8; FLASH=YES; FP-POS=2				528 Secs (528 Secs) [==>]	[1]	
<i>Comments: This target has no GALEX fluxes, we rely on the WD model predictions for the UV, which are way below any safety threshold.</i>											
5	WD1457-08 6 COS/G130 M FP-POS= 4 (COS.sp.827 681)	(17) WD1457-086	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=41 8; FLASH=YES; FP-POS=3				528 Secs (528 Secs) [==>]	[1]	
<i>Comments: This target has no GALEX fluxes, we rely on the WD model predictions for the UV, which are way below any safety threshold.</i>											
6	WD1457-08 6 COS/G130 M FP-POS= 4 (COS.sp.827 681)	(17) WD1457-086	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=41 8; FLASH=YES; FP-POS=4				530 Secs (530 Secs) [==>]	[1]	
<i>Comments: This target has no GALEX fluxes, we rely on the WD model predictions for the UV, which are way below any safety threshold.</i>											



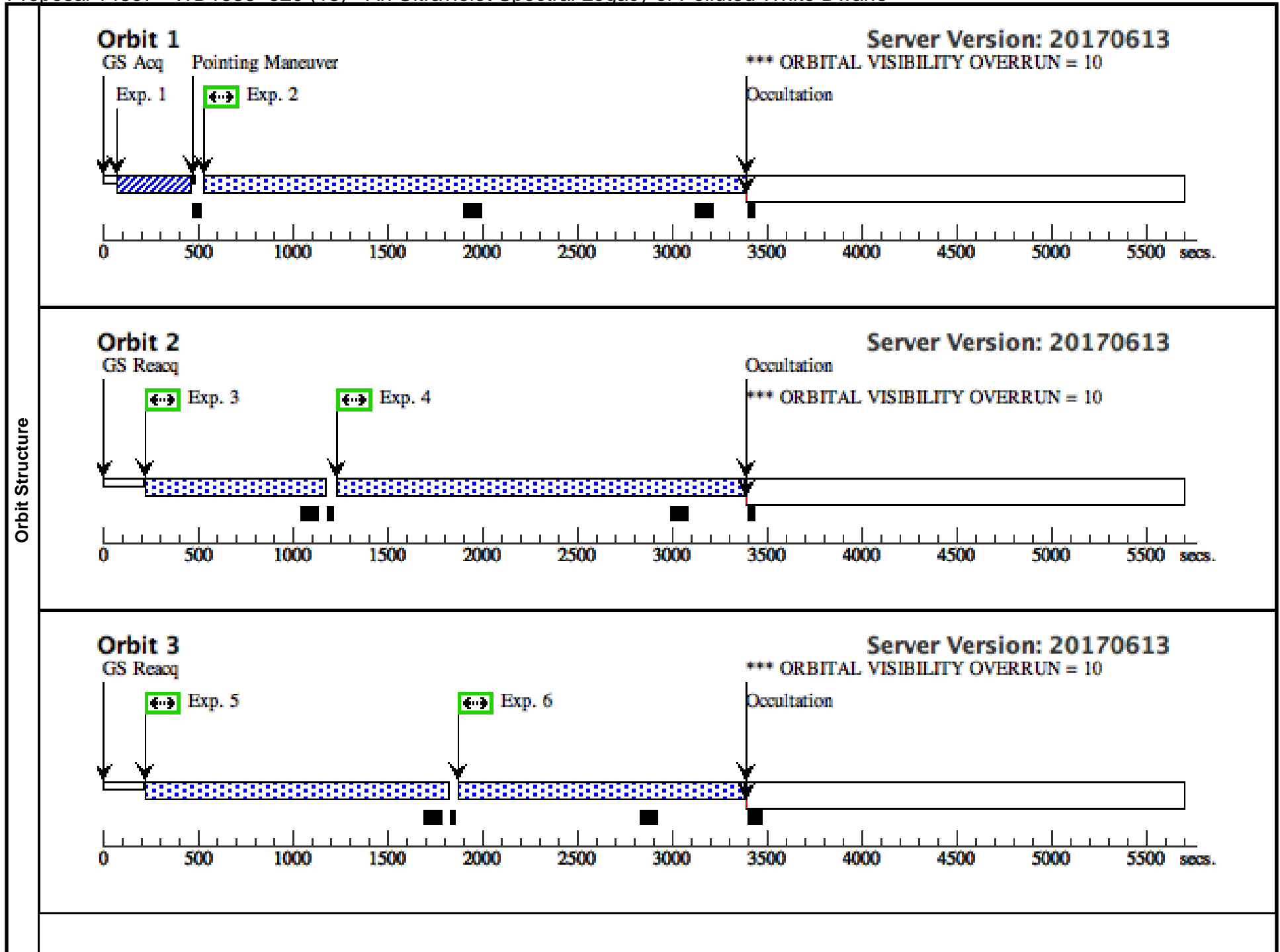
Proposal 14597 - WD1536+520 (18) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

Visit	Proposal 14597, WD1536+520 (18), failed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																												
	Diagnostics	(Exposure 2 (WD1536+520 (18))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 3 (WD1536+520 (18))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 4 (WD1536+520 (18))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 5 (WD1536+520 (18))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 6 (WD1536+520 (18))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 7 (WD1536+520 (18))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 8 (WD1536+520 (18))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 9 (WD1536+520 (18))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1536+520 (18)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD1536+520 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1536+520 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1536+520 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1536+520 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1536+520 (18)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (WD1536+520 (18))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 3 (WD1536+520 (18))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 4 (WD1536+520 (18))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 5 (WD1536+520 (18))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.																											
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	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																							
(18)	WD1536+520	RA: 15 37 25.7180 (234.3571583d)	Proper Motion RA: -35 mas/yr	V=17.17+/-0.1	Reference Frame: ICRS																								
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	Comments: $T_{eff}=20800K$ Extended=NO																												

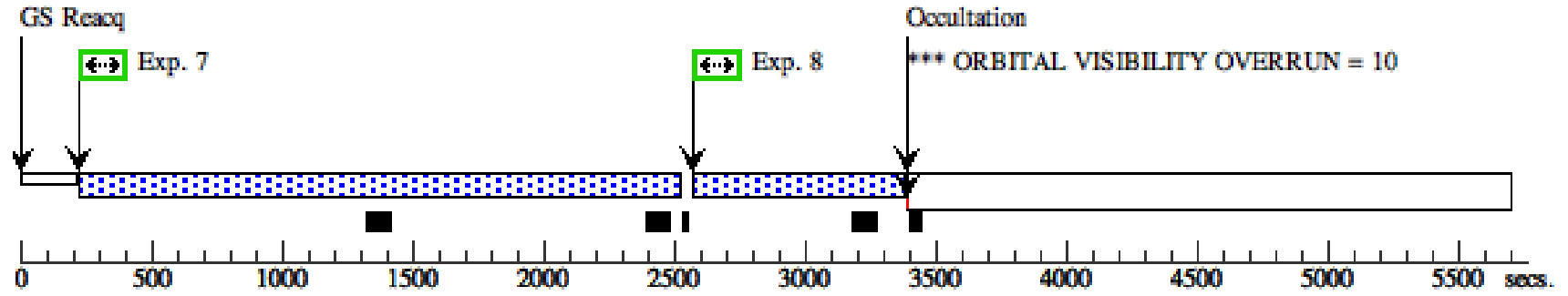
Proposal 14597 - WD1536+520 (18) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(COS.ta.827 (18) 738)	WD1536+520	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					35 Secs (35 Secs) [==>]	[1]
	2	(COS.sp.827 (18) 751)	WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=12 20				2691 Secs (2691 Secs) [==>]	[1]
	3	(COS.sp.827 (18) 751)	WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=79 0				900 Secs (900 Secs) [==>]	[2]
	4	(COS.sp.827 (18) 751)	WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=17 24				2102 Secs (2102 Secs) [==>]	[2]
	5	(COS.sp.827 (18) 751)	WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=14 40				1550 Secs (1550 Secs) [==>]	[3]
	6	(COS.sp.827 (18) 751)	WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=92 2				1462 Secs (1462 Secs) [==>]	[3]
	7	(COS.sp.827 (18) 751)	WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 70				2250 Secs (2250 Secs) [==>]	[4]
	8	(COS.sp.827 (18) 751)	WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=57 2				762 Secs (762 Secs) [==>]	[4]
	9	(COS.sp.827 (18) 751)	WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=14 31				3117 Secs (3117 Secs) [==>]	[5]



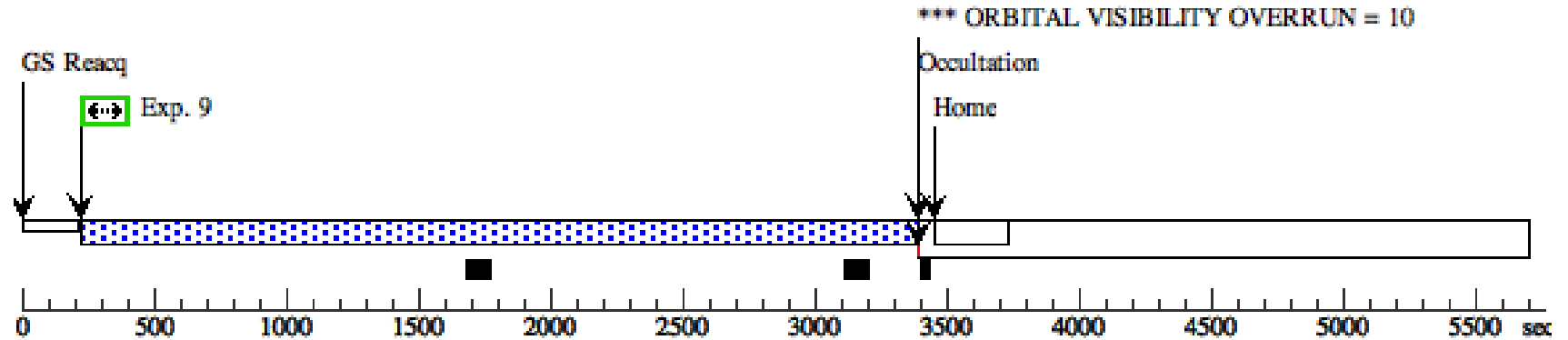
Orbit 4

Server Version: 20170613



Orbit 5

Server Version: 20170613



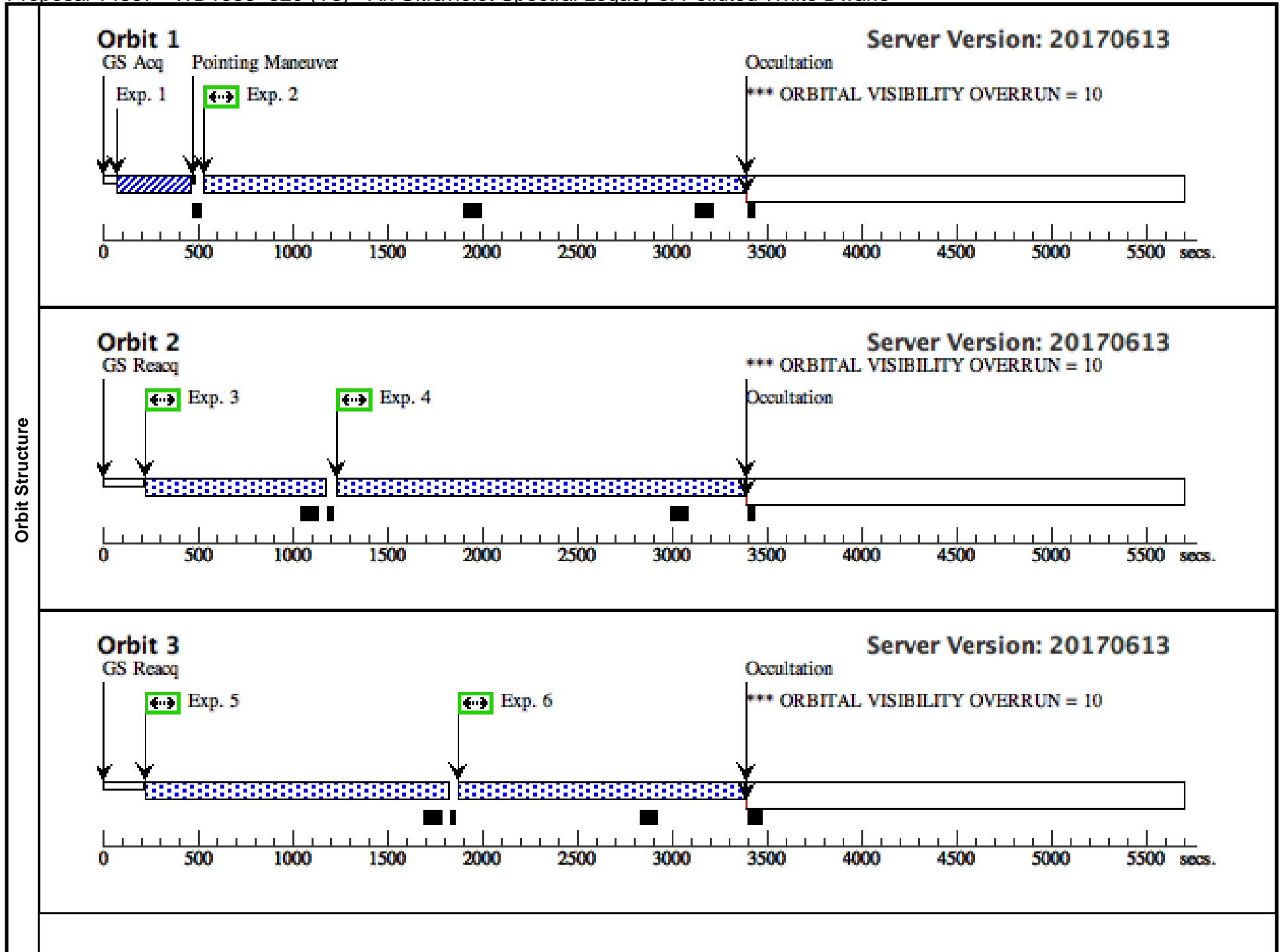
Proposal 14597 - WD1536+520 (Y8) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

Visit	Proposal 14597, WD1536+520 (Y8), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)					
Diagnostics	(WD1536+520 (Y8)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD1536+520 (Y8)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1536+520 (Y8)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1536+520 (Y8)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1536+520 (Y8)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1536+520 (Y8)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(18)	WD1536+520	RA: 15 37 25.7180 (234.3571583d)	Proper Motion RA: -35 mas/yr	V=17.17+/-0.1	Reference Frame: ICRS
		Alt Name1: SDSSJ153725.71+51512 6.9	Dec: +51 51 26.85 (51.85746d) Equinox: J2000	Proper Motion Dec: 16 mas/yr Epoch of Position: 2000.0	GALEX FUV=650microJy GAL EX NUV=730microJy	
	Comments: <i>Teff=20800K</i> Extended= <i>NO</i>					

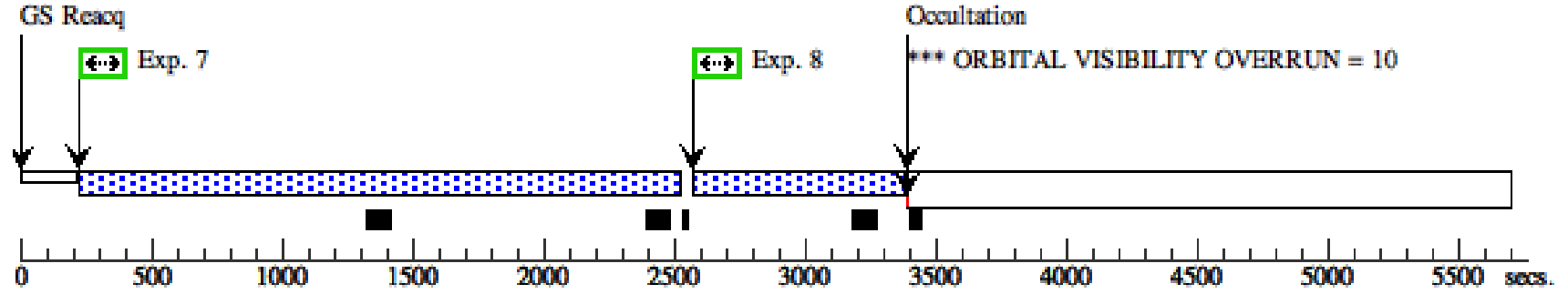
Proposal 14597 - WD1536+520 (Y8) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(COS.ta.827 738)	(18) WD1536+520	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					35 Secs (35 Secs) [==>]	[1]
	2	(COS.sp.827 751)	(18) WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=12 20; LIFETIME-POS=L P3				2691 Secs (2691 Secs) [==>]	[1]
	3	(COS.sp.827 751)	(18) WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=79 0; LIFETIME-POS=L P3				900 Secs (900 Secs) [==>]	[2]
	4	(COS.sp.827 751)	(18) WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=17 24; LIFETIME-POS=L P3				2102 Secs (2102 Secs) [==>]	[2]
	5	(COS.sp.827 751)	(18) WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=14 40; LIFETIME-POS=L P3				1550 Secs (1550 Secs) [==>]	[3]
	6	(COS.sp.827 751)	(18) WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=92 2; LIFETIME-POS=L P3				1462 Secs (1462 Secs) [==>]	[3]
	7	(COS.sp.827 751)	(18) WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 70; LIFETIME-POS=L P3				2250 Secs (2250 Secs) [==>]	[4]
	8	(COS.sp.827 751)	(18) WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=57 2; LIFETIME-POS=L P3				762 Secs (762 Secs) [==>]	[4]
	9	(COS.sp.827 751)	(18) WD1536+520	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=14 31; LIFETIME-POS=L P3				3117 Secs (3117 Secs) [==>]	[5]



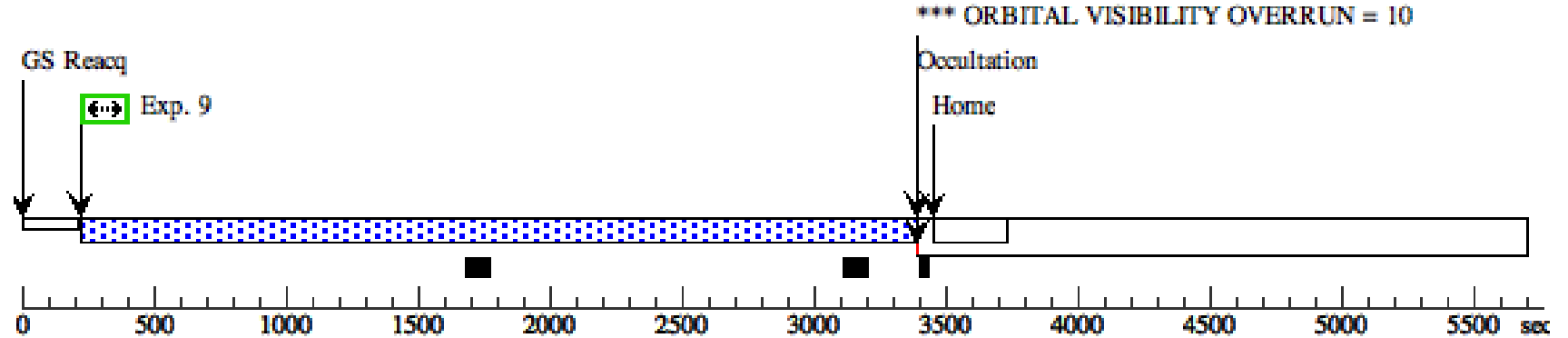
Orbit 4

Server Version: 20170613



Orbit 5

Server Version: 20170613



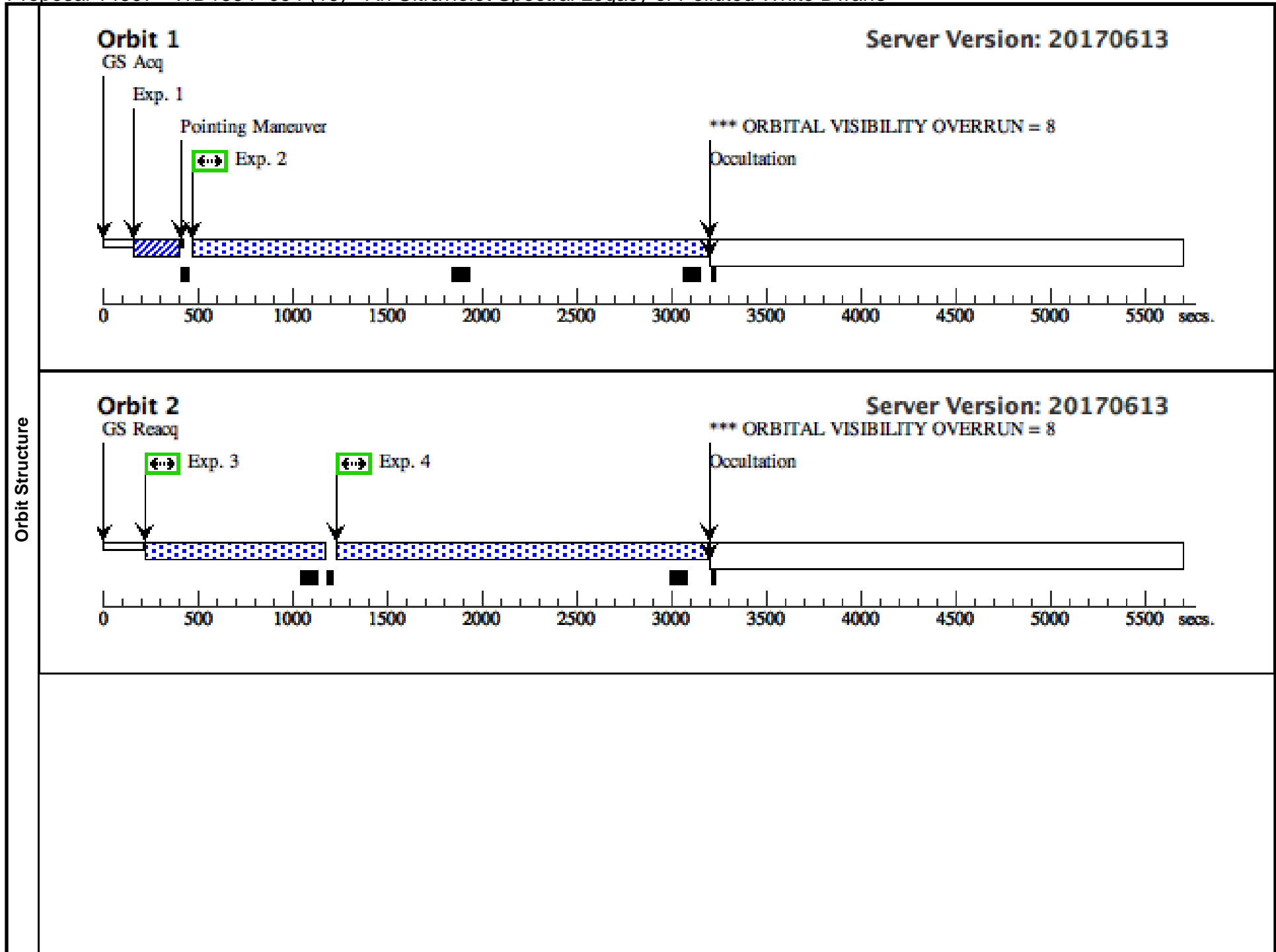
Proposal 14597 - WD1554+094 (19) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

Visit	Proposal 14597, WD1554+094 (19), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)						
	Diagnostics	(Exposure 2 (WD1554+094 (19))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 3 (WD1554+094 (19))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 4 (WD1554+094 (19))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 5 (WD1554+094 (19))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 6 (WD1554+094 (19))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 7 (WD1554+094 (19))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 8 (WD1554+094 (19))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 9 (WD1554+094 (19))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1554+094 (19)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD1554+094 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1554+094 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1554+094 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1554+094 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1554+094 (19)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (WD1554+094 (19))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 3 (WD1554+094 (19))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 4 (WD1554+094 (19))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 5 (WD1554+094 (19))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.					
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
		(19)	WD1554+094 Alt Name1: SDSSJ155720.77+09162 4.6	RA: 15 57 20.7760 (239.3365667d) Dec: +09 16 24.69 (9.27353d) Equinox: J2000	Proper Motion RA: -8 mas/yr Proper Motion Dec: -24 mas/yr Epoch of Position: 2000.0	V=18.5+/-0.1 GALEX FUV=220microJy GAL EX NUV=190microJy	Reference Frame: ICRS
Comments: $T_{eff}=22800K$ Extended=NO							

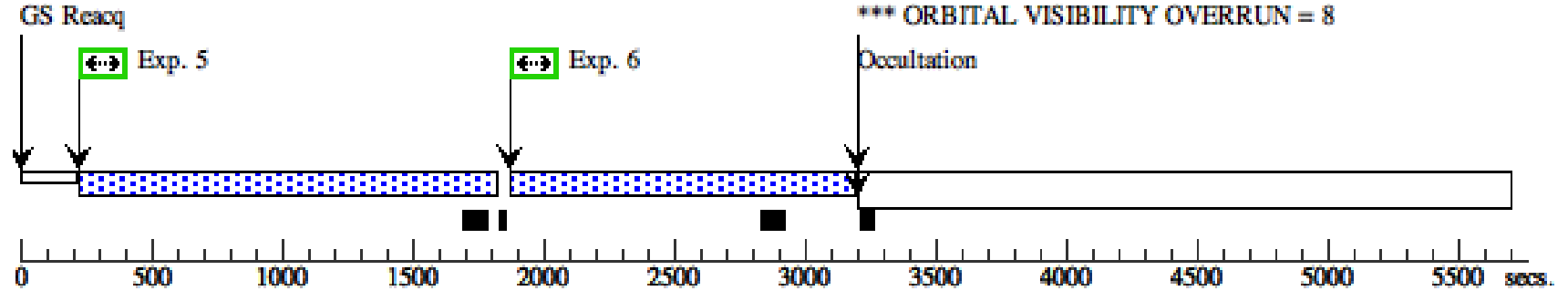
Proposal 14597 - WD1554+094 (19) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(COS.ta.828 (19) WD1554+094 571)	(19) WD1554+094	COS/NUV, ACQ/IMAGE, PSA	MIRRORA					7 Secs (7 Secs) [==>]	[1]
	2	(COS.sp.828 (19) WD1554+094 570)	(19) WD1554+094	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=12 20				2557 Secs (2557 Secs) [==>]	[1]
	3	(COS.sp.828 (19) WD1554+094 570)	(19) WD1554+094	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=79 0				900 Secs (900 Secs) [==>]	[2]
	4	(COS.sp.828 (19) WD1554+094 570)	(19) WD1554+094	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=17 24				1912 Secs (1912 Secs) [==>]	[2]
	5	(COS.sp.828 (19) WD1554+094 570)	(19) WD1554+094	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=14 40				1550 Secs (1550 Secs) [==>]	[3]
	6	(COS.sp.828 (19) WD1554+094 570)	(19) WD1554+094	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=92 2				1272 Secs (1272 Secs) [==>]	[3]
	7	(COS.sp.828 (19) WD1554+094 570)	(19) WD1554+094	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 70				2250 Secs (2250 Secs) [==>]	[4]
	8	(COS.sp.828 (19) WD1554+094 570)	(19) WD1554+094	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=57 2				572 Secs (572 Secs) [==>]	[4]
	9	(COS.sp.828 (19) WD1554+094 570)	(19) WD1554+094	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=14 31				2927 Secs (2927 Secs) [==>]	[5]



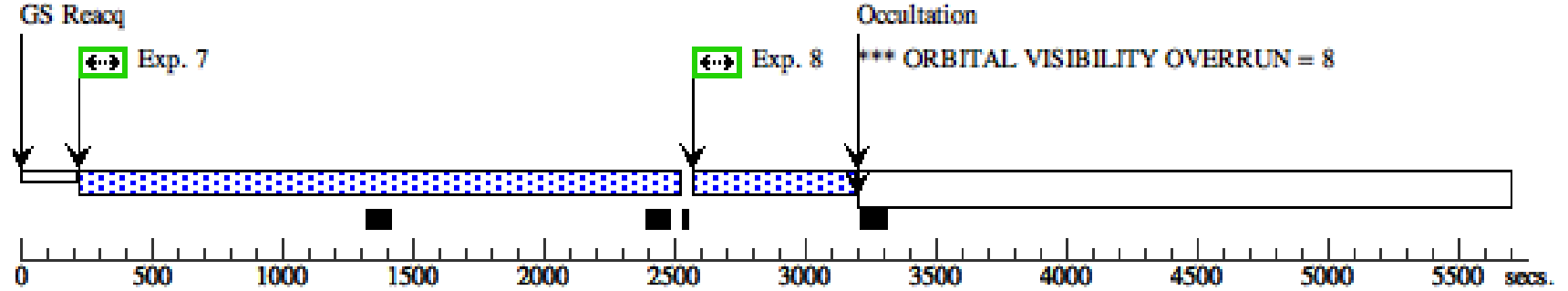
Orbit 3

Server Version: 20170613



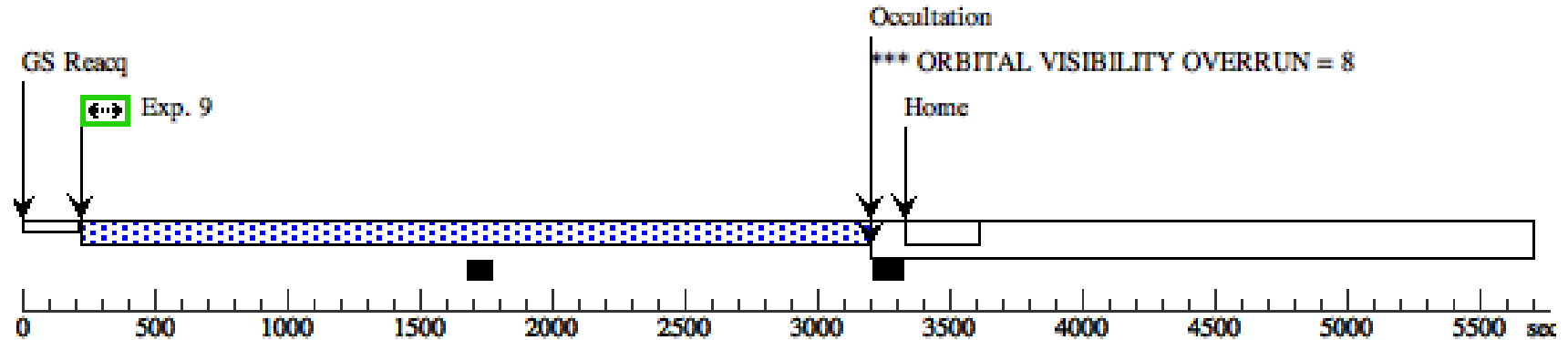
Orbit 4

Server Version: 20170613



Orbit 5

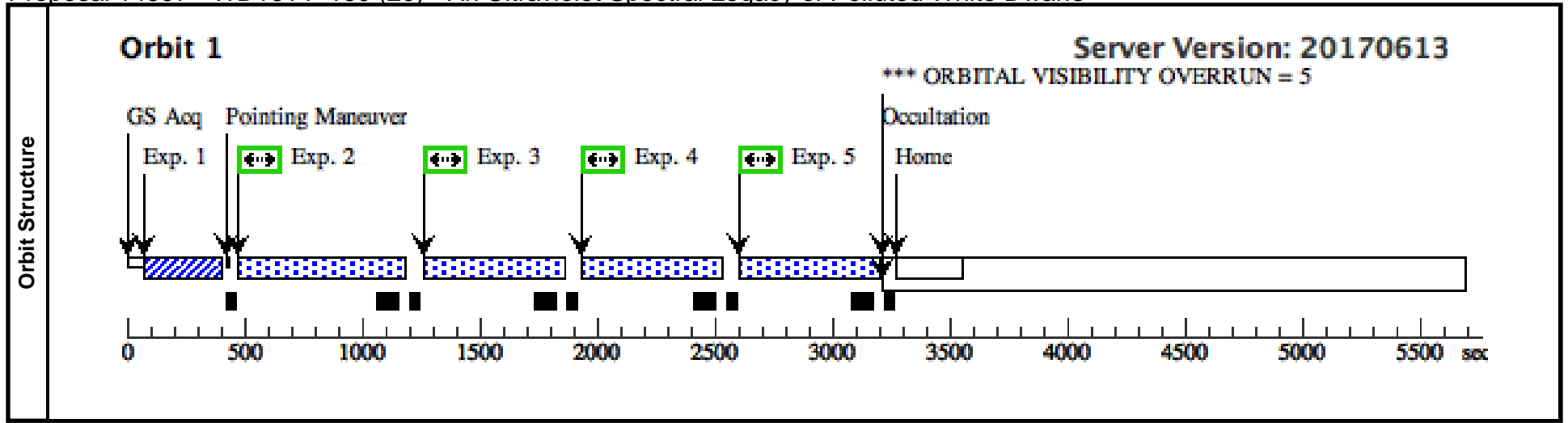
Server Version: 20170613



Proposal 14597 - WD1614+160 (20) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

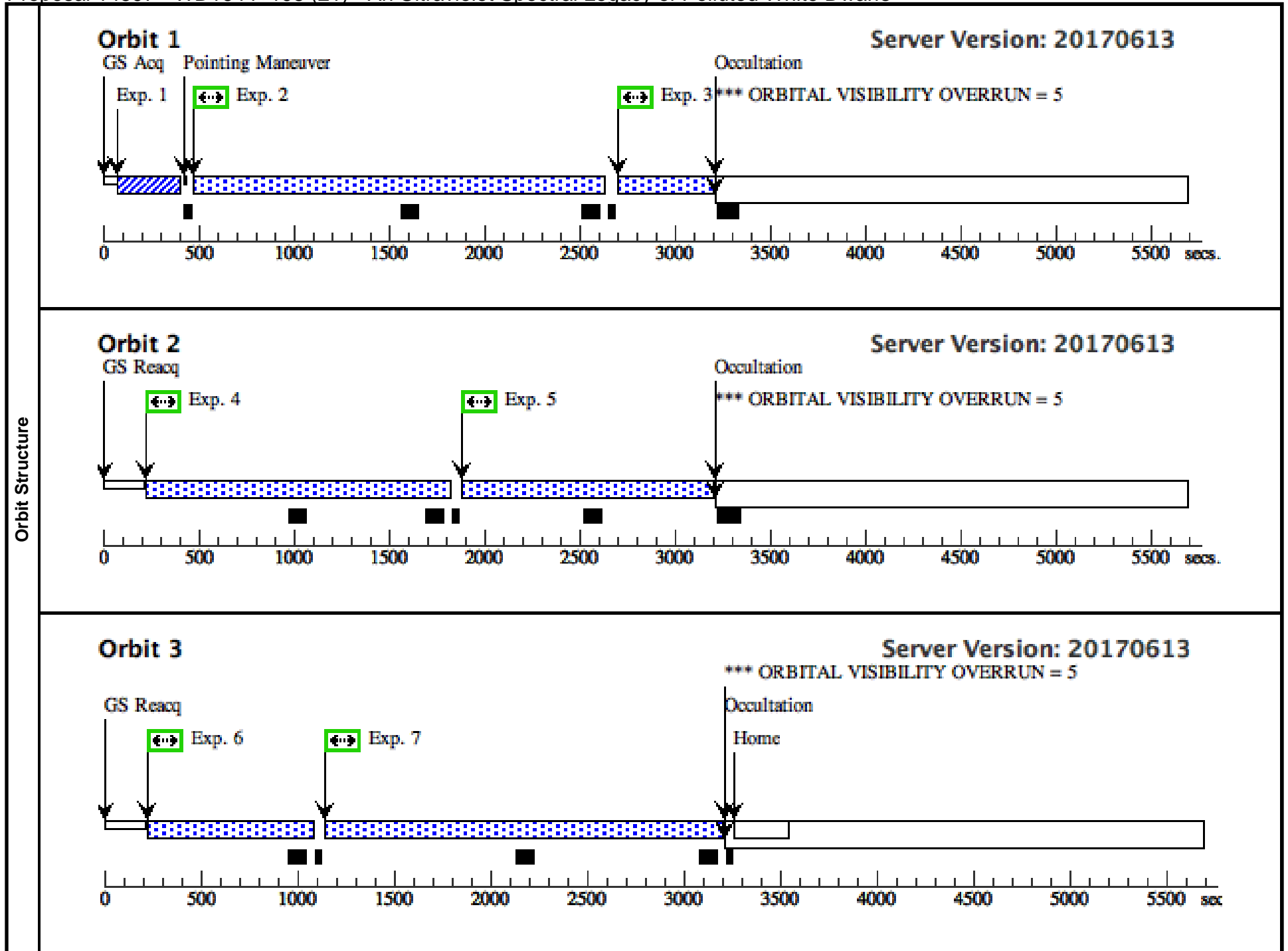
Visit	Proposal 14597, WD1614+160 (20), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	Diagnostics	(Exposure 2 (WD1614+160 (20))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 3 (WD1614+160 (20))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 4 (WD1614+160 (20))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 5 (WD1614+160 (20))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1614+160 (20)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD1614+160 (20)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (WD1614+160 (20))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 3 (WD1614+160 (20))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.								
Fixed Targets		#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(20)	WD1614+160 Alt Name1: PG	RA: 16 17 8.7450 (244.2864375d) Dec: +15 54 38.57 (15.91071d) Equinox: J2000	Proper Motion RA: -40 mas/yr Proper Motion Dec: 52 mas/yr Epoch of Position: 2000.0	V=15.536+/-0.1 GALEX FUV=3430microJy GA LEX NUV=2840microJy	Reference Frame: ICRS				
<i>Comments: Teff=17400K Extended=NO</i>										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(COS.ta.827 767)	(20) WD1614+160	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				8 Secs (8 Secs) [==>]	[1]
	2	(COS.sp.827 768)	(20) WD1614+160	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=43 9			548 Secs (548 Secs) [==>]	[1]
	3	(COS.sp.827 768)	(20) WD1614+160	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=43 9			548 Secs (548 Secs) [==>]	[1]
	4	(COS.sp.827 768)	(20) WD1614+160	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=43 9			548 Secs (548 Secs) [==>]	[1]
	5	(COS.sp.827 768)	(20) WD1614+160	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=43 9			547 Secs (547 Secs) [==>]	[1]



Proposal 14597 - WD1644+198 (21) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:20 GMT 2017

Visit	Proposal 14597, WD1644+198 (21), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)									
	(Exposure 2 (WD1644+198 (21))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 3 (WD1644+198 (21))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 4 (WD1644+198 (21))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 5 (WD1644+198 (21))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 6 (WD1644+198 (21))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (Exposure 7 (WD1644+198 (21))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode. (WD1644+198 (21)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD1644+198 (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1644+198 (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD1644+198 (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (Exposure 2 (WD1644+198 (21))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 3 (WD1644+198 (21))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details. (Exposure 4 (WD1644+198 (21))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(21)	WD1644+198 Alt Name1: PG1644+199	RA: 16 46 19.7537 (251.5823071d) Dec: +19 46 3.70 (19.76769d) Equinox: J2000	Proper Motion RA: 50 mas/yr Proper Motion Dec: -98 mas/yr Epoch of Position: 2000.0	V=15.074+/-0.1 GALEX FUV=2004microJy LEX NUV=3330microJy	Reference Frame: ICRS				
Comments: Teff=15190K 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.828 347)	(21) WD1644+198	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				8 Secs (8 Secs) [==>]	[1]
	2	(COS.sp.828 348)	(21) WD1644+198	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=94 2			1994 Secs (1994 Secs) [==>]	[1]
	3	(COS.sp.828 348)	(21) WD1644+198	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=44 9			454 Secs (454 Secs) [==>]	[1]
	4	(COS.sp.828 348)	(21) WD1644+198	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=72 0			1550 Secs (1550 Secs) [==>]	[2]
	5	(COS.sp.828 348)	(21) WD1644+198	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=60 0			1270 Secs (1270 Secs) [==>]	[2]
	6	(COS.sp.828 348)	(21) WD1644+198	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=70 2			812 Secs (812 Secs) [==>]	[3]
	7	(COS.sp.828 348)	(21) WD1644+198	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=94 9			2008 Secs (2008 Secs) [==>]	[3]



Proposal 14597 - WD2032+248 (22) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

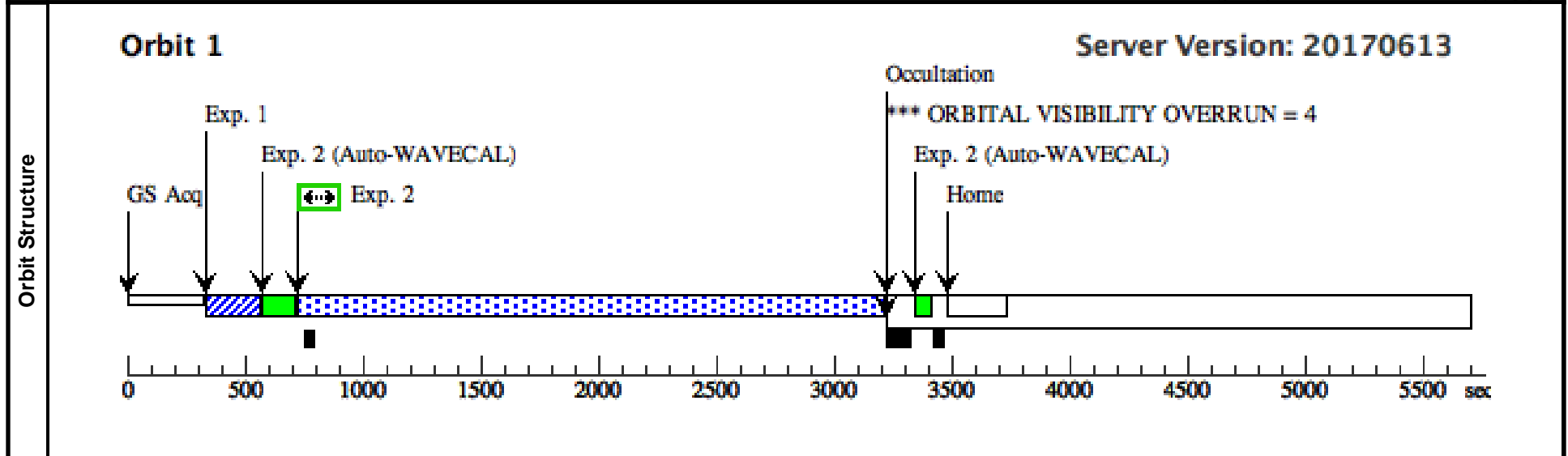
Tue Sep 19 22:01:20 GMT 2017

Visit	Proposal 14597, WD2032+248 (22), completed
	Diagnostic Status: Warning
	Scientific Instruments: STIS/CCD, STIS/FUV-MAMA
	Special Requirements: (none)

Diagnostics	(WD2032+248 (22)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(22)	WD2032+248 Alt Name1: G186-31	RA: 20 34 21.8830 (308.5911792d) Dec: +25 03 49.74 (25.06382d) Equinox: J2000	Proper Motion RA: -403 mas/yr Proper Motion Dec: -563 mas/yr Epoch of Position: 2000.0	V=11.549+/-0.1 GALEX FUV=0microJy GALE X NUV=24200microJy	Reference Frame: ICRS
Comments: Teff=20000K STIS not COS Extended=NO						

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.827 773)	(22) WD2032+248	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) [=>]	[1]
	2	(STIS.sp.82 774)	(22) WD2032+248	STIS/FUV-MAMA, ACCUM, 0.2X0.2	E140M 1425 A				2473 Secs (2473 Secs) [=>]	[1]



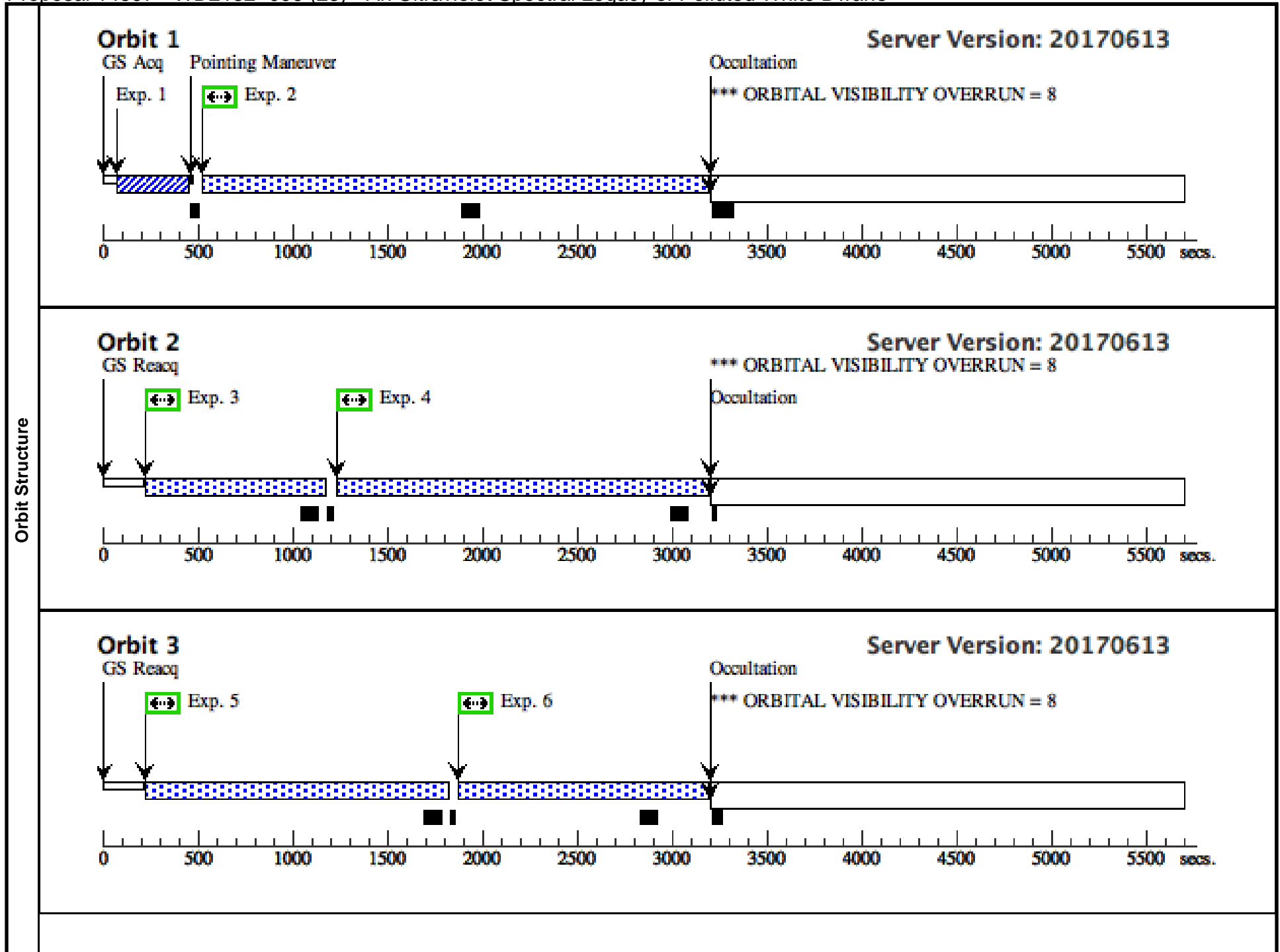
Proposal 14597 - WD2132+096 (23) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:21 GMT 2017

Visit	<p>Proposal 14597, WD2132+096 (23), completed</p> <p>Diagnostic Status: Error</p> <p>Scientific Instruments: COS/FUV, COS/NUV</p> <p>Special Requirements: (none)</p>																						
	Diagnostics	<p>(Exposure 2 (WD2132+096 (23))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(Exposure 3 (WD2132+096 (23))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(Exposure 4 (WD2132+096 (23))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(Exposure 5 (WD2132+096 (23))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(Exposure 6 (WD2132+096 (23))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(Exposure 7 (WD2132+096 (23))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(Exposure 8 (WD2132+096 (23))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(Exposure 9 (WD2132+096 (23))) Error (Form): LIFETIME-POS is required with G130M when not in Supported mode.</p> <p>(WD2132+096 (23)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.</p> <p>(WD2132+096 (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(WD2132+096 (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(WD2132+096 (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(WD2132+096 (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(WD2132+096 (23)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN</p> <p>(Exposure 2 (WD2132+096 (23))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.</p> <p>(Exposure 3 (WD2132+096 (23))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.</p> <p>(Exposure 4 (WD2132+096 (23))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. See full description for details.</p> <p>(Exposure 5 (WD2132+096 (23))) Warning (Form): Defaults for SEGMENT have changed in APT25.2 for use of LP4 with G130M. 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>(23)</td> <td>WD2132+096</td> <td>RA: 21 34 50.8160 (323.7117333d)</td> <td>Proper Motion RA: -48 mas/yr</td> <td>V=15.916+/-0.1</td> <td>Reference Frame: ICRS</td> </tr> <tr> <td></td> <td>Alt Name1: HS2132+0941</td> <td>Dec: +09 55 20.26 (9.92229d) Equinox: J2000</td> <td>Proper Motion Dec: -56 mas/yr Epoch of Position: 2000.0</td> <td>GALEX FUV=950microJy GAL EX NUV=1170microJy</td> <td></td> </tr> </tbody> </table> <p><i>Comments: Teff=13200K</i> <i>Extended=NO</i></p>					#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	(23)	WD2132+096	RA: 21 34 50.8160 (323.7117333d)	Proper Motion RA: -48 mas/yr	V=15.916+/-0.1	Reference Frame: ICRS		Alt Name1: HS2132+0941	Dec: +09 55 20.26 (9.92229d) Equinox: J2000	Proper Motion Dec: -56 mas/yr Epoch of Position: 2000.0	GALEX FUV=950microJy GAL EX NUV=1170microJy
	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous																	
(23)	WD2132+096	RA: 21 34 50.8160 (323.7117333d)	Proper Motion RA: -48 mas/yr	V=15.916+/-0.1	Reference Frame: ICRS																		
	Alt Name1: HS2132+0941	Dec: +09 55 20.26 (9.92229d) Equinox: J2000	Proper Motion Dec: -56 mas/yr Epoch of Position: 2000.0	GALEX FUV=950microJy GAL EX NUV=1170microJy																			

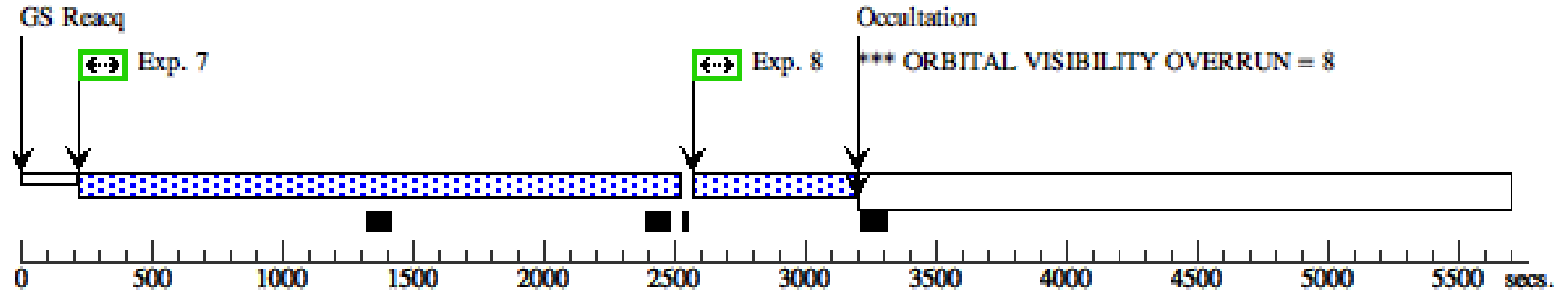
Proposal 14597 - WD2132+096 (23) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(COS.ta.827 612)	(23) WD2132+096	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					32 Secs (32 Secs)	
									[==>]	[1]	
	2	(COS.sa.827 614)	(23) WD2132+096	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=12 20				2507 Secs (2507 Secs)	
									[==>]	[1]	
	3	(COS.sa.827 614)	(23) WD2132+096	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=79 0				900 Secs (900 Secs)	
									[==>]	[2]	
	4	(COS.sa.827 614)	(23) WD2132+096	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=17 24				1912 Secs (1912 Secs)	
									[==>]	[2]	
	5	(COS.sa.827 614)	(23) WD2132+096	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=14 40				1550 Secs (1550 Secs)	
								[==>]	[3]		
6	(COS.sa.827 614)	(23) WD2132+096	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=92 2				1272 Secs (1272 Secs)		
								[==>]	[3]		
7	(COS.sa.827 614)	(23) WD2132+096	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 70				2250 Secs (2250 Secs)		
								[==>]	[4]		
8	(COS.sa.827 614)	(23) WD2132+096	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=57 2				572 Secs (572 Secs)		
								[==>]	[4]		
9	(COS.sa.827 614)	(23) WD2132+096	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=14 31				2927 Secs (2927 Secs)		
								[==>]	[5]		



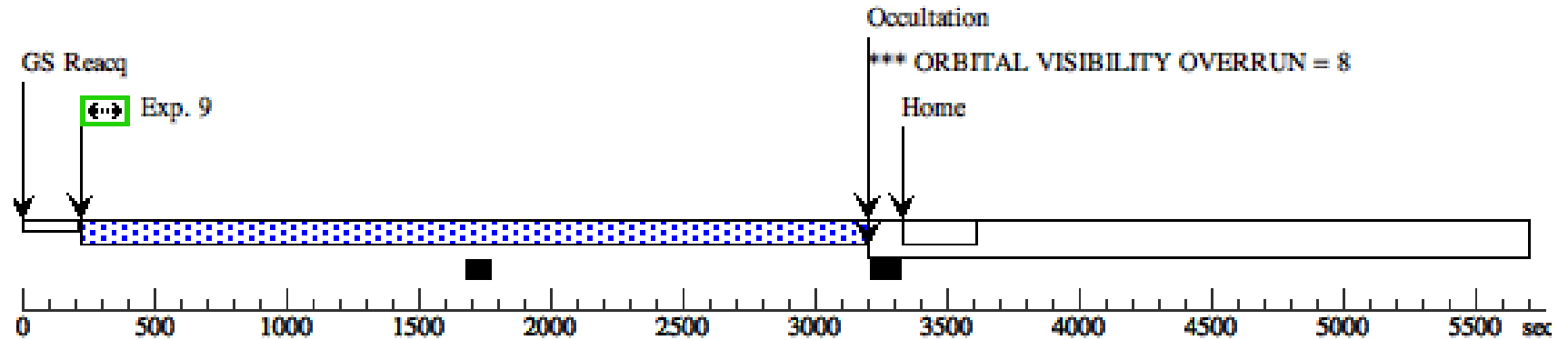
Orbit 4

Server Version: 20170613



Orbit 5

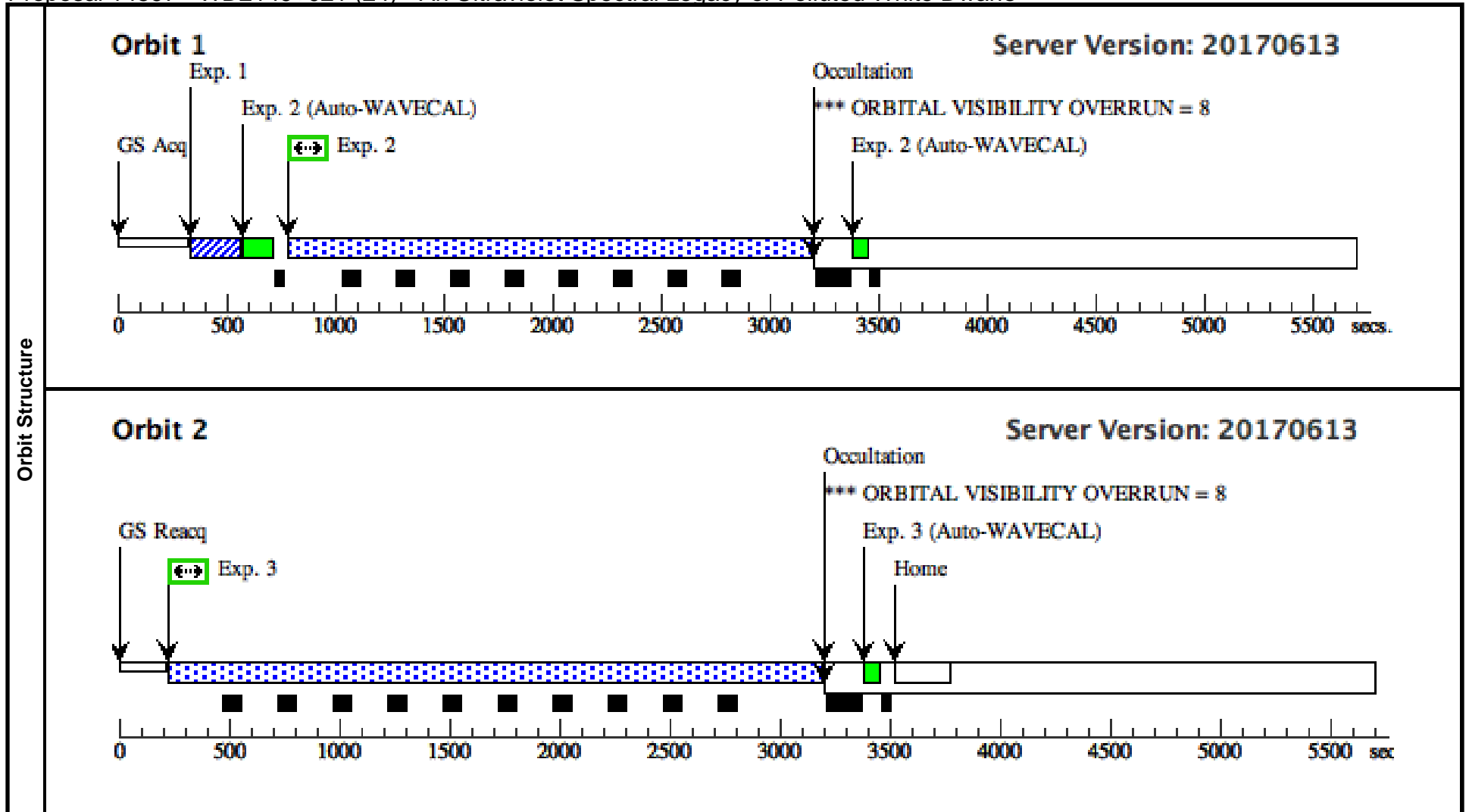
Server Version: 20170613



Proposal 14597 - WD2149+021 (24) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:21 GMT 2017

Visit	Proposal 14597, WD2149+021 (24), implementation Diagnostic Status: Warning Scientific Instruments: STIS/CCD, STIS/FUV-MAMA Special Requirements: (none)									
	(WD2149+021 (24)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD2149+021 (24)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(24)	WD2149+021 Alt Name1: G93-48	RA: 21 52 25.3800 (328.1057500d) Dec: +02 23 19.60 (2.38878d) Equinox: J2000	Proper Motion RA: 14 mas/yr Proper Motion Dec: -300 mas/yr Epoch of Position: 2000.0	V=12.774+/-0.1 GALEX FUV=2450microJy LEX NUV=30500microJy	Reference Frame: ICRS				
Comments: Teff=17300K STIS not COS Extended=NO										
Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(STIS.ta.827 808)	(24) WD2149+021	STIS/CCD, ACQ, F28X50LP	MIRROR				0.2 Secs (0.2 Secs) [==>]	[1]
	2	(STIS.sp.82 7811)	(24) WD2149+021	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=25 0			2396 Secs (2396 Secs) [==>]	[1]
	3	(STIS.sp.82 7811)	(24) WD2149+021	STIS/FUV-MAMA, TIME-TAG, 0.2X0.2	E140M 1425 A	BUFFER-TIME=25 0			2958 Secs (2958 Secs) [==>]	[2]



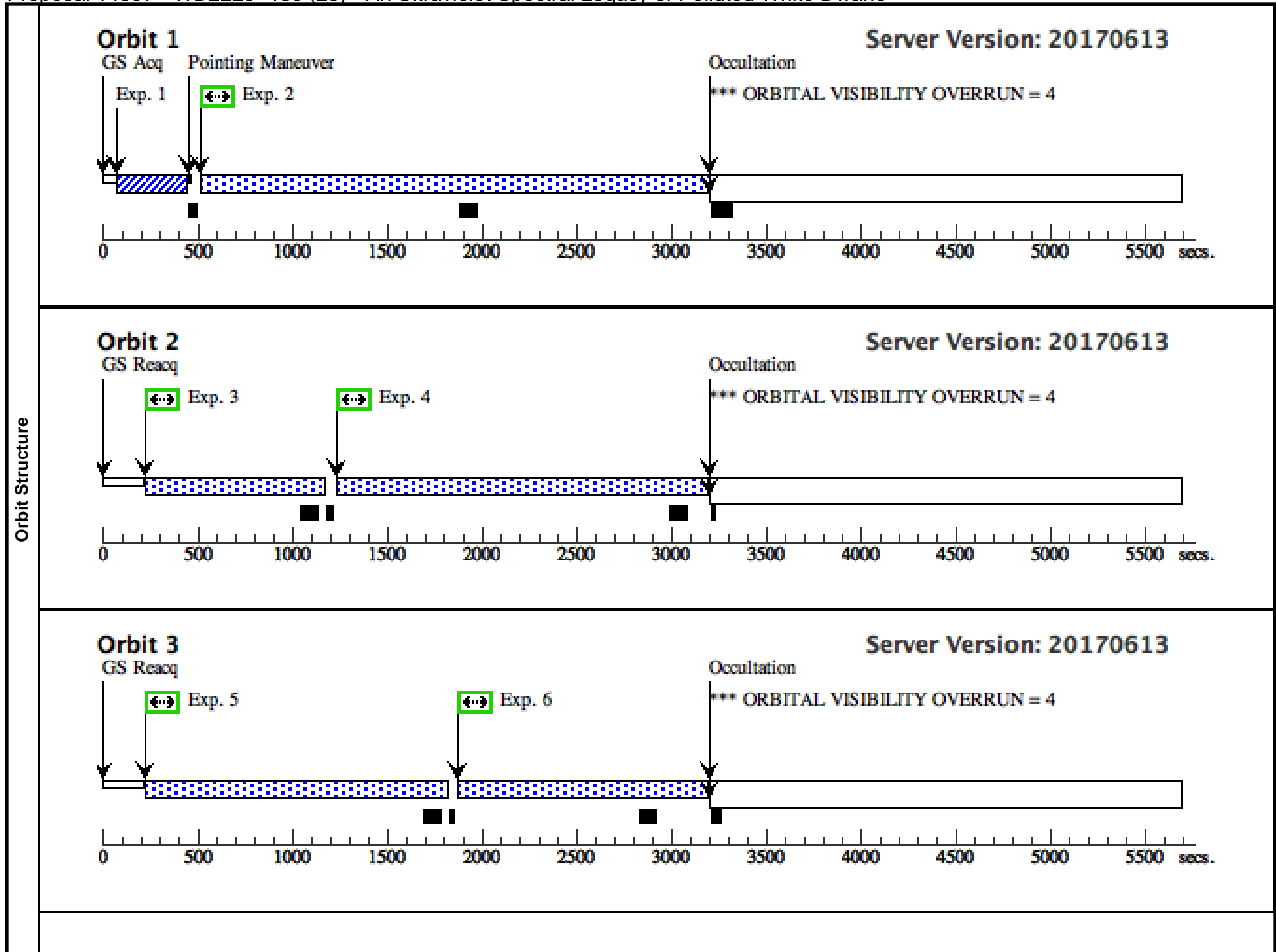
Proposal 14597 - WD2229+139 (25) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:21 GMT 2017

Visit	Proposal 14597, WD2229+139 (25), implementation Diagnostic Status: Warning Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)					
Diagnostics	(WD2229+139 (25)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE. (WD2229+139 (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD2229+139 (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD2229+139 (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD2229+139 (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN (WD2229+139 (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(25)	WD2229+139 Alt Name1: EGGR906	RA: 22 31 45.4430 (337.9393458d) Dec: +14 11 14.06 (14.18724d) Equinox: J2000	Proper Motion RA: 5 mas/yr Proper Motion Dec: -50 mas/yr Epoch of Position: 2000.0	V=16.097+/-0.1 GALEX FUV=830microJy GAL EX NUV=1510microJy	Reference Frame: ICRS
	Comments: Teff=15200K Extended=NO					

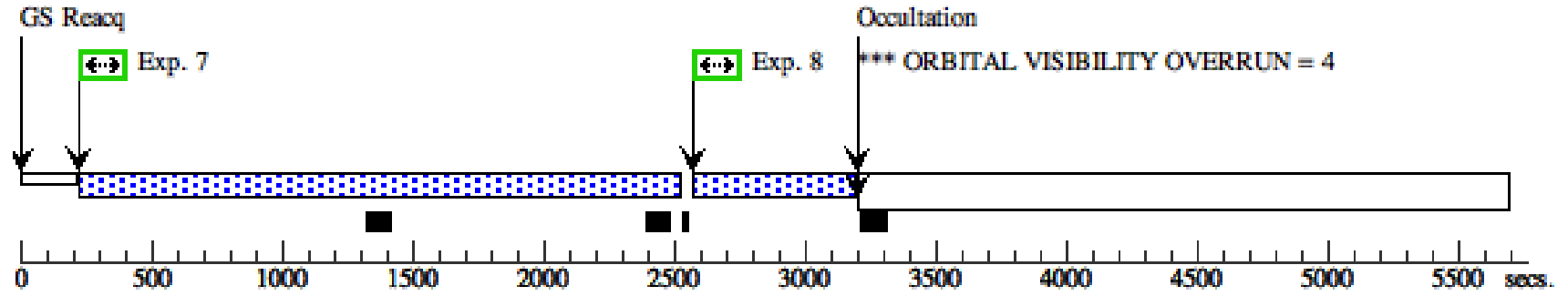
Proposal 14597 - WD2229+139 (25) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Exposures	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(COS.ta.827 837)	(25) WD2229+139	COS/NUV, ACQ/IMAGE, PSA	MIRRORB					25 Secs (25 Secs) [==>]	[1]
	2	(COS.sp.827 839)	(25) WD2229+139	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=12 20; LIFETIME-POS=L P3				2521 Secs (2521 Secs) [==>]	[1]
	3	(COS.sp.827 839)	(25) WD2229+139	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=79 0; LIFETIME-POS=L P3				900 Secs (900 Secs) [==>]	[2]
	4	(COS.sp.827 839)	(25) WD2229+139	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=17 24; LIFETIME-POS=L P3				1912 Secs (1912 Secs) [==>]	[2]
	5	(COS.sp.827 839)	(25) WD2229+139	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=14 40; LIFETIME-POS=L P3				1550 Secs (1550 Secs) [==>]	[3]
	6	(COS.sp.827 839)	(25) WD2229+139	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=92 2; LIFETIME-POS=L P3				1272 Secs (1272 Secs) [==>]	[3]
	7	(COS.sp.827 839)	(25) WD2229+139	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=10 70; LIFETIME-POS=L P3				2250 Secs (2250 Secs) [==>]	[4]
	8	(COS.sp.827 839)	(25) WD2229+139	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=57 2; LIFETIME-POS=L P3				572 Secs (572 Secs) [==>]	[4]
	9	(COS.sp.827 839)	(25) WD2229+139	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=14 31; LIFETIME-POS=L P3				2927 Secs (2927 Secs) [==>]	[5]



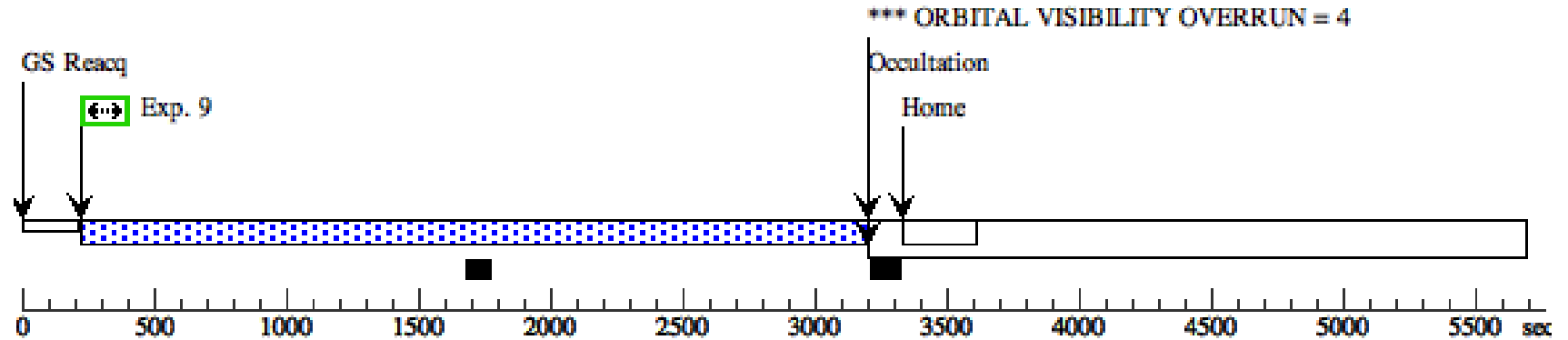
Orbit 4

Server Version: 20170613



Orbit 5

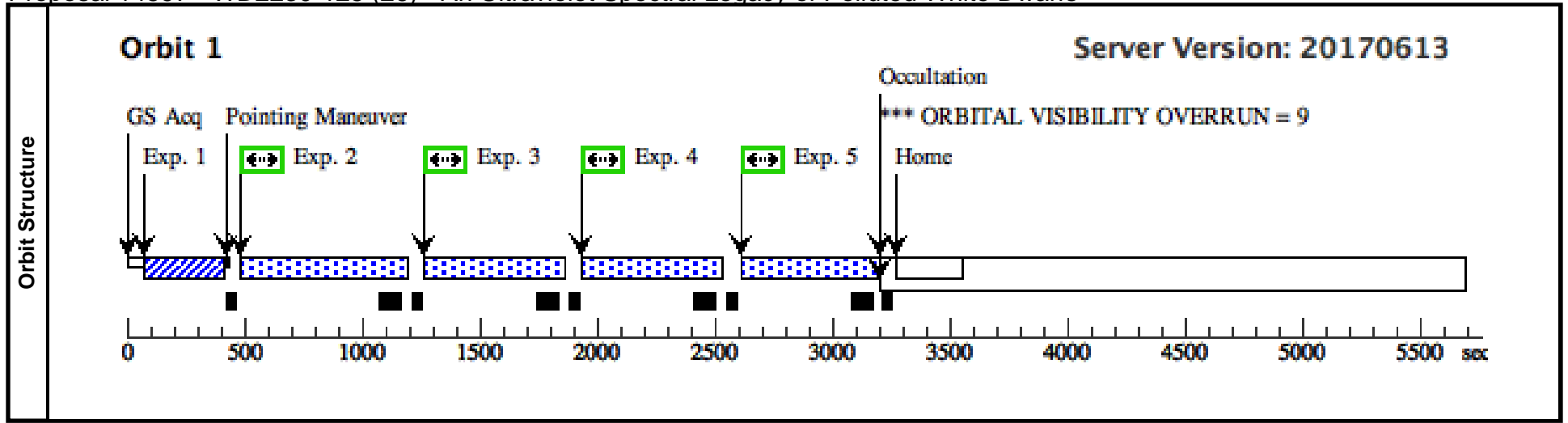
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Proposal 14597 - WD2230-125 (26) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:21 GMT 2017

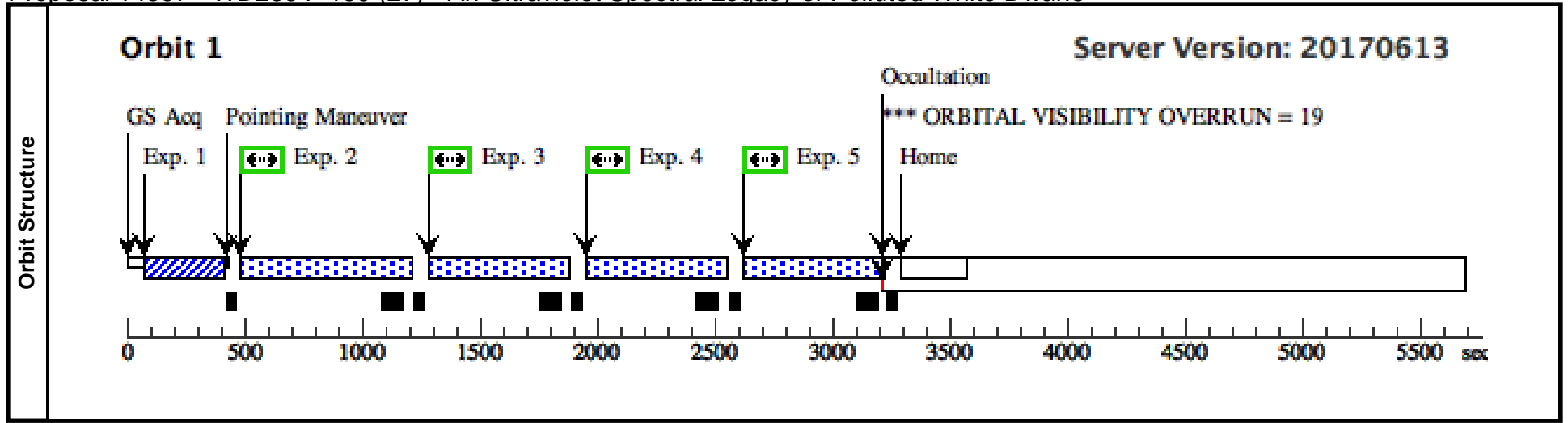
Visit	Proposal 14597, WD2230-125 (26), completed Diagnostic Status: Error Scientific Instruments: COS/FUV, COS/NUV Special Requirements: (none)																																																																																																																		
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Proposal 14597 - WD2354+159 (27) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:21 GMT 2017

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Proposal 14597 - WD2354+159 (Y7) - An Ultraviolet Spectral Legacy of Polluted White Dwarfs

Tue Sep 19 22:01:21 GMT 2017

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Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>(COS.ta.827 972)</td> <td>(27) WD2354+159</td> <td>COS/NUV, ACQ/IMAGE, PSA</td> <td>MIRRORB</td> <td></td> <td></td> <td></td> <td>10 Secs (10 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>(COS.sp.827 973)</td> <td>(27) WD2354+159</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=1; BUFFER-TIME=43 9</td> <td></td> <td></td> <td>548 Secs (548 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>(COS.sp.827 973)</td> <td>(27) WD2354+159</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=2; BUFFER-TIME=43 9</td> <td></td> <td></td> <td>548 Secs (548 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>(COS.sp.827 973)</td> <td>(27) WD2354+159</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=3; BUFFER-TIME=43 9</td> <td></td> <td></td> <td>548 Secs (548 Secs) [==>]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>(COS.sp.827 973)</td> <td>(27) WD2354+159</td> <td>COS/FUV, TIME-TAG, PSA</td> <td>G130M 1291 A</td> <td>FP-POS=4; BUFFER-TIME=43 9</td> <td></td> <td></td> <td>543 Secs (543 Secs) [==>]</td> <td>[1]</td> </tr> </tbody> </table>	#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	(COS.ta.827 972)	(27) WD2354+159	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				10 Secs (10 Secs) [==>]	[1]	2	(COS.sp.827 973)	(27) WD2354+159	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=43 9			548 Secs (548 Secs) [==>]	[1]	3	(COS.sp.827 973)	(27) WD2354+159	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=43 9			548 Secs (548 Secs) [==>]	[1]	4	(COS.sp.827 973)	(27) WD2354+159	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=43 9			548 Secs (548 Secs) [==>]	[1]	5	(COS.sp.827 973)	(27) WD2354+159	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=43 9			543 Secs (543 Secs) [==>]	[1]					
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