14071 - How are HI Disks Fed? Probing Condensation at the Disk-Halo Interface

Cycle: 23, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

Name	*Institution*	*E-Mail*
Dr. Sanchayeeta Borthakur (PI) (Contact)	**The Johns Hopkins University**	**sanch@pha.jhu.edu**
Dr. Timothy M. Heckman (CoI)	The Johns Hopkins University	heckman@pha.jhu.edu
Dr. Andrew J. Fox (CoI) (ESA Member)	Space Telescope Science Institute - ESA	afox@stsci.edu
Dr. Guinevere Kauffmann (CoI) (ESA Member)	Max-Planck-Institut fur Astrophysik	gamk@mpa-garching.mpg.de
Dr. Amanda Brady Ford (CoI) (ESA Member)	Max-Planck-Institut fur Astrophysik	amanda.brady.ford@gmail.com
Mr. Bernhard Rottgers (CoI) (ESA Member)	Max-Planck-Institut fur Astrophysik	broett@mpa-garching.mpg.de
Dr. Thorsten Naab (CoI) (ESA Member)	Max-Planck-Institut fur Astrophysik	naab@mpa-garching.mpg.de
Dr. David Schiminovich (CoI)	Columbia University in the City of New York	ds@astro.columbia.edu

VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) J083220.08+243100.5	COS/FUV COS/NUV	2	30-Dec-2015 21:01:15.0	yes
02	(2) J091728.56+271951.0	COS/FUV COS/NUV	4	30-Dec-2015 21:01:17.0	yes
Z2	(2) J091728.56+271951.0	COS/FUV COS/NUV	4	30-Dec-2015 21:01:19.0	yes
03	(3) J104241.27+250122.8	COS/FUV COS/NUV	2	30-Dec-2015 21:01:20.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
04	(4) J113325.77+242327.8	COS/FUV COS/NUV	2	30-Dec-2015 21:01:21.0	yes
05	(5) J122137.93+043026.1	COS/FUV COS/NUV	4	30-Dec-2015 21:01:22.0	yes
06	(6) J135426.08+144151.4	COS/FUV COS/NUV	2	30-Dec-2015 21:01:23.0	yes
07	(7) J143216.78+095519.2	COS/FUV COS/NUV	3	30-Dec-2015 21:01:24.0	yes
08	(8) J153314.28+150103.0	COS/FUV COS/NUV	2	30-Dec-2015 21:01:25.0	yes
09	(9) J104335.86+115129.1	COS/FUV COS/NUV	2	30-Dec-2015 21:01:27.0	yes
10	(10) J114046.06+113649.5	COS/FUV COS/NUV	4	30-Dec-2015 21:01:28.0	yes
11	(11) J114434.72+070516.4	COS/FUV COS/NUV	2	30-Dec-2015 21:01:29.0	yes
12	(12) J115709.77+090607.3	COS/FUV COS/NUV	4	30-Dec-2015 21:01:31.0	yes
Z3	(12) J115709.77+090607.3	COS/FUV COS/NUV	4	30-Dec-2015 21:01:32.0	yes
13	(13) J122330.78+154507.3	COS/FUV COS/NUV	4	30-Dec-2015 21:01:35.0	yes
14	(14) J123113.12+120307.2	COS/FUV COS/NUV	4	30-Dec-2015 21:01:36.0	yes
15	(15) J115722.44+114040.7	COS/FUV COS/NUV	2	30-Dec-2015 21:01:37.0	yes
16	(16) J023529.10-092512.6	COS/FUV COS/NUV	2	30-Dec-2015 21:01:38.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
17	(17) J104709.83+130454.6	COS/FUV COS/NUV	4	30-Dec-2015 21:01:39.0	yes
18	(18) J152447.75+041919.8	COS/FUV COS/NUV	4	30-Dec-2015 21:01:40.0	yes
19	(19) J155821.86+120533.2	COS/FUV COS/NUV	2	30-Dec-2015 21:01:41.0	yes
20	(20) J112439.42+113117.2	COS/FUV COS/NUV	4	30-Dec-2015 21:01:42.0	yes
21	(21) J002330.58+154744.9	COS/FUV COS/NUV	3	30-Dec-2015 21:01:44.0	yes
22	(22) J102416.73+242211.6	COS/FUV COS/NUV	2	30-Dec-2015 21:01:45.0	yes
23	(23) J105220.63+101751.7	COS/FUV COS/NUV	2	30-Dec-2015 21:01:46.0	yes
24	(24) J120917.35+261613.1	COS/FUV COS/NUV	4	30-Dec-2015 21:01:47.0	yes
25	(25) J131447.07+260624.1	COS/FUV COS/NUV	3	30-Dec-2015 21:01:48.0	yes
26	(26) J141505.91+044546.1	COS/FUV COS/NUV	3	30-Dec-2015 21:01:50.0	yes
27	(27) J155855.34+125555.3	COS/FUV COS/NUV	2	30-Dec-2015 21:01:51.0	yes
51	(1) J083220.08+243100.5	COS/FUV COS/NUV	2	30-Dec-2015 21:01:51.0	yes
53	(3) J104241.27+250122.8	COS/FUV COS/NUV	2	30-Dec-2015 21:01:52.0	yes
54	(4) J113325.77+242327.8	COS/FUV COS/NUV	2	30-Dec-2015 21:01:53.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
56	(6) J135426.08+144151.4	COS/FUV COS/NUV	2	30-Dec-2015 21:01:54.0	yes
58	(8) J153314.28+150103.0	COS/FUV COS/NUV	2	30-Dec-2015 21:01:55.0	yes
65	(15) J115722.44+114040.7	COS/FUV COS/NUV	2	30-Dec-2015 21:01:56.0	yes
66	(16) J023529.10-092512.6	COS/FUV COS/NUV	2	30-Dec-2015 21:01:56.0	yes
69	(19) J155821.86+120533.2	COS/FUV COS/NUV	2	30-Dec-2015 21:01:57.0	yes
72	(22) J102416.73+242211.6	COS/FUV COS/NUV	2	30-Dec-2015 21:01:59.0	yes
73	(23) J105220.63+101751.7	COS/FUV COS/NUV	2	30-Dec-2015 21:02:00.0	yes
77	(27) J155855.34+125555.3	COS/FUV COS/NUV	2	30-Dec-2015 21:02:01.0	yes

108 Total Orbits Used

ABSTRACT

Galaxy disks need a continuous supply of cold gas to fuel star formation. While accretion from the intergalactic medium brings in gas, this gas needs to condense down to a temperature <100K to form stars. In this proposal, we propose to investigate the process of accretion and condensation of inflowing warm ionized gas into neutral atomic gas (HI) in the disks of galaxies. Motivated by the need to learn more about the process of condensation, we propose to mount the first controlled absorption-line experiment to probe the interface between the disk and the circumgalactic medium (CGM). This study will complement the parameter space (in terms of impact parameter versus HI disk size) probed by the large HST program COS-GASS (PI:Heckman). Together these two programs will give us a continuous coverage of gas properties from disks to the virial radii of galaxies. Our sample provides QSO-sightlines through 35 gas-rich galaxies (z= 0.003-0.05) probing them at the disk-CGM interface. The proposed observations will probe a wide range of absorption-line transitions that will help us in identifying the underlying physics behind the process of condensation.

We will also use state-of-the art numerical simulations in a synergistic way that will both enable the observations to be interpreted in a physically-based context, and provide constraints that test (and then improve) the simulations. We will generate artifitial spectra that will enable us to analyze the simulations in the exact same way as the proposed observations. Therefore, we will also be able to interpret our results in the context of physics of gas accretion and connect it to the global properties of the galaxies.

OBSERVING DESCRIPTION

Our strategic goal is to build a sample of QSO/galaxy pairs with impact parameter < 3.5 times the HI disk radii to study multi-phase gas in galactic halos and its dependence on galaxy properties. Our G130M COS data range over 1150 - 1450 A, which gives us access to a host of important ionization, density, and metallicity diagnostics. The galaxy redshifts range from z ~ 0.002-0.05, where these ions will be covered on at least one of the grating settings.

Exposure times: Most of our target QSOs are newly discovered by SDSS, and so have not been observed spectroscopically in the UV before. To ensure sufficient flux in the G130M bands we have cross-referenced our QSO catalog with the GALEX DR4 all-sky survey (AIS) and selected only QSOs with a significant detection in the GALEX FUV band (~ 1500 \AA). Measured GALEX FUV magnitudes for our sample range from 17.8 to 19.0. The redshifts range from z = 0.07 to 1.3. Note that if we assume the FOS composite QSO in the ETC, QSOs in this range of redshift and magnitude are always well below the bright limits of COS for both FUV spectroscopic exposures and NUV imaging target acquisitions with MIRRORB.

We use the COS online ETC to calculate that we will achieve S/N = 8-12 per resolution element over 1150 - 1450 A with 2-4 orbit exposures for our target objects. In each case we shift the central wavelength halfway through the full exposure for each grating to fill the ~ 15 A gap between detector segments. Use of the GALEX fluxes means that we do not need to correct for interstellar extinction, which in any case is E(B-V) <~ 0.1 for these high-latitude targets. Each visit has had the two central wavelengths packed for maximim efficiency, with the central wavelengths chosen to place the resulting low-S/N gap away from absorption lines of interest. Based on our experience with the ETC for QSOs in this range of redshift and magnitude and with similar objects observed by COS-GASS in Cycles 19, we know that these spectra always have their brightest pixel at the position of geocoronal Lyman alpha emission, not from the QSO source. These objects never get close to the bright limits, whatever the magnitude, redshift, or central wavelength setting.

Notes on Acquisitions:

Our coordinates are all from SDSS, with astrometry good to 100 mas, so we adopt NUV imaging (ACQ/IMAGE) for all targets. Our experience in Cycles 19 with COS-GASS is that IMAGE acquisitions are working well for these targets. We have set the exposure times for each "orbit bin" (2,3, or 4) using the faintest target at S/N = 40 in each bin as the limiting case, and then rounding up to provide a margin of safety against QSO fading. We use 219, 252 and 257 sec for the 2, 3, and 4 orbit targets, respectively. Adding 1 mag margin, more that 90% our targets are too bright for MIRRORA acquisitions, so we use MIRRORB in every case.

The Phase II ISR says use 1 mag brighter for bright-object check on ACQs. Brightest target here has GALEX NUV = 16.6, and this one is acquired in 33 sec at S/N = 40 for MIRRORB and PSA (ETC COS 732558). It has 5 ct/s in the brightest pixel, and 39 ct/s in the 9x9 selcted region. At one magnitude brighter (GALEX FUV = 15.6), this target is still safe to acquire with MIRRORB in the NUV, with 14 ct/s in the brightest pixel, 98 ct/s in the selected region, and 1038 ct/s on the entire detector (ETC COS 732559). In fact this target at one magnitude brighter is safe to observe with MIRRORB even for our longest exposure of 291 secs (COS.im.733006). The ETC run shows that the brightest will be at 7ct/s, 38 ct/s for the selected region and the count rate for the entire detector is 1010 ct/s.

MIRROR B:

NUV Mag		Exposure Time		ETC_COS_ID		Safety_Check		Safety_Check_ETC_ID_for_plus1mag		Visits
16.6	------	33s	------	732558	----	Safe	----------	732559	----------	9
17.6	------	84s	------	732529	----	Safe	----------	732536	----------	11,
17.9	------	110s	------	732530	----	Safe	----------	732537	----------	1,7,21,22,25
18.0	------	120s	------	732531	----	Safe	----------	732539	----------	4,19
18.3	------	159s	------	732540	----	Safe	----------	732555	----------	10,26
18.5	------	191s	------	732541	----	Safe	----------	732556	----------	8,17,18,23,24,27

Similarly, we have checked for one-or-of magnitude brighter targets for those with MIRROR A exposures. All of them were found to be safe.

MIRROR A:

NUV Mag		Exposure Time		ETC_COS_ID		Safety_Check		Safety_Check_ETC_ID_for_plus1mag		
18.7	------	12s	------	732553	----	Safe	----------	732554	----------	3,13,14,15
18.8	------	13s	------	732550	----	Safe	----------	732558	----------	2,5,6,20

19.0	------	15s	------	732544	----	Safe	----------	732546	----------	12
20.1	------	42s	------	732558	----	Safe	----------	732559	----------	16

For program targets with multi-epoch GALEX data, the true variability of these QSOs is of order ~< 0.2 mag, much less than this 1 mag assumption. For this reason, and because our brightest target is safe to acquire, all our targets are safe to acquire in NUV imaging with MIRRORB.

As anticipated for these targets selected from SDSS+GALEX, the BOT returns no health-and-safety issues for the targets or their fields.

To estimate the range of S/N ratios we will acquire for our science exposures, and to estimate their count rates for health-and safety checks, we ran a grid of representative ETC calculations for a range of QSO brightness and redshift. All these ETCs use the FOS QSO template spectrum normalized by the specified GALEX FUV flux at the specified redshift. There are two representative redshifts (0.02, 0.05) and three representative FUV magnitudes (17.8-18.0, 18.0-18.5, 18.5-19.0). The exposure times are the averages 9f the times drawn from the Phase II for those These ETCs are:

At FUV=18.0mag -> G130M=3158s- 3816s
z=0.02 wave=1240A COS.sp.732977
z=0.05 wave=1276A COS.sp.732980
Sightlines with FUVmag between 17.8- 18.0 (2 orbit bin: Targets 9,11; Visits 9,11)

At FUV=18.5mag -> G130M=6113s- 6153 s
z=0.02 wave=1240A COS.sp.732998
z=0.05 wave=1276A COS.sp.733000
Sightlines with FUVmag between 18.0- 18.5 (3 orbit bin: Targets 7,21, 25, 26 ; Visits)

At FUV=19.0mag -> G130M= 9952s - 10018s
z=0.02 wave=1240A COS.sp.732994
z=0.05 wave=1276A COS.sp.732991

Sightlines with FUVmag between 18.5-19.0 (4 orbit bin; Targets 1,2,3,4,5,6,8,10,12,13,14,15,16,17,18,19,20,22,23,24,27; Visits 1,2,3,4,5,6,8,10,12,13,14,15,16,17,18,19,20,22,23,24,27)
Targets-1,3,4,6,8,15,16,19,22,23,27 are scheduled as two 2-orbits visits. The visits are = Target# (for FP-pos =1,2) and Target#+50 (for FP-pos =3,4)

Just as a precaution we tested if 4 orbits are sufficient for a QSO at FUV 19.3mag . The ETC (COS.sp.734163/) yielded a S/N of more than 8.5 which will suffice for our study.

Note than in every case, the local and global count rates are far below the limits, and that in every case for G130M the brightest pixels correspond to geocoronal Lya, which is >1-2 orders of magnitude brighter than the source QSOs. In any case these count rates are well below the local and global limits.

The central wavelengths are set to optimally cover the interesting absorption lines from the galaxies of interest. The representative ETCs show that geocoronal Lya is always the brightest spot in G130M regardless of the cenwave, but is still well below the limits (0.1 cts at Lya vs. 0.67 cts limit), and the targets tend to be at least an order of magnitude fainter. Since the FOS template spectrum is relatively flat (see the representative cases) the global count rate is almost invariant with cenwave and never gets close to the limits

Visit

Proposal 14071, Visit 01, scheduling Thu Dec 31 02:02:03 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 01) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

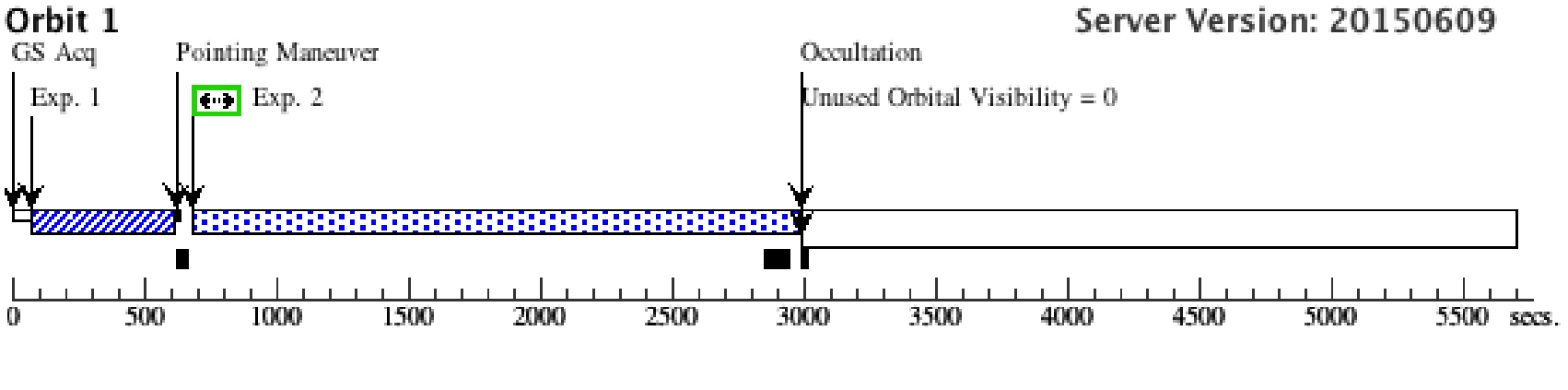
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J083220.08+243100.5	RA: 08 32 20.0804 (128.0836683d) Dec: +24 31 0.55 (24.51682d) Equinox: J2000		V=17.0+/-0.2 GALEX FUV = 18.8, GALEX NUV = 17.8	Reference Frame: ICRS

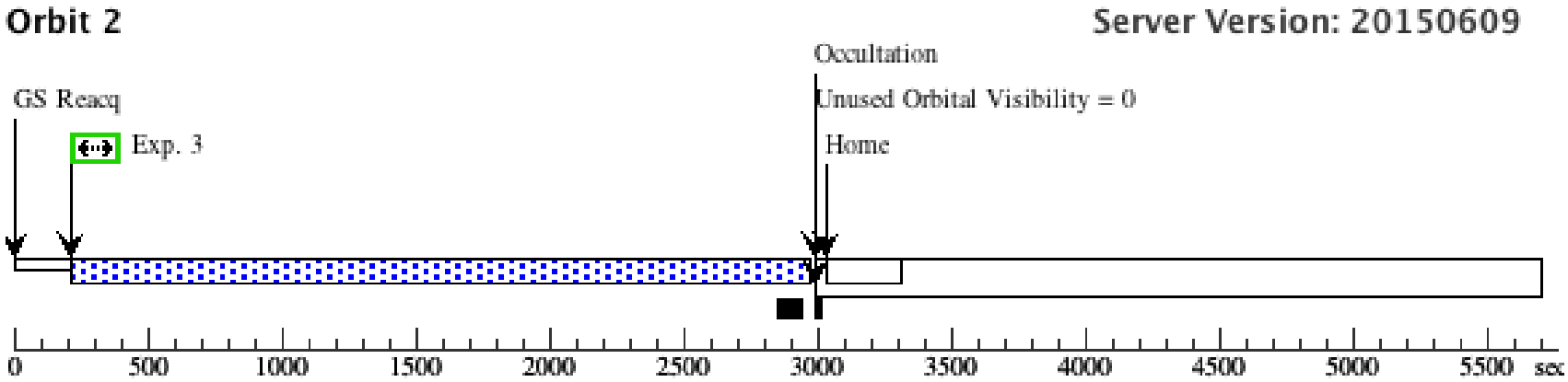
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732530)	(1) J083220.08+243100.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				110 Secs (110 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(1) J083220.08+243100.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=2021; FLASH=YES			2131 Secs (2131 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(1) J083220.08+243100.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14071, Visit 02, failed Thu Dec 31 02:02:03 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

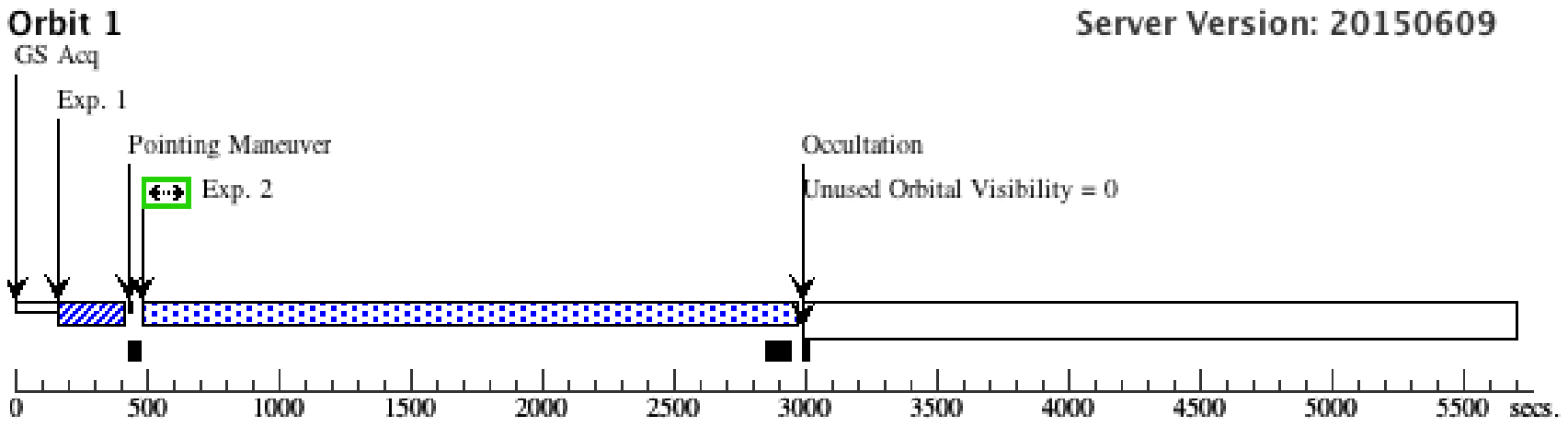
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	J091728.56+271951.0	RA: 09 17 28.5656 (139.3690233d) Dec: +27 19 51.03 (27.33084d) Equinox: J2000		V=16.6+/-0.2 GALEX FUV=19.0, GALEX NUV = 18.8	Reference Frame: ICRS

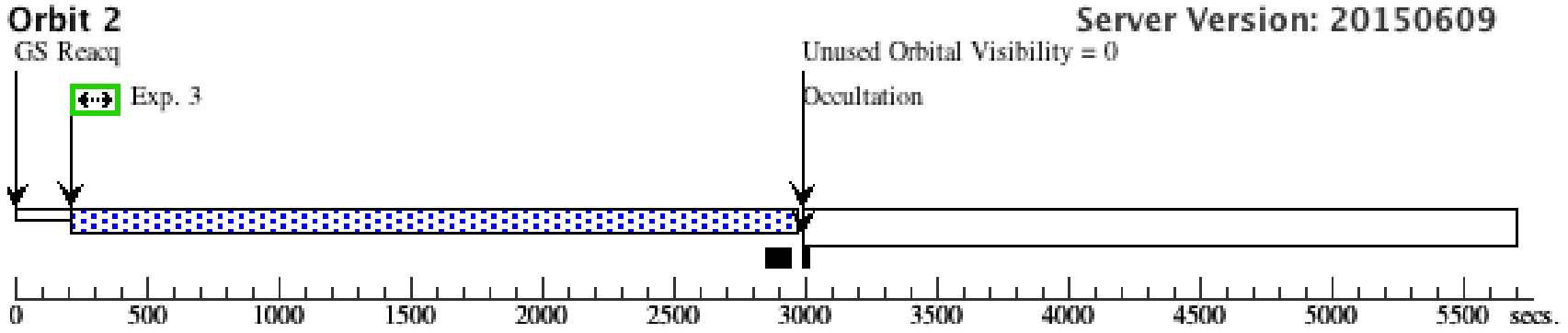
Comments: Extended=NO

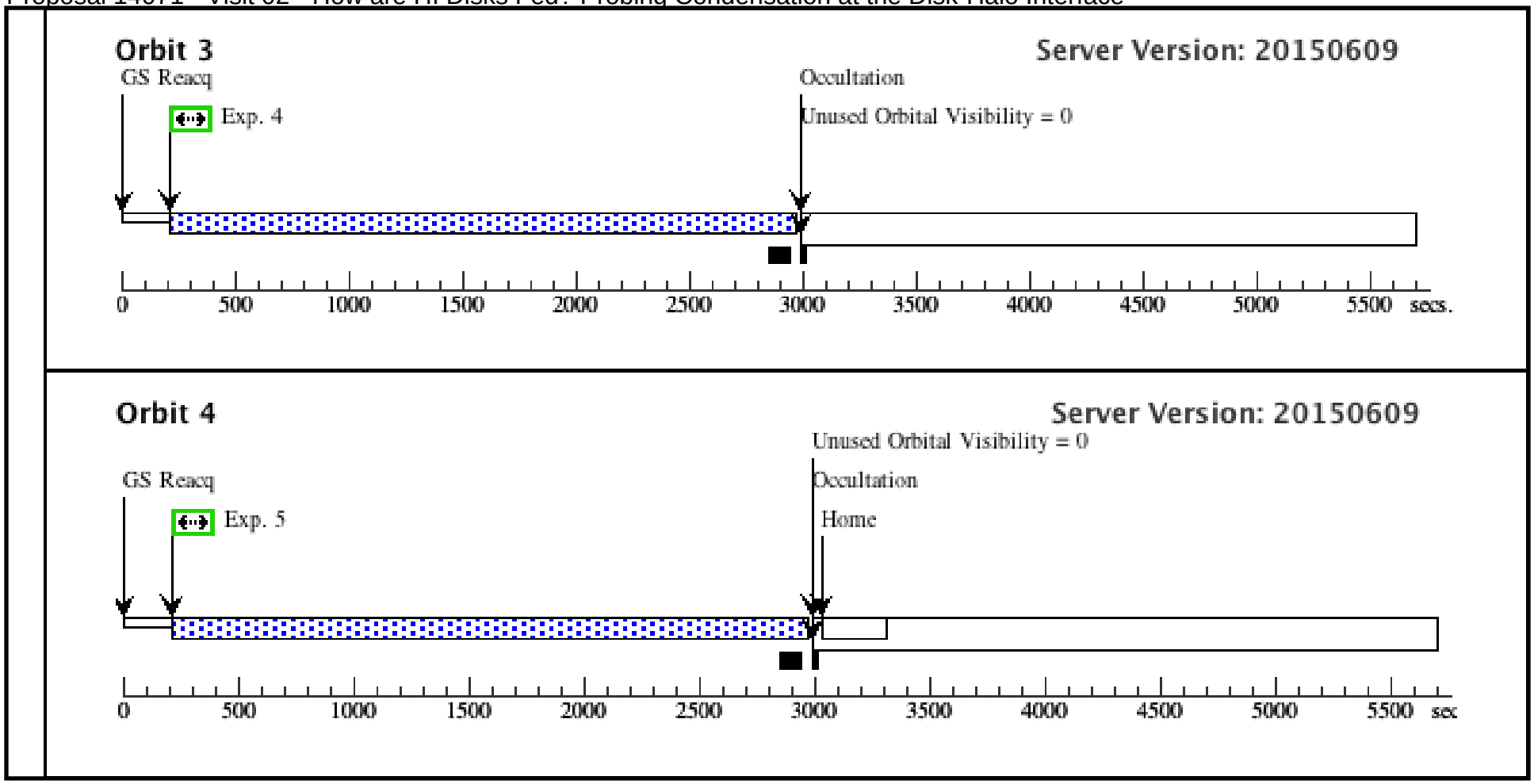
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732550)	(2) J091728.56+271951.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				13 Secs (13 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(2) J091728.56+271951.0	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=1; BUFFER-TIME=2211; FLASH=YES			2321 Secs (2321 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(2) J091728.56+271951.0	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=2; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[2]***
4	(COS.sp.732994)	(2) J091728.56+271951.0	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=3; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[3]***
5	(COS.sp.732994)	(2) J091728.56+271951.0	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=4; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[4]***

Orbit Structure






Orbit 3
Server Version: 20150609
GS Reacq
Exp. 4
Occultation
Unused Orbital Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 4
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Exp. 5
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit Z2, scheduling Thu Dec 31 02:02:03 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Comments: HOPR repeat of failed visit 02

Fixed Targets

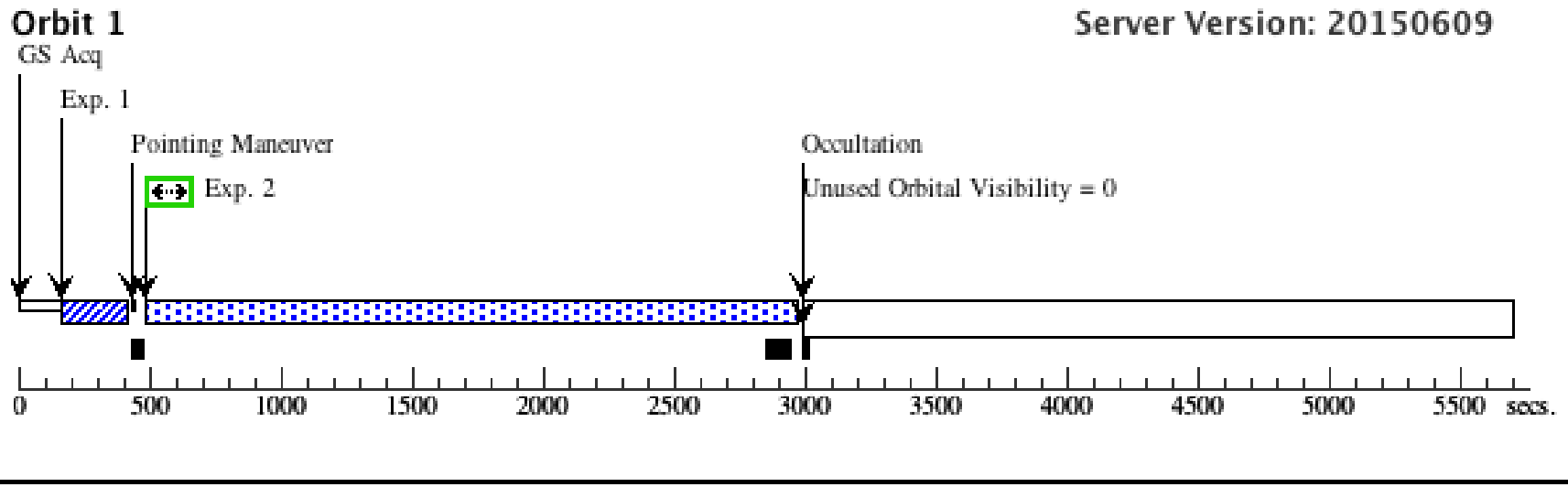
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	J091728.56+271951.0	RA: 09 17 28.5656 (139.3690233d) Dec: +27 19 51.03 (27.33084d) Equinox: J2000		V=16.6+/-0.2 GALEX FUV=19.0, GALEX NUV = 18.8	Reference Frame: ICRS

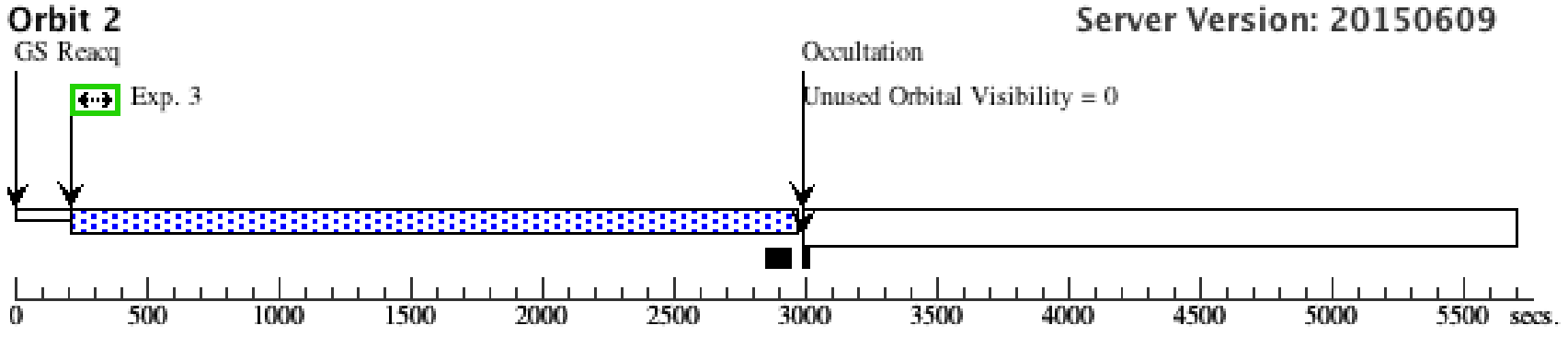
Comments: Extended=NO

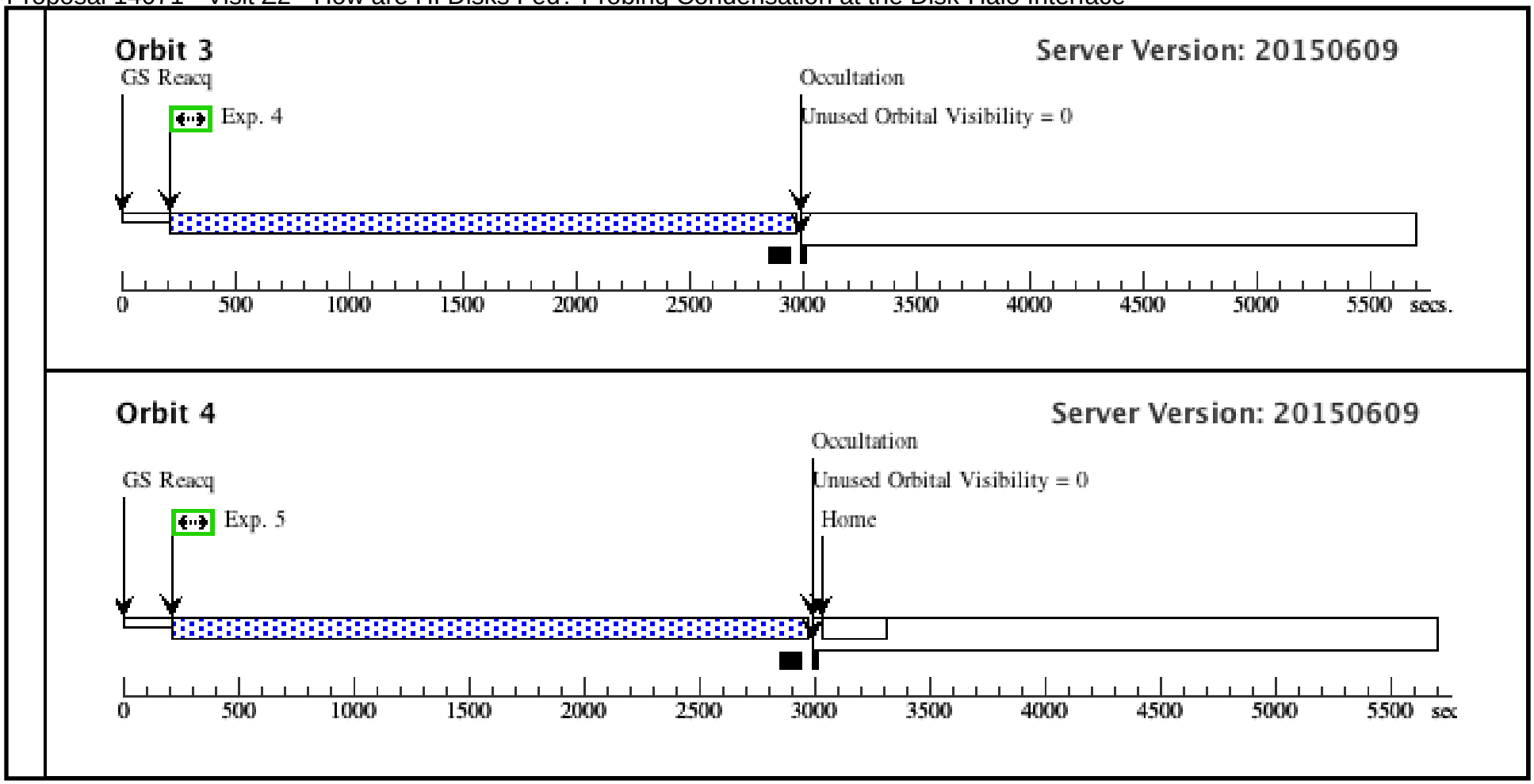
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732550)	(2) J091728.56+271951.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORA		GS ACQ SCENARIO BASE1B3		13 Secs (13 Secs) *[==>]*	*[1]*
2	(COS.sp.732994)	(2) J091728.56+271951.0	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=1; BUFFER-TIME=2211; FLASH=YES			2321 Secs (2321 Secs) *[==>]*	*[1]*
3	(COS.sp.732994)	(2) J091728.56+271951.0	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=2; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	*[2]*
4	(COS.sp.732994)	(2) J091728.56+271951.0	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=3; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	*[3]*
5	(COS.sp.732994)	(2) J091728.56+271951.0	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=4; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	*[4]*

Orbit Structure






Orbit 3
Server Version: 20150609
GS Reacq
Exp. 4
Occultation
Unused Orbital Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 4
Server Version: 20150609
GS Reacq
Exp. 5
Occultation
Unused Orbital Visibility = 0
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 03, scheduling Thu Dec 31 02:02:03 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 03) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

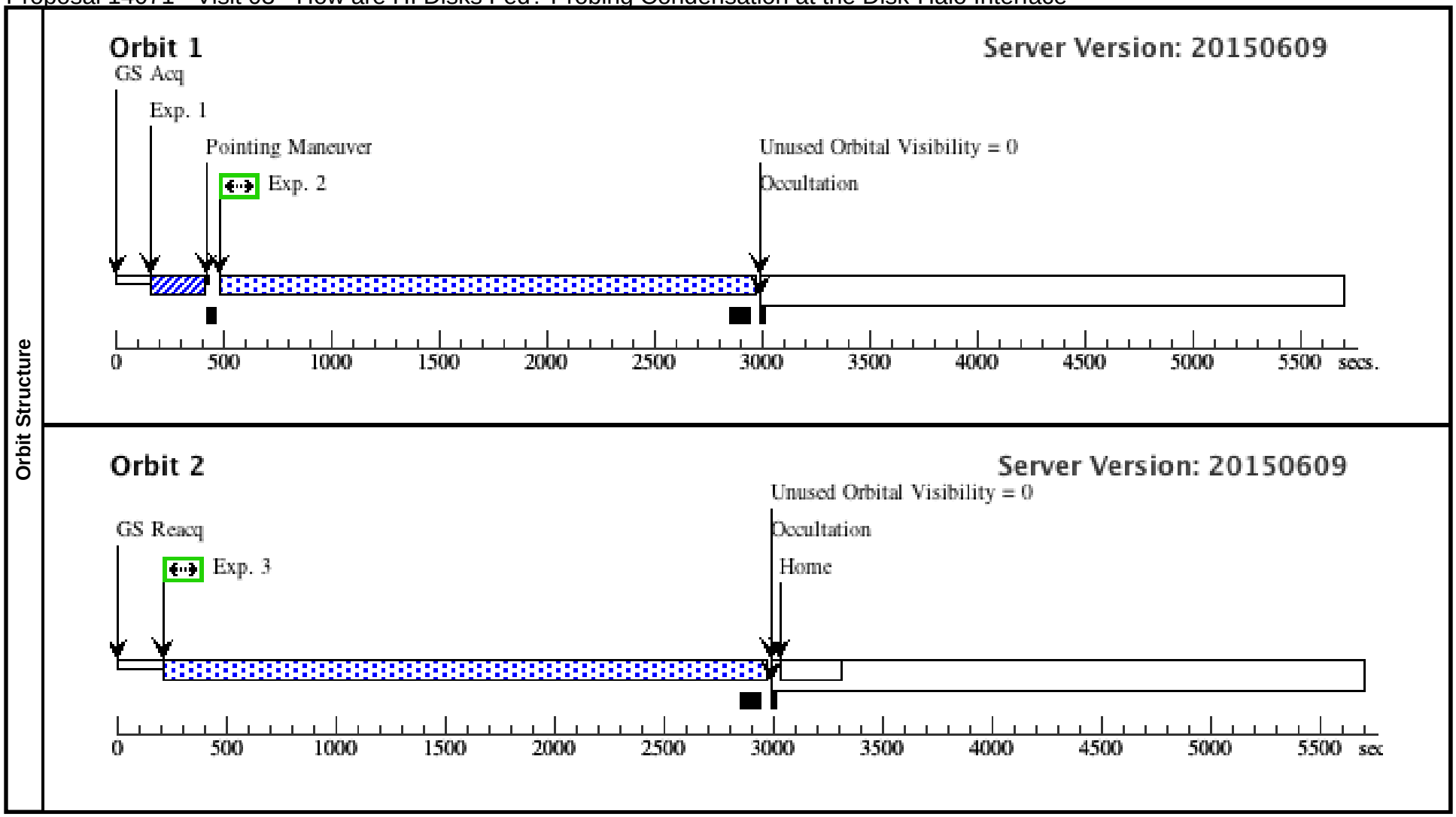
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J104241.27+250122.8	RA: 10 42 41.2703 (160.6719596d) Dec: +25 01 22.86 (25.02302d) Equinox: J2000		V=17.8+/-0.2 GALEX FUV=18.6, GALEX NUV = 18.7	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732553)	(3) J104241.27+250 122.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) *[==>]*	***[1]***
2	(COS.sp.732 994)	(3) J104241.27+250 122.8	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=22 17; FLASH=YES			2327 Secs (2327 Secs) *[==>]*	***[1]***
3	(COS.sp.732 994)	(3) J104241.27+250 122.8	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=25 97; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[2]***


Orbit Structure
Orbit 1
Server Version: 20150609
GS Acq
Exp. 1
Pointing Maneuver
Exp. 2
Unused Orbital Visibility = 0
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 2
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 04, implementation Thu Dec 31 02:02:03 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 04) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

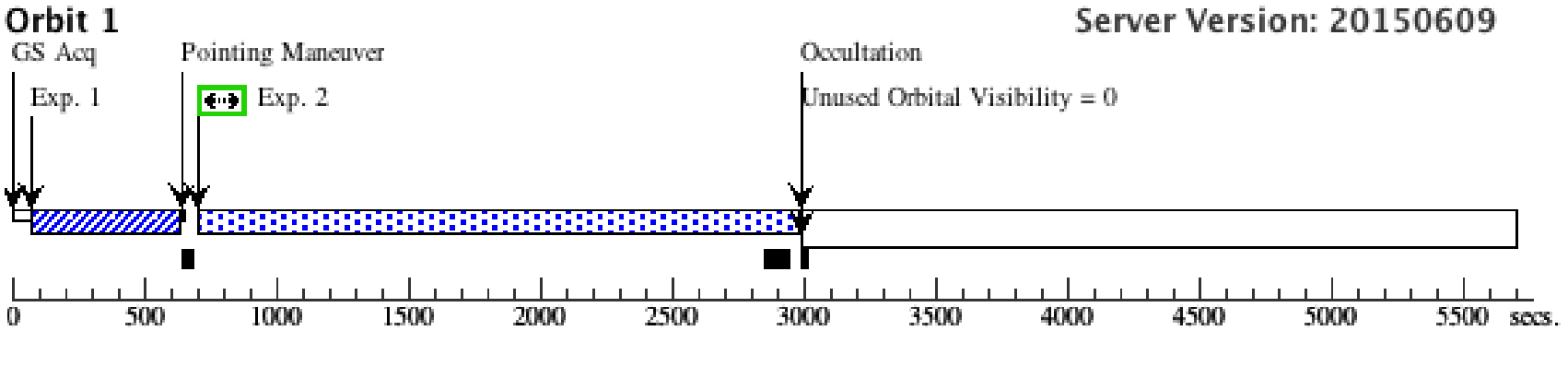
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J113325.77+242327.8	RA: 11 33 25.7765 (173.3574021d) Dec: +24 23 27.86 (24.39107d) Equinox: J2000		V=17.7+/-0.2 GALEX FUV=18.8, GALEX NUV = 18.1	Reference Frame: ICRS

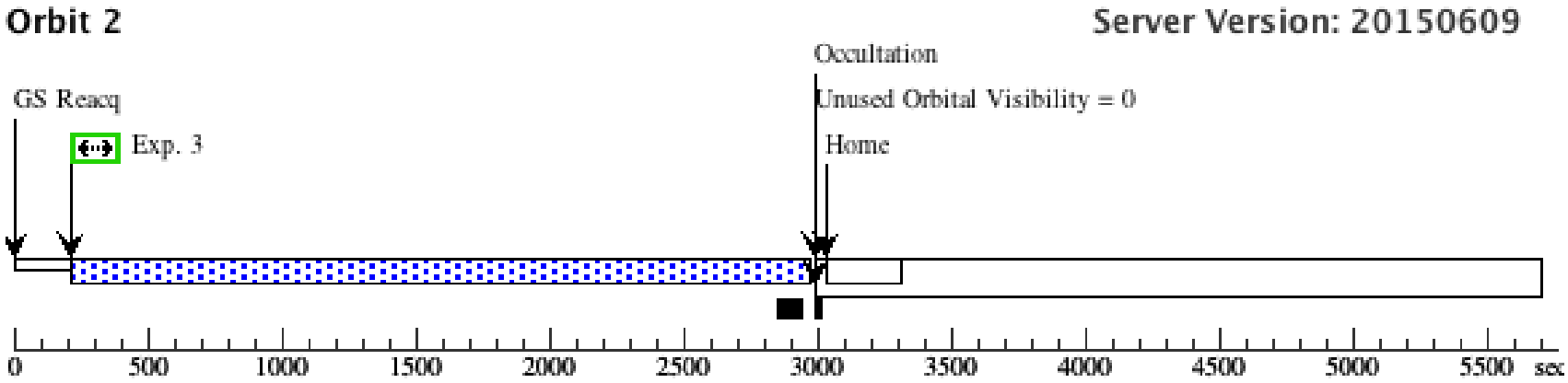
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732531)	(4) J113325.77+242327.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				120 Secs (120 Secs) *[==>]*	*[1]*
2	(COS.sp.732994)	(4) J113325.77+242327.8	COS/FUV, TIME-TAG, PSA	G130M 1318 A	FP-POS=1; BUFFER-TIME=1991; FLASH=YES			2101 Secs (2101 Secs) *[==>]*	*[1]*
3	(COS.sp.732994)	(4) J113325.77+242327.8	COS/FUV, TIME-TAG, PSA	G130M 1318 A	FP-POS=2; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	*[2]*

Orbit Structure





Visit

Proposal 14071, Visit 05, scheduling Thu Dec 31 02:02:03 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

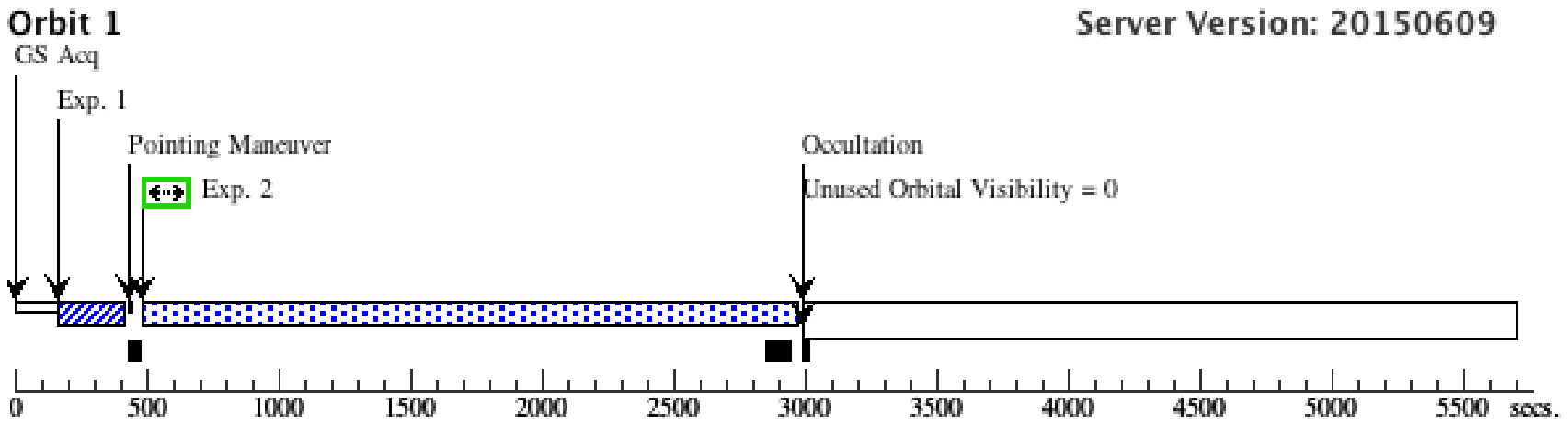
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	J122137.93+043026.1	RA: 12 21 37.9383 (185.4080762d) Dec: +04 30 26.11 (4.50725d) Equinox: J2000		V=17.0+/-0.2 GALEX FUV=18.9, GALEX NUV = 18.8	Reference Frame: ICRS

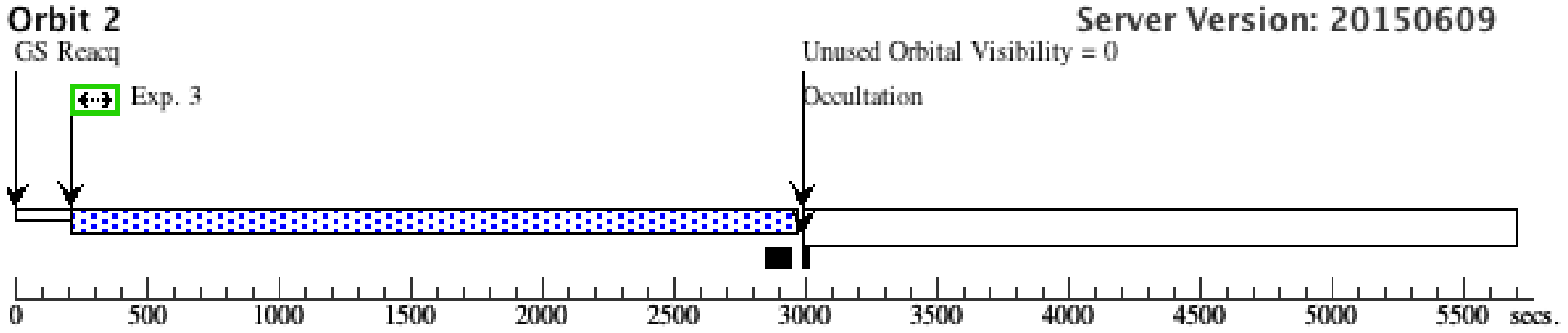
Comments: Extended=NO

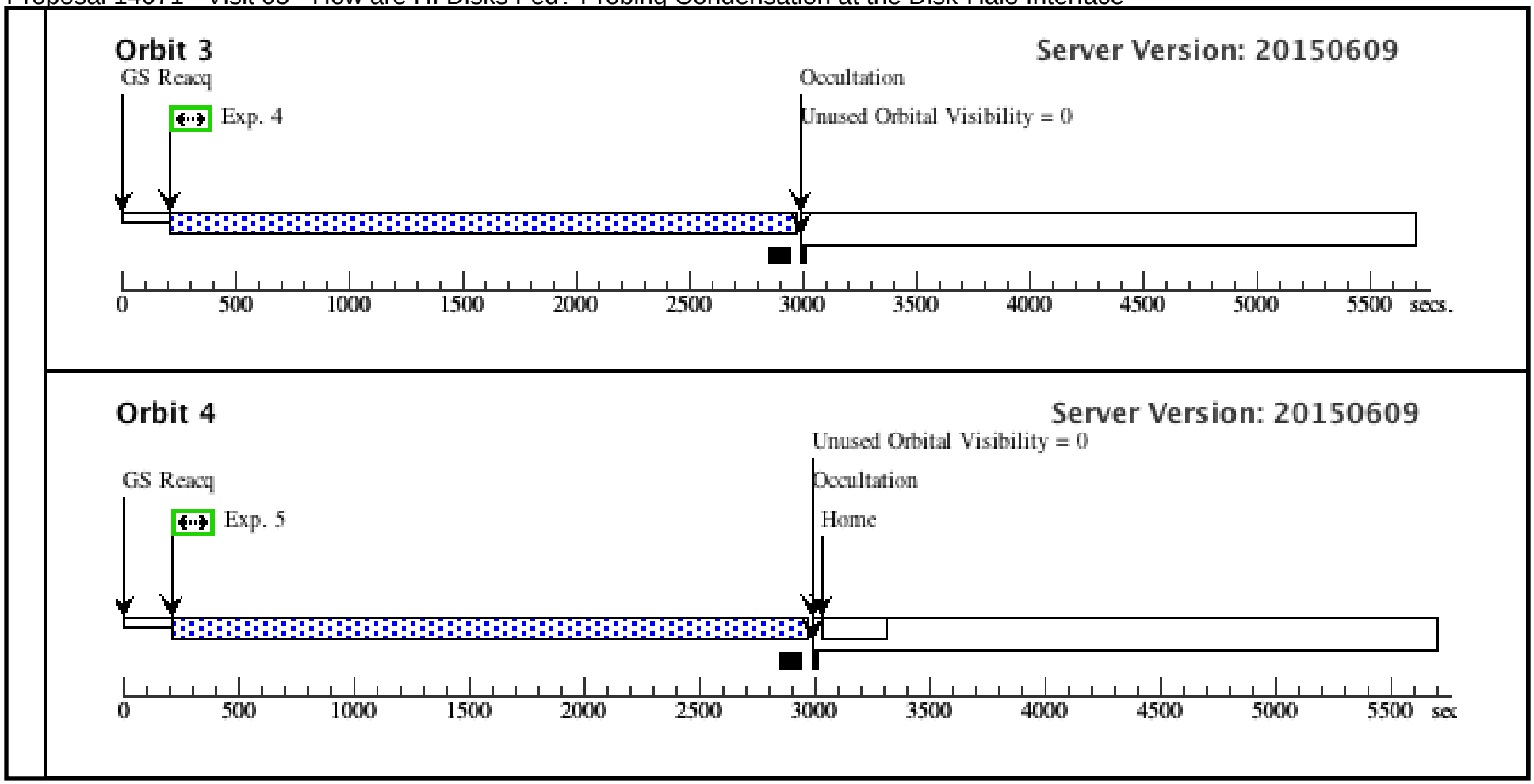
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732550)	(5) J122137.93+043026.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				13 Secs (13 Secs) *[==>]*	 ***[1]***
2	(COS.sp.732994)	(5) J122137.93+043026.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=2214; FLASH=YES			2324 Secs (2324 Secs) *[==>]*	 ***[1]***
3	(COS.sp.732994)	(5) J122137.93+043026.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	 ***[2]***
4	(COS.sp.732994)	(5) J122137.93+043026.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	 ***[3]***
5	(COS.sp.732994)	(5) J122137.93+043026.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	 ***[4]***

Orbit Structure






Orbit 3
Server Version: 20150609
GS Reacq
Exp. 4
Occultation
Unused Orbital Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 4
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Exp. 5
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 06, completed Thu Dec 31 02:02:03 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 06) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

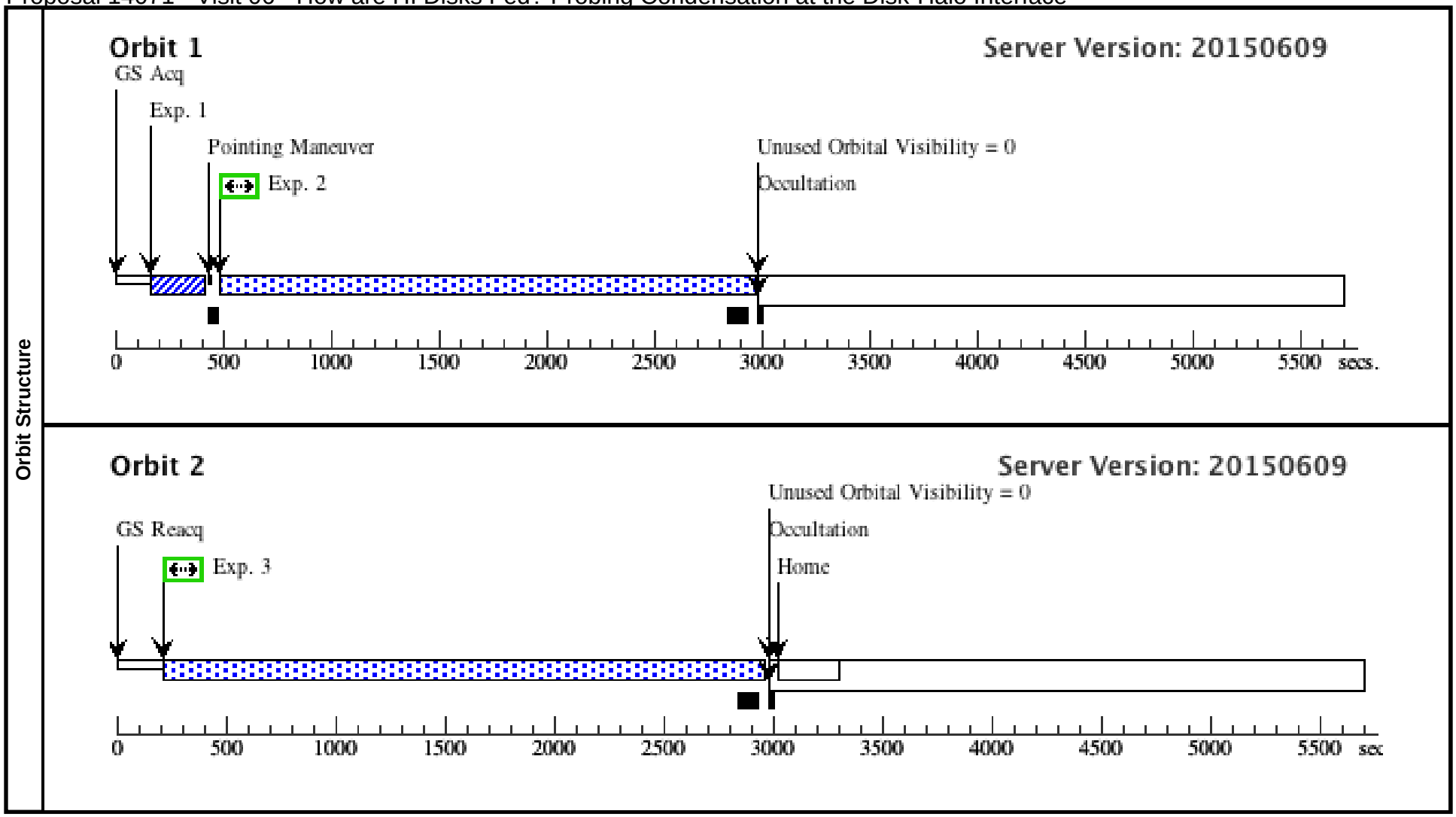
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	J135426.08+144151.4	RA: 13 54 26.0845 (208.6086854d) Dec: +14 41 51.48 (14.69763d) Equinox: J2000		V=18.0+/-0.2 GALEX FUV=18.7, GALEX NUV = 18.8	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732550)	(6) J135426.08+144151.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				13 Secs (13 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(6) J135426.08+144151.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=2210; FLASH=YES			2320 Secs (2320 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(6) J135426.08+144151.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[2]***


Orbit Structure
Orbit 1
Server Version: 20150609
GS Acq
Exp. 1
Pointing Maneuver
Exp. 2
Unused Orbital Visibility = 0
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 2
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 07, scheduling Thu Dec 31 02:02:03 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

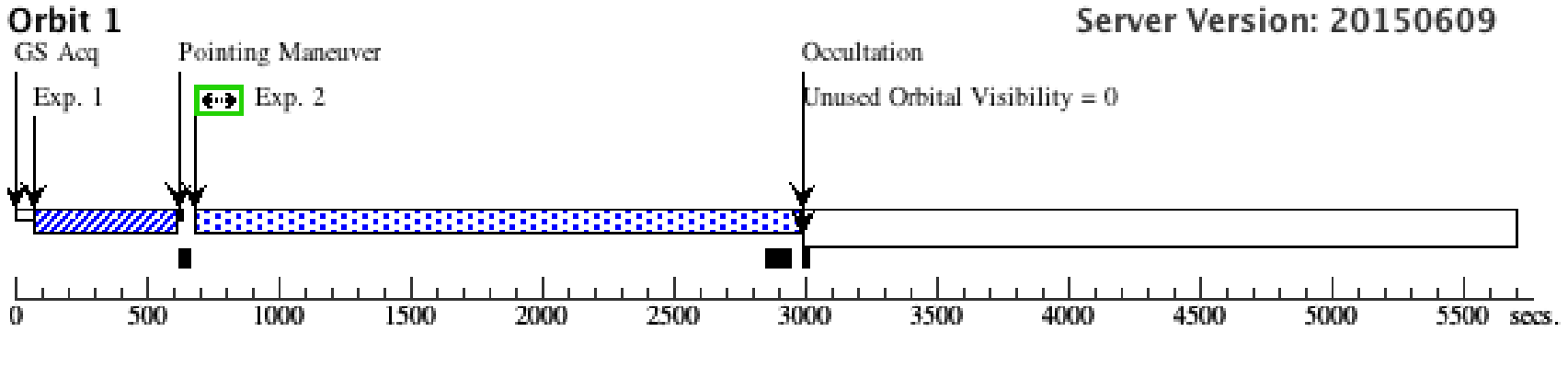
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(7)	J143216.78+095519.2	RA: 14 32 16.7813 (218.0699221d) Dec: +09 55 19.26 (9.92202d) Equinox: J2000		V=17.4+/-0.2 GALEX FUV=18.3, GALEX NUV = 17.9	Reference Frame: ICRS

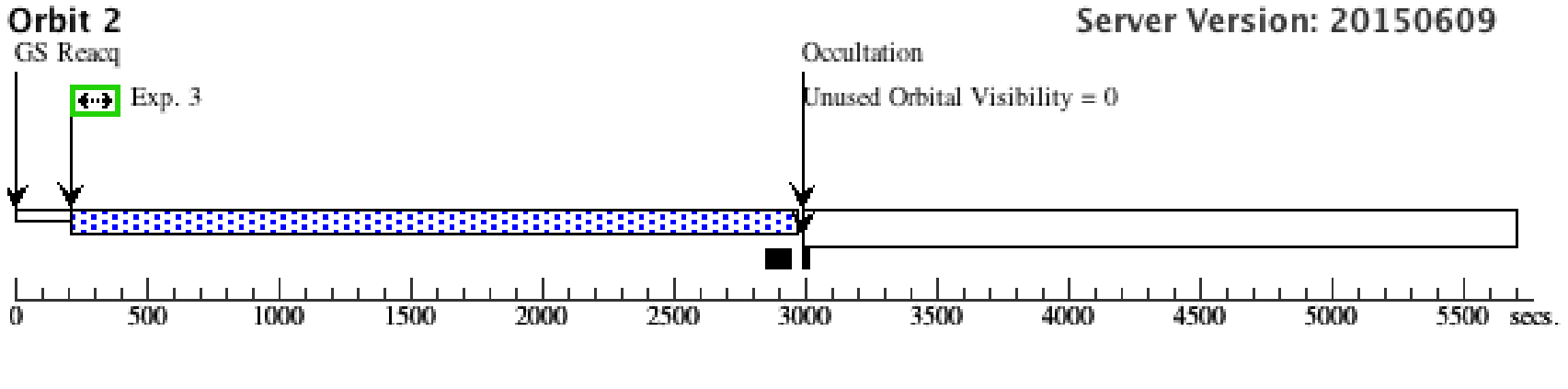
Comments: Extended=NO

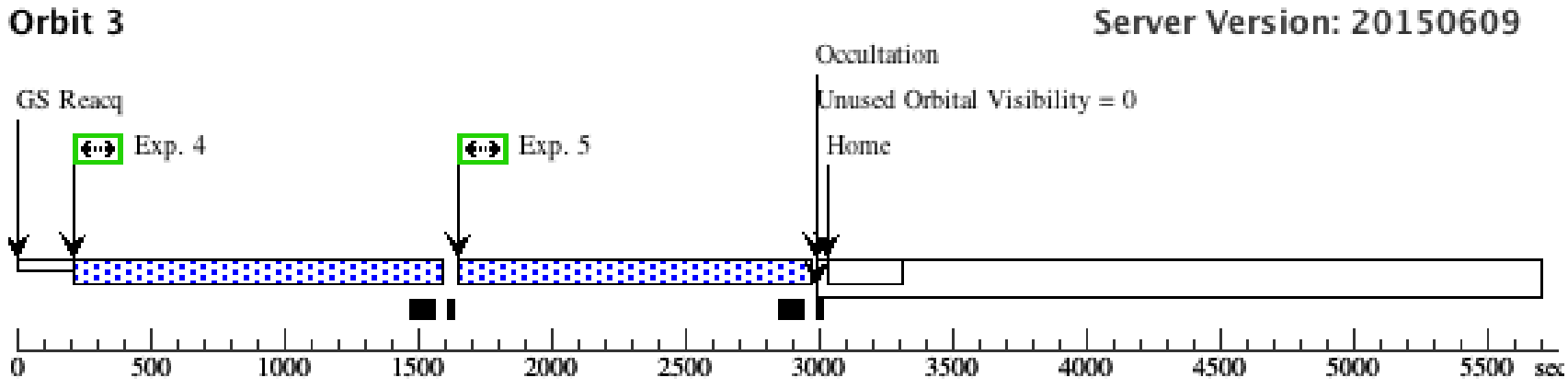
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732530)	(7) J143216.78+095519.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				110 Secs (110 Secs) *[==>]*	***[1]***
2	(COS.sp.732998)	(7) J143216.78+095519.2	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=1; BUFFER-TIME=2016; FLASH=YES			2126 Secs (2126 Secs) *[==>]*	***[1]***
3	(COS.sp.732998)	(7) J143216.78+095519.2	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=2; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[2]***
4	(COS.sp.732998)	(7) J143216.78+095519.2	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=3; BUFFER-TIME=1220; FLASH=YES			1330 Secs (1330 Secs) *[==>]*	***[3]***
5	(COS.sp.732998)	(7) J143216.78+095519.2	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=4; BUFFER-TIME=1161; FLASH=YES			1271 Secs (1271 Secs) *[==>]*	***[3]***

Orbit Structure







Visit

Proposal 14071, Visit 08, scheduling Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 08) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

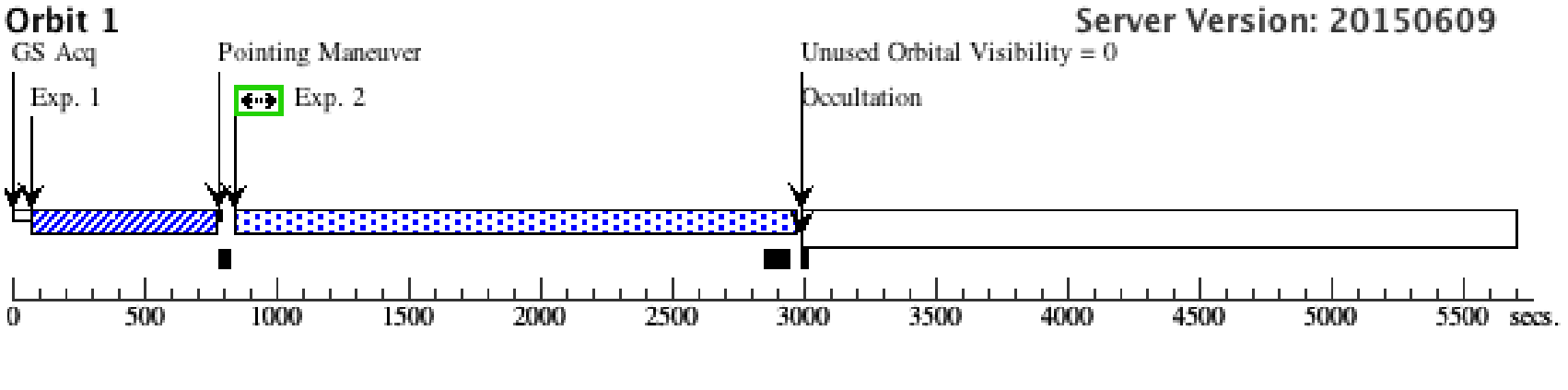
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	J153314.28+150103.0	RA: 15 33 14.2844 (233.3095183d) Dec: +15 01 3.08 (15.01752d) Equinox: J2000		V=17.0+/-0.2 GALEX FUV=18.7, GALEX NUV = 18.5	Reference Frame: ICRS

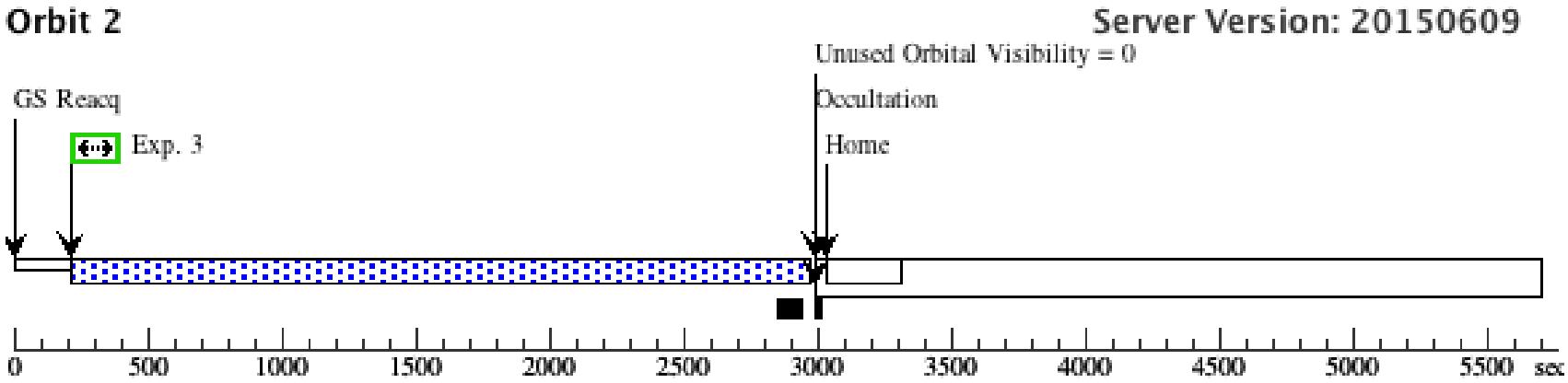
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732541)	(8) J153314.28+150103.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				191 Secs (191 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(8) J153314.28+150103.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1858; FLASH=YES			1968 Secs (1968 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(8) J153314.28+150103.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14071, Visit 09, completed Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

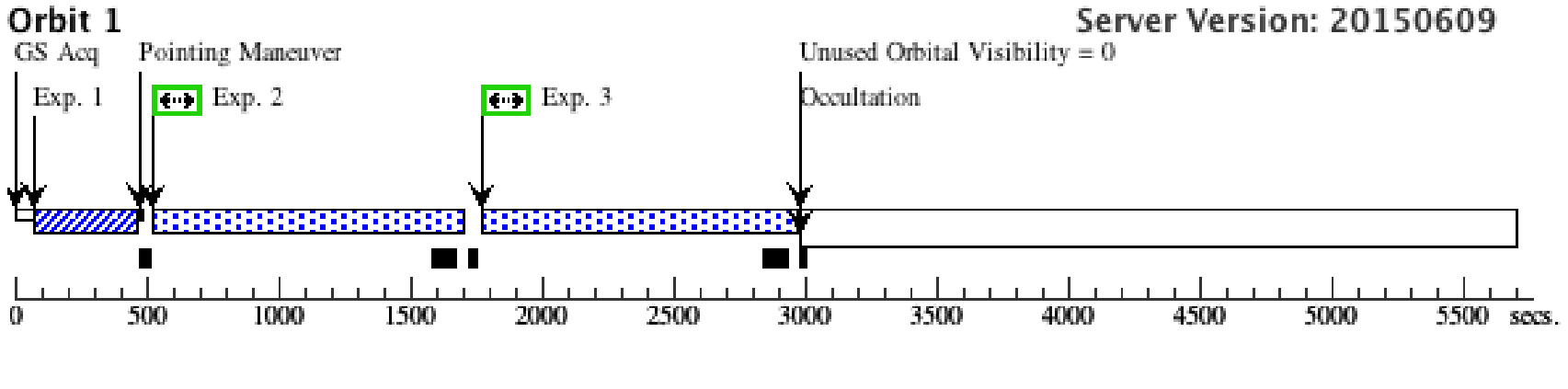
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(9)	J104335.86+115129.1	RA: 10 43 35.8699 (160.8994579d) Dec: +11 51 29.13 (11.85809d) Equinox: J2000		V=16.0+/-0.2 GALEX FUV=17.8, GALEX NUV = 16.6	Reference Frame: ICRS

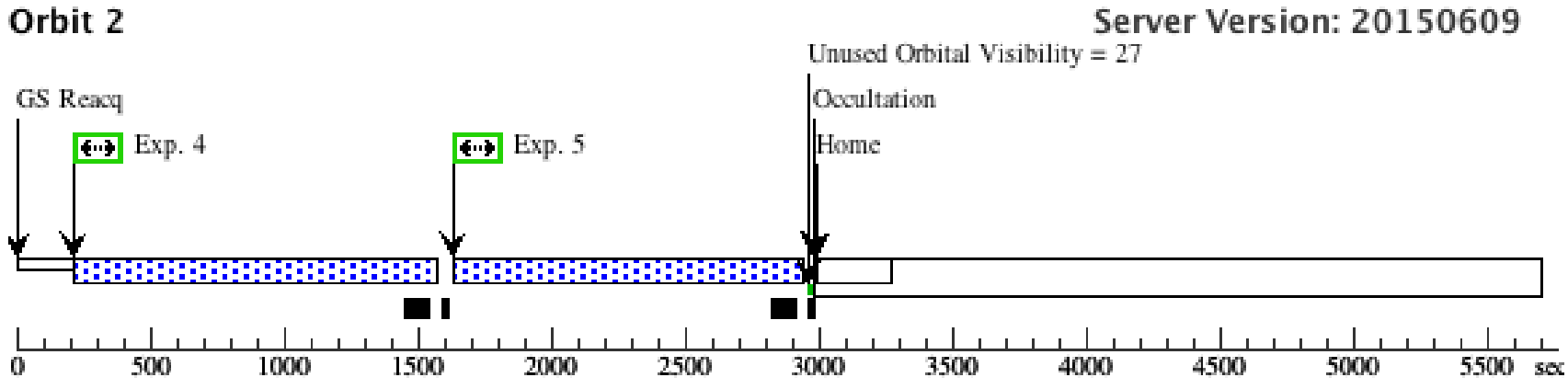
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732558)	(9) J104335.86+115 129.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				33 Secs (33 Secs) *[==>]*	***[1]***
2	(COS.sp.732 977)	(9) J104335.86+115 129.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=905; FLASH=YES			1015 Secs (1015 Secs) *[==>]*	***[1]***
3	(COS.sp.732 977)	(9) J104335.86+115 129.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=1040; FLASH=YES			1150 Secs (1150 Secs) *[==>]*	***[1]***
4	(COS.sp.732 977)	(9) J104335.86+115 129.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=1200; FLASH=YES			1310 Secs (1310 Secs) *[==>]*	***[2]***
5	(COS.sp.732 977)	(9) J104335.86+115 129.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=1150; FLASH=YES			1260 Secs (1260 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14071, Visit 10, scheduling Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

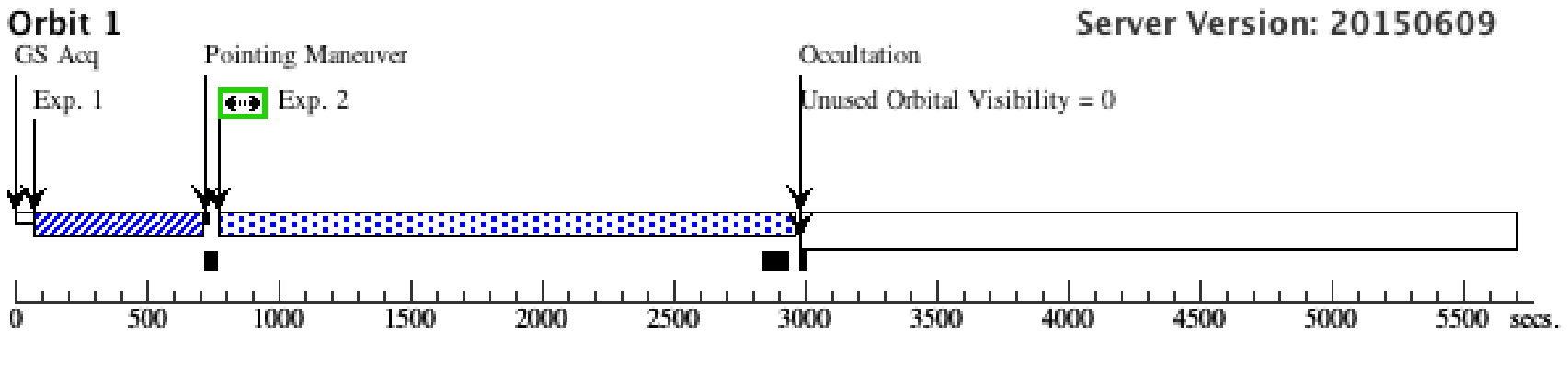
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(10)	J114046.06+113649.5	RA: 11 40 46.0602 (175.1919175d) Dec: +11 36 49.58 (11.61377d) Equinox: J2000		V=17.8+/-0.2 GALEX FUV=18.9, GALEX NUV = 18.1	Reference Frame: ICRS

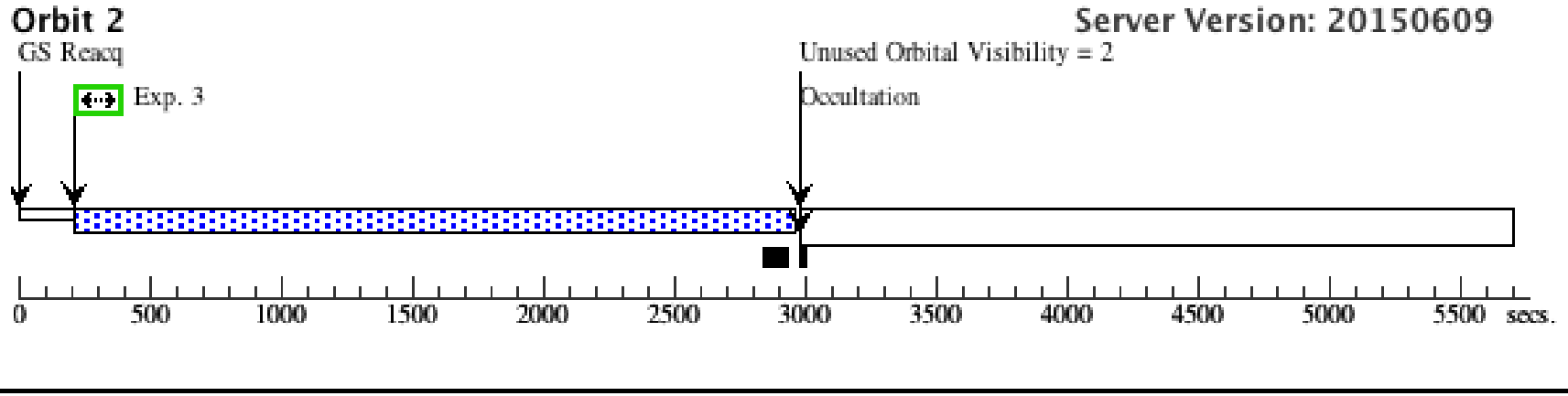
Comments: Extended=NO

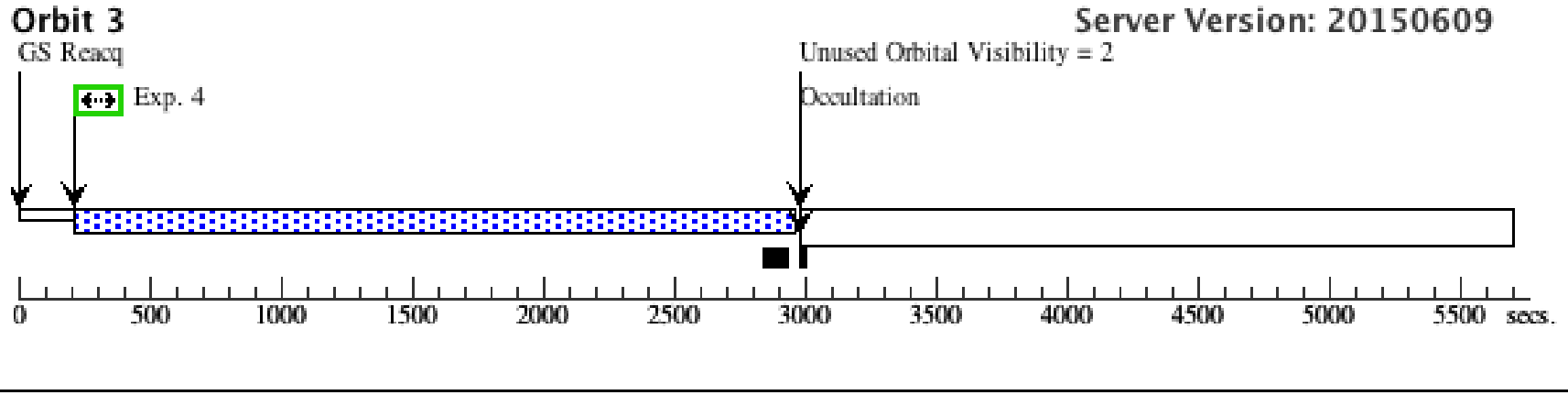
Exposures

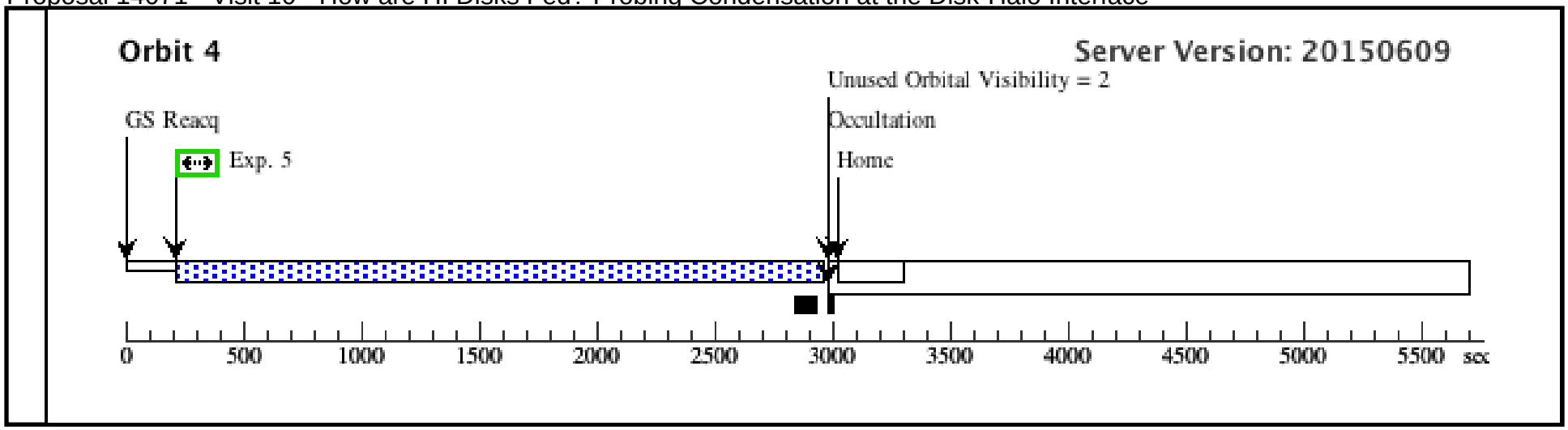
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732540)	(10) J114046.06+113649.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				159 Secs (159 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(10) J114046.06+113649.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1918; FLASH=YES			2028 Secs (2028 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(10) J114046.06+113649.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=2590; FLASH=YES			2700 Secs (2700 Secs) *[==>]*	***[2]***
4	(COS.sp.732994)	(10) J114046.06+113649.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=2590; FLASH=YES			2700 Secs (2700 Secs) *[==>]*	***[3]***
5	(COS.sp.732994)	(10) J114046.06+113649.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=2590; FLASH=YES			2700 Secs (2700 Secs) *[==>]*	***[4]***

Orbit Structure








Orbit 4
Server Version: 20150609
Unused Orbital Visibility = 2
GS Reacq
Occultation
Exp. 5
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 11, scheduling Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

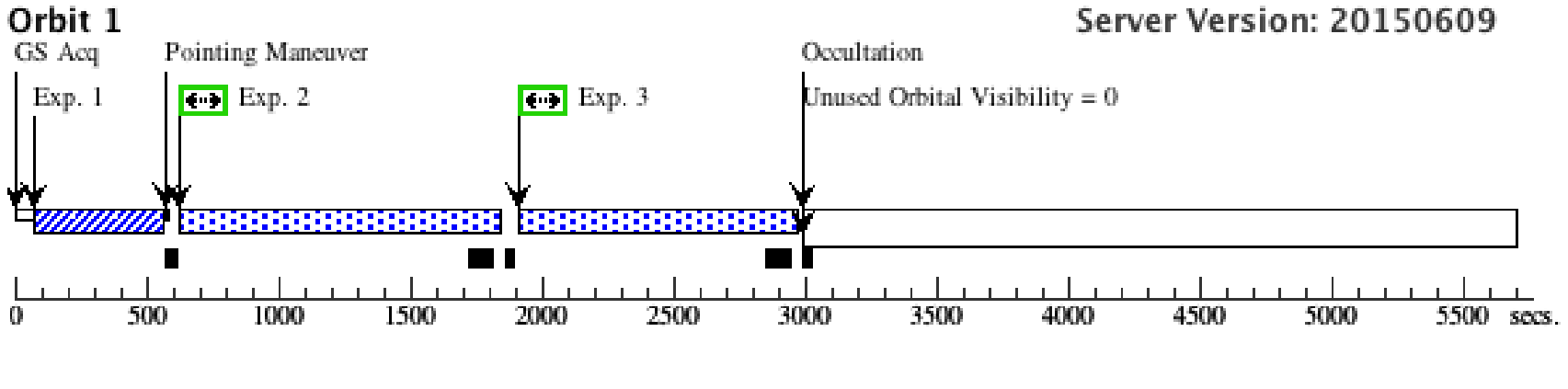
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(11)	J114434.72+070516.4	RA: 11 44 34.7284 (176.1447017d) Dec: +07 05 16.50 (7.08792d) Equinox: J2000		V=16.5+/-0.2 GALEX FUV=17.9, GALEX NUV = 17.6	Reference Frame: ICRS

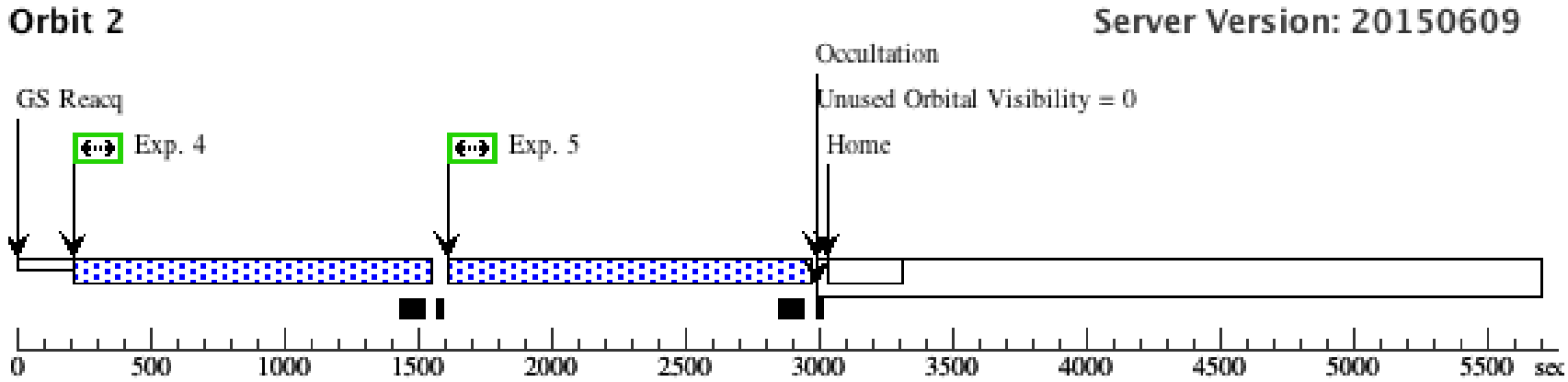
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732529)	(11) J114434.72+070516.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				84 Secs (84 Secs) *[==>]*	 ***[1]***
2	(COS.sp.732977)	(11) J114434.72+070516.4	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=1; BUFFER-TIME=940; FLASH=YES			1050 Secs (1050 Secs) *[==>]*	 ***[1]***
3	(COS.sp.732977)	(11) J114434.72+070516.4	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=2; BUFFER-TIME=900; FLASH=YES			1010 Secs (1010 Secs) *[==>]*	 ***[1]***
4	(COS.sp.732977)	(11) J114434.72+070516.4	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=3; BUFFER-TIME=1180; FLASH=YES			1290 Secs (1290 Secs) *[==>]*	 ***[2]***
5	(COS.sp.732977)	(11) J114434.72+070516.4	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=4; BUFFER-TIME=1201; FLASH=YES			1311 Secs (1311 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 14071, Visit 12, failed Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

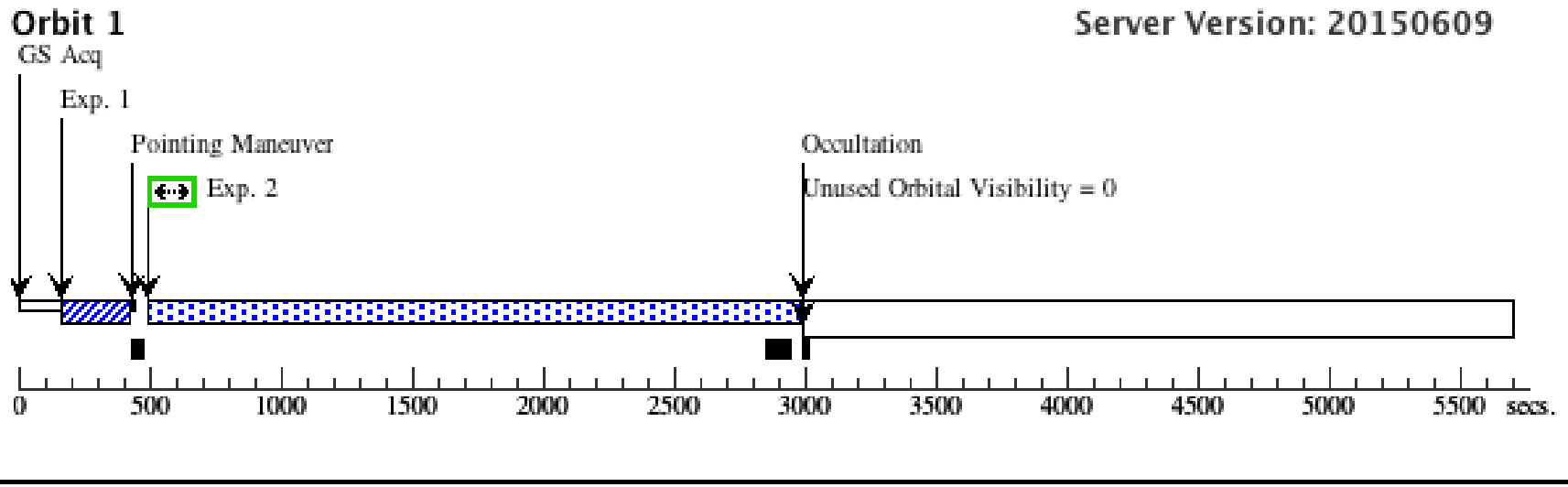
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	J115709.77+090607.3	RA: 11 57 9.7716 (179.2907150d) Dec: +09 06 7.31 (9.10203d) Equinox: J2000		V=18.6+/-0.2 GALEX FUV=19.0, GALEX NUV = 18.9	Reference Frame: ICRS

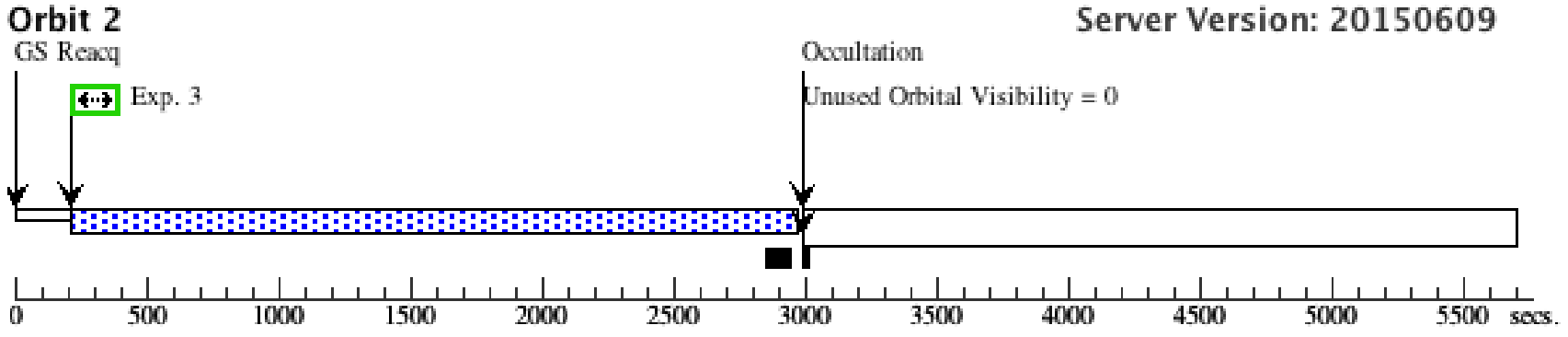
Comments: Extended=NO

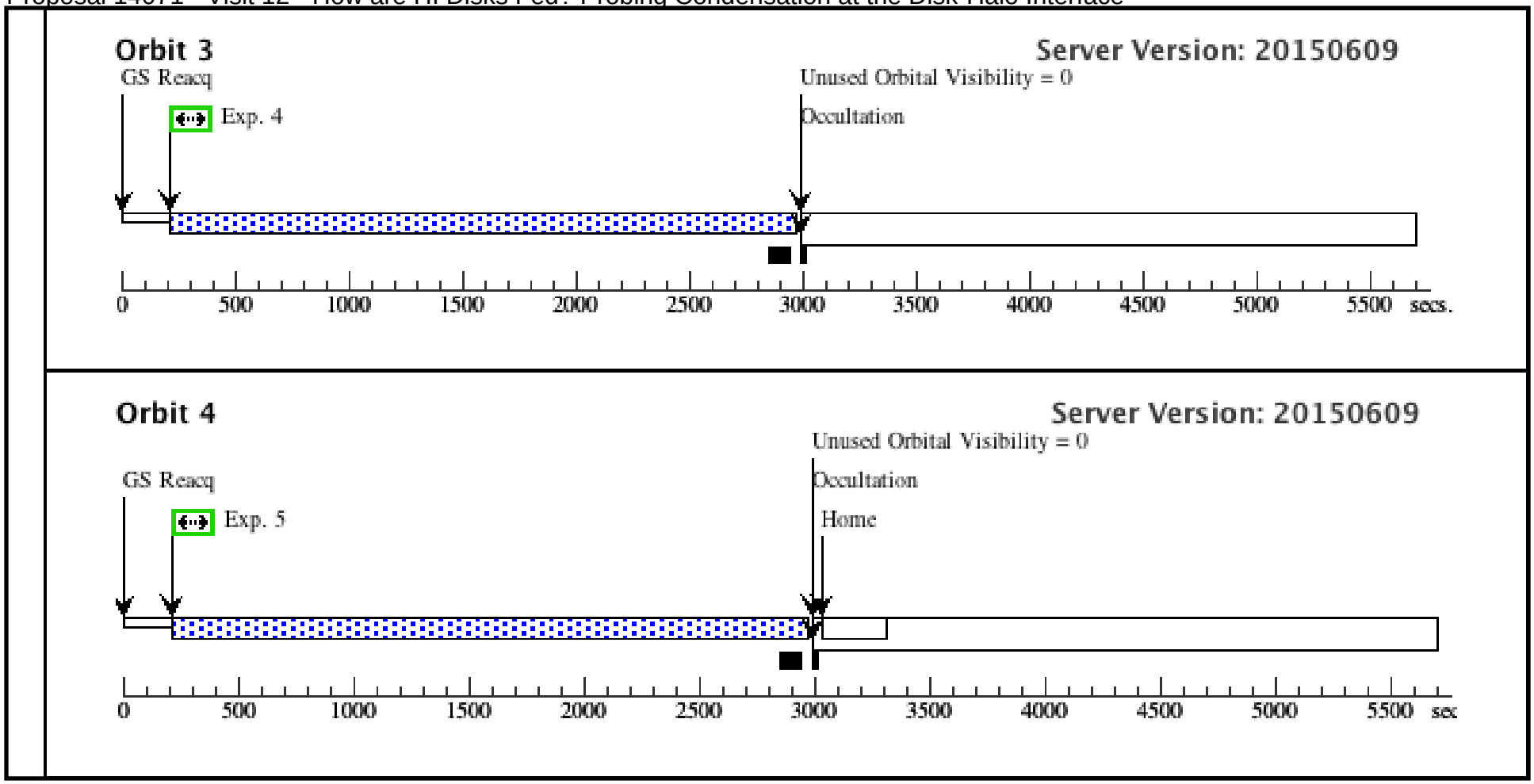
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732544)	(12) J115709.77+090607.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				15 Secs (15 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(12) J115709.77+090607.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=2196; FLASH=YES			2306 Secs (2306 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(12) J115709.77+090607.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[2]***
4	(COS.sp.732994)	(12) J115709.77+090607.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[3]***
5	(COS.sp.732994)	(12) J115709.77+090607.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[4]***

Orbit Structure






Orbit 3
Server Version: 20150609
GS Reacq
Exp. 4
Unused Orbital Visibility = 0
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 4
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 5
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit Z3 Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

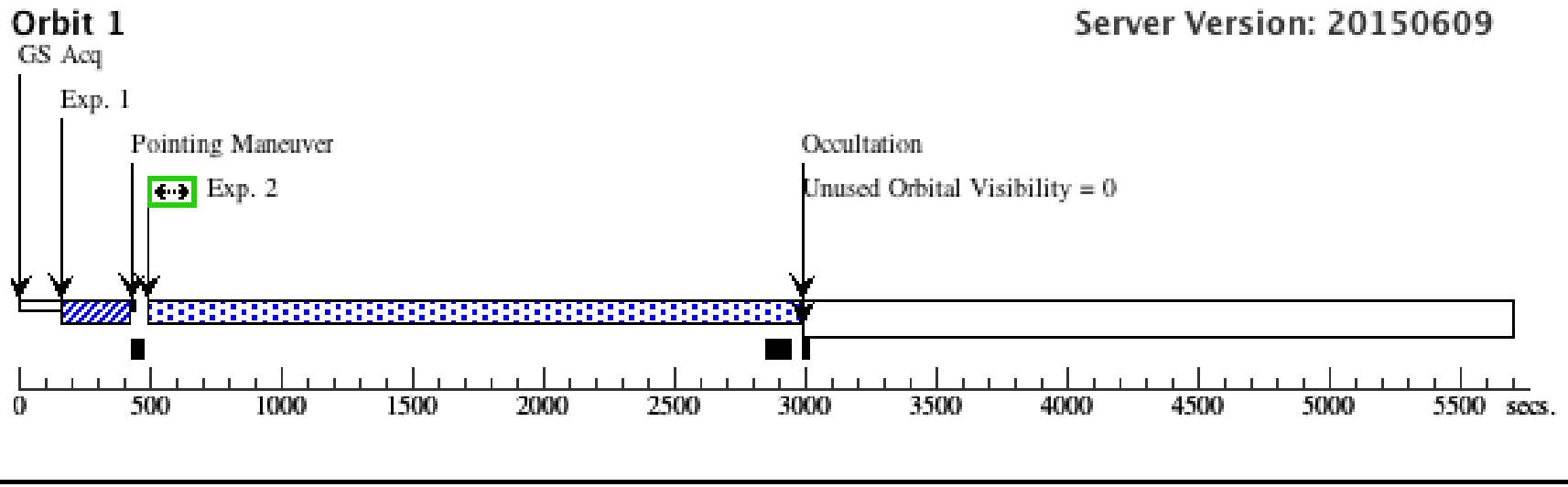
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(12)	J115709.77+090607.3	RA: 11 57 9.7716 (179.2907150d) Dec: +09 06 7.31 (9.10203d) Equinox: J2000		V=18.6+/-0.2 GALEX FUV=19.0, GALEX NUV = 18.9	Reference Frame: ICRS

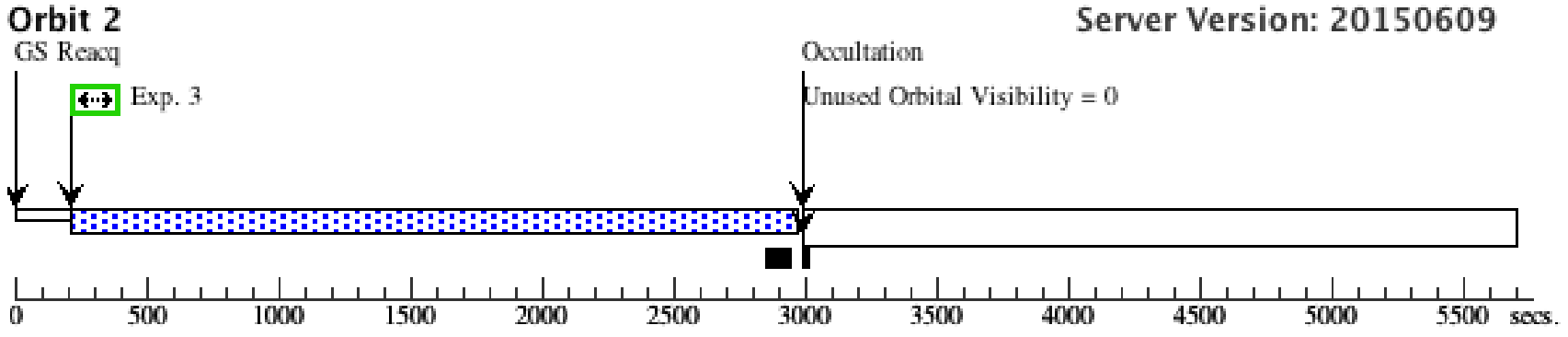
Comments: Extended=NO

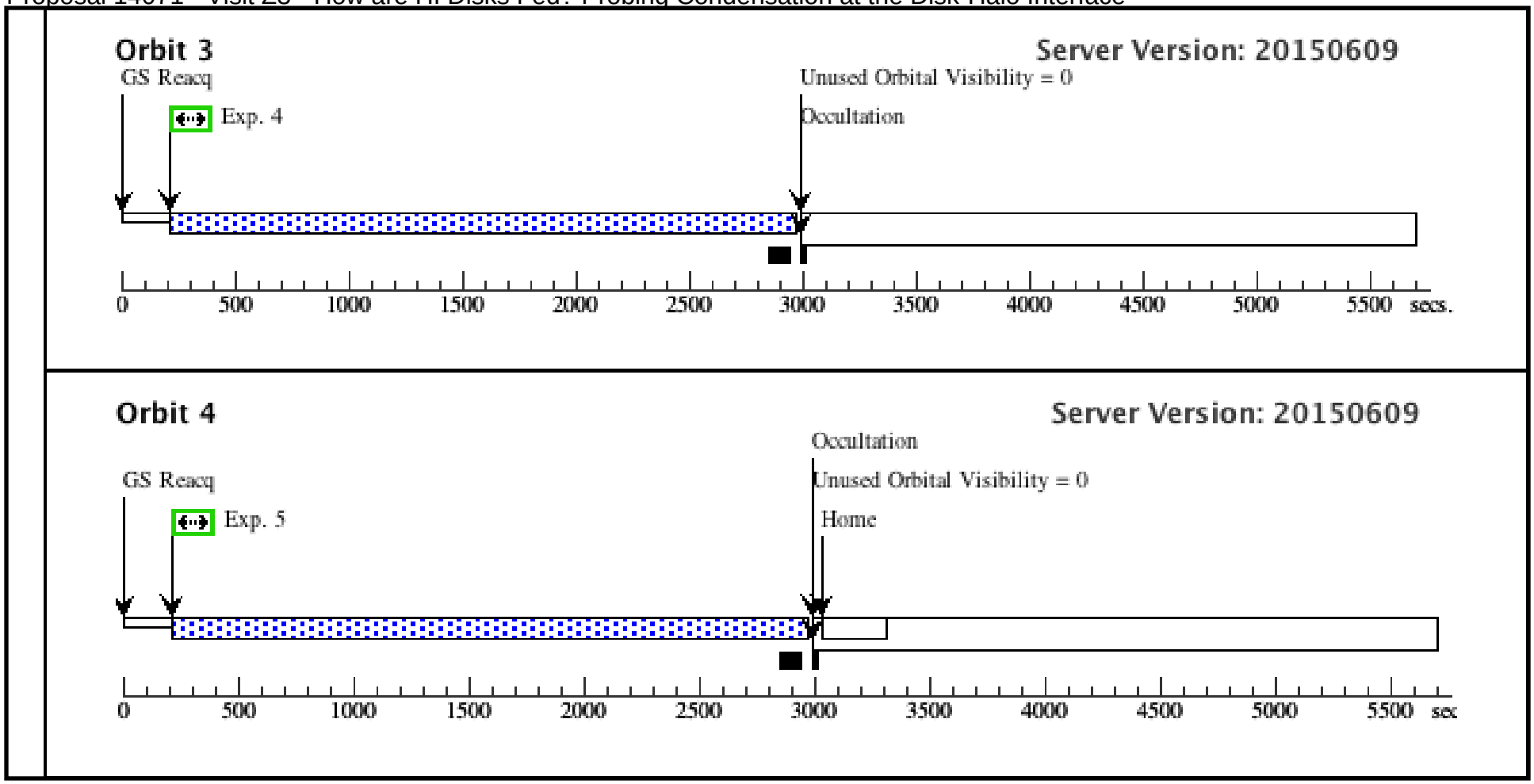
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732544)	(12) J115709.77+090607.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA		GS ACQ SCENARIO BASE1B3		15 Secs (15 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(12) J115709.77+090607.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=2196; FLASH=YES			2306 Secs (2306 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(12) J115709.77+090607.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[2]***
4	(COS.sp.732994)	(12) J115709.77+090607.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[3]***
5	(COS.sp.732994)	(12) J115709.77+090607.3	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[4]***

Orbit Structure






Orbit 3
Server Version: 20150609
GS Reacq
Exp. 4
Unused Orbital Visibility = 0
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 4
Server Version: 20150609
Occultation
GS Reacq
Unused Orbital Visibility = 0
Exp. 5
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 13, scheduling Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

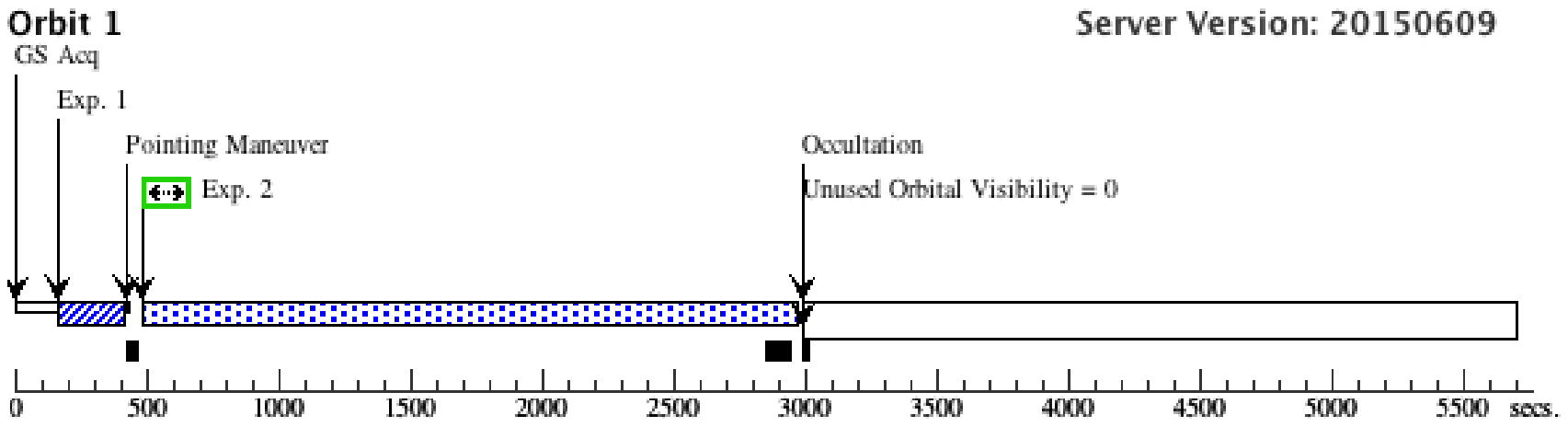
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(13)	J122330.78+154507.3	RA: 12 23 30.7810 (185.8782542d) Dec: +15 45 7.37 (15.75205d) Equinox: J2000		V=16.6+/-0.2 GALEX FUV=18.9, GALEX NUV = 18.7	Reference Frame: ICRS

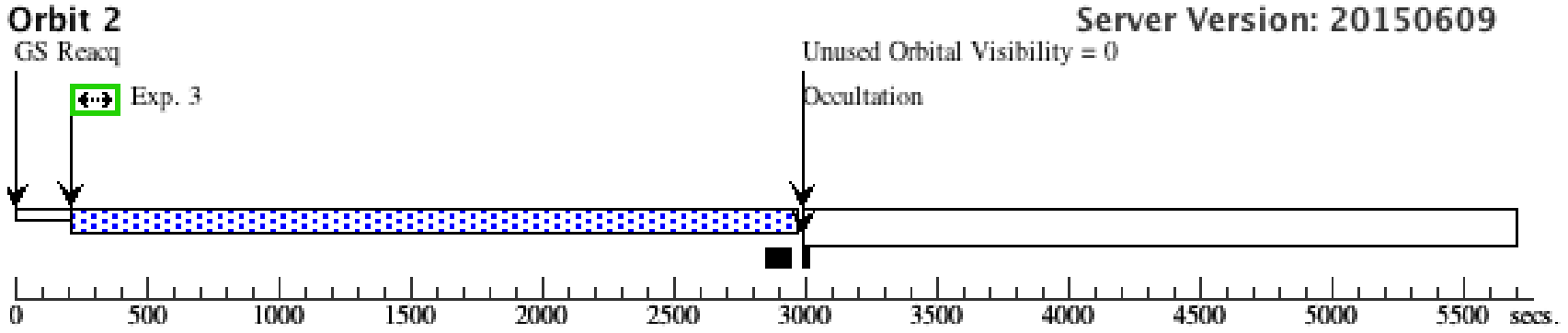
Comments: Extended=NO

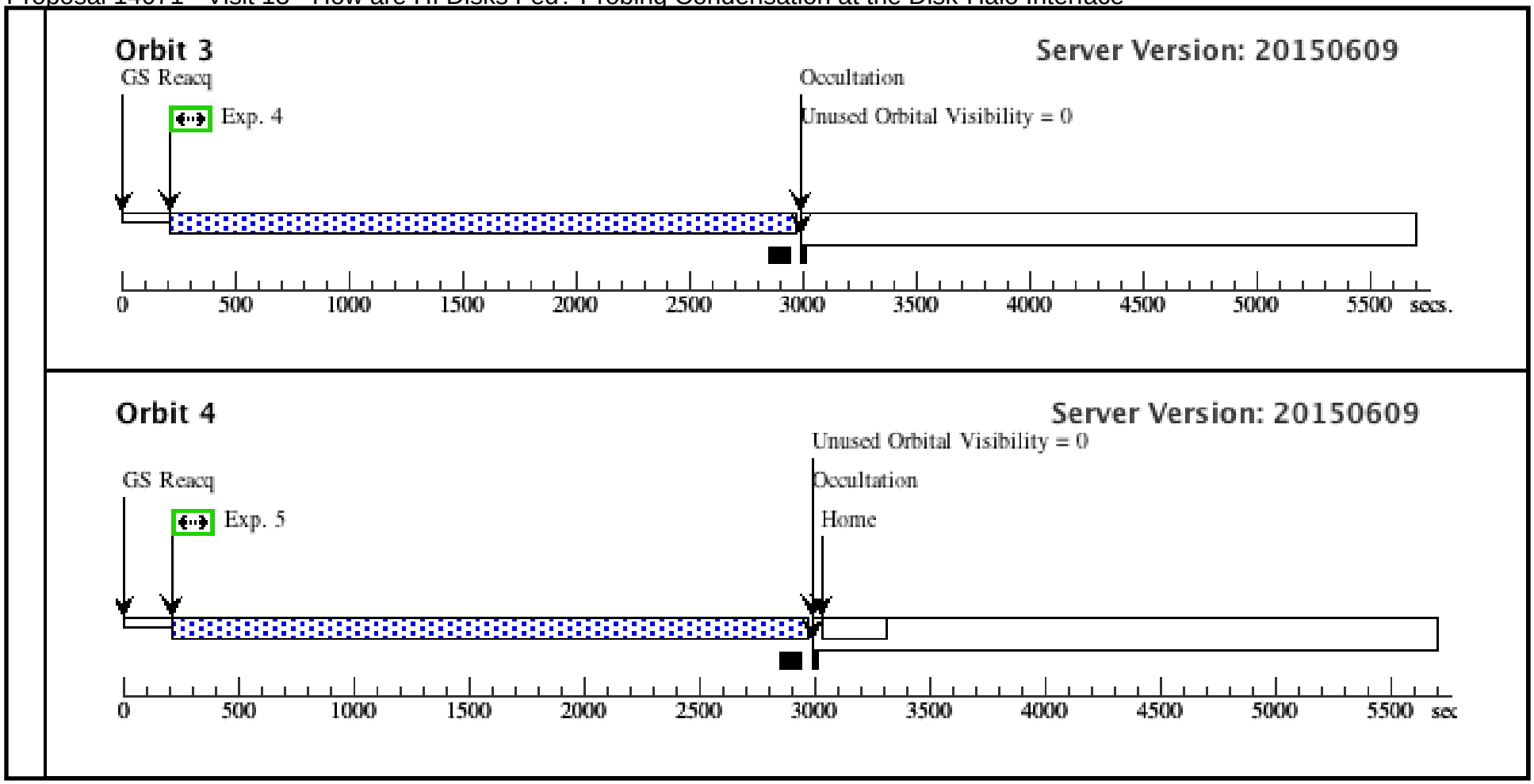
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732553)	(13) J122330.78+154507.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(13) J122330.78+154507.3	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=1; BUFFER-TIME=2212; FLASH=YES			2322 Secs (2322 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(13) J122330.78+154507.3	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=2; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[2]***
4	(COS.sp.732994)	(13) J122330.78+154507.3	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=3; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[3]***
5	(COS.sp.732994)	(13) J122330.78+154507.3	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=4; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[4]***

Orbit Structure






Orbit 3
Server Version: 20150609
GS Reacq
Exp. 4
Occultation
Unused Orbital Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 4
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Exp. 5
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 14, scheduling Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

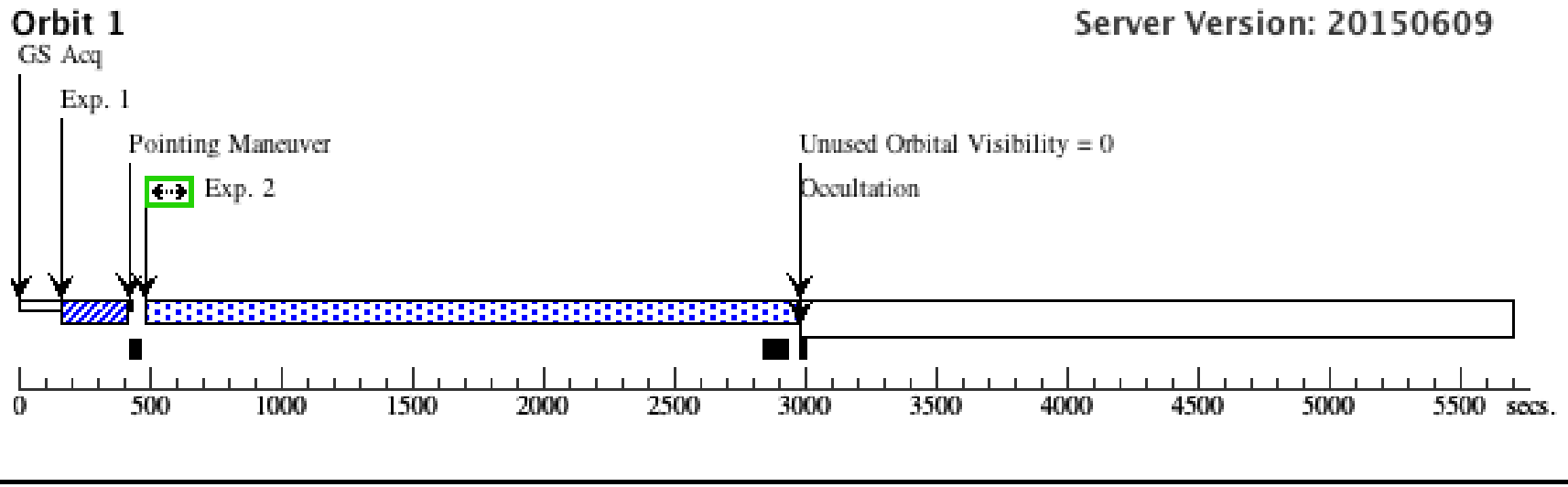
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(14)	J123113.12+120307.2	RA: 12 31 13.1292 (187.8047050d) Dec: +12 03 7.20 (12.05200d) Equinox: J2000		V=16.8+/-0.2 GALEX FUV=18.9, GALEX NUV = 18.6	Reference Frame: ICRS

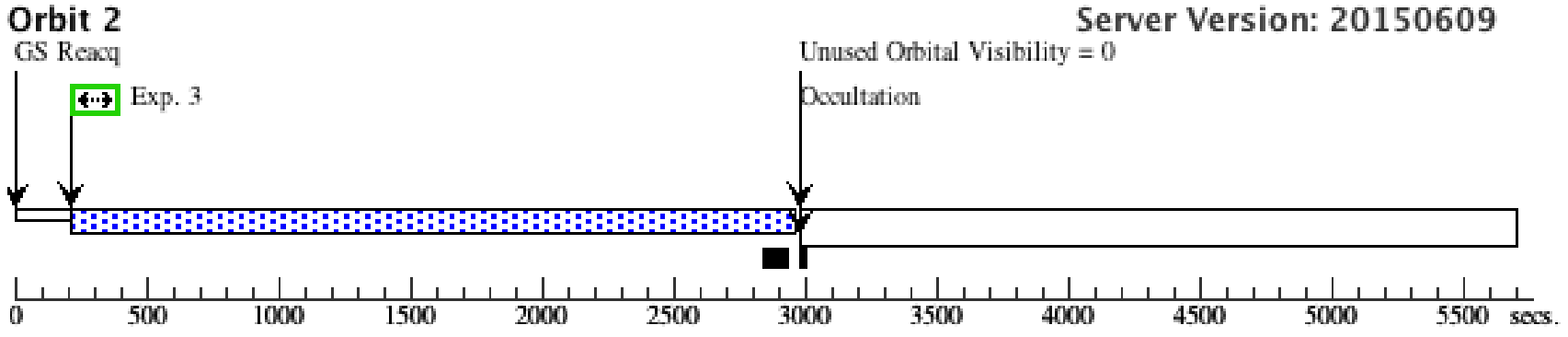
Comments: Extended=NO

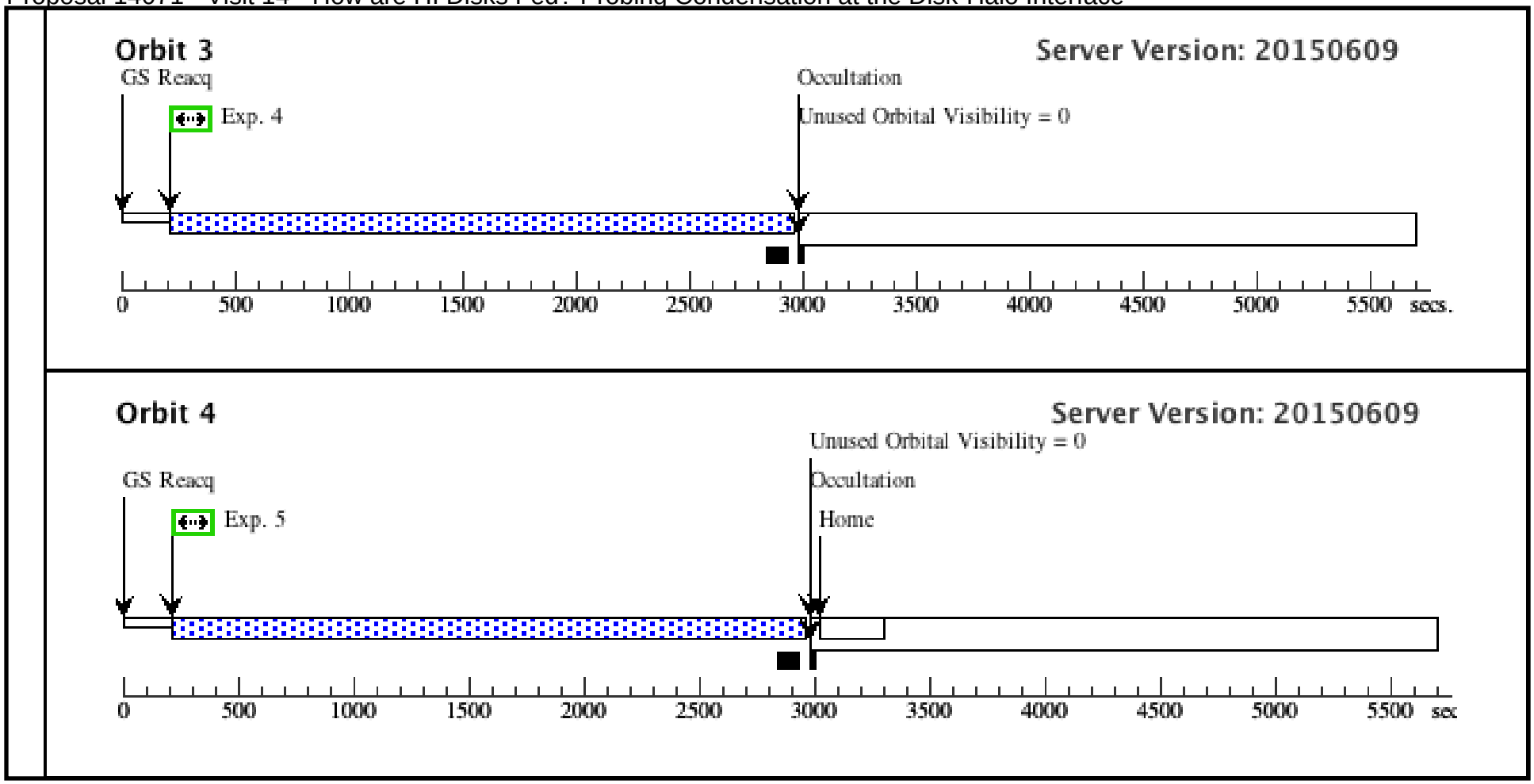
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732553)	(14) J123113.12+120307.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(14) J123113.12+120307.2	COS/FUV, TIME-TAG, PSA	G130M 1318 A	FP-POS=1; BUFFER-TIME=2202; FLASH=YES			2312 Secs (2312 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(14) J123113.12+120307.2	COS/FUV, TIME-TAG, PSA	G130M 1318 A	FP-POS=2; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[2]***
4	(COS.sp.732994)	(14) J123113.12+120307.2	COS/FUV, TIME-TAG, PSA	G130M 1318 A	FP-POS=3; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[3]***
5	(COS.sp.732994)	(14) J123113.12+120307.2	COS/FUV, TIME-TAG, PSA	G130M 1318 A	FP-POS=4; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[4]***

Orbit Structure






Orbit 3
Server Version: 20150609
GS Reacq
Exp. 4
Occultation
Unused Orbital Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 4
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Exp. 5
Occultation
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 14071 - Visit 15 - How are HI Disks Fed? Probing Condensation at the Disk-Halo Interface

Visit

Proposal 14071, Visit 15, completed Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 15) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

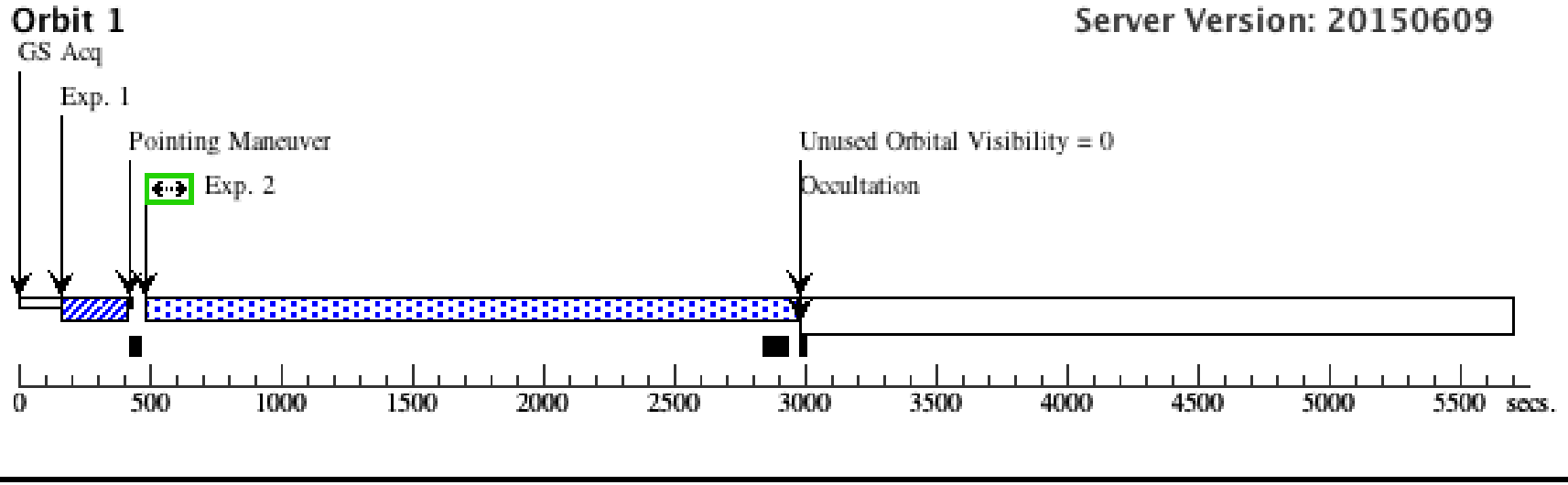
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	J115722.44+114040.7	RA: 11 57 22.4400 (179.3435000d) Dec: +11 40 40.70 (11.67797d) Equinox: J2000		V=18.0+/-0.2 GALEX FUV=18.7, GALEX NUV = 18.6	Reference Frame: ICRS

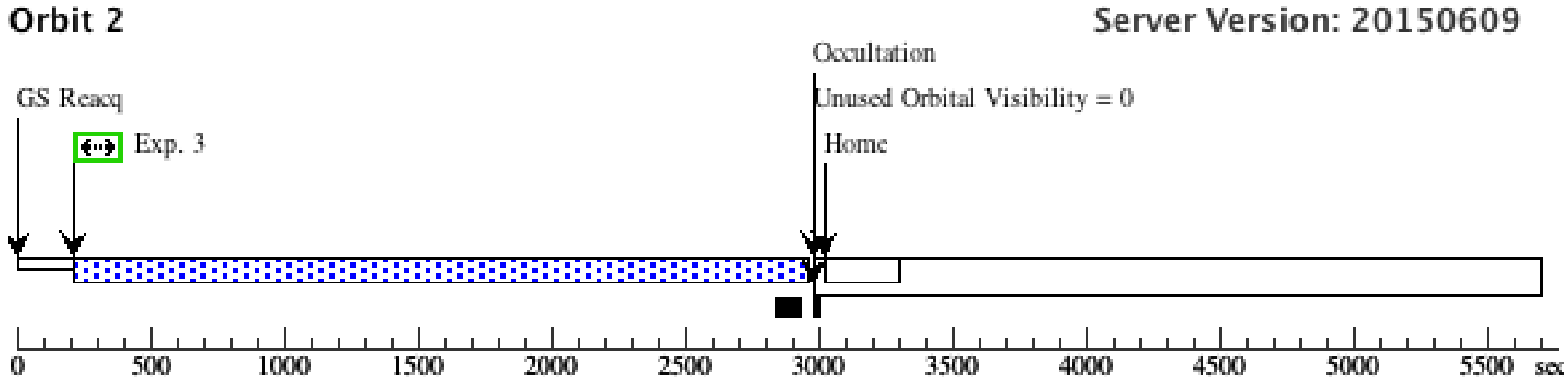
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732553)	(15) J115722.44+114040.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(15) J115722.44+114040.7	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=1; BUFFER-TIME=2205; FLASH=YES			2315 Secs (2315 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(15) J115722.44+114040.7	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=2; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14071, Visit 16, scheduling Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 16) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

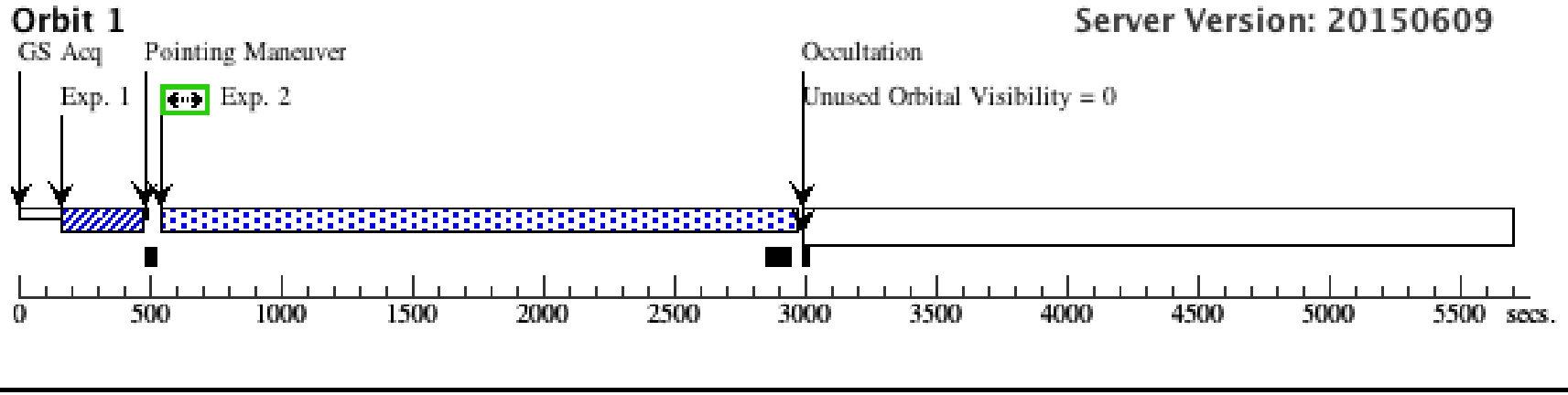
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	J023529.10-092512.6	RA: 02 35 29.1021 (38.8712588d) Dec: -09 25 12.68 (-9.42019d) Equinox: J2000		V=19.6+/-0.2 GALEX FUV = 18.7, GALEX NUV = 20.1	Reference Frame: ICRS

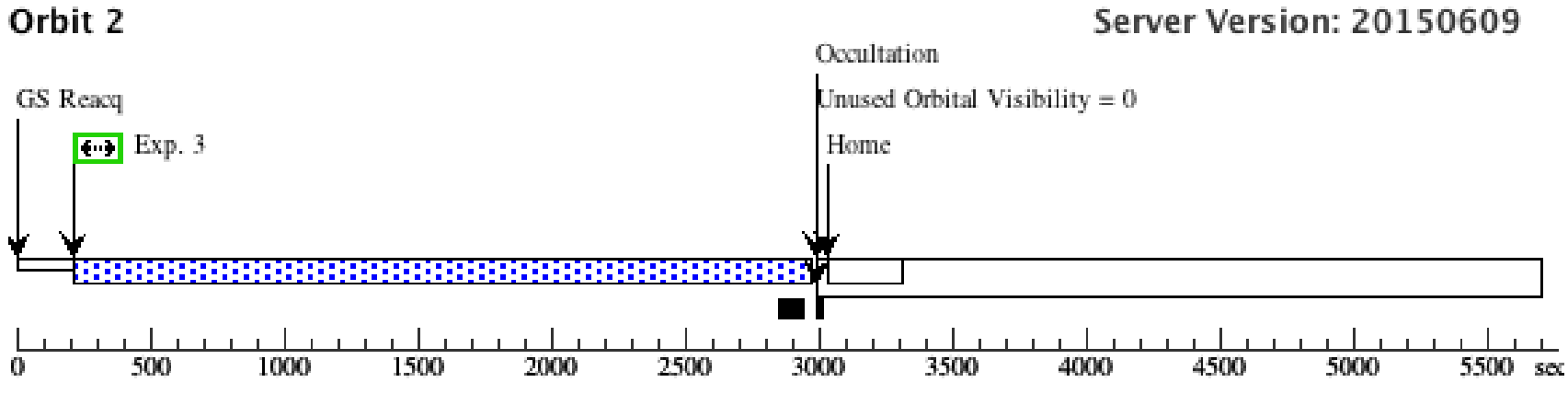
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732558)	(16) J023529.10-092512.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				42 Secs (42 Secs) *[==>]*	 ***[1]***
2	(COS.sp.732994)	(16) J023529.10-092512.6	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=2156; FLASH=YES			2266 Secs (2266 Secs) *[==>]*	 ***[1]***
3	(COS.sp.732994)	(16) J023529.10-092512.6	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	 ***[2]***

Orbit Structure





Visit

Proposal 14071, Visit 17, completed Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

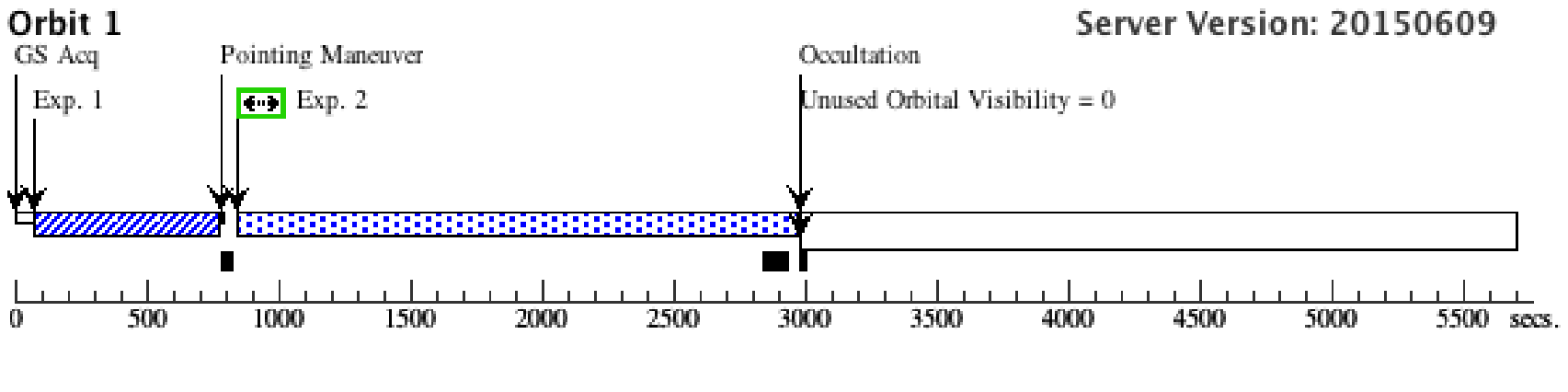
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(17)	J104709.83+130454.6	RA: 10 47 9.8353 (161.7909804d) Dec: +13 04 54.67 (13.08185d) Equinox: J2000		V=18.7+/-0.2 GALEX FUV =19.0, GALEX NUV = 18.5	Reference Frame: ICRS

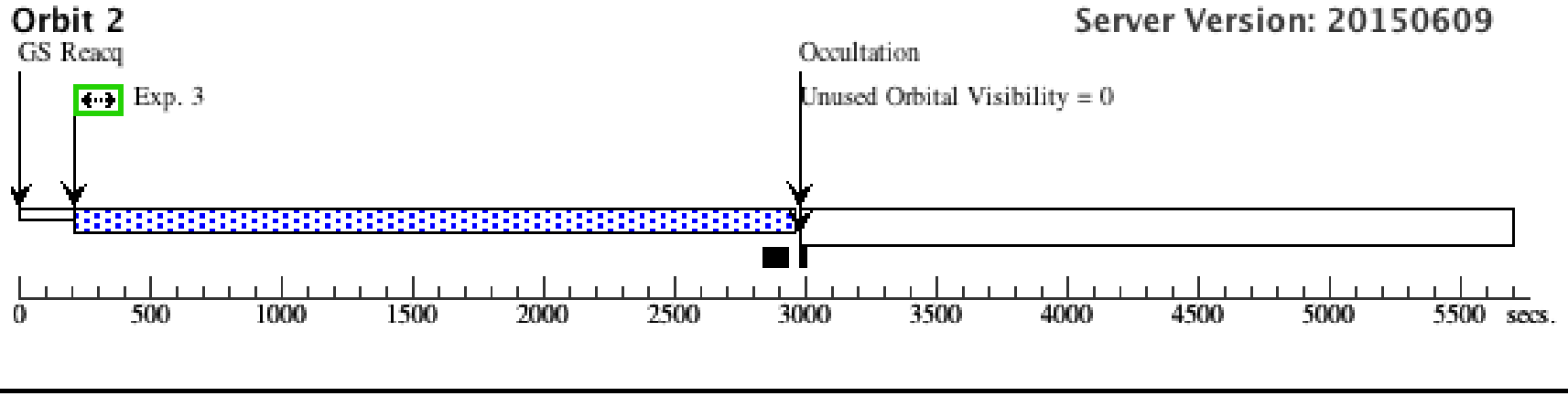
Comments: Extended=NO

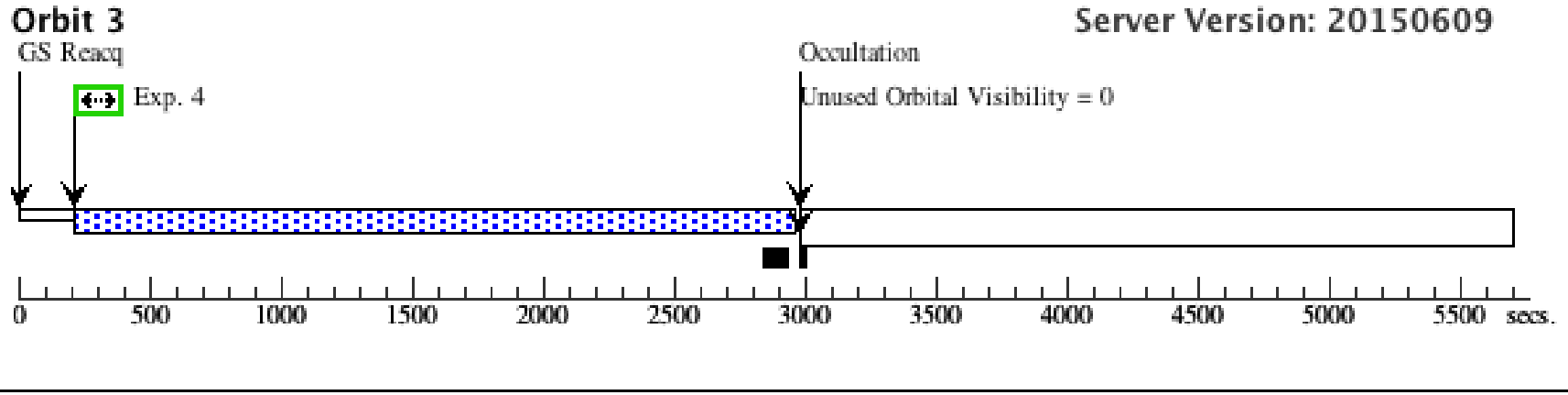
Exposures

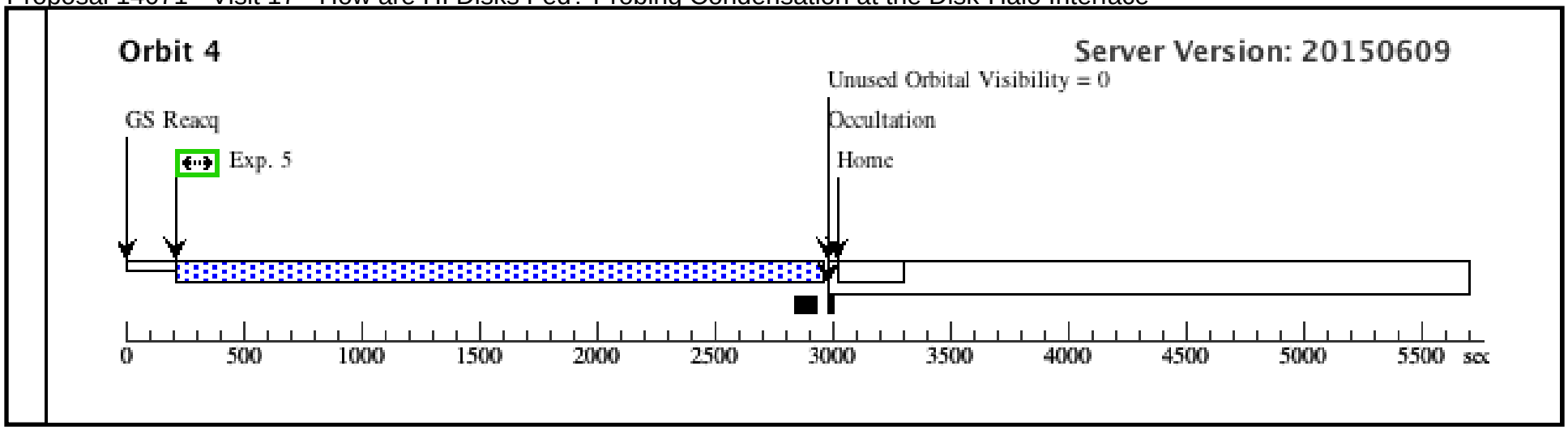
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732541)	(17) J104709.83+130454.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				191 Secs (191 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(17) J104709.83+130454.6	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1854; FLASH=YES			1964 Secs (1964 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(17) J104709.83+130454.6	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[2]***
4	(COS.sp.732994)	(17) J104709.83+130454.6	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[3]***
5	(COS.sp.732994)	(17) J104709.83+130454.6	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[4]***

Orbit Structure








Orbit 4
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 5
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 18, scheduling Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

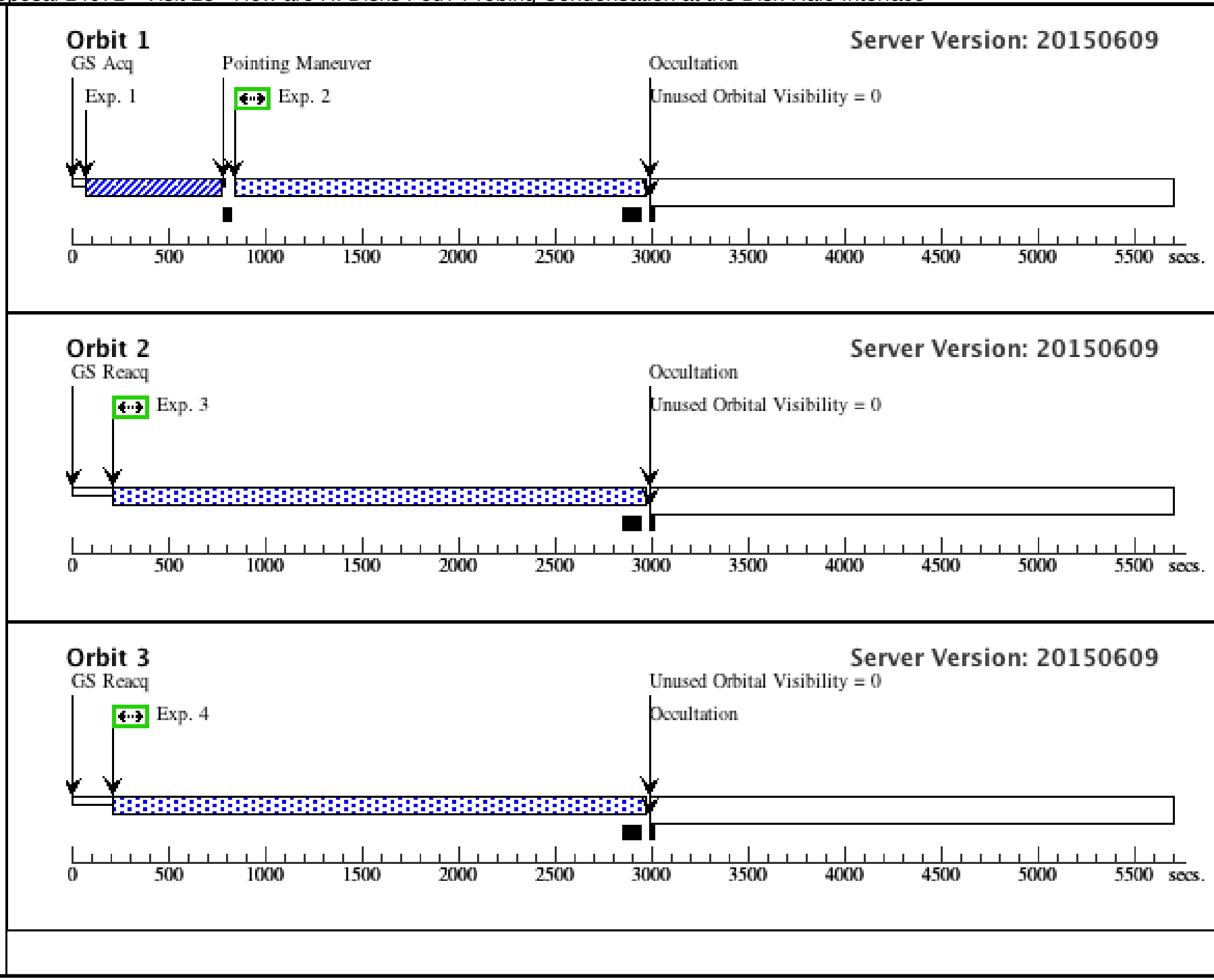
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(18)	J152447.75+041919.8	RA: 15 24 47.7588 (231.1989950d) Dec: +04 19 19.86 (4.32218d) Equinox: J2000		V=18.5+/-0.2 GALEX FUV = 19.0, GALEX NUV = 18.6	Reference Frame: ICRS

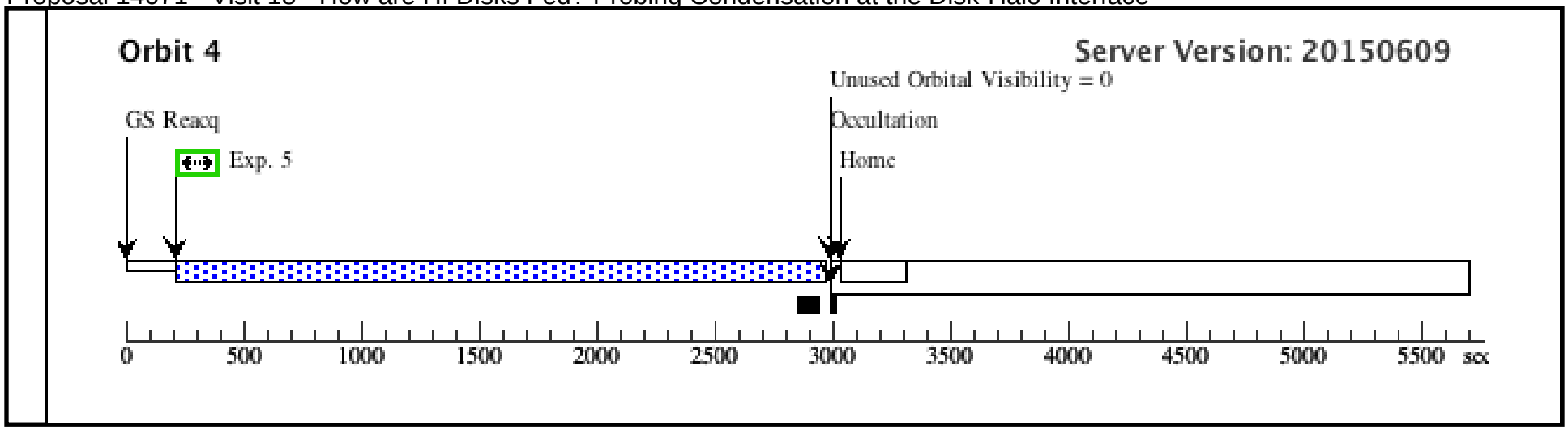
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732541)	(18) J152447.75+041919.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				191 Secs (191 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(18) J152447.75+041919.8	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=1; BUFFER-TIME=1844; FLASH=YES			1954 Secs (1954 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(18) J152447.75+041919.8	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=2; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[2]***
4	(COS.sp.732994)	(18) J152447.75+041919.8	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=3; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[3]***
5	(COS.sp.732994)	(18) J152447.75+041919.8	COS/FUV, TIME-TAG, PSA	G130M 1327 A	FP-POS=4; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[4]***

Orbit Structure




Orbit 4
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 5
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 19, scheduling Thu Dec 31 02:02:04 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 19) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

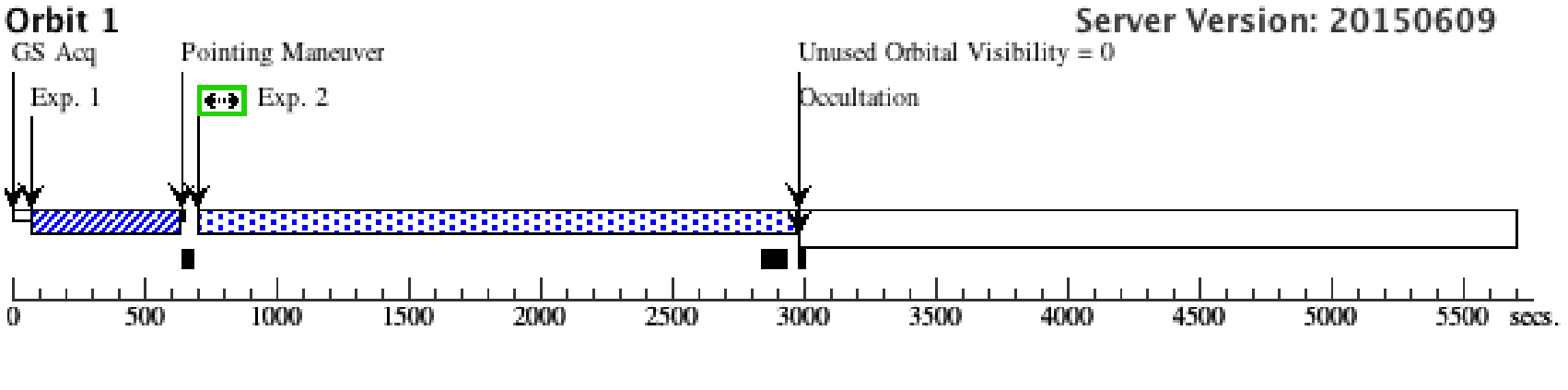
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(19)	J155821.86+120533.2	RA: 15 58 21.8634 (239.5910975d) Dec: +12 05 33.23 (12.09256d) Equinox: J2000		V=17.6+/-0.2 GALEX FUV =18.8, GALEX NUV = 18.0	Reference Frame: ICRS

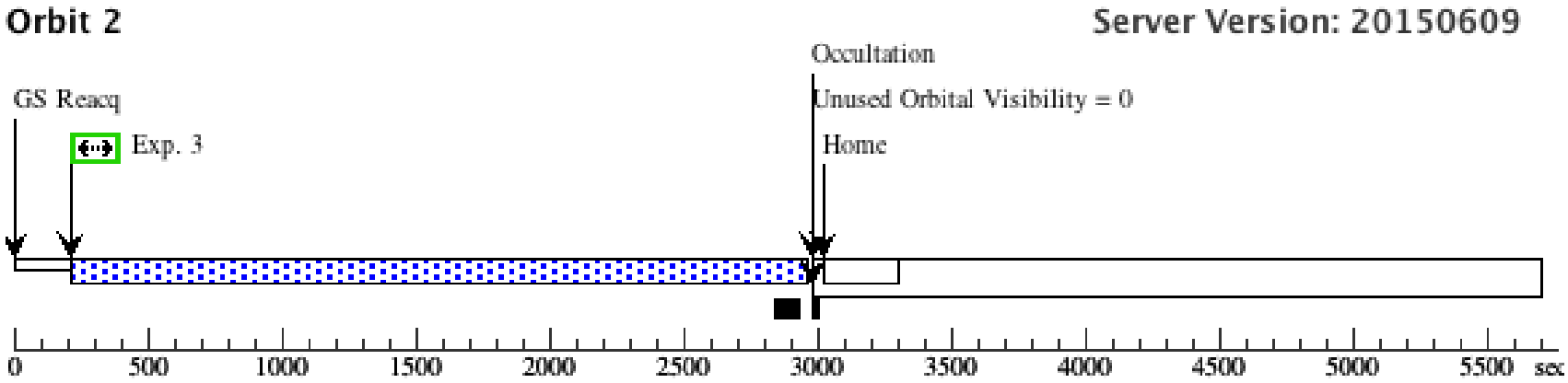
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732531)	(19) J155821.86+120533.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				120 Secs (120 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(19) J155821.86+120533.2	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=1; BUFFER-TIME=1992; FLASH=YES			2102 Secs (2102 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(19) J155821.86+120533.2	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=2; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14071, Visit 20, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

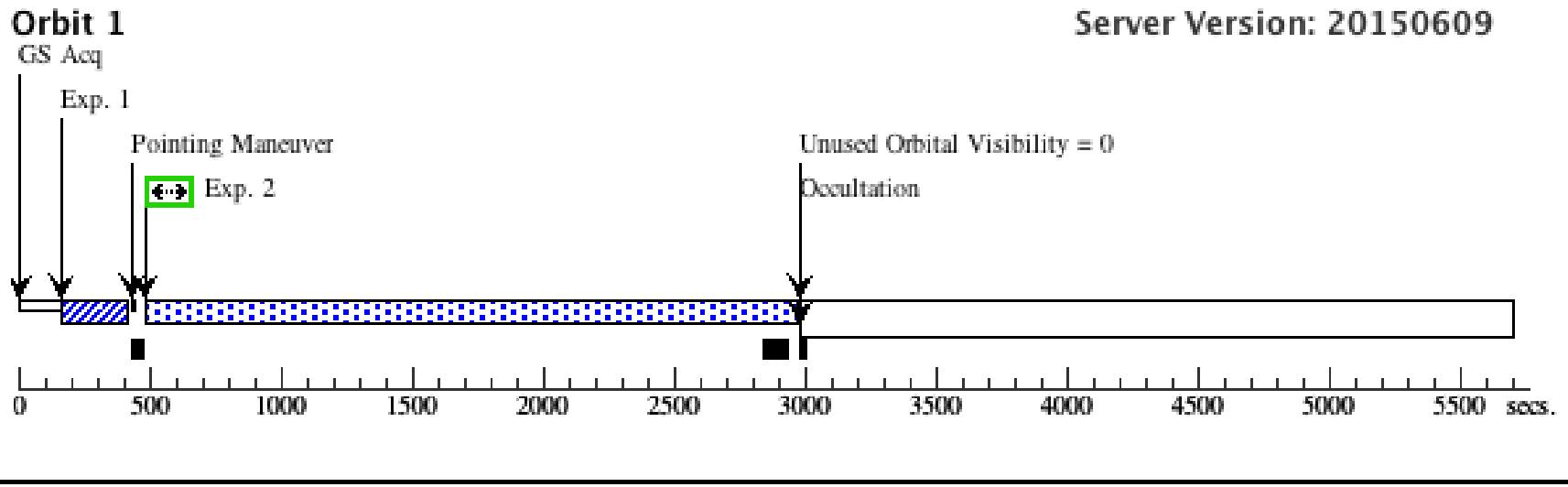
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(20)	J112439.42+113117.2	RA: 11 24 39.4285 (171.1642854d) Dec: +11 31 17.21 (11.52145d) Equinox: J2000		V=17.5+/-0.2 GALEX FUV =18.9, GALEX NUV = 18.8	Reference Frame: ICRS

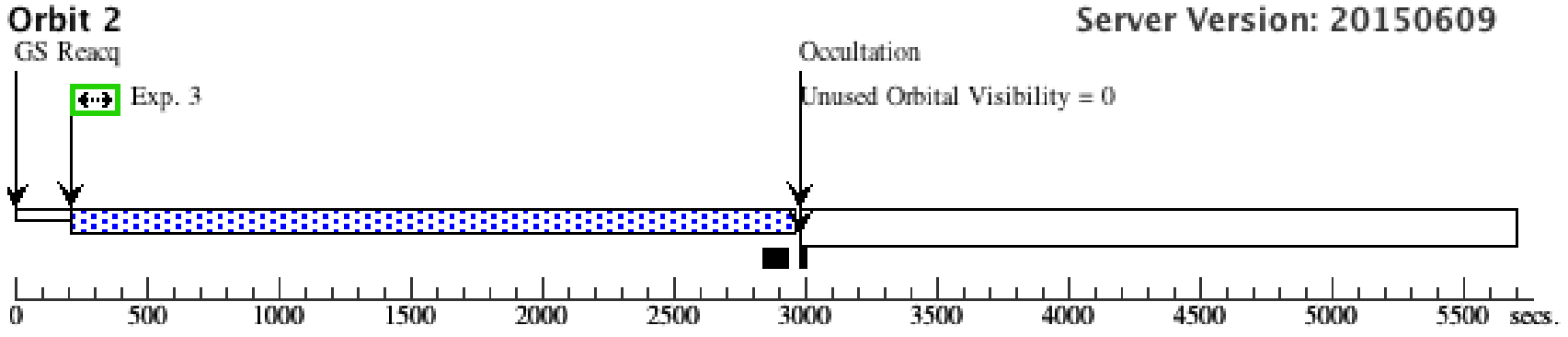
Comments: Extended=NO

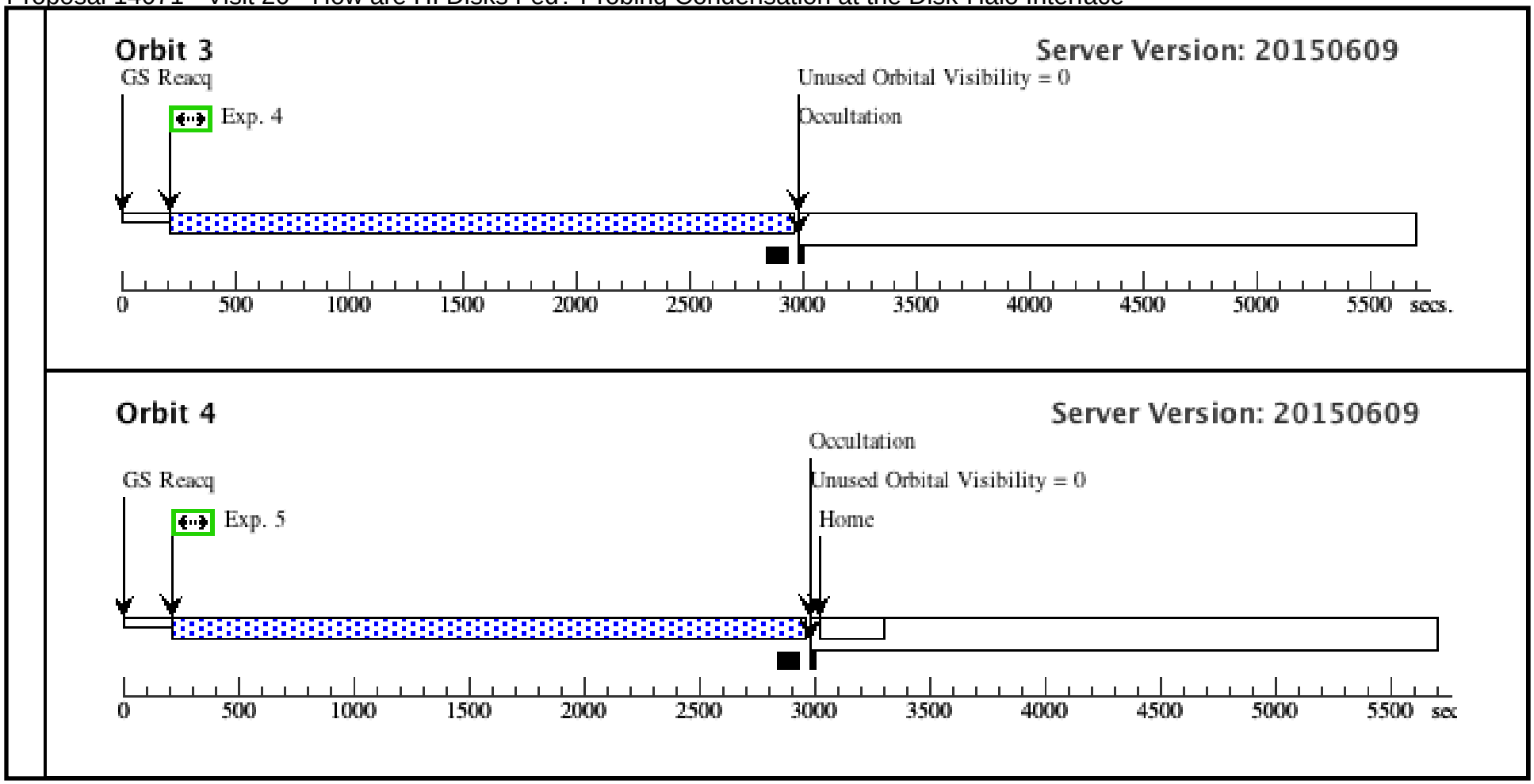
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732550)	(20) J112439.42+113117.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				13 Secs (13 Secs) *[==>]*	*[1]*
2	(COS.sp.732994)	(20) J112439.42+113117.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=2210; FLASH=YES			2320 Secs (2320 Secs) *[==>]*	*[1]*
3	(COS.sp.732994)	(20) J112439.42+113117.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	*[2]*
4	(COS.sp.732994)	(20) J112439.42+113117.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	*[3]*
5	(COS.sp.732994)	(20) J112439.42+113117.2	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	*[4]*

Orbit Structure






Orbit 3
Server Version: 20150609
GS Reacq
Exp. 4
Unused Orbital Visibility = 0
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 4
Server Version: 20150609
Occultation
GS Reacq
Unused Orbital Visibility = 0
Exp. 5
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 21, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

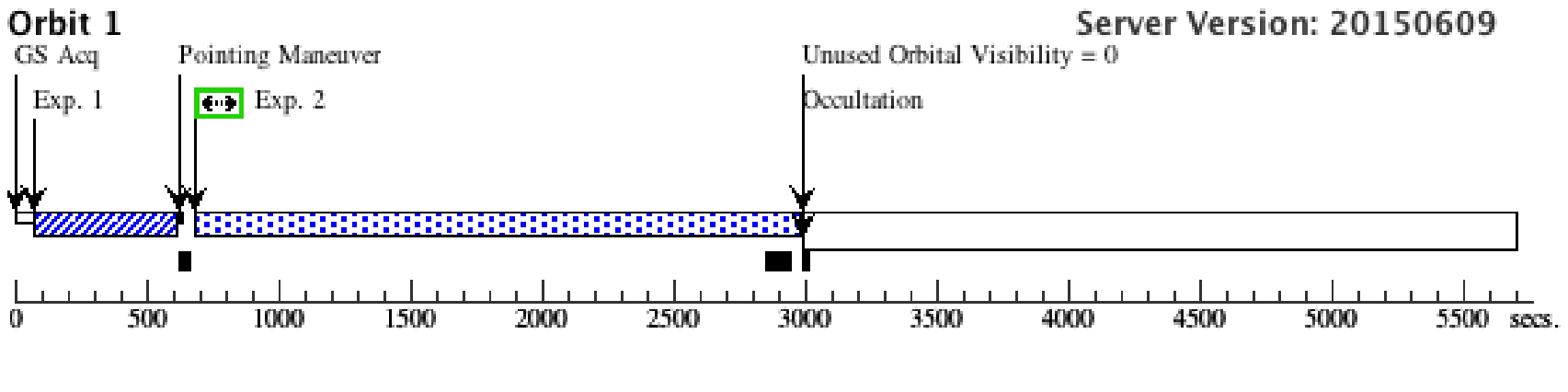
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(21)	J002330.58+154744.9	RA: 00 23 30.5806 (5.8774192d) Dec: +15 47 44.96 (15.79582d) Equinox: J2000		V=17.1+/-0.2 GALEX FUV = 18.0, GALEX NUV = 17.9	Reference Frame: ICRS

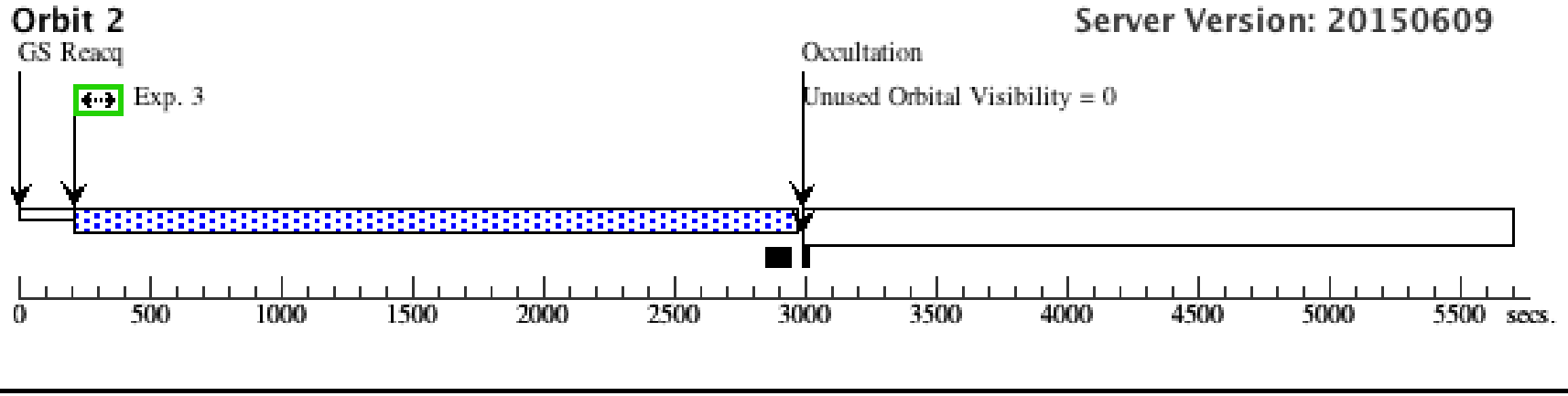
Comments: Extended=NO

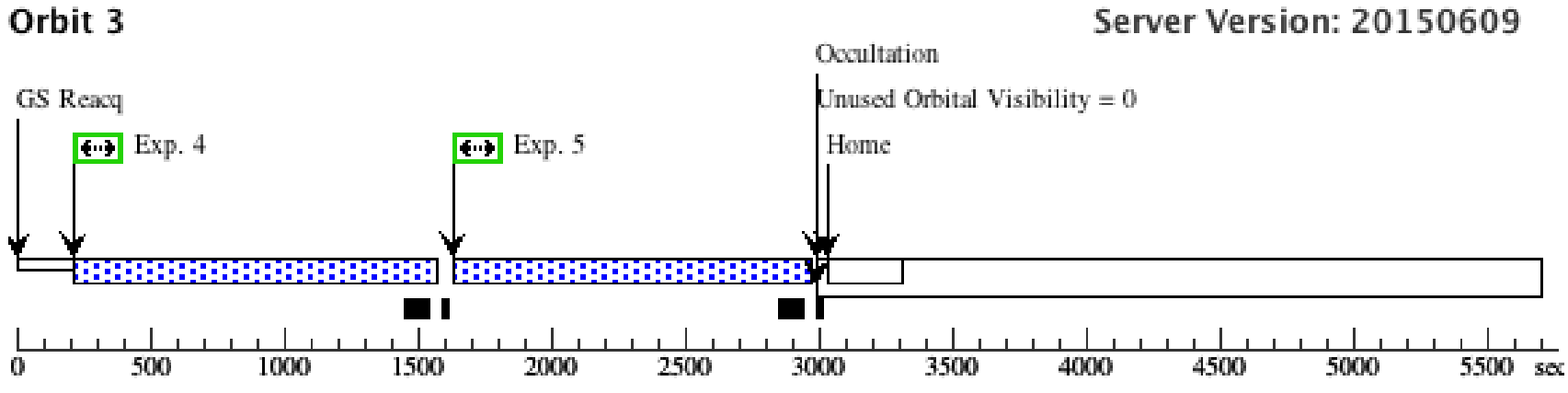
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732530)	(21) J002330.58+154744.9	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				110 Secs (110 Secs) *[==>]*	***[1]***
2	(COS.sp.732998)	(21) J002330.58+154744.9	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=1; BUFFER-TIME=2013; FLASH=YES			2123 Secs (2123 Secs) *[==>]*	***[1]***
3	(COS.sp.732998)	(21) J002330.58+154744.9	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=2; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[2]***
4	(COS.sp.732998)	(21) J002330.58+154744.9	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=3; BUFFER-TIME=1200; FLASH=YES			1310 Secs (1310 Secs) *[==>]*	***[3]***
5	(COS.sp.732998)	(21) J002330.58+154744.9	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=4; BUFFER-TIME=1181; FLASH=YES			1291 Secs (1291 Secs) *[==>]*	***[3]***

Orbit Structure







Proposal 14071 - Visit 22 - How are HI Disks Fed? Probing Condensation at the Disk-Halo Interface

Visit

Proposal 14071, Visit 22, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 22) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

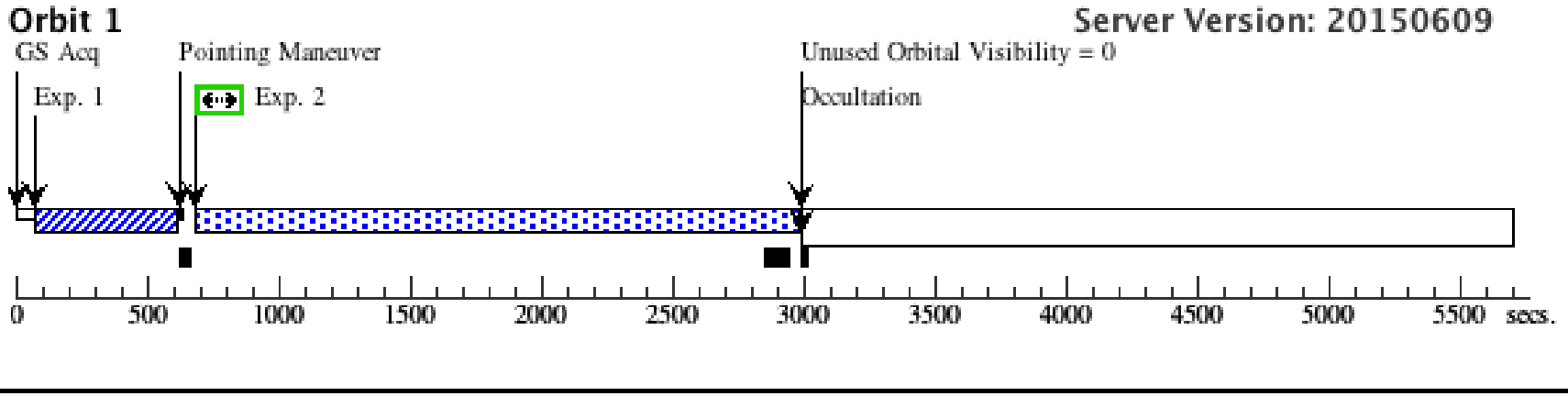
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(22)	J102416.73+242211.6	RA: 10 24 16.7352 (156.0697300d) Dec: +24 22 11.67 (24.36991d) Equinox: J2000		V=17.6+/-0.2 GALEX FUV = 18.8, GALEX NUV = 17.9	Reference Frame: ICRS

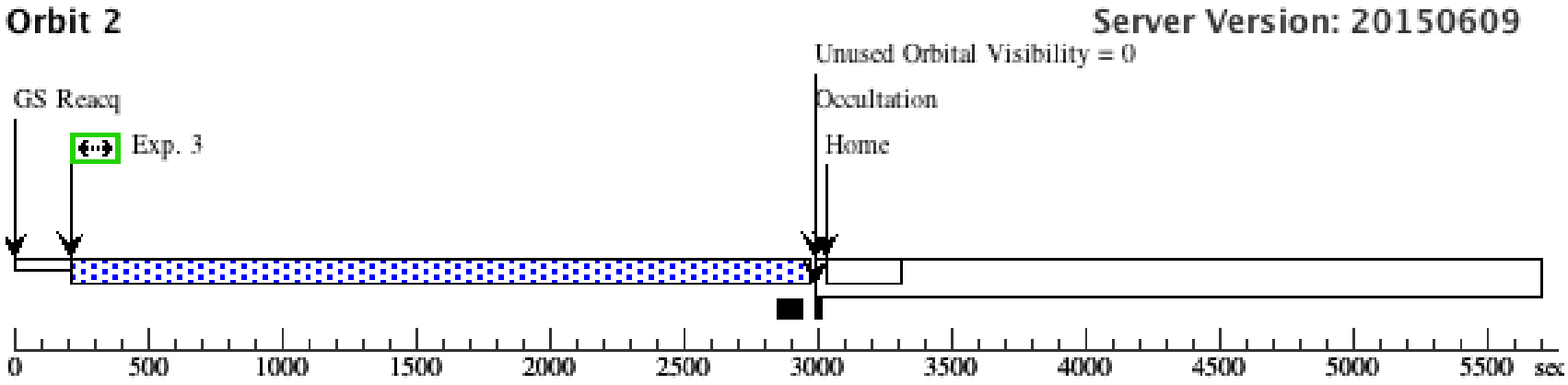
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732530)	(22) J102416.73+242211.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				110 Secs (110 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(22) J102416.73+242211.6	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=1; BUFFER-TIME=2014; FLASH=YES			2124 Secs (2124 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(22) J102416.73+242211.6	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=2; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14071, Visit 23, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 23) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

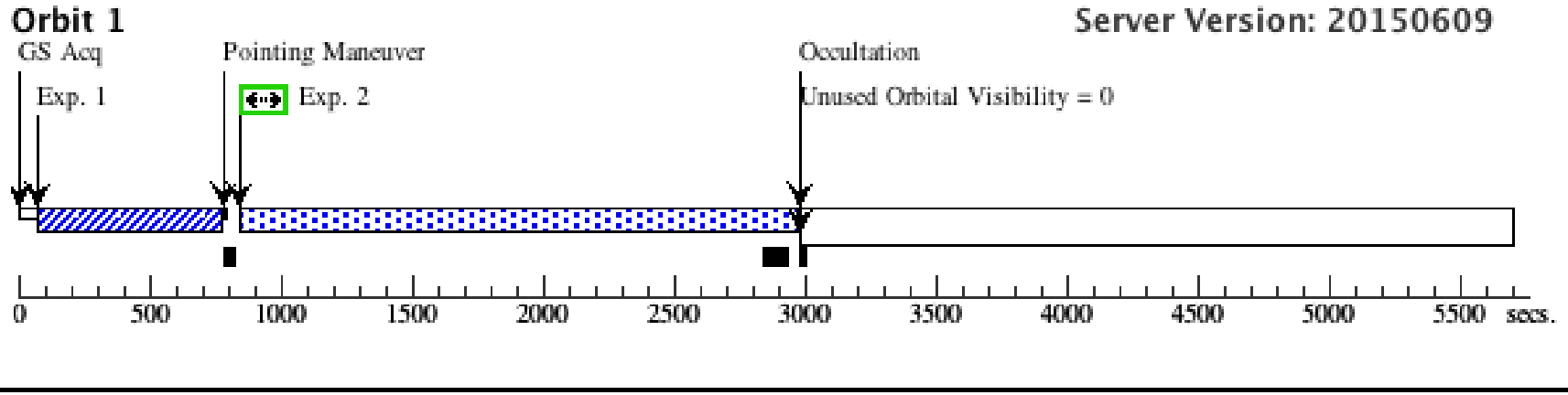
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(23)	J105220.63+101751.7	RA: 10 52 20.6325 (163.0859688d) Dec: +10 17 51.71 (10.29770d) Equinox: J2000		V=18.1+/-0.2 GALEX FUV =18.6, GALEX NUV = 18.4	Reference Frame: ICRS

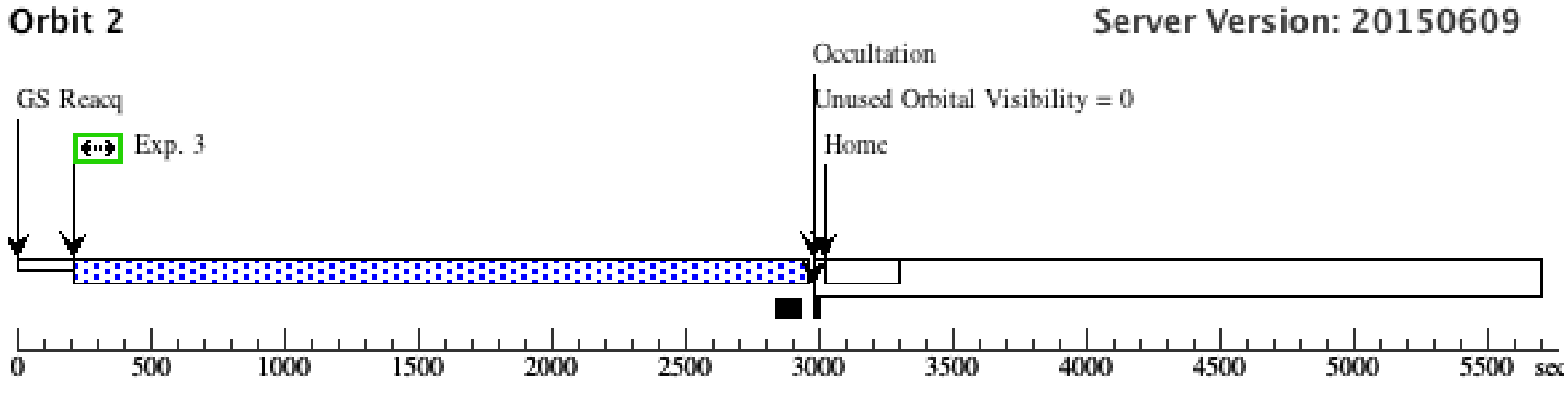
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732541)	(23) J105220.63+101751.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				191 Secs (191 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(23) J105220.63+101751.7	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=1; BUFFER-TIME=1850; FLASH=YES			1960 Secs (1960 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(23) J105220.63+101751.7	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=2; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14071, Visit 24, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

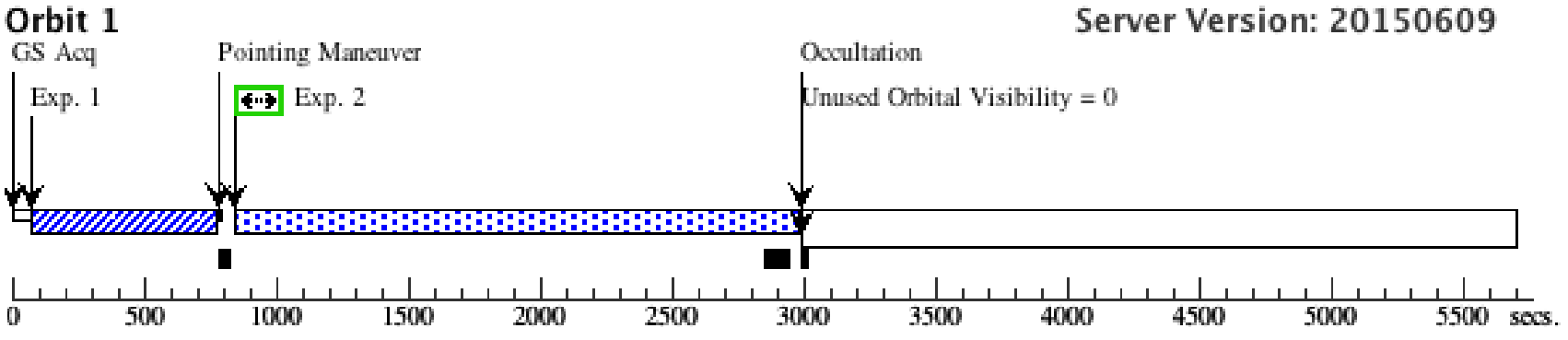
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(24)	J120917.35+261613.1	RA: 12 09 17.3545 (182.3223104d) Dec: +26 16 13.12 (26.27031d) Equinox: J2000		V=18.0+/-0.2 GALEX FUV = 19.0, GALEX NUV = 18.4	Reference Frame: ICRS

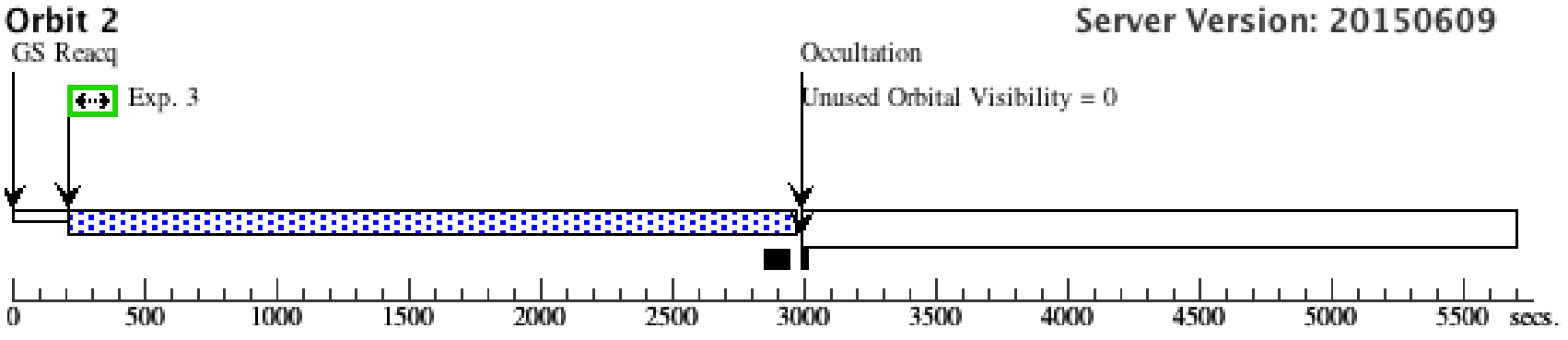
Comments: Extended=NO

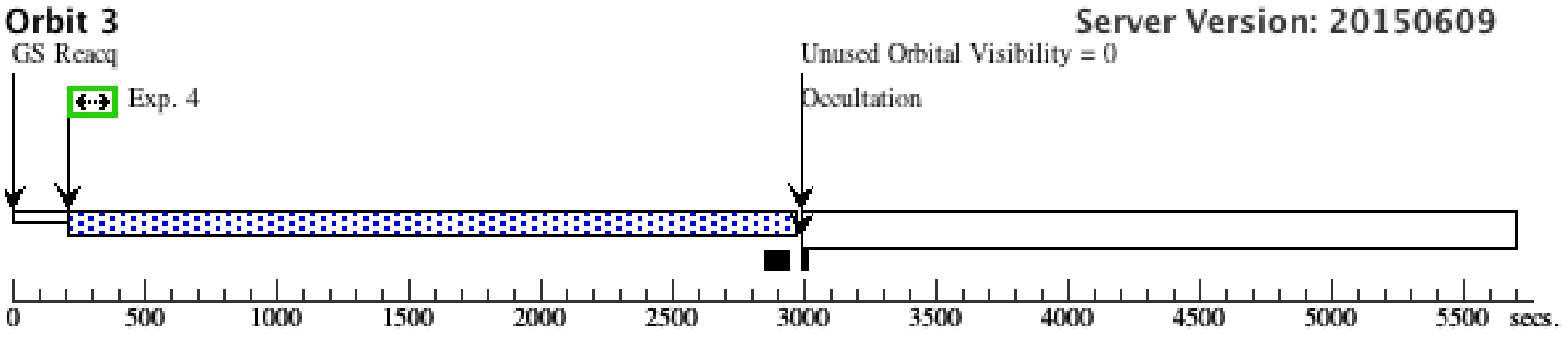
Exposures

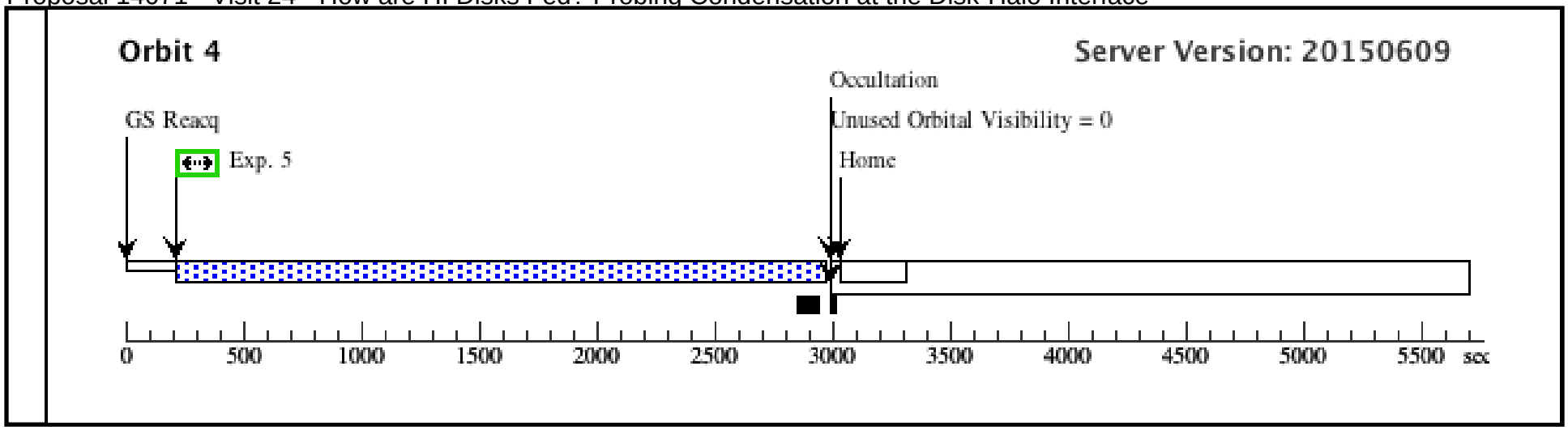
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732541)	(24) J120917.35+261613.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				191 Secs (191 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(24) J120917.35+261613.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1859; FLASH=YES			1969 Secs (1969 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(24) J120917.35+261613.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[2]***
4	(COS.sp.732994)	(24) J120917.35+261613.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[3]***
5	(COS.sp.732994)	(24) J120917.35+261613.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[4]***

Orbit Structure








Orbit 4
Server Version: 20150609
Occultation
GS Reacq
Unused Orbital Visibility = 0
Exp. 5
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 25, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

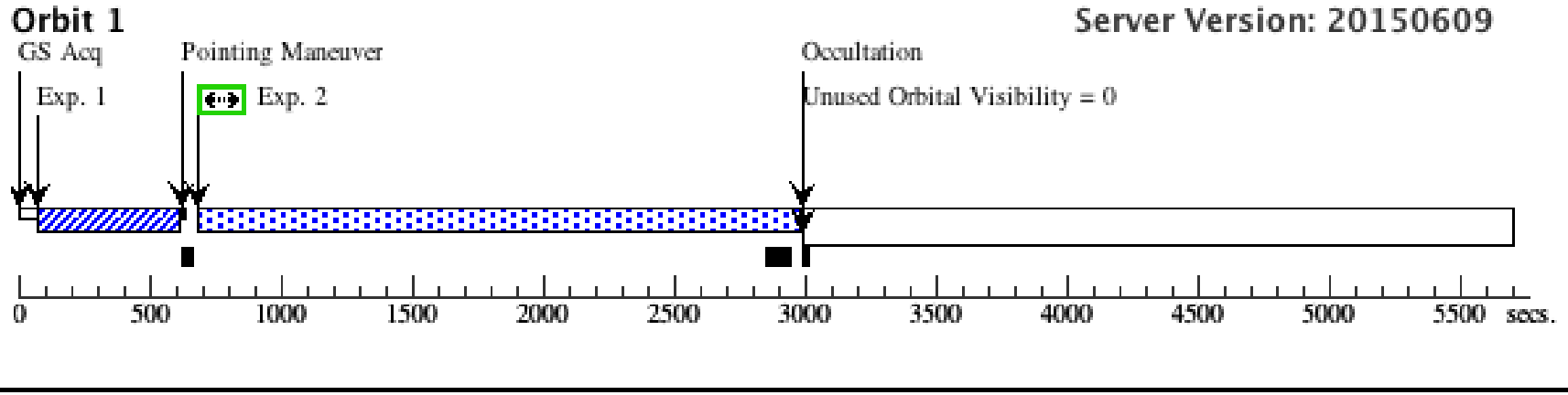
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(25)	J131447.07+260624.1	RA: 13 14 47.0709 (198.6961287d) Dec: +26 06 24.19 (26.10672d) Equinox: J2000		V=15.6+/-0.2 GALEX FUV =18.0, GALEX NUV = 17.7	Reference Frame: ICRS

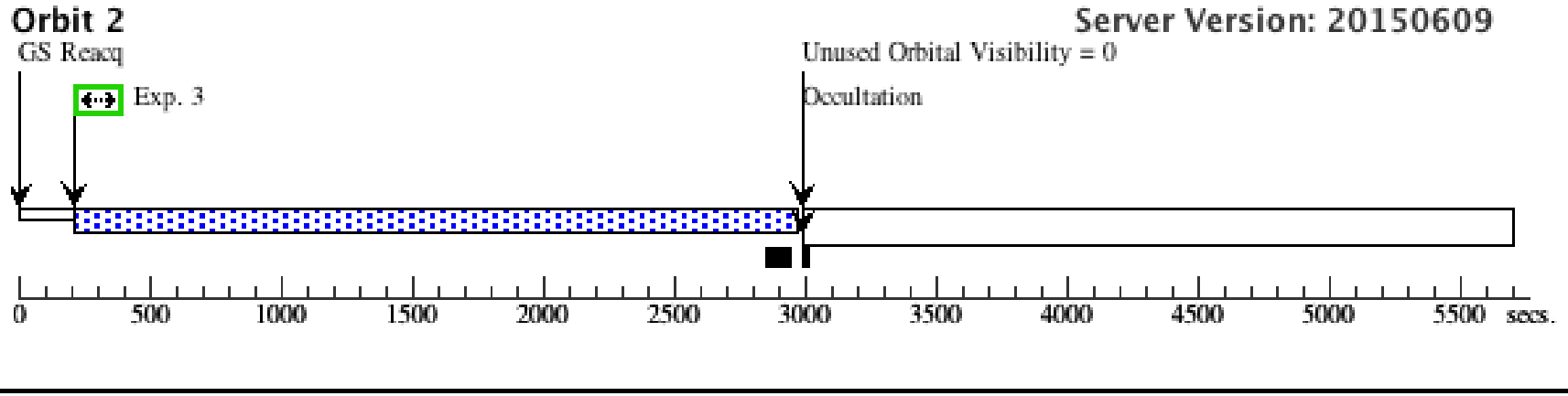
Comments: Extended=NO

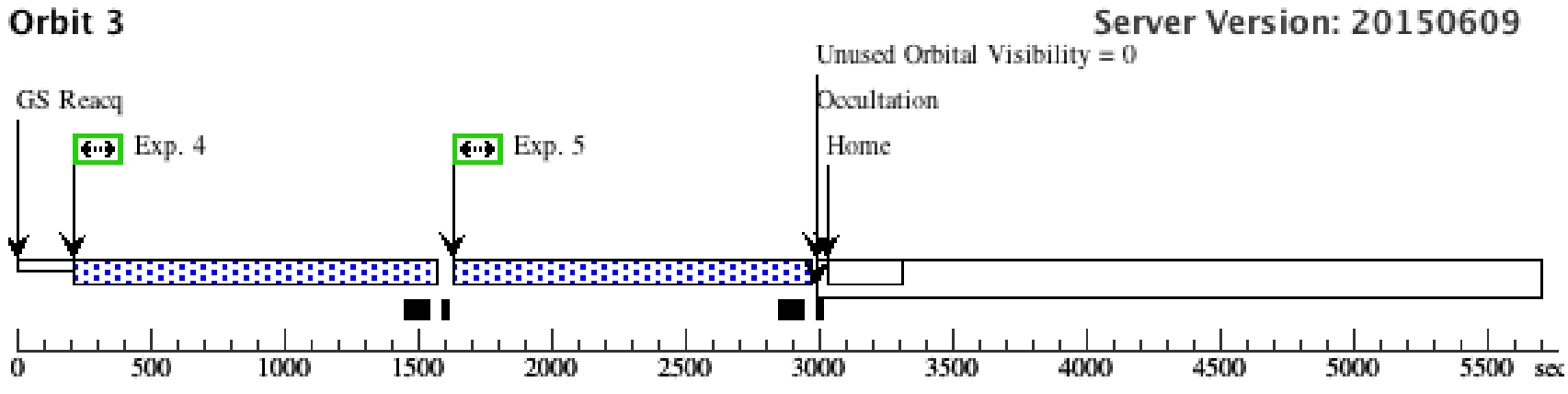
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732530)	(25) J131447.07+260624.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				110 Secs (110 Secs) *[==>]*	***[1]***
2	(COS.sp.732998)	(25) J131447.07+260624.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=2021; FLASH=YES			2131 Secs (2131 Secs) *[==>]*	***[1]***
3	(COS.sp.732998)	(25) J131447.07+260624.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[2]***
4	(COS.sp.732998)	(25) J131447.07+260624.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=1200; FLASH=YES			1310 Secs (1310 Secs) *[==>]*	***[3]***
5	(COS.sp.732998)	(25) J131447.07+260624.1	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=1182; FLASH=YES			1292 Secs (1292 Secs) *[==>]*	***[3]***

Orbit Structure







Visit

Proposal 14071, Visit 26, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: No Diagnostics

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Fixed Targets

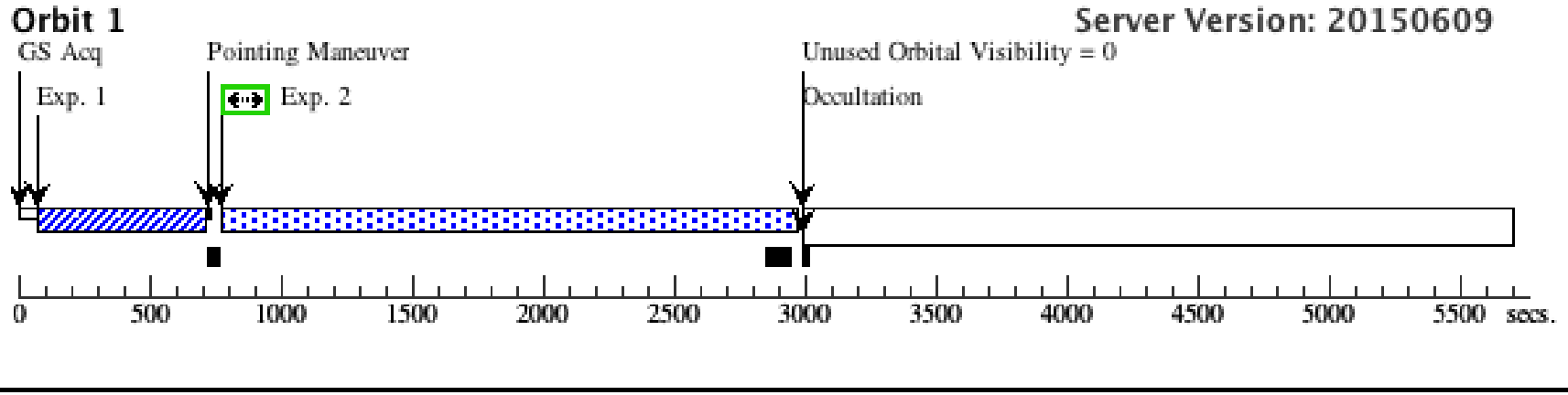
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(26)	J141505.91+044546.1	RA: 14 15 5.9105 (213.7746271d) Dec: +04 45 46.15 (4.76282d) Equinox: J2000		V=18.4+/-0.2 GALEX FUV = 18.2, GALEX NUV = 18.2	Reference Frame: ICRS

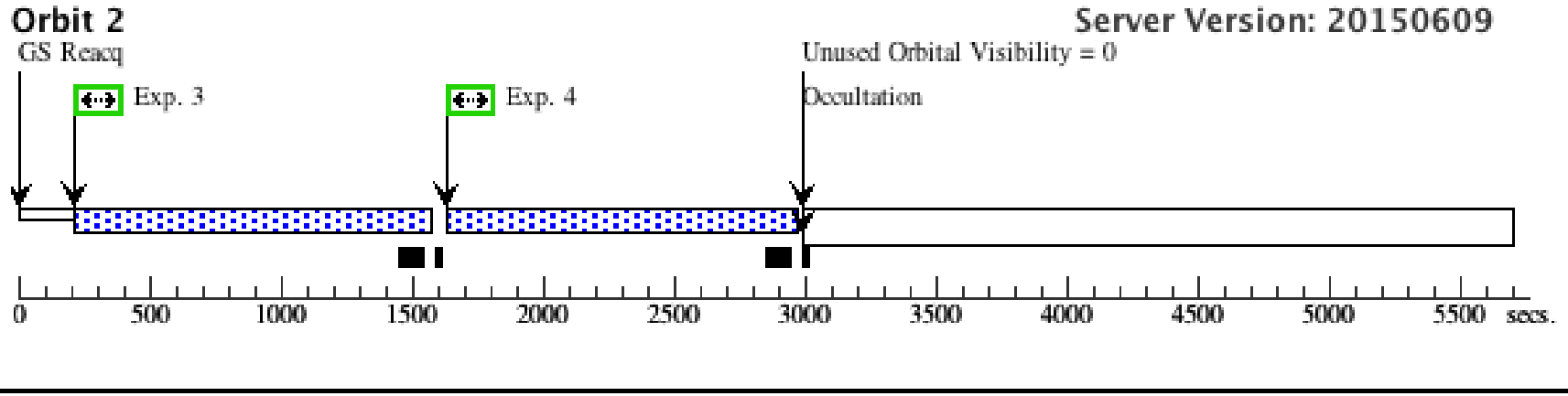
Comments: Extended=NO

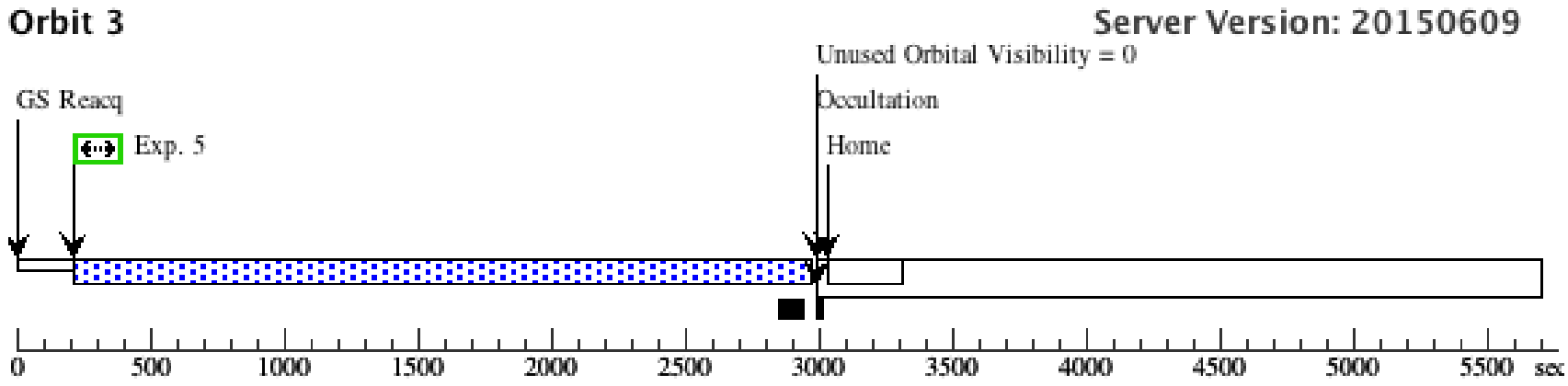
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732540)	(26) J141505.91+044546.1	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				159 Secs (159 Secs) *[==>]*	***[1]***
2	(COS.sp.732998)	(26) J141505.91+044546.1	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=1; BUFFER-TIME=1915; FLASH=YES			2025 Secs (2025 Secs) *[==>]*	***[1]***
3	(COS.sp.732998)	(26) J141505.91+044546.1	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=2; BUFFER-TIME=1200; FLASH=YES			1310 Secs (1310 Secs) *[==>]*	***[2]***
4	(COS.sp.732998)	(26) J141505.91+044546.1	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=3; BUFFER-TIME=1181; FLASH=YES			1291 Secs (1291 Secs) *[==>]*	***[2]***
5	(COS.sp.732998)	(26) J141505.91+044546.1	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=4; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[3]***

Orbit Structure







Proposal 14071 - Visit 27 - How are HI Disks Fed? Probing Condensation at the Disk-Halo Interface

Visit

Proposal 14071, Visit 27, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 27) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

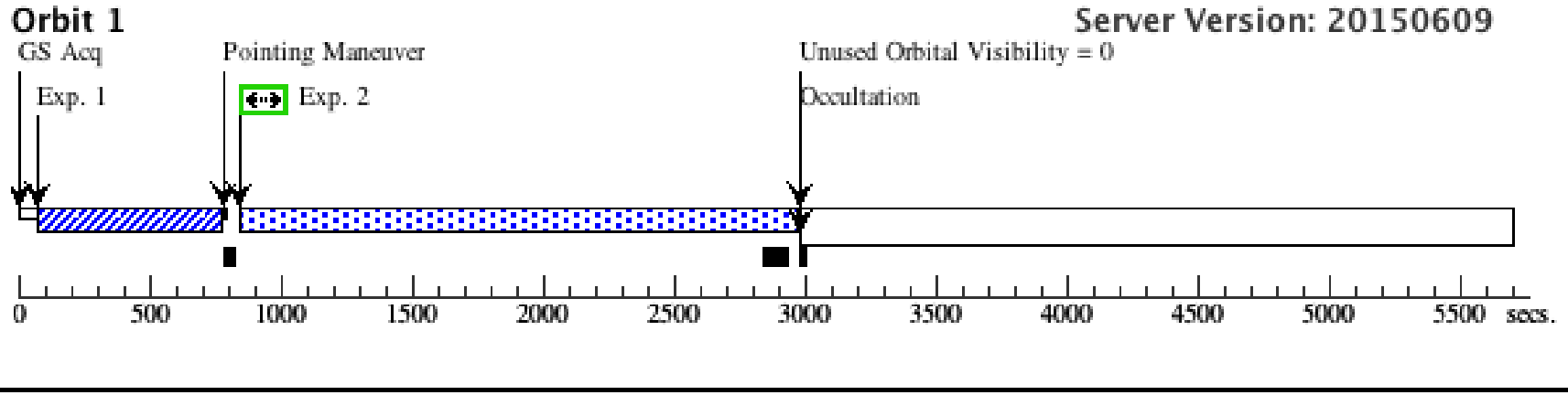
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(27)	J155855.34+125555.3	RA: 15 58 55.3486 (239.7306192d) Dec: +12 55 55.31 (12.93203d) Equinox: J2000		V=17.9+/-0.2 GALEX FUV =18.7, GALEX NUV = 18.5	Reference Frame: ICRS

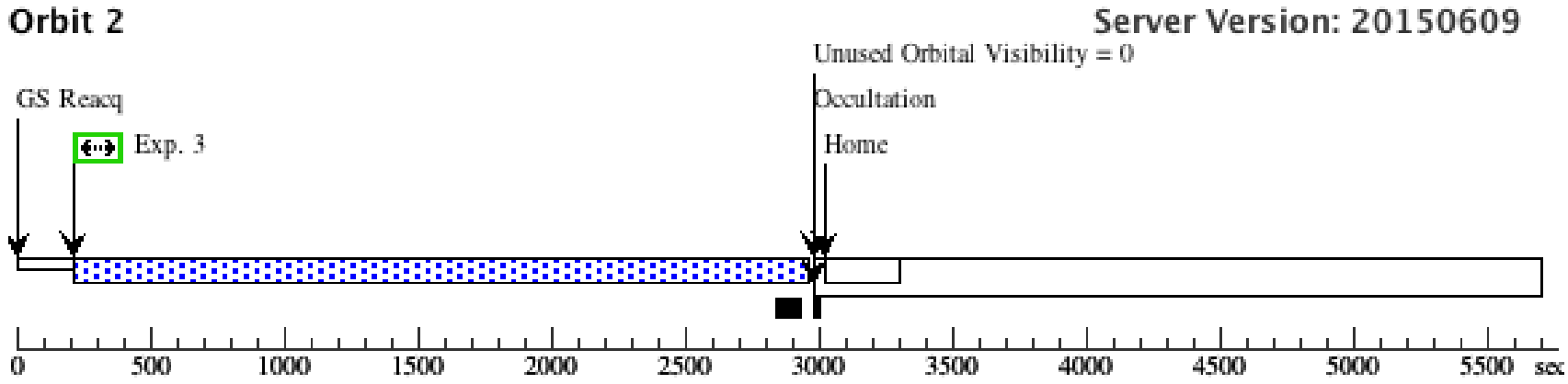
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732541)	(27) J155855.34+125555.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				191 Secs (191 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(27) J155855.34+125555.3	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=1; BUFFER-TIME=1854; FLASH=YES			1964 Secs (1964 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(27) J155855.34+125555.3	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=2; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[2]***

Orbit Structure





Proposal 14071 - Visit 51 - How are HI Disks Fed? Probing Condensation at the Disk-Halo Interface

Visit

Proposal 14071, Visit 51, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 51) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

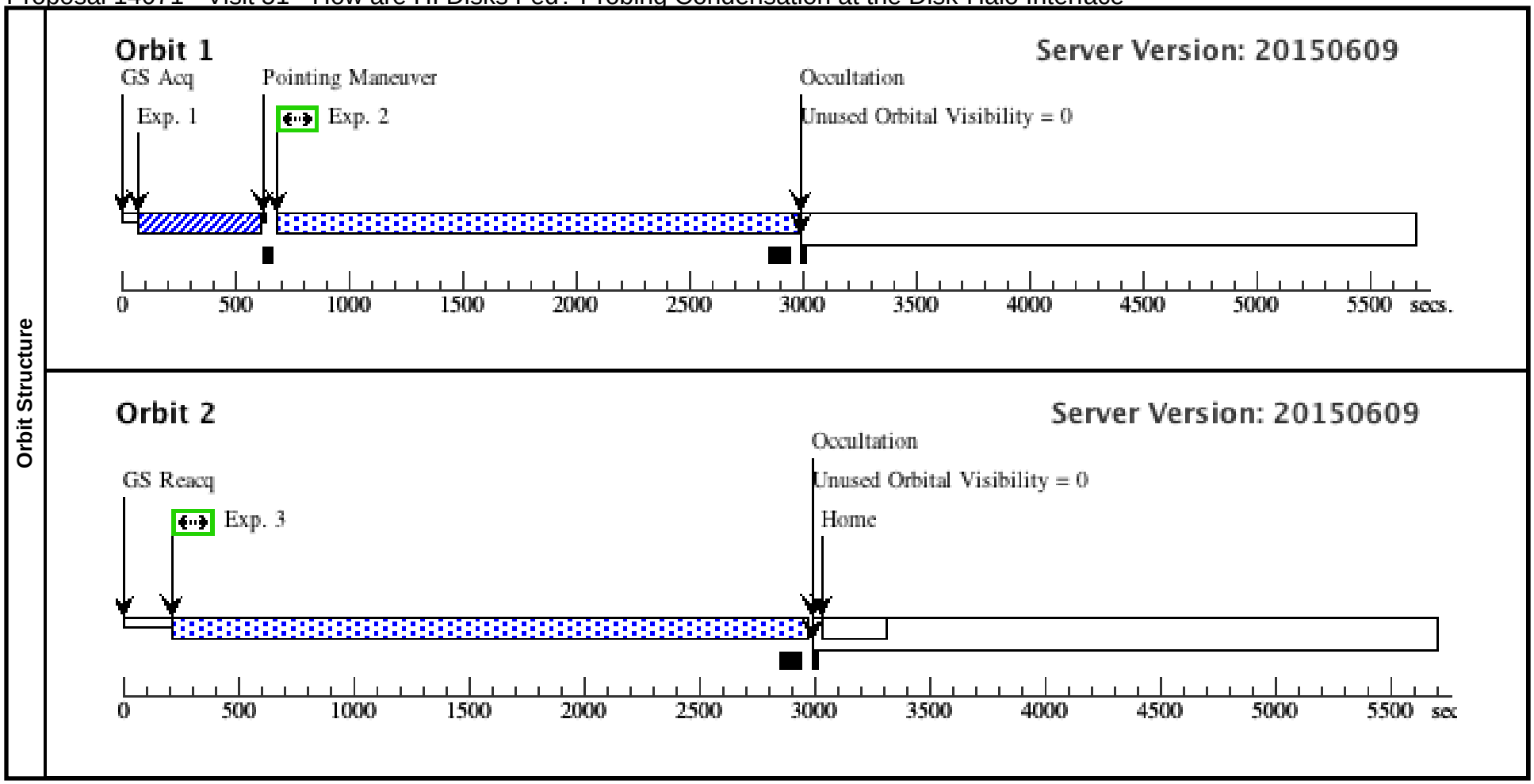
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	J083220.08+243100.5	RA: 08 32 20.0804 (128.0836683d) Dec: +24 31 0.55 (24.51682d) Equinox: J2000		V=17.0+/-0.2 GALEX FUV = 18.8, GALEX NUV = 17.8	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732530)	(1) J083220.08+243 100.5	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				110 Secs (110 Secs) *[==>]*	***[1]***
2	(COS.sp.732 994)	(1) J083220.08+243 100.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=20 21; FLASH=YES			2131 Secs (2131 Secs) *[==>]*	***[1]***
3	(COS.sp.732 994)	(1) J083220.08+243 100.5	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=25 97; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[2]***


Orbit Structure
Orbit 1
Server Version: 20150609
GS Acq
Pointing Maneuver
Occultation
Exp. 1
Exp. 2
Unused Orbital Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 2
Server Version: 20150609
Occultation
GS Reacq
Unused Orbital Visibility = 0
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 14071 - Visit 53 - How are HI Disks Fed? Probing Condensation at the Disk-Halo Interface

Visit

Proposal 14071, Visit 53, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 53) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

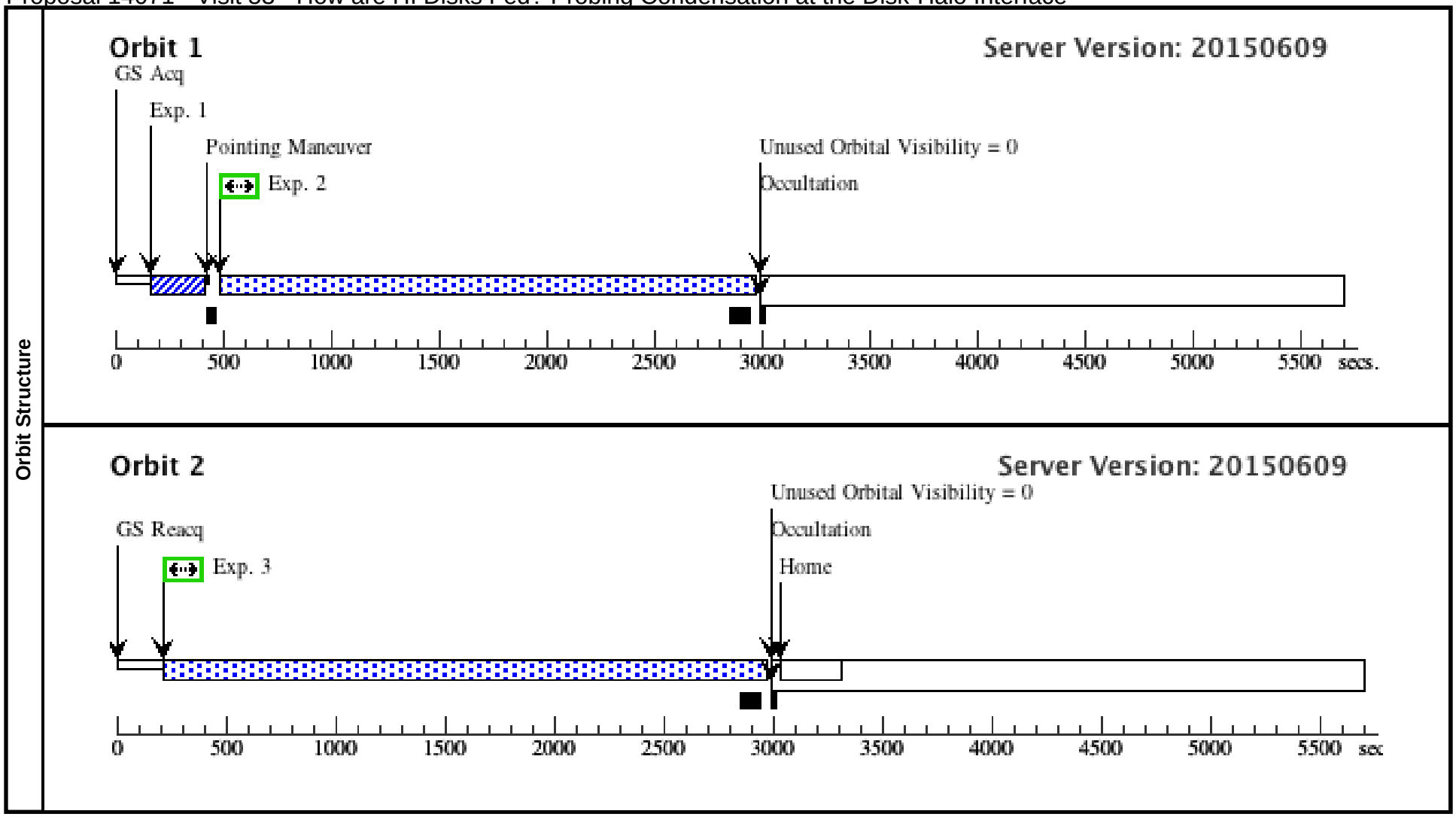
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	J104241.27+250122.8	RA: 10 42 41.2703 (160.6719596d) Dec: +25 01 22.86 (25.02302d) Equinox: J2000		V=17.8+/-0.2 GALEX FUV=18.6, GALEX NUV = 18.7	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732553)	(3) J104241.27+250 122.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) *[==>]*	***[1]***
2	(COS.sp.732 994)	(3) J104241.27+250 122.8	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=22 17; FLASH=YES			2327 Secs (2327 Secs) *[==>]*	***[1]***
3	(COS.sp.732 994)	(3) J104241.27+250 122.8	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=25 97; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[2]***


Orbit Structure
Orbit 1
Server Version: 20150609
GS Acq
Exp. 1
Pointing Maneuver
Exp. 2
Unused Orbital Visibility = 0
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 2
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 54, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 54) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

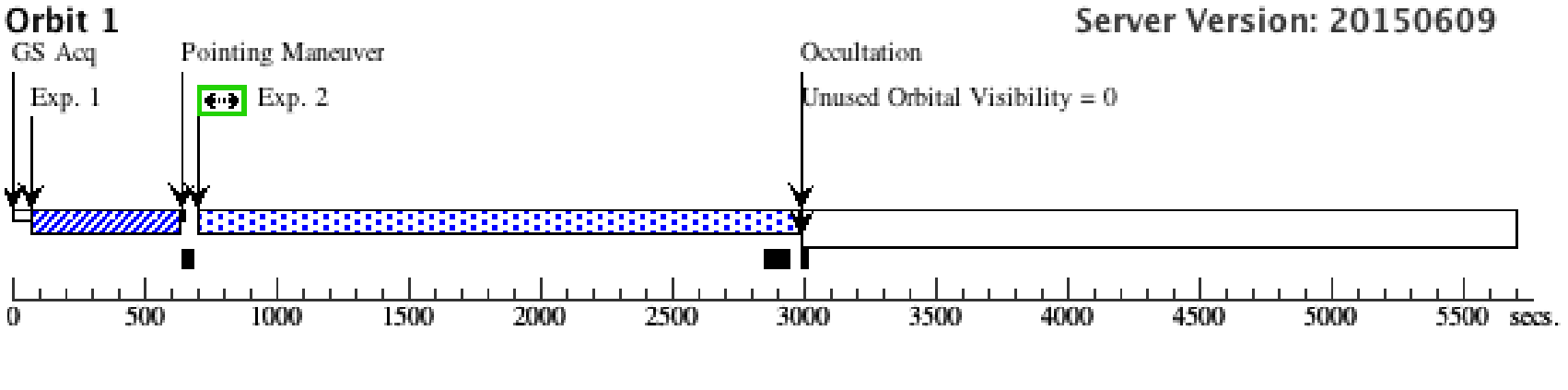
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	J113325.77+242327.8	RA: 11 33 25.7765 (173.3574021d) Dec: +24 23 27.86 (24.39107d) Equinox: J2000		V=17.7+/-0.2 GALEX FUV=18.8, GALEX NUV = 18.1	Reference Frame: ICRS

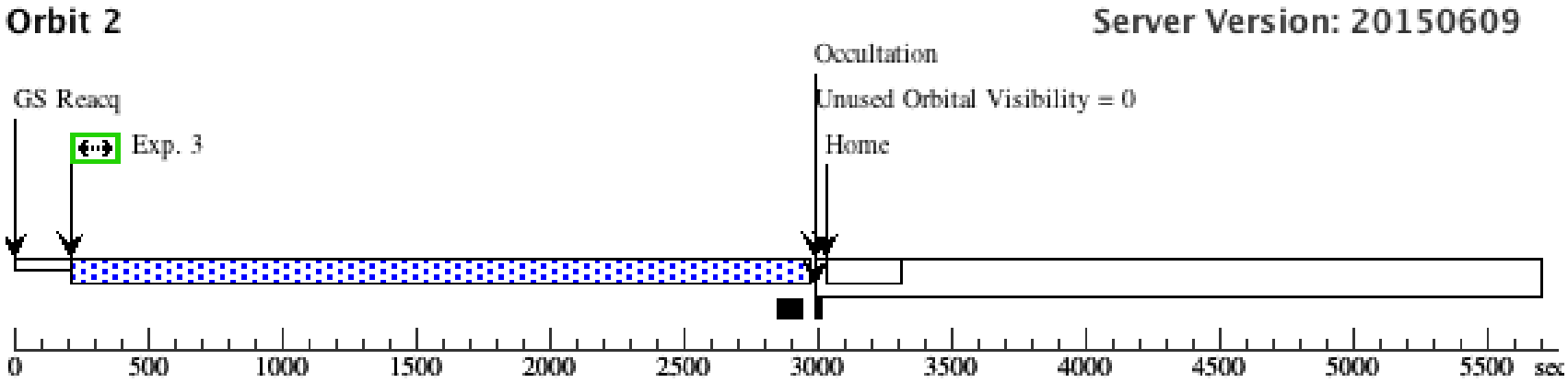
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732531)	(4) J113325.77+242327.8	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				120 Secs (120 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(4) J113325.77+242327.8	COS/FUV, TIME-TAG, PSA	G130M 1318 A	FP-POS=3; BUFFER-TIME=1991; FLASH=YES			2101 Secs (2101 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(4) J113325.77+242327.8	COS/FUV, TIME-TAG, PSA	G130M 1318 A	FP-POS=4; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[2]***

Orbit Structure





Proposal 14071 - Visit 56 - How are HI Disks Fed? Probing Condensation at the Disk-Halo Interface

Visit

Proposal 14071, Visit 56, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 56) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

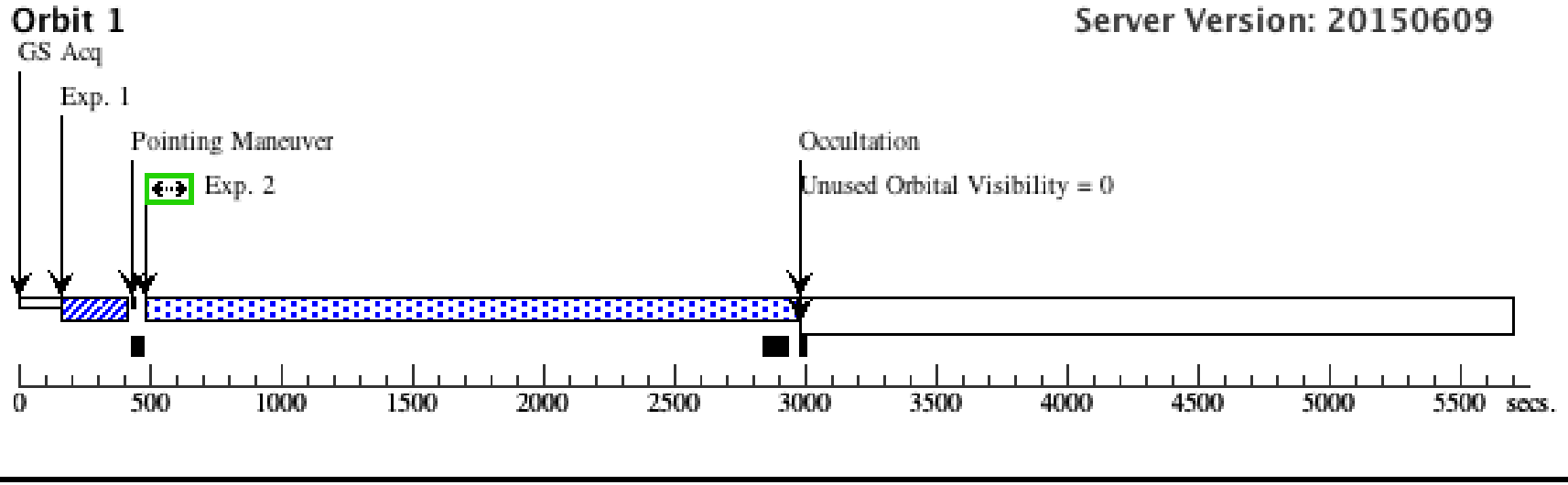
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(6)	J135426.08+144151.4	RA: 13 54 26.0845 (208.6086854d) Dec: +14 41 51.48 (14.69763d) Equinox: J2000		V=18.0+/-0.2 GALEX FUV=18.7, GALEX NUV = 18.8	Reference Frame: ICRS

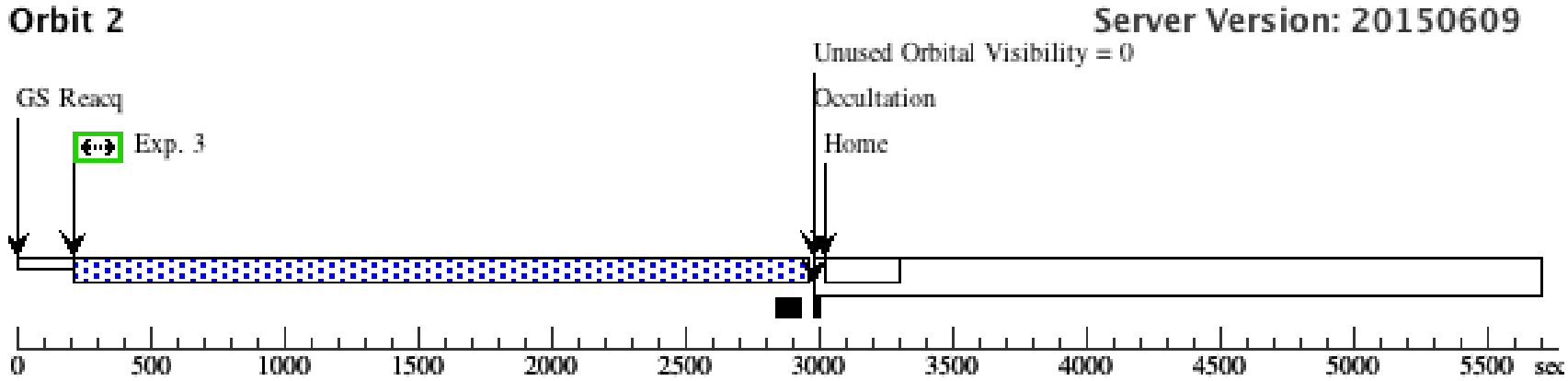
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732550)	(6) J135426.08+144151.4	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				13 Secs (13 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(6) J135426.08+144151.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=2210; FLASH=YES			2320 Secs (2320 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(6) J135426.08+144151.4	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14071, Visit 58, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 58) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

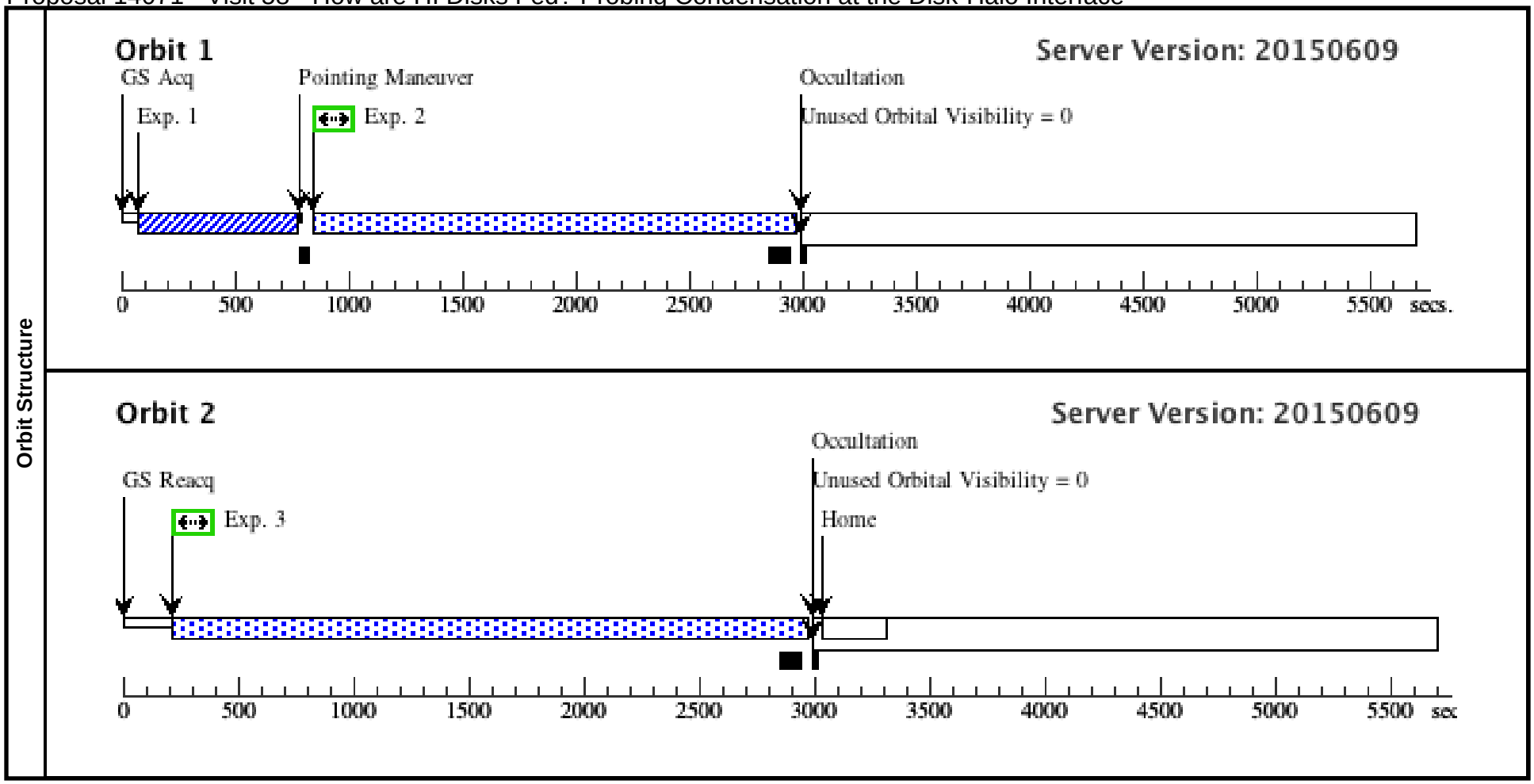
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(8)	J153314.28+150103.0	RA: 15 33 14.2844 (233.3095183d) Dec: +15 01 3.08 (15.01752d) Equinox: J2000		V=17.0+/-0.2 GALEX FUV=18.7, GALEX NUV = 18.5	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732541)	(8) J153314.28+150103.0	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				191 Secs (191 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(8) J153314.28+150103.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=1858; FLASH=YES			1968 Secs (1968 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(8) J153314.28+150103.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	***[2]***


Orbit Structure
Orbit 1
Server Version: 20150609
GS Acq
Exp. 1
Pointing Maneuver
Exp. 2
Occultation
Unused Orbital Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 2
Server Version: 20150609
GS Reacq
Exp. 3
Occultation
Unused Orbital Visibility = 0
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Proposal 14071 - Visit 65 - How are HI Disks Fed? Probing Condensation at the Disk-Halo Interface

Visit

Proposal 14071, Visit 65, completed Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 65) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

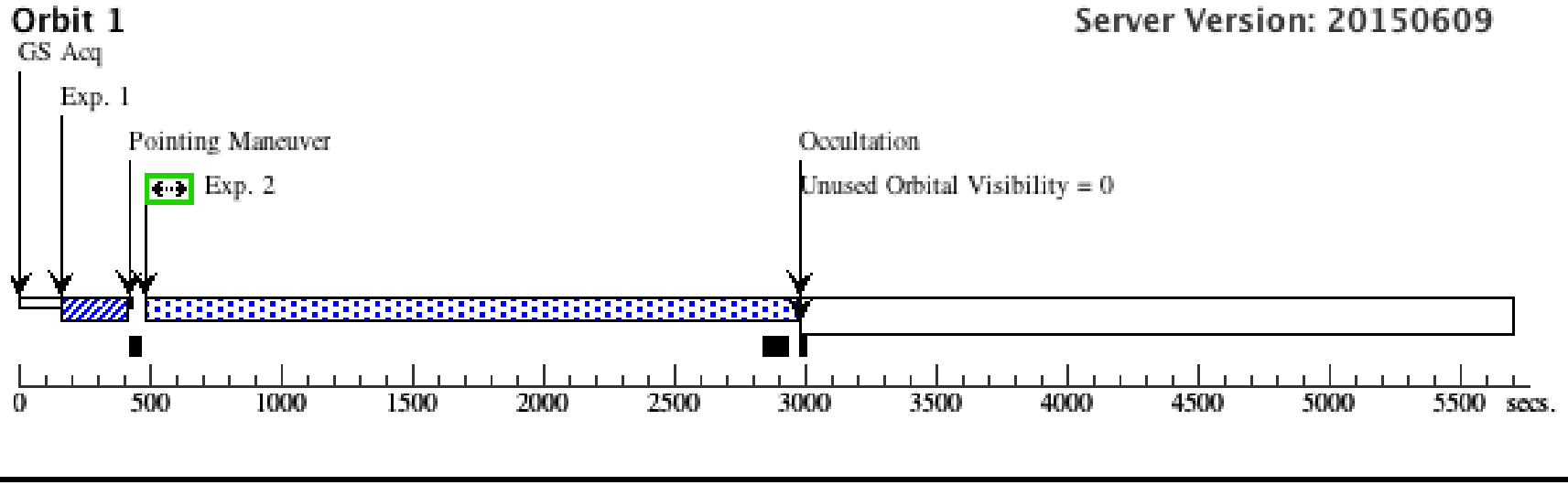
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(15)	J115722.44+114040.7	RA: 11 57 22.4400 (179.3435000d) Dec: +11 40 40.70 (11.67797d) Equinox: J2000		V=18.0+/-0.2 GALEX FUV=18.7, GALEX NUV = 18.6	Reference Frame: ICRS

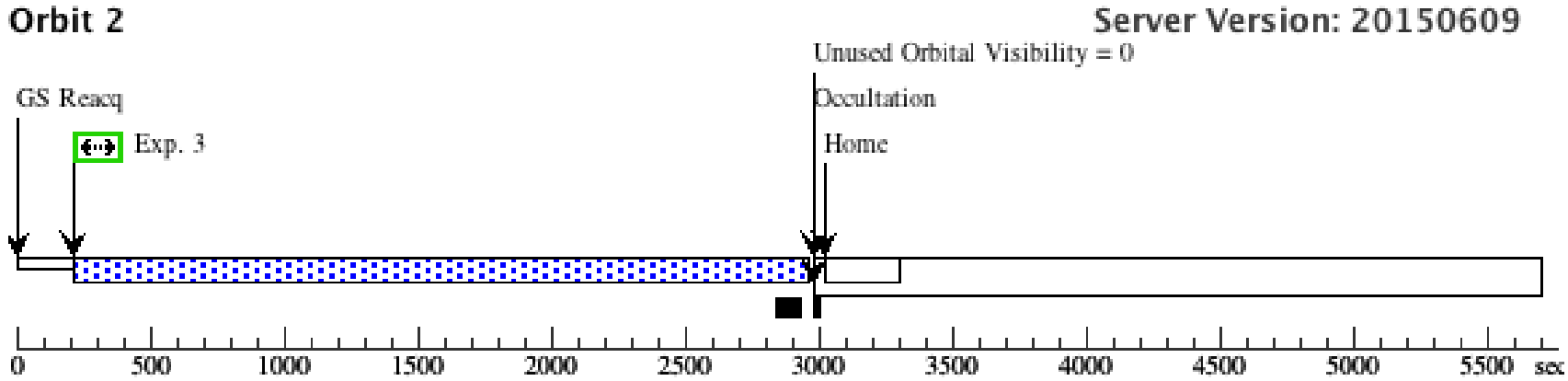
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732553)	(15) J115722.44+114040.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				12 Secs (12 Secs) *[==>]*	*[1]*
2	(COS.sp.732994)	(15) J115722.44+114040.7	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=3; BUFFER-TIME=2205; FLASH=YES			2315 Secs (2315 Secs) *[==>]*	*[1]*
3	(COS.sp.732994)	(15) J115722.44+114040.7	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=4; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	*[2]*

Orbit Structure





Proposal 14071 - Visit 66 - How are HI Disks Fed? Probing Condensation at the Disk-Halo Interface

Visit

Proposal 14071, Visit 66, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 66) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

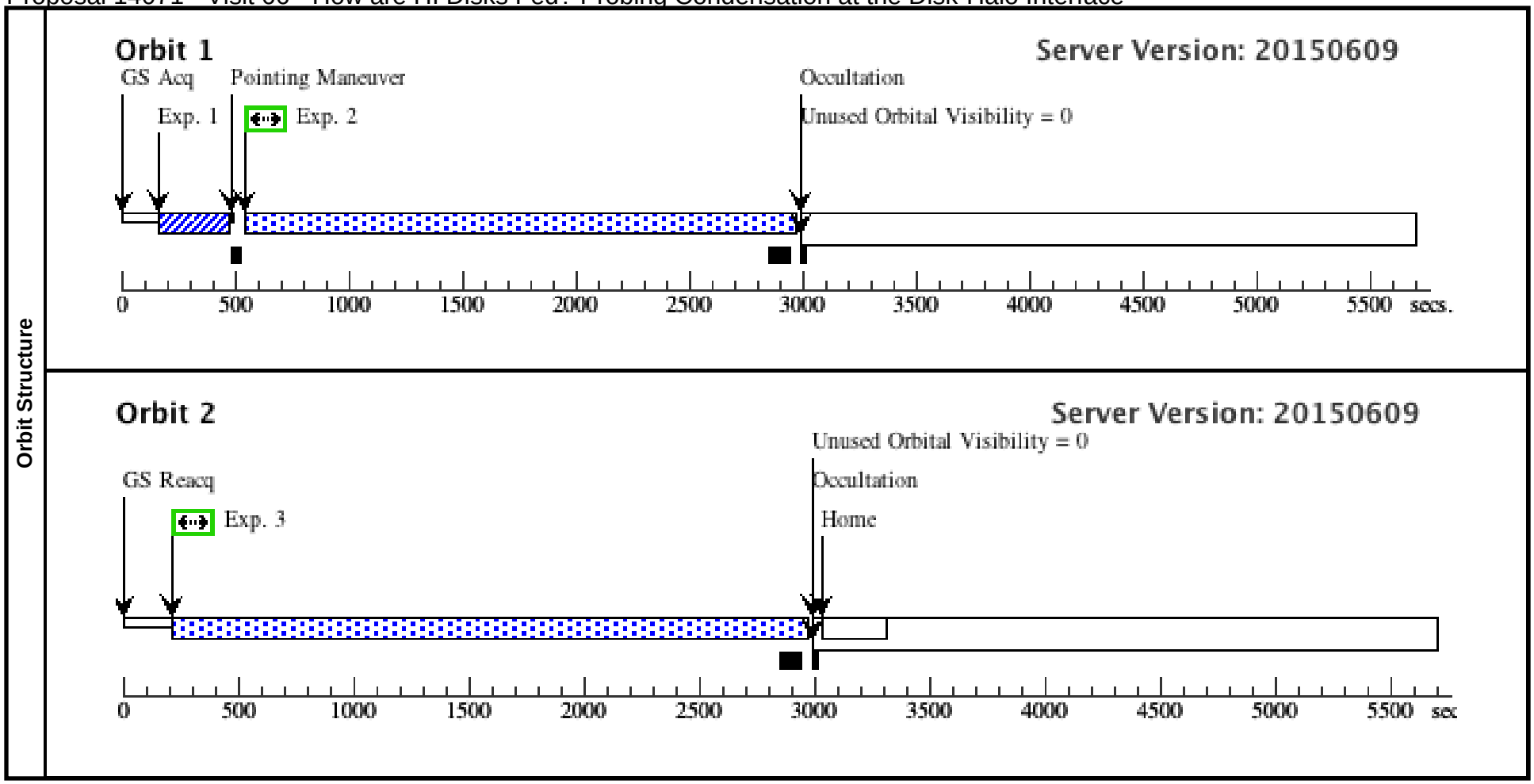
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(16)	J023529.10-092512.6	RA: 02 35 29.1021 (38.8712588d) Dec: -09 25 12.68 (-9.42019d) Equinox: J2000		V=19.6+/-0.2 GALEX FUV = 18.7, GALEX NUV = 20.1	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732558)	(16) J023529.10-092512.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORA				42 Secs (42 Secs) *[==>]*	*[1]*
2	(COS.sp.732994)	(16) J023529.10-092512.6	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=2156; FLASH=YES			2266 Secs (2266 Secs) *[==>]*	*[1]*
3	(COS.sp.732994)	(16) J023529.10-092512.6	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=2596; FLASH=YES			2706 Secs (2706 Secs) *[==>]*	*[2]*


Orbit Structure
Orbit 1
Server Version: 20150609
GS Acq
Pointing Maneuver
Occultation
Exp. 1
Exp. 2
Unused Orbital Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 2
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14071, Visit 69, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 69) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

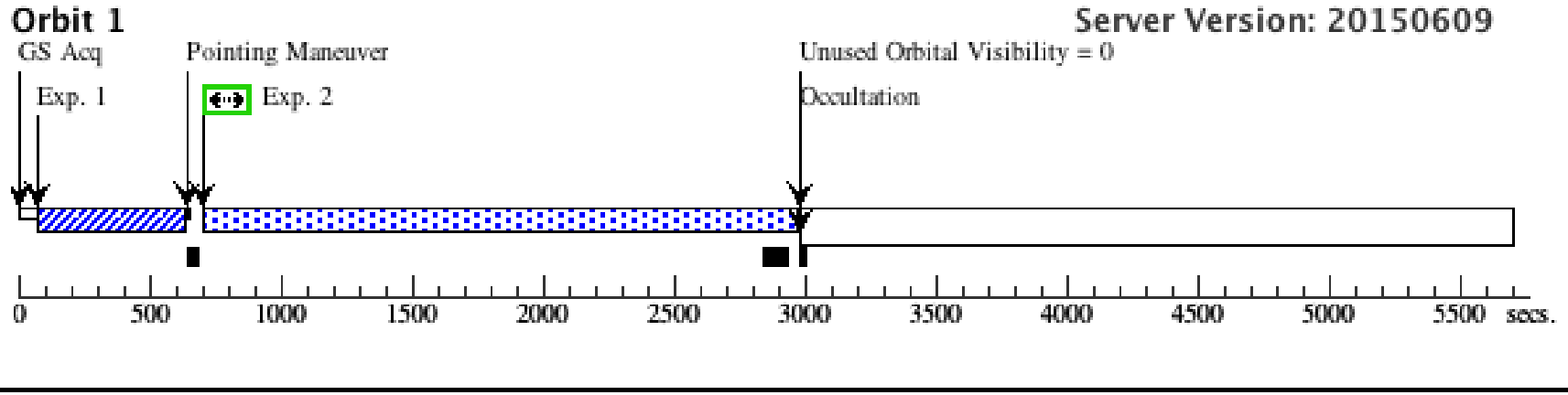
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(19)	J155821.86+120533.2	RA: 15 58 21.8634 (239.5910975d) Dec: +12 05 33.23 (12.09256d) Equinox: J2000		V=17.6+/-0.2 GALEX FUV =18.8, GALEX NUV = 18.0	Reference Frame: ICRS

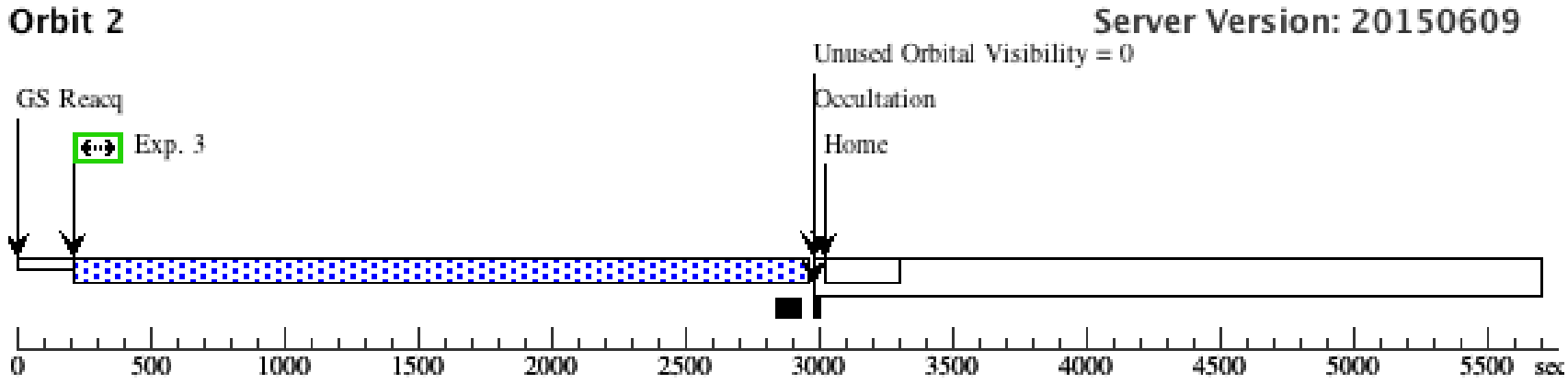
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732531)	(19) J155821.86+120533.2	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				120 Secs (120 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(19) J155821.86+120533.2	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=3; BUFFER-TIME=1992; FLASH=YES			2102 Secs (2102 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(19) J155821.86+120533.2	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=4; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14071, Visit 72, completed Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 72) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

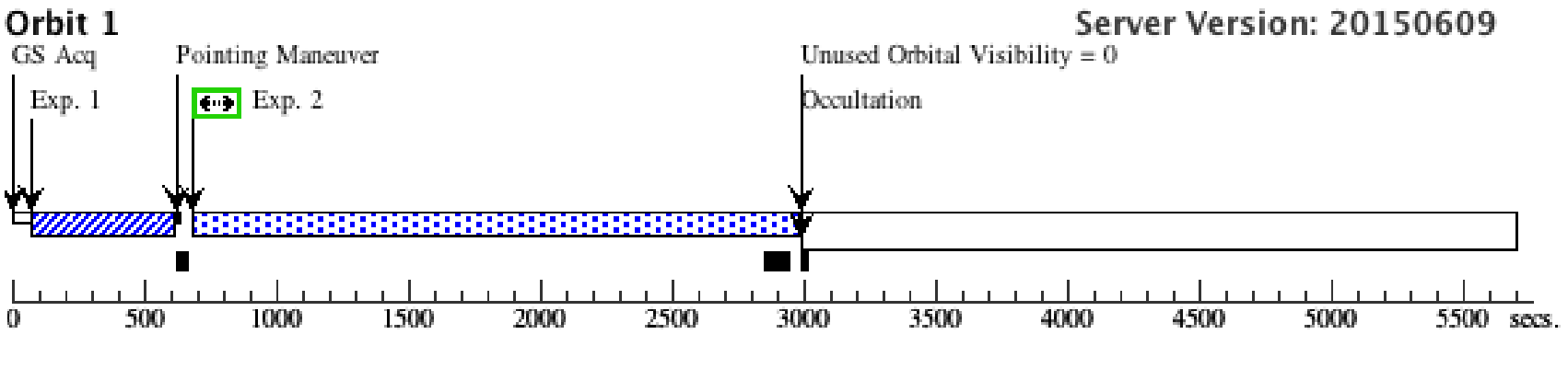
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(22)	J102416.73+242211.6	RA: 10 24 16.7352 (156.0697300d) Dec: +24 22 11.67 (24.36991d) Equinox: J2000		V=17.6+/-0.2 GALEX FUV = 18.8, GALEX NUV = 17.9	Reference Frame: ICRS

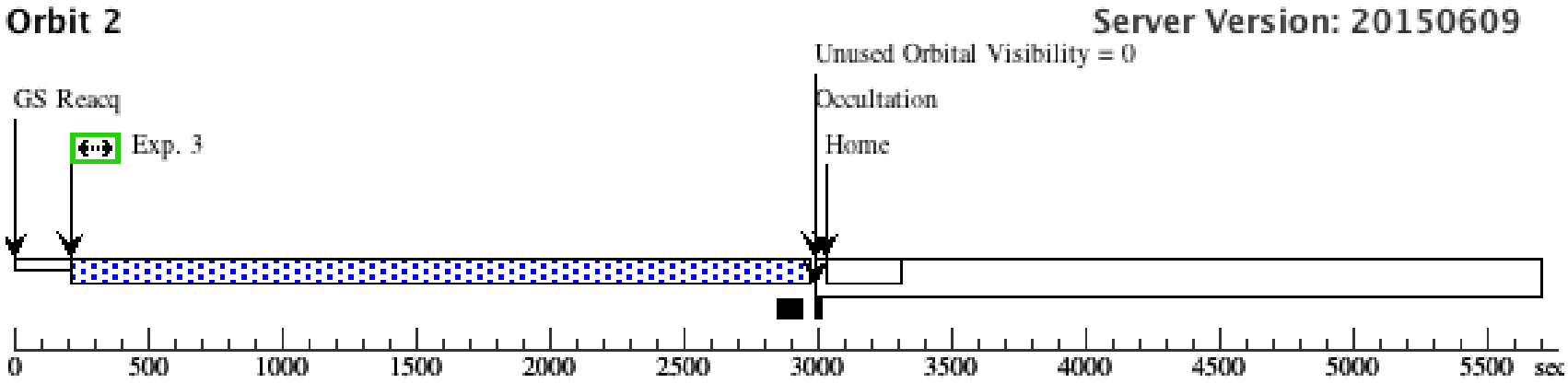
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732530)	(22) J102416.73+242211.6	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				110 Secs (110 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(22) J102416.73+242211.6	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=3; BUFFER-TIME=2014; FLASH=YES			2124 Secs (2124 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(22) J102416.73+242211.6	COS/FUV, TIME-TAG, PSA	G130M 1309 A	FP-POS=4; BUFFER-TIME=2597; FLASH=YES			2707 Secs (2707 Secs) *[==>]*	***[2]***

Orbit Structure





Proposal 14071 - Visit 73 - How are HI Disks Fed? Probing Condensation at the Disk-Halo Interface

Visit

Proposal 14071, Visit 73, completed Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 73) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

Fixed Targets

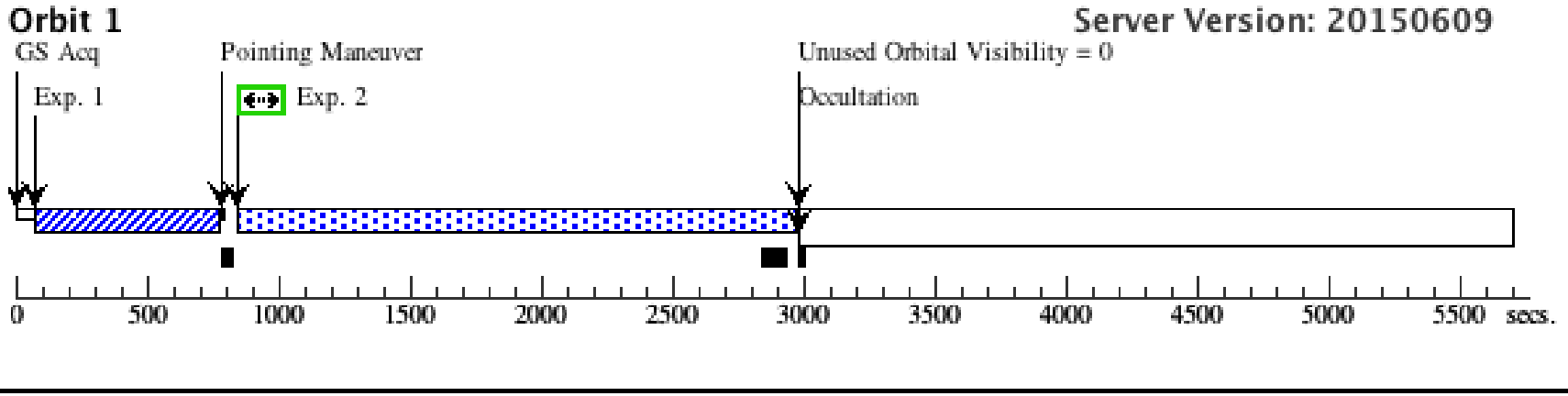
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(23)	J105220.63+101751.7	RA: 10 52 20.6325 (163.0859688d) Dec: +10 17 51.71 (10.29770d) Equinox: J2000		V=18.1+/-0.2 GALEX FUV =18.6, GALEX NUV = 18.4	Reference Frame: ICRS

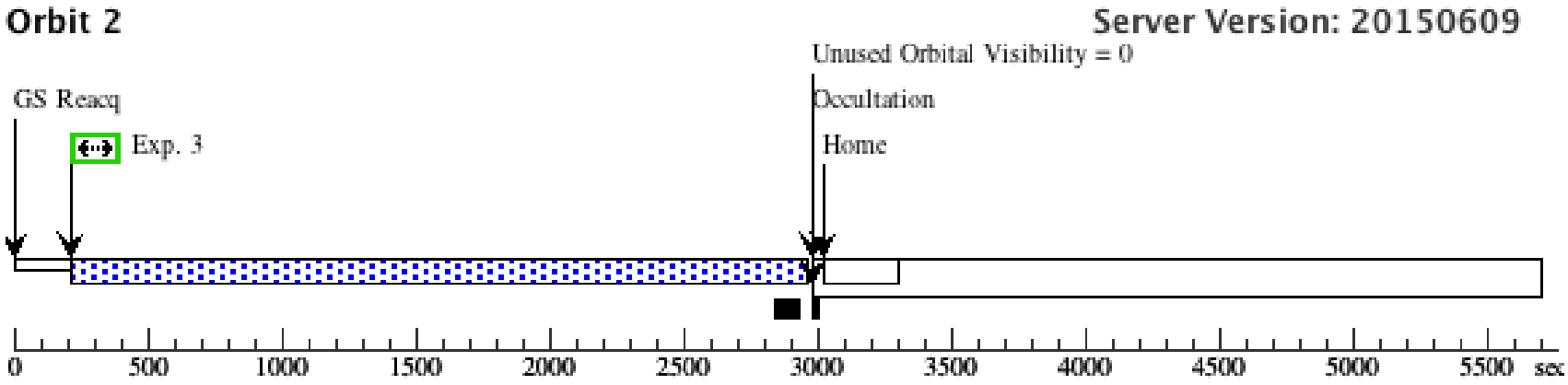
Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732541)	(23) J105220.63+101751.7	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				191 Secs (191 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(23) J105220.63+101751.7	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=3; BUFFER-TIME=1850; FLASH=YES			1960 Secs (1960 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(23) J105220.63+101751.7	COS/FUV, TIME-TAG, PSA	G130M 1300 A	FP-POS=4; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[2]***

Orbit Structure





Visit

Proposal 14071, Visit 77, implementation Thu Dec 31 02:02:05 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/FUV, COS/NUV

Special Requirements: SCHED 100%

Diagnostics

(Visit 77) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.

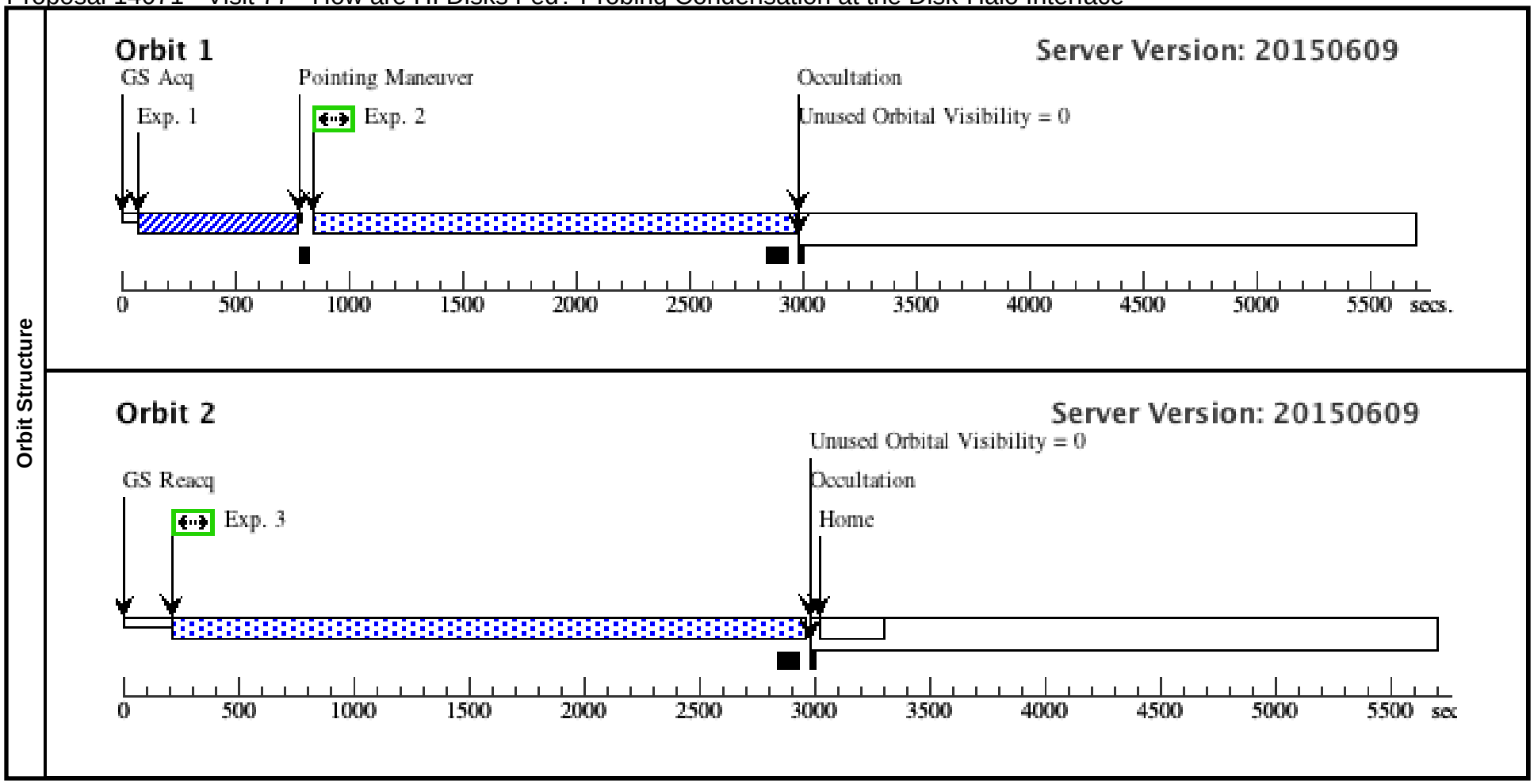
Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(27)	J155855.34+125555.3	RA: 15 58 55.3486 (239.7306192d) Dec: +12 55 55.31 (12.93203d) Equinox: J2000		V=17.9+/-0.2 GALEX FUV =18.7, GALEX NUV = 18.5	Reference Frame: ICRS

Comments: Extended=NO

Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	(732541)	(27) J155855.34+125555.3	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				191 Secs (191 Secs) *[==>]*	***[1]***
2	(COS.sp.732994)	(27) J155855.34+125555.3	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=3; BUFFER-TIME=1854; FLASH=YES			1964 Secs (1964 Secs) *[==>]*	***[1]***
3	(COS.sp.732994)	(27) J155855.34+125555.3	COS/FUV, TIME-TAG, PSA	G130M 1291 A	FP-POS=4; BUFFER-TIME=2592; FLASH=YES			2702 Secs (2702 Secs) *[==>]*	***[2]***


Orbit Structure
Orbit 1
Server Version: 20150609
GS Acq
Pointing Maneuver
Occultation
Exp. 1
Exp. 2
Unused Orbital Visibility = 0
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
secs.
Orbit 2
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 3
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec