14265 - Crossing the redshift desert: ionizing background radiation and intergalactic hydrogen at z ~ 1

Cycle: 23, Proposal Category: GO

(UV Initiative)

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
01	(1) HS2154+2228	COS/NUV	3	15-Sep-2015 21:34:20.0	yes
02	(1) HS2154+2228	COS/NUV	3	15-Sep-2015 21:34:26.0	yes
03	(1) HS2154+2228	COS/NUV	3	15-Sep-2015 21:34:30.0	yes
04	(2) PG1718+481	COS/NUV	3	15-Sep-2015 21:34:34.0	yes
05	(2) PG1718+481	COS/NUV	3	15-Sep-2015 21:34:39.0	yes
06	(2) PG1718+481	COS/NUV	3	15-Sep-2015 21:34:43.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
07	(3) PG1206+459	COS/NUV	4	15-Sep-2015 21:34:49.0	yes
08	(3) PG1206+459	COS/NUV	4	15-Sep-2015 21:34:54.0	yes
09	(3) PG1206+459	COS/NUV	4	15-Sep-2015 21:34:59.0	yes
10	(4) HE0331-4112	COS/NUV	4	15-Sep-2015 21:35:05.0	yes
11	(4) HE0331-4112	COS/NUV	4	15-Sep-2015 21:35:10.0	yes
12	(4) HE0331-4112	COS/NUV	4	15-Sep-2015 21:35:16.0	yes
13	(5) HE1211-1322	COS/NUV	4	15-Sep-2015 21:35:21.0	yes
14	(5) HE1211-1322	COS/NUV	4	15-Sep-2015 21:35:26.0	yes
15	(5) HE1211-1322	COS/NUV	4	15-Sep-2015 21:35:31.0	yes

54 Total Orbits Used

ABSTRACT

The intensity and spectral shape of the cosmic ionizing UV background radiation is important for understanding the physical state of the low-density, ~10^4 K intergalactic medium (IGM) which is the dominant reservoir of the baryons at all cosmic epochs. Despite its importance, the UV background is still poorly constrained both observationally and theoretically, especially at z ~ 1, a crucial time in cosmic evolution where 1) very little observational information is currently available, 2) the claimed IGM evolution break based on low-quality data occurs, 3) the cosmic star formation rate and QSO number density decrease rapidly and 4) there exist no UV radiation background measurements. Given that the properties of neutral hydrogen in the IGM are sensitive to the UV background, we propose a 54-orbit program to obtain COS G225M spectra of 5 QSOs with high S/N (~20 per resolution element), in order to cover the IGM at z = 0.85 to z = 1.07. High-S/N spectra enable direct profile fitting to the absorption lines, providing relibale HI column densities and line widths, and allowing deblending of metal lines. Direct comparisons with our Gadget-III cosmological simulations will be used to estimate the intensity and spectral shape of the UV background radiation and discriminate between the major IGM heating mechanisms at z = 1: photo-heating, galactic winds and blazars.

OBSERVING DESCRIPTION

There are 5 targets in this program, which are to be observed with three settings of the COS G225M grating, using central wavelengths 2339, 2373 and 2410 in order to get continuous coverage from 2224 to 2527 A. Three orbits were allocated for each setting for HS2154+2228 and PG1718+481

and four orbits were allocated for each setting for PG1206+459, HE0331-4112 and HE1211-1322.
The setup is as follows:

First do an ACQ/SEARCH, with SCAN-SIZE=3, with exposure times calculated with the COS ETC, G225M-2339 to get S/N=40, using the target flux as found from GALEX data.
Next do ACQ/PEAKXD and ACQ/PEAKD to completely center.
Since the peakups use the NUV gratings, with only 100 A wavelength coverage, it takes 100-250 seconds per step, so they take up more than half of the first orbit. For the three fainter targets, the exposure time has therefore been lowered slightly, to reach S/N=40 instead of 35, which yields a total of 120-180 extra seconds of exposure time.

There are three visits for each target, one for each central wavelength. The central wavelength is already set during peakup. A detailed check of the COS ETC shows small differences (~10 sec) in the exposure times when using the different central wavelengths. These have been taken into account, so that the exposure time in the first orbit is slightly longer for the 2410 setting than for 2373, which is longer than that for 2339.

After peakup, all four FPPOS positions are used for the grating in the first and each subsequent orbit, the last two or three of which are identical.

Visit

Proposal 14265, HS2154+2228 (01), implementation Wed Sep 16 01:35:34 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(HS2154+2228 (01)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HS2154+2228 (01)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HS2154+2228 (01)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

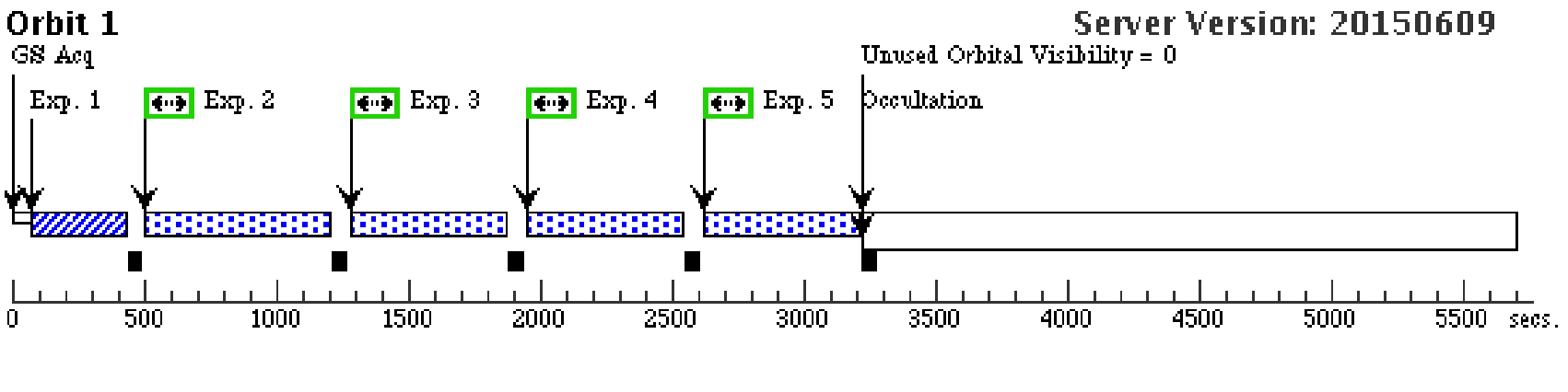
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HS2154+2228	RA: 21 56 47.4700 (329.1977917d) Dec: +22 42 49.40 (22.71372d) Equinox: J2000	Redshift: 1.290	V=15.20+/-0.1 1.1E-14 erg/cm^2/s/A	Reference Frame: ICRS

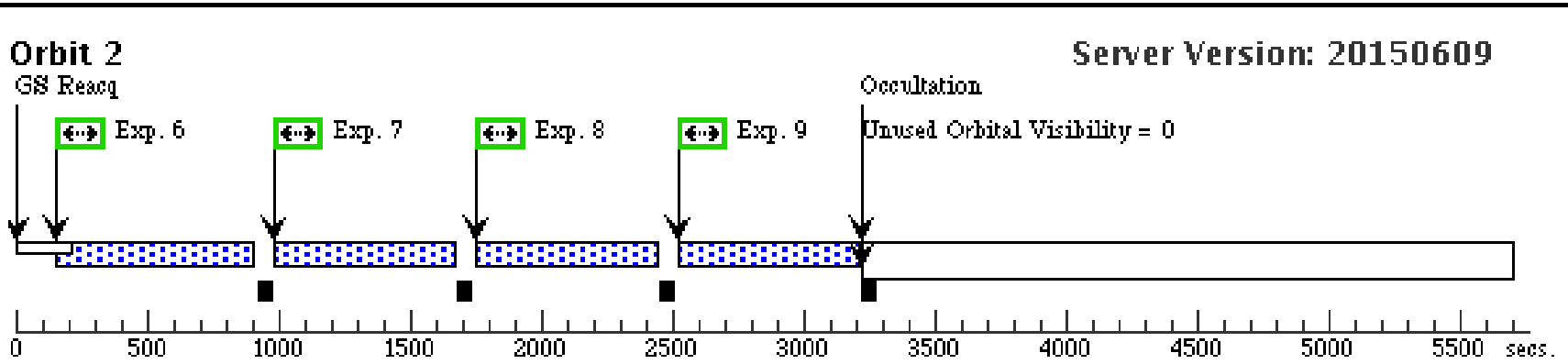
Comments: Extended=NO

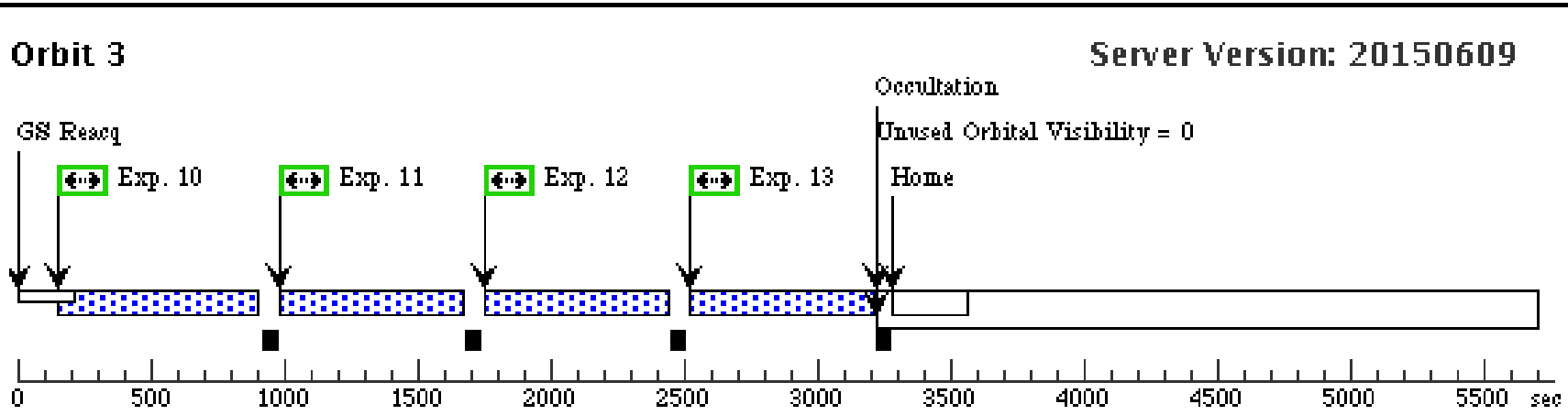
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HS2154+2228-2339-ACQ/IMAGE (COS.ta.742860)	(1) HS2154+2228	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				20 Secs (20 Secs) *[==>]*	***[1]***
Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=15.97 => 18 sec* *Count rate 1066/sec*									
2	HS2154+2228-a2339-1 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			573 Secs (573 Secs) *[==>]*	***[1]***
3	HS2154+2228-a2339-2 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			572 Secs (572 Secs) *[==>]*	***[1]***
4	HS2154+2228-a2339-3 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			572 Secs (572 Secs) *[==>]*	***[1]***
5	HS2154+2228-a2339-4 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			572 Secs (572 Secs) *[==>]*	***[1]***
6	HS2154+2228-b2339-1 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			671 Secs (671 Secs) *[==>]*	***[2]***
7	HS2154+2228-b2339-2 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			671 Secs (671 Secs) *[==>]*	***[2]***
8	HS2154+2228-b2339-3 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[2]***
9	HS2154+2228-b2339-4 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[2]***
10	HS2154+2228-c2339-1 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			671 Secs (671 Secs) *[==>]*	***[3]***
11	HS2154+2228-c2339-2 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			671 Secs (671 Secs) *[==>]*	***[3]***
12	HS2154+2228-c2339-3 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[3]***
13	HS2154+2228-c2339-4 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[3]***

Orbit Structure







Visit

Proposal 14265, HS2154+2228 (02), implementation Wed Sep 16 01:35:35 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(HS2154+2228 (02)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HS2154+2228 (02)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

(HS2154+2228 (02)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

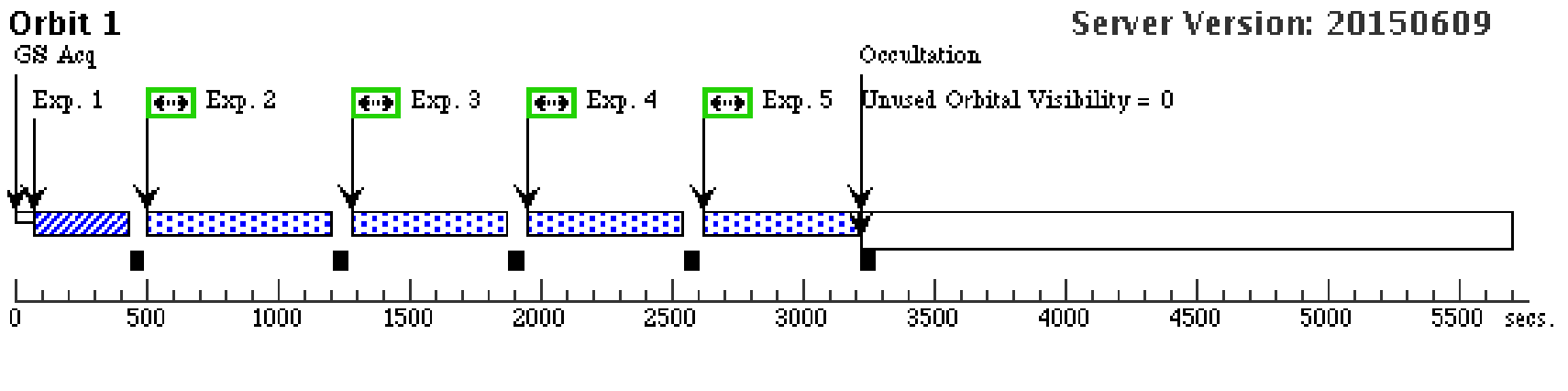
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HS2154+2228	RA: 21 56 47.4700 (329.1977917d) Dec: +22 42 49.40 (22.71372d) Equinox: J2000	Redshift: 1.290	V=15.20+/-0.1 1.1E-14 erg/cm^2/s/A	Reference Frame: ICRS

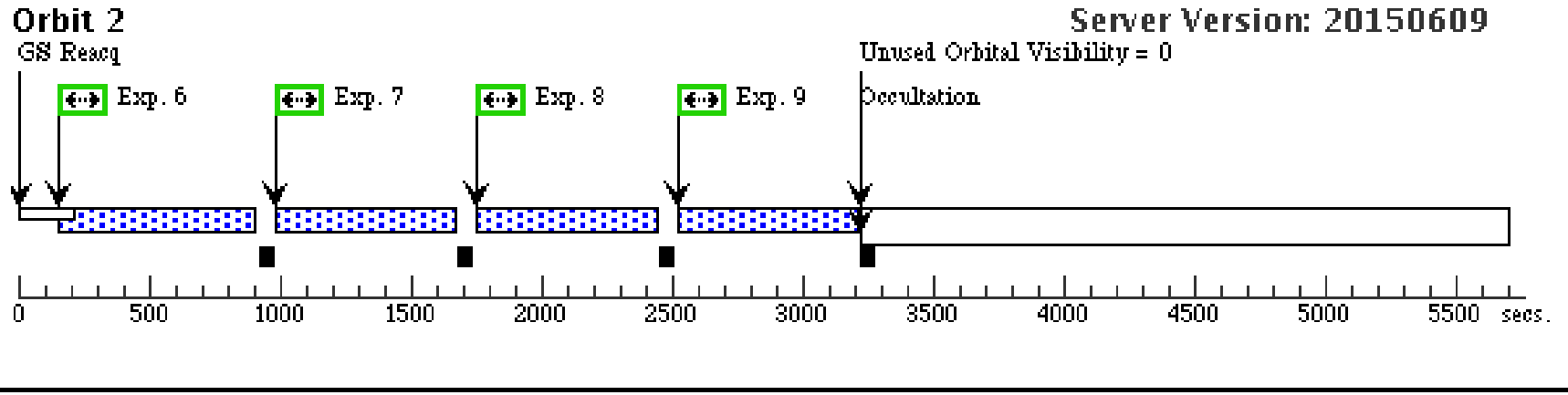
Comments: Extended=NO

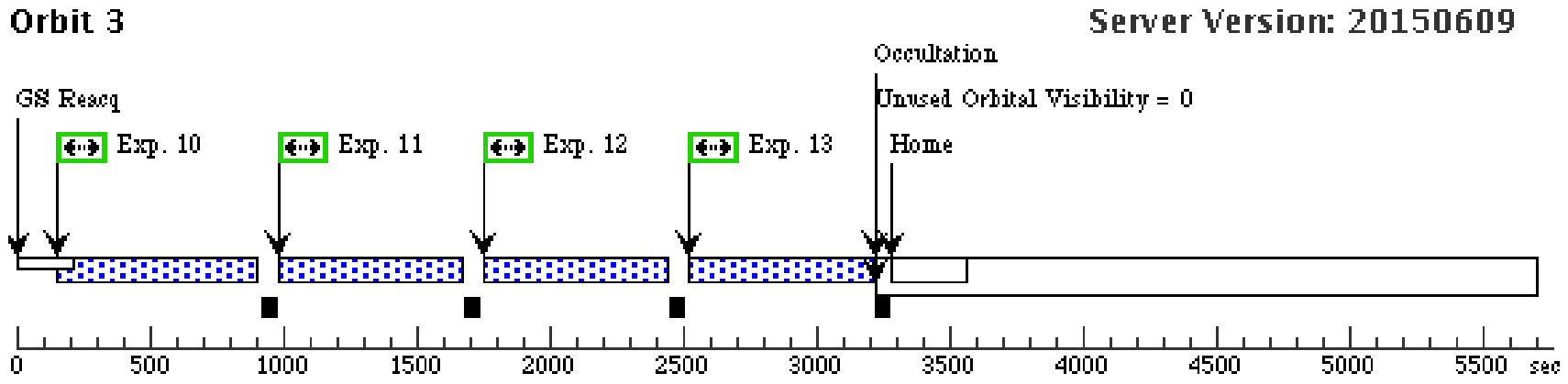
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HS2154+2228-2373-ACQ/IMAGE (COS.ta.742860)	(1) HS2154+2228	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				20 Secs (20 Secs) *[==>]*	***[1]***
Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=15.97 => 18 sec* *Count rate 1066/sec*									
2	HS2154+2228-a2373-1 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			573 Secs (573 Secs) *[==>]*	***[1]***
3	HS2154+2228-a2373-2 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			572 Secs (572 Secs) *[==>]*	***[1]***
4	HS2154+2228-a2373-3 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			572 Secs (572 Secs) *[==>]*	***[1]***
5	HS2154+2228-a2373-4 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			572 Secs (572 Secs) *[==>]*	***[1]***
6	HS2154+2228-b2373-1 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			671 Secs (671 Secs) *[==>]*	***[2]***
7	HS2154+2228-b2373-2 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			671 Secs (671 Secs) *[==>]*	***[2]***
8	HS2154+2228-b2373-3 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[2]***
9	HS2154+2228-b2373-4 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[2]***
10	HS2154+2228-c2373-1 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			671 Secs (671 Secs) *[==>]*	***[3]***
11	HS2154+2228-c2373-2 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			671 Secs (671 Secs) *[==>]*	***[3]***
12	HS2154+2228-c2373-3 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[3]***
13	HS2154+2228-c2373-4 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[3]***

Orbit Structure







Visit

Proposal 14265, HS2154+2228 (03), implementation Wed Sep 16 01:35:35 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(HS2154+2228 (03)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HS2154+2228 (03)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

(HS2154+2228 (03)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

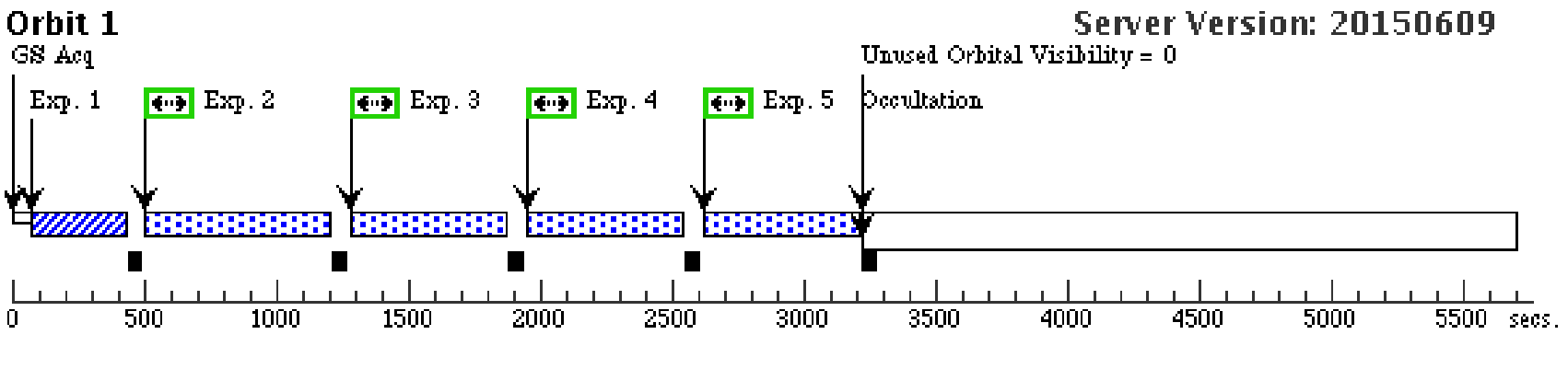
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	HS2154+2228	RA: 21 56 47.4700 (329.1977917d) Dec: +22 42 49.40 (22.71372d) Equinox: J2000	Redshift: 1.290	V=15.20+/-0.1 1.1E-14 erg/cm^2/s/A	Reference Frame: ICRS

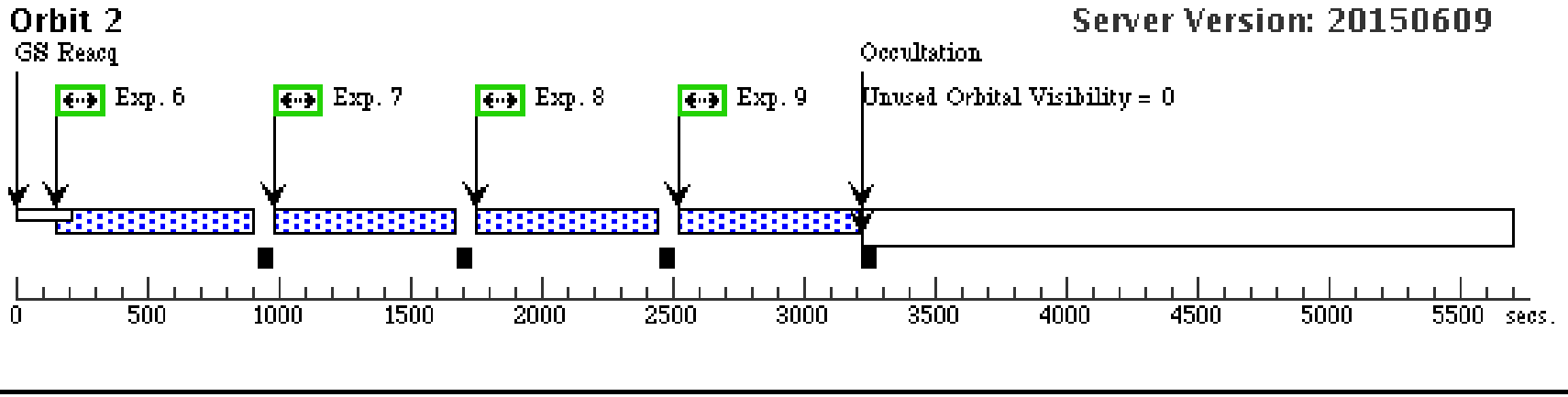
Comments: Extended=NO

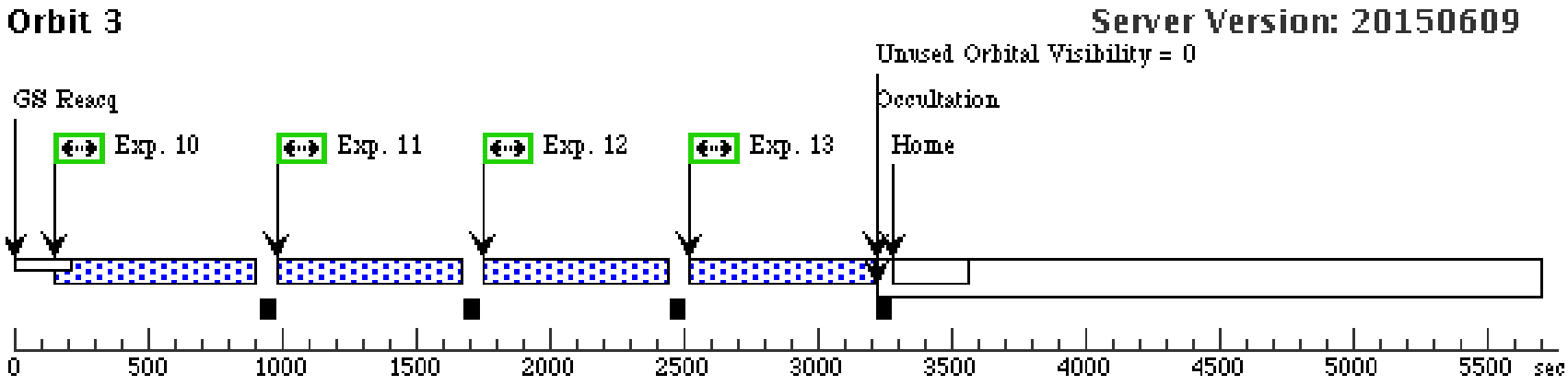
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HS2154+2228-2410-ACQ/IMAGE (COS.ta.742860)	(1) HS2154+2228	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				20 Secs (20 Secs) *[==>]*	***[1]***
Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=15.97 => 18 sec* *Count rate 1066/sec*									
2	HS2154+2228-a2410-1 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			573 Secs (573 Secs) *[==>]*	***[1]***
3	HS2154+2228-a2410-2 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			572 Secs (572 Secs) *[==>]*	***[1]***
4	HS2154+2228-a2410-3 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			572 Secs (572 Secs) *[==>]*	***[1]***
5	HS2154+2228-a2410-4 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			572 Secs (572 Secs) *[==>]*	***[1]***
6	HS2154+2228-b2410-1 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			671 Secs (671 Secs) *[==>]*	***[2]***
7	HS2154+2228-b2410-2 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			671 Secs (671 Secs) *[==>]*	***[2]***
8	HS2154+2228-b2410-3 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[2]***
9	HS2154+2228-b2410-4 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[2]***
10	HS2154+2228-c2410-1 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			671 Secs (671 Secs) *[==>]*	***[3]***
11	HS2154+2228-c2410-2 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			671 Secs (671 Secs) *[==>]*	***[3]***
12	HS2154+2228-c2410-3 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[3]***
13	HS2154+2228-c2410-4 (COS.sp.720750)	(1) HS2154+2228	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[3]***

Orbit Structure







Visit

Proposal 14265, PG1718+481 (04), implementation Wed Sep 16 01:35:36 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(PG1718+481 (04)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

(PG1718+481 (04)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(PG1718+481 (04)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

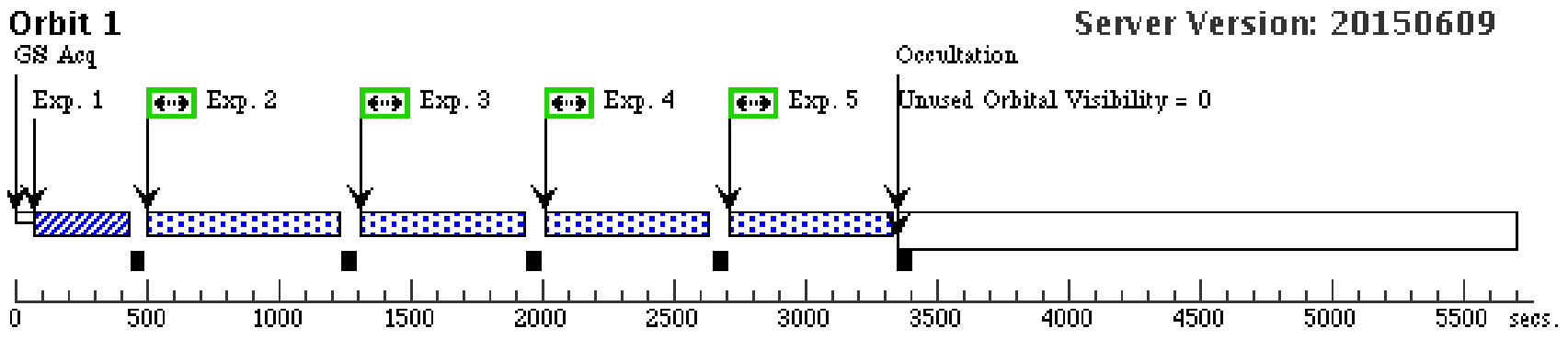
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	PG1718+481	RA: 17 19 38.2800 (259.9095000d) Dec: +48 04 12.25 (48.07007d) Equinox: J2000	Redshift: 1.073	V=14.6+/-0.1 0.99E-14 erg/cm^2/s/A	Reference Frame: ICRS

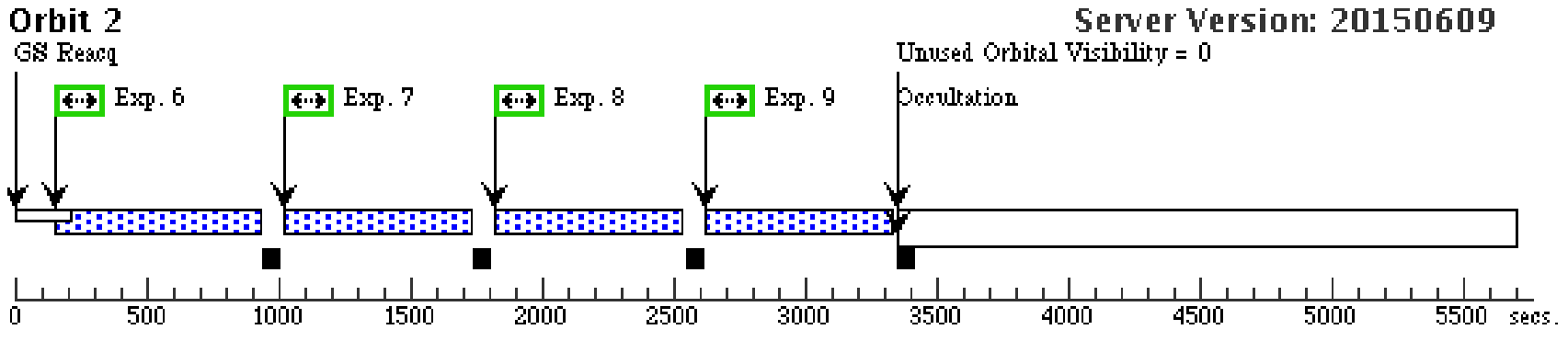
Comments: Extended=NO

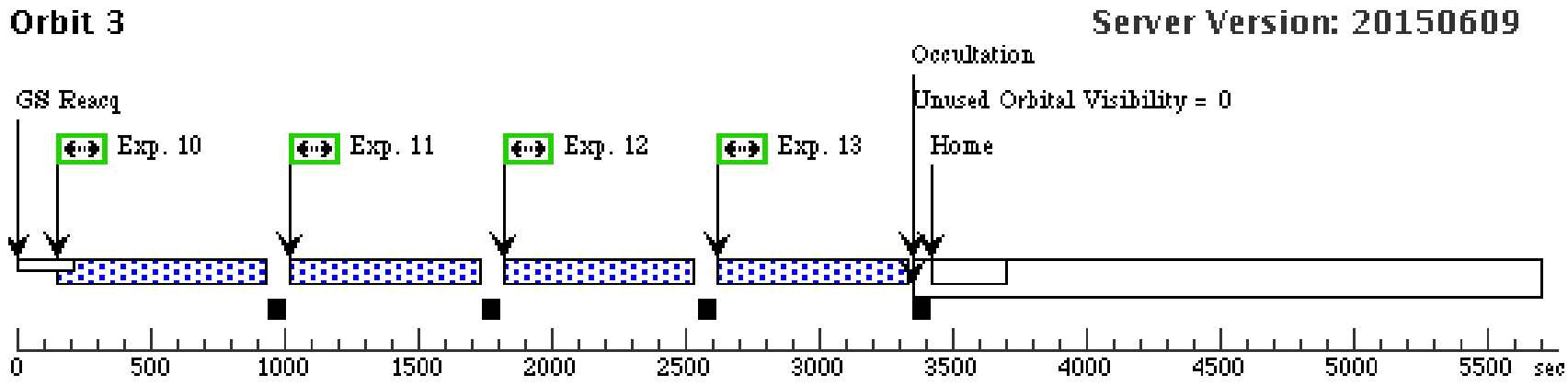
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PG1718+481-2339-ACQ/IMAGE (COS.ta.742861)	(2) PG1718+481	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				20 Secs (20 Secs) *[==>]*	***[1]***
Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=16.05 => 20 sec* *Count rate 1057/sec*									
2	PG1718+481-a2339-1 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			605 Secs (605 Secs) *[==>]*	***[1]***
3	PG1718+481-a2339-2 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			605 Secs (605 Secs) *[==>]*	***[1]***
4	PG1718+481-a2339-3 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			605 Secs (605 Secs) *[==>]*	***[1]***
5	PG1718+481-a2339-4 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			604 Secs (604 Secs) *[==>]*	***[1]***
6	PG1718+481-b2339-1 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[2]***
7	PG1718+481-b2339-2 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
8	PG1718+481-b2339-3 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
9	PG1718+481-b2339-4 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
10	PG1718+481-c2339-1 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[3]***
11	PG1718+481-c2339-2 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***
12	PG1718+481-c2339-3 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***
13	PG1718+481-c2339-4 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***

Orbit Structure







Visit

Proposal 14265, PG1718+481 (05), implementation Wed Sep 16 01:35:36 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(PG1718+481 (05)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

(PG1718+481 (05)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(PG1718+481 (05)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

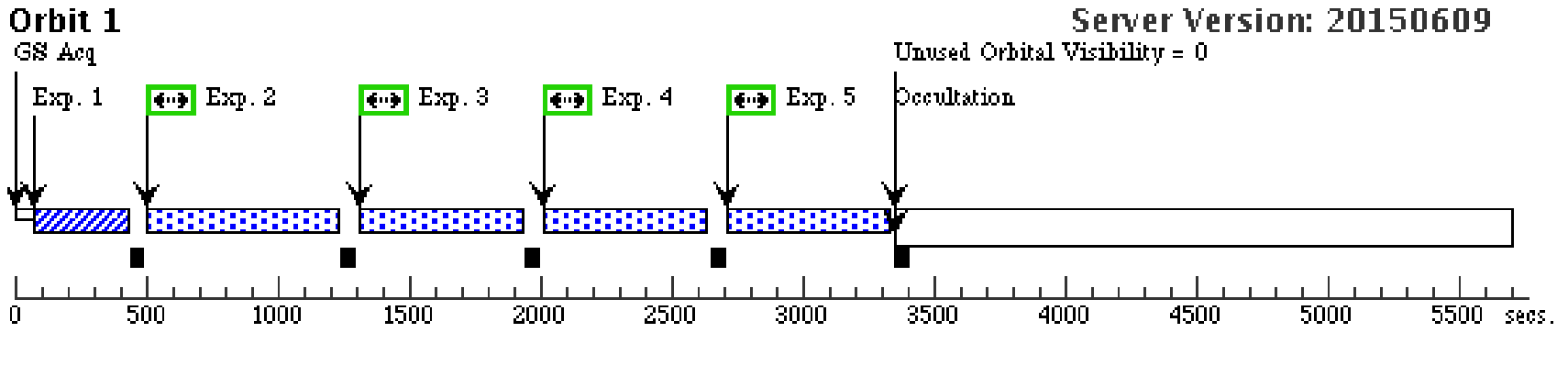
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	PG1718+481	RA: 17 19 38.2800 (259.9095000d) Dec: +48 04 12.25 (48.07007d) Equinox: J2000	Redshift: 1.073	V=14.6+/-0.1 0.99E-14 erg/cm^2/s/A	Reference Frame: ICRS

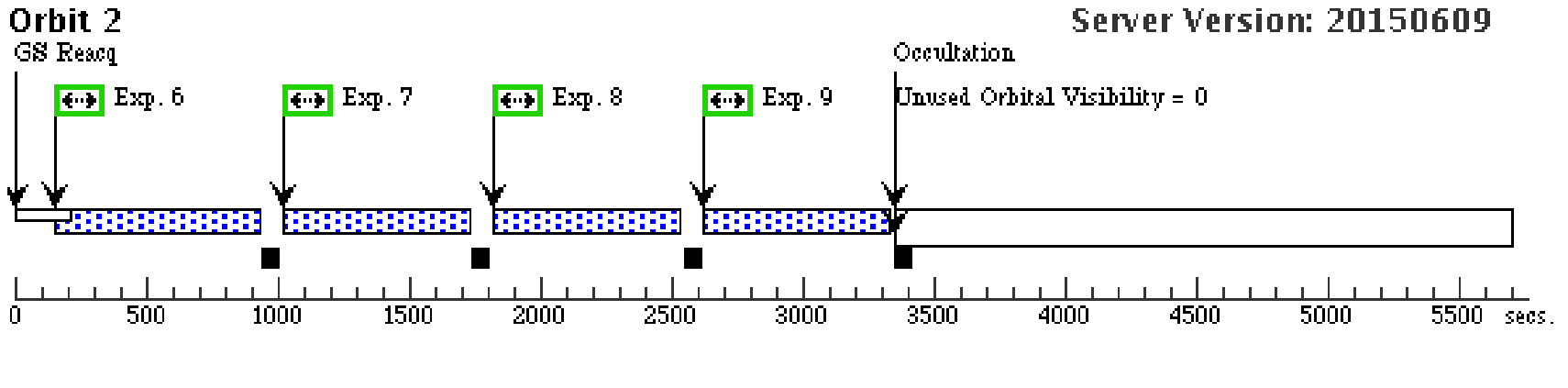
Comments: Extended=NO

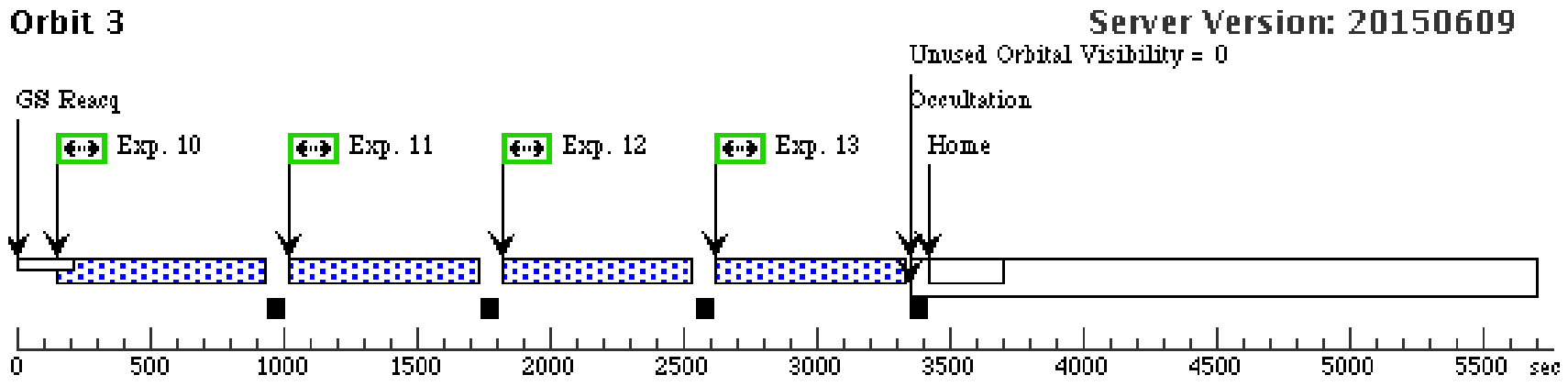
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PG1718+481-2373-ACQ/IMAGE (COS.ta.742861)	(2) PG1718+481	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				20 Secs (20 Secs) *[==>]*	***[1]***
Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=16.05 => 20 sec* *Count rate 1057/sec*									
2	PG1718+481-a2373-1 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			605 Secs (605 Secs) *[==>]*	***[1]***
3	PG1718+481-a2373-2 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			605 Secs (605 Secs) *[==>]*	***[1]***
4	PG1718+481-a2373-3 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			605 Secs (605 Secs) *[==>]*	***[1]***
5	PG1718+481-a2373-4 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			604 Secs (604 Secs) *[==>]*	***[1]***
6	PG1718+481-b2373-1 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[2]***
7	PG1718+481-b2373-2 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
8	PG1718+481-b2373-3 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
9	PG1718+481-b2373-4 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
10	PG1718+481-c2373-1 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[3]***
11	PG1718+481-c2373-2 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***
12	PG1718+481-c2373-3 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***
13	PG1718+481-c2373-4 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***

Orbit Structure







Visit

Proposal 14265, PG1718+481 (06), implementation Wed Sep 16 01:35:36 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(PG1718+481 (06)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

(PG1718+481 (06)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(PG1718+481 (06)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

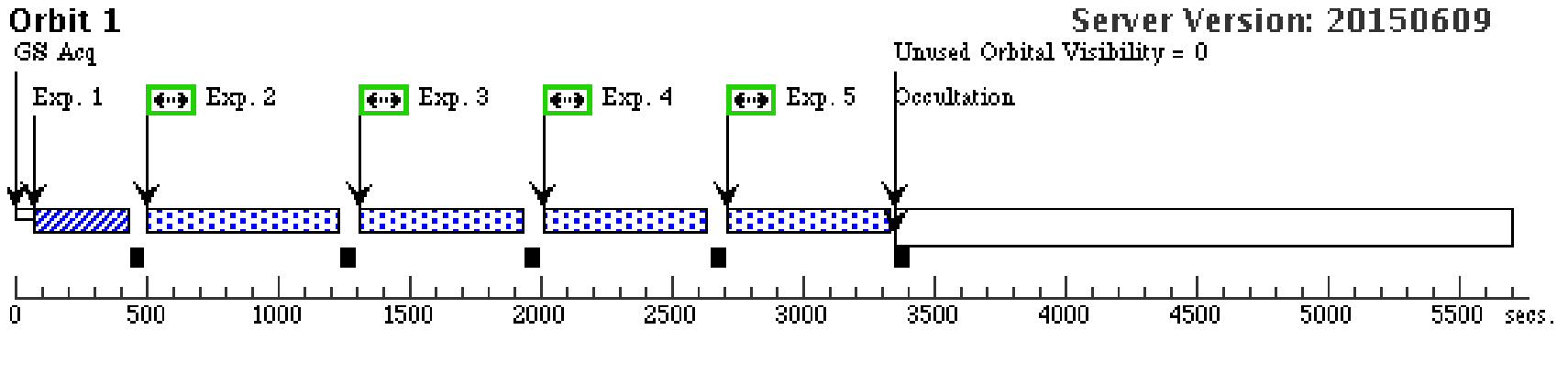
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(2)	PG1718+481	RA: 17 19 38.2800 (259.9095000d) Dec: +48 04 12.25 (48.07007d) Equinox: J2000	Redshift: 1.073	V=14.6+/-0.1 0.99E-14 erg/cm^2/s/A	Reference Frame: ICRS

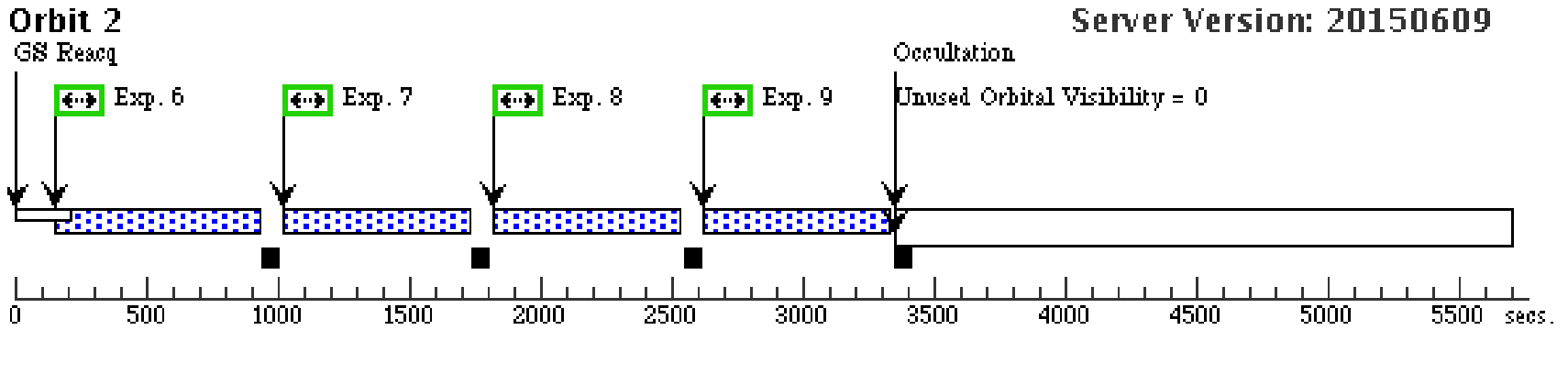
Comments: Extended=NO

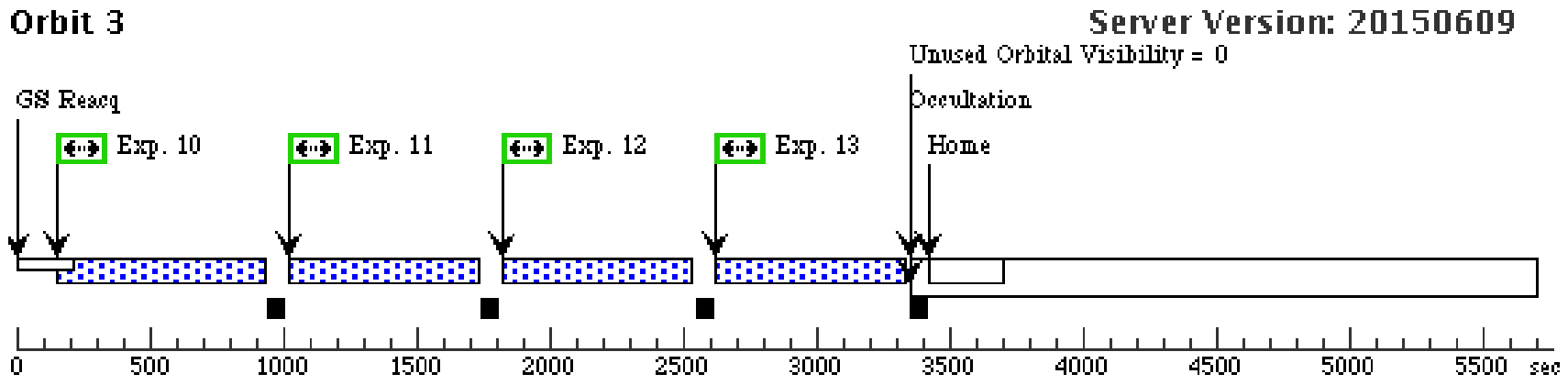
Exposures

#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PG1718+481-2410-ACQ/IMAGE (COS.ta.720740)	(2) PG1718+481	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				20 Secs (20 Secs) *[==>]*	***[1]***
Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=16.05 => 20 sec* *Count rate 1057/sec*									
2	PG1718+481-a2410-1 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			605 Secs (605 Secs) *[==>]*	***[1]***
3	PG1718+481-a2410-2 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			605 Secs (605 Secs) *[==>]*	***[1]***
4	PG1718+481-a2410-3 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			605 Secs (605 Secs) *[==>]*	***[1]***
5	PG1718+481-a2410-4 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			604 Secs (604 Secs) *[==>]*	***[1]***
6	PG1718+481-b2410-1 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[2]***
7	PG1718+481-b2410-2 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
8	PG1718+481-b2410-3 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
9	PG1718+481-b2410-4 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
10	PG1718+481-c2410-1 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[3]***
11	PG1718+481-c2410-2 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***
12	PG1718+481-c2410-3 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***
13	PG1718+481-c2410-4 (COS.sp.720753)	(2) PG1718+481	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***

Orbit Structure







Visit

Proposal 14265, PG1206+459 (07), implementation Wed Sep 16 01:35:36 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(PG1206+459 (07)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(PG1206+459 (07)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(PG1206+459 (07)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

(PG1206+459 (07)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	PG1206+459	RA: 12 08 58.0129 (182.2417204d) Dec: +45 40 35.49 (45.67652d) Equinox: J2000	Redshift: 1.155	V=15.7 0.80E-14 erg/cm^2/s/A	Reference Frame: ICRS

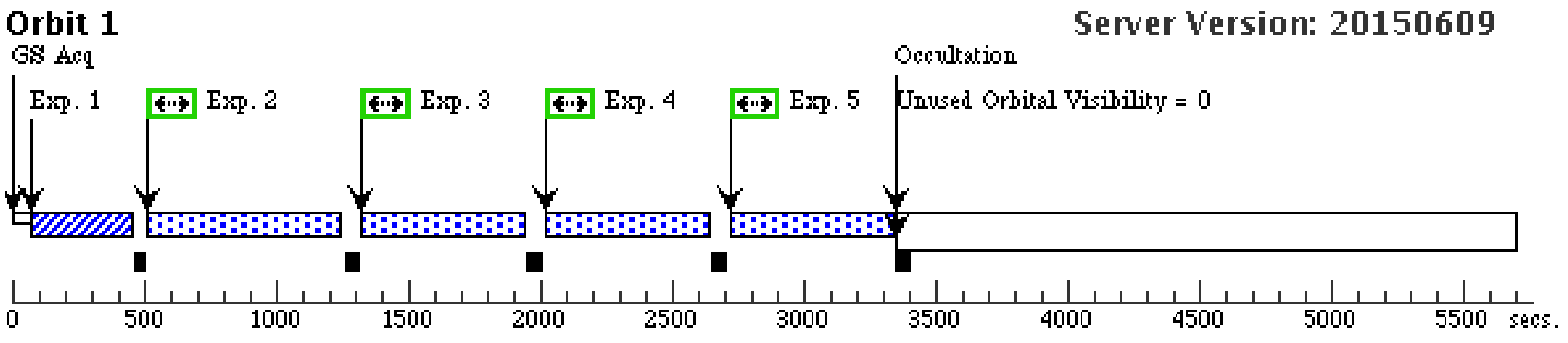
Comments: Extended=NO

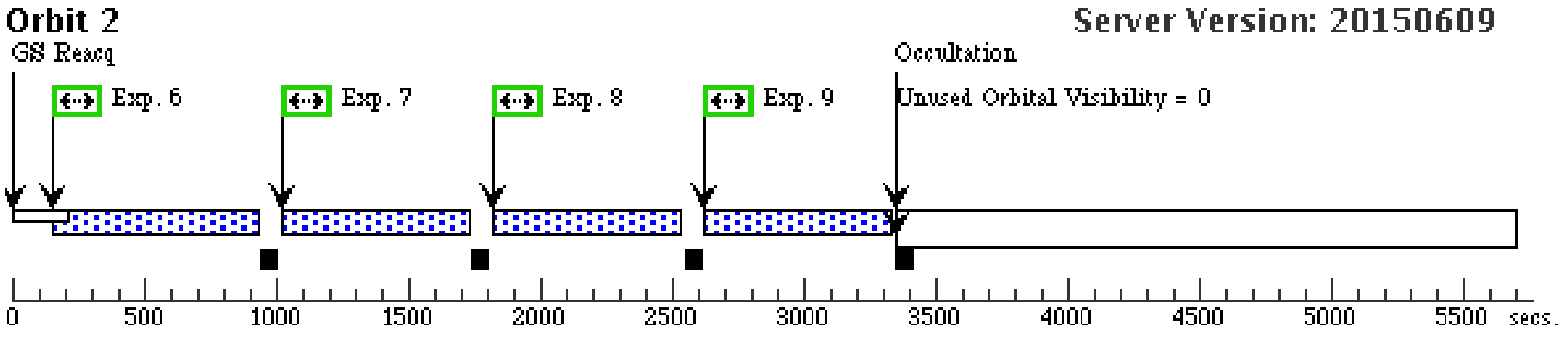
Exposures

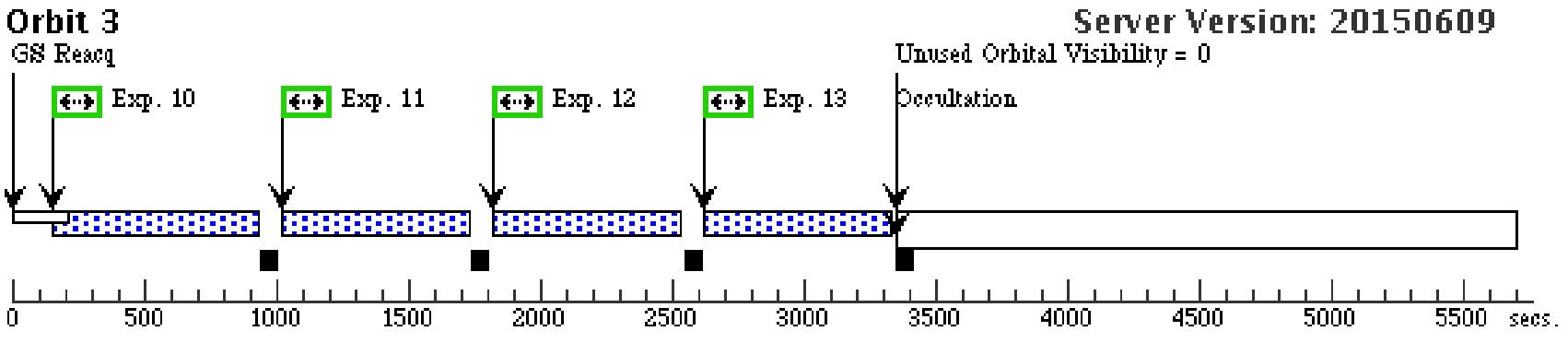
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PG1206+459-2339-ACQ/IMAGE (COS.ta.742862)	(3) PG1206+459	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				29 Secs (29 Secs) *[==>]*	***[1]***
	Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=16.46 => 29 sec* *Count rate 1020/sec*								
2	PG1206+459-a2339-1 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			601 Secs (601 Secs) *[==>]*	***[1]***
3	PG1206+459-a2339-2 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			600 Secs (600 Secs) *[==>]*	***[1]***
4	PG1206+459-a2339-3 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			600 Secs (600 Secs) *[==>]*	***[1]***
5	PG1206+459-a2339-4 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			600 Secs (600 Secs) *[==>]*	***[1]***
6	PG1206+459-b2339-1 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[2]***
7	PG1206+459-b2339-2 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
8	PG1206+459-b2339-3 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
9	PG1206+459-b2339-4 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
10	PG1206+459-c2339-1 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[3]***
11	PG1206+459-c2339-2 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***
12	PG1206+459-c2339-3 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***
13	PG1206+459-c2339-4 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***

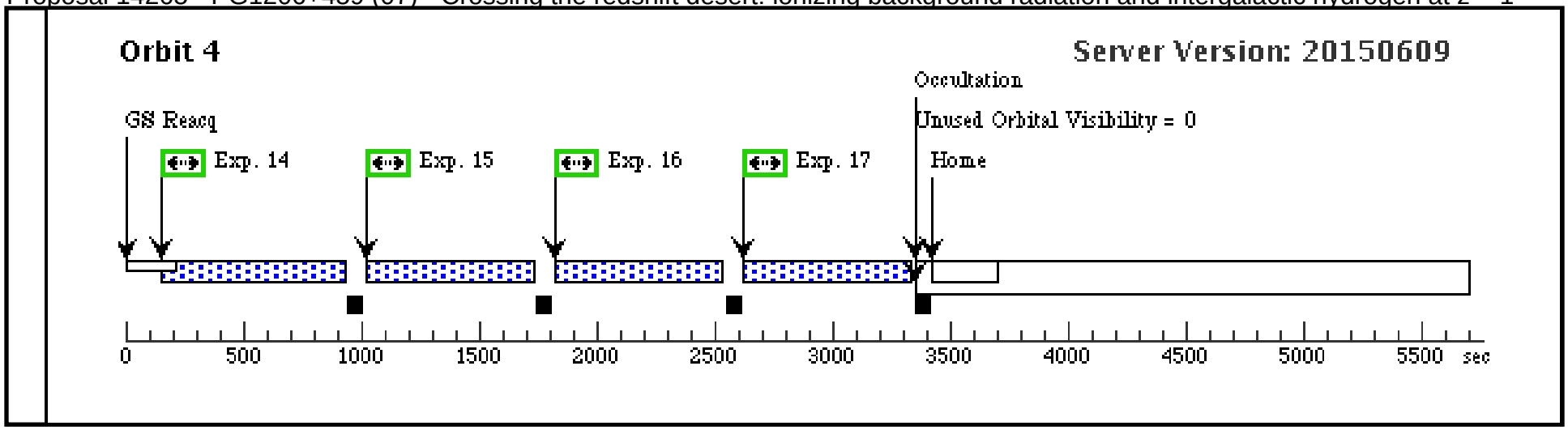
	14	PG1206+459-d2339-1 (COS.sp.72054)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554	697 Secs (697 Secs) *[==>]*	 ***[4]***
	15	PG1206+459-d2339-2 (COS.sp.72054)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554	696 Secs (696 Secs) *[==>]*	 ***[4]***
	16	PG1206+459-d2339-3 (COS.sp.72054)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554	696 Secs (696 Secs) *[==>]*	 ***[4]***
	17	PG1206+459-d2339-4 (COS.sp.72054)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554	696 Secs (696 Secs) *[==>]*	 ***[4]***

Orbit Structure





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sec

Visit

Proposal 14265, PG1206+459 (08), implementation Wed Sep 16 01:35:37 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(PG1206+459 (08)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(PG1206+459 (08)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

(PG1206+459 (08)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(PG1206+459 (08)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	PG1206+459	RA: 12 08 58.0129 (182.2417204d) Dec: +45 40 35.49 (45.67652d) Equinox: J2000	Redshift: 1.155	V=15.7 0.80E-14 erg/cm^2/s/A	Reference Frame: ICRS

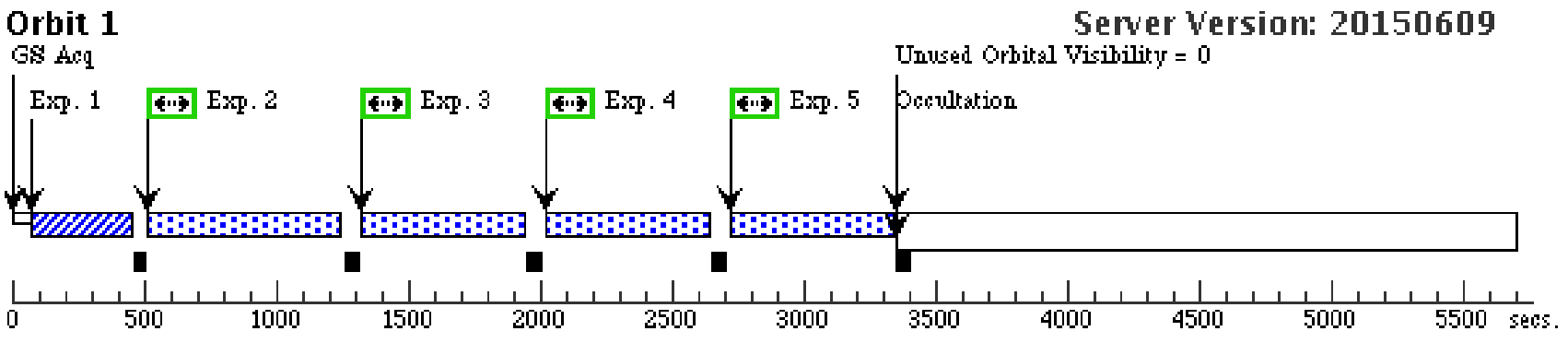
Comments: Extended=NO

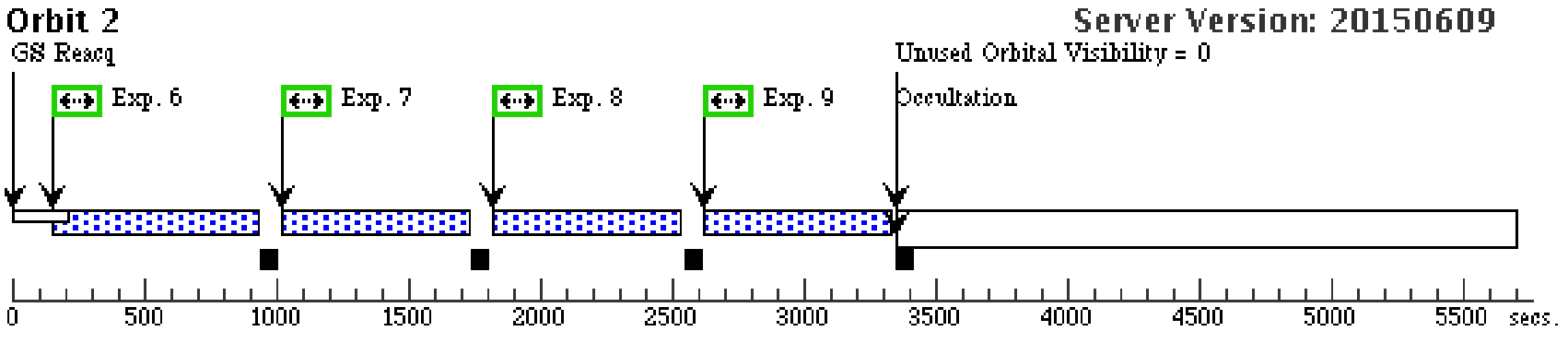
Exposures

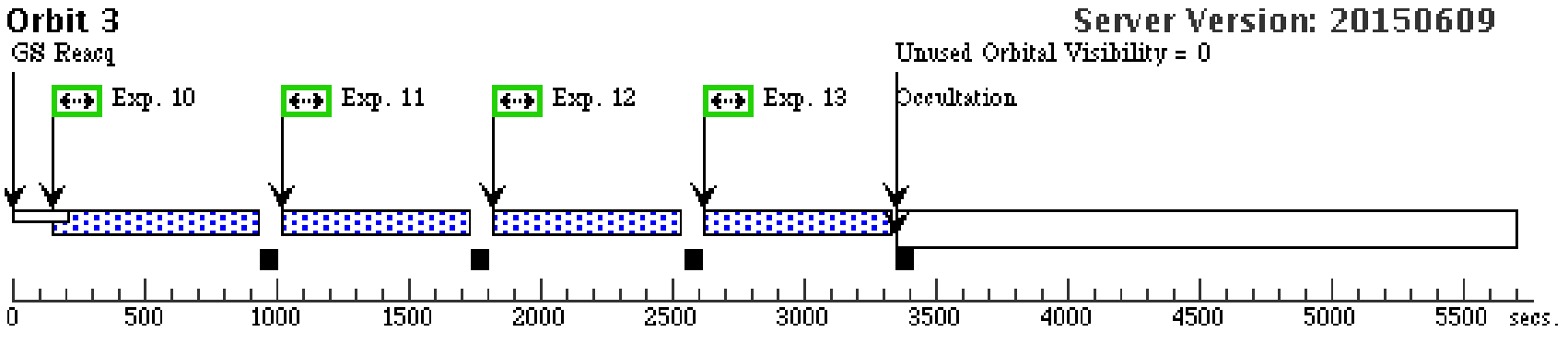
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PG1206+459-2373-ACQ/IMAGE (COS.ta.742862)	(3) PG1206+459	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				29 Secs (29 Secs) *[==>]*	***[1]***
	Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=16.46 => 29 sec* *Count rate 1020/sec*								
2	PG1206+459-a2373-1 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			601 Secs (601 Secs) *[==>]*	***[1]***
3	PG1206+459-a2373-2 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			600 Secs (600 Secs) *[==>]*	***[1]***
4	PG1206+459-a2373-3 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			600 Secs (600 Secs) *[==>]*	***[1]***
5	PG1206+459-a2373-4 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			600 Secs (600 Secs) *[==>]*	***[1]***
6	PG1206+459-b2373-1 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[2]***
7	PG1206+459-b2373-2 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
8	PG1206+459-b2373-3 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
9	PG1206+459-b2373-4 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[2]***
10	PG1206+459-c2373-1 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[3]***
11	PG1206+459-c2373-2 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***
12	PG1206+459-c2373-3 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***
13	PG1206+459-c2373-4 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	***[3]***

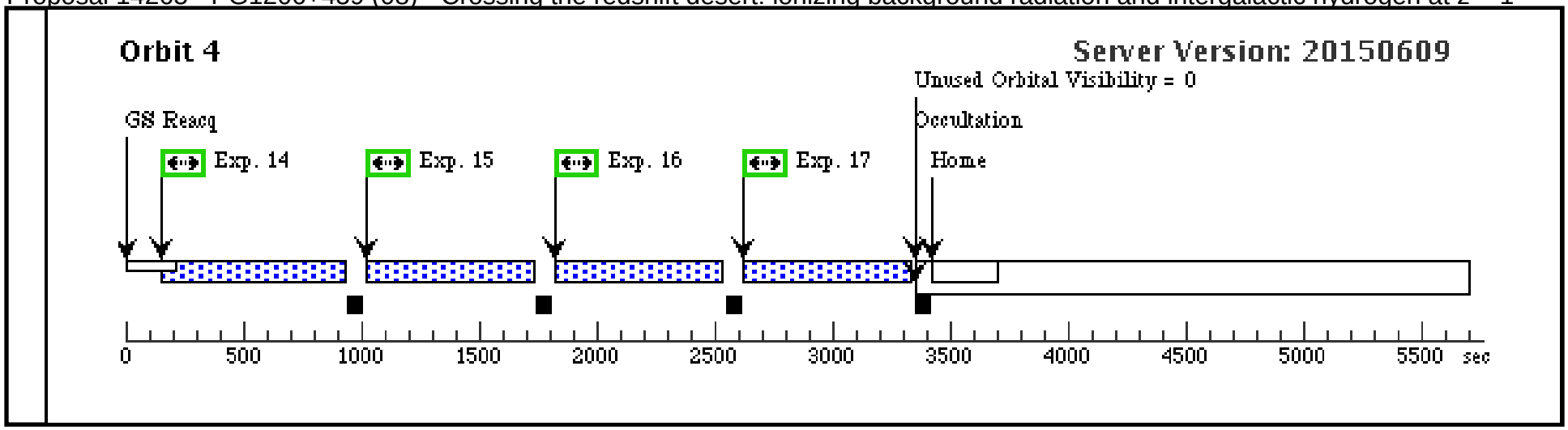
	14	PG1206+459-d2373-1 (COS.sp.72054)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554	697 Secs (697 Secs) *[==>]*	***[4]***
	15	PG1206+459-d2373-2 (COS.sp.72054)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554	696 Secs (696 Secs) *[==>]*	***[4]***
	16	PG1206+459-d2373-3 (COS.sp.72054)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554	696 Secs (696 Secs) *[==>]*	***[4]***
	17	PG1206+459-d2373-4 (COS.sp.72054)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554	696 Secs (696 Secs) *[==>]*	***[4]***

Orbit Structure





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Exp. 17
Home
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500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14265, PG1206+459 (09), implementation Wed Sep 16 01:35:37 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(PG1206+459 (09)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(PG1206+459 (09)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(PG1206+459 (09)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

(PG1206+459 (09)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(3)	PG1206+459	RA: 12 08 58.0129 (182.2417204d) Dec: +45 40 35.49 (45.67652d) Equinox: J2000	Redshift: 1.155	V=15.7 0.80E-14 erg/cm^2/s/A	Reference Frame: ICRS

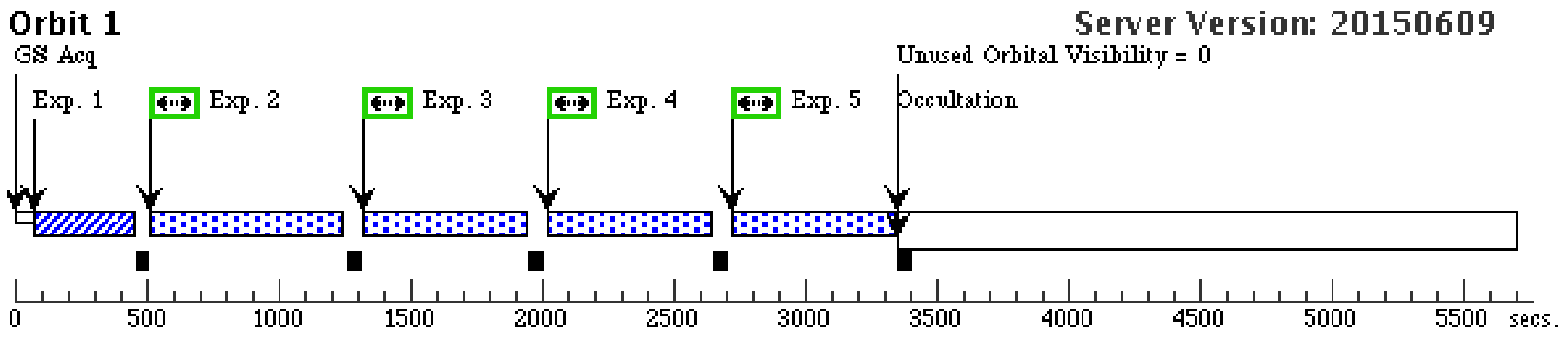
Comments: Extended=NO

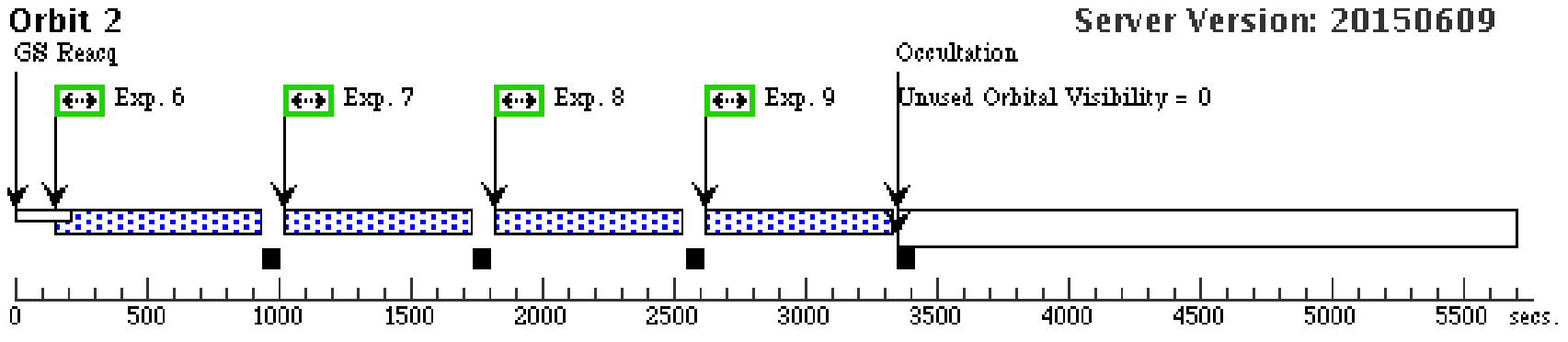
Exposures

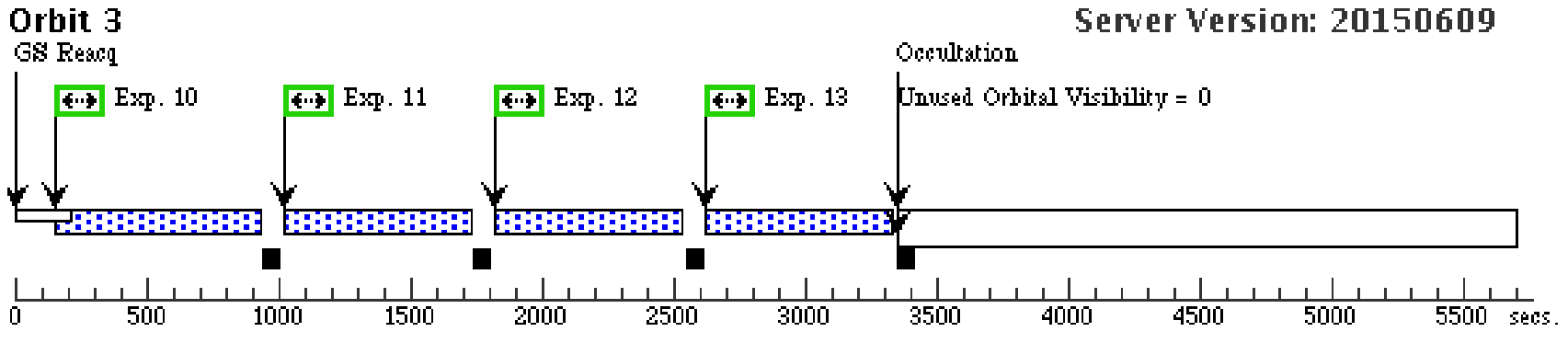
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	PG1206+459-2410-ACQ/IMAGE (COS.ta.720741)	(3) PG1206+459	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				29 Secs (29 Secs) *[==>]*	*[1]*
Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=16.46 => 29 sec*									
2	PG1206+459-a2410-1 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			601 Secs (601 Secs) *[==>]*	*[1]*
3	PG1206+459-a2410-2 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			600 Secs (600 Secs) *[==>]*	*[1]*
4	PG1206+459-a2410-3 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			600 Secs (600 Secs) *[==>]*	*[1]*
5	PG1206+459-a2410-4 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			600 Secs (600 Secs) *[==>]*	*[1]*
6	PG1206+459-b2410-1 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	*[2]*
7	PG1206+459-b2410-2 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	*[2]*
8	PG1206+459-b2410-3 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	*[2]*
9	PG1206+459-b2410-4 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	*[2]*
10	PG1206+459-c2410-1 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	*[3]*
11	PG1206+459-c2410-2 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	*[3]*
12	PG1206+459-c2410-3 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	*[3]*
13	PG1206+459-c2410-4 (COS.sp.720754)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			696 Secs (696 Secs) *[==>]*	*[3]*

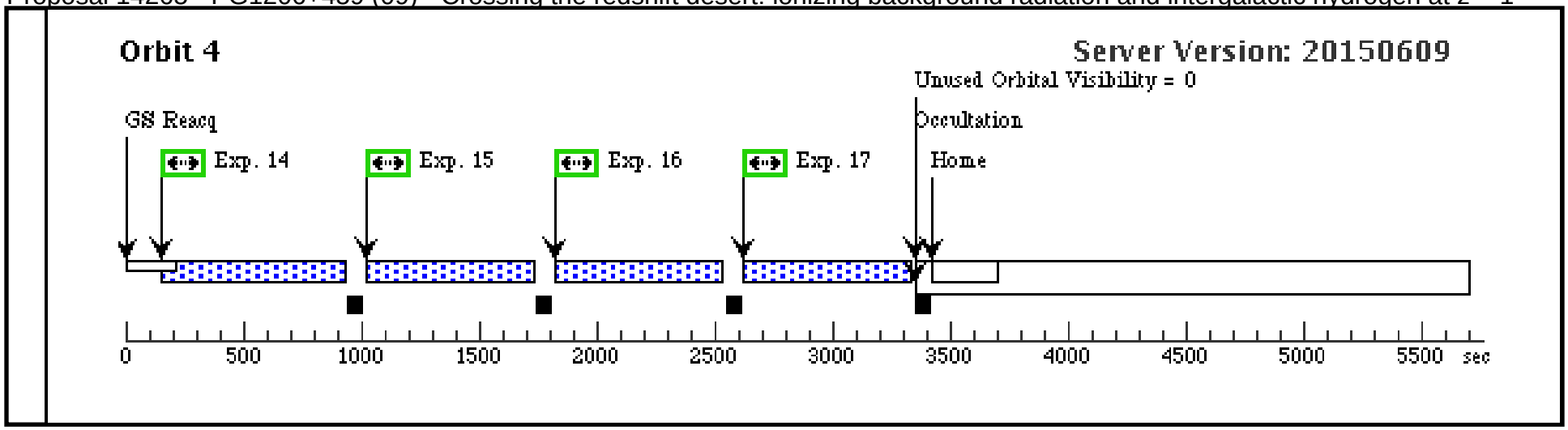
	14	PG1206+459-d2410-1 (COS.sp.72054)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554	697 Secs (697 Secs) *[==>]*	***[4]***
	15	PG1206+459-d2410-2 (COS.sp.72054)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554	696 Secs (696 Secs) *[==>]*	***[4]***
	16	PG1206+459-d2410-3 (COS.sp.72054)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554	696 Secs (696 Secs) *[==>]*	***[4]***
	17	PG1206+459-d2410-4 (COS.sp.72054)	(3) PG1206+459	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554	696 Secs (696 Secs) *[==>]*	***[4]***

Orbit Structure





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Exp. 15
Exp. 16
Exp. 17
Home
0
500
1000
1500
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2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14265, HE0331-4112 (10), implementation Wed Sep 16 01:35:37 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(HE0331-4112 (10)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE0331-4112 (10)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE0331-4112 (10)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE0331-4112 (10)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HE0331-4112	RA: 03 33 7.0500 (53.2793750d) Dec: -41 02 1.30 (-41.03369d) Equinox: J2000	Redshift: 1.117	V=16.0 0.75E-14 erg/cm^2/s/A	Reference Frame: ICRS

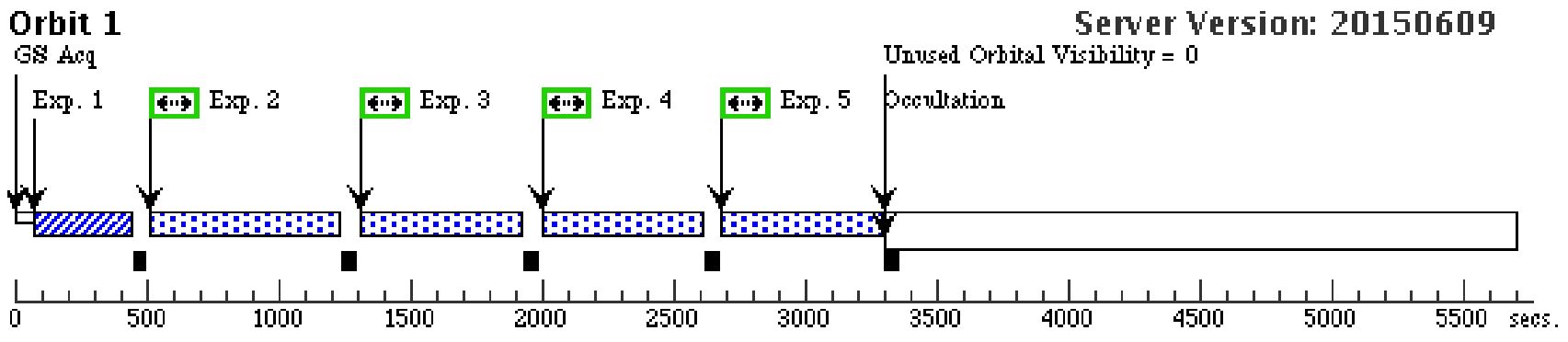
Comments: Extended=NO

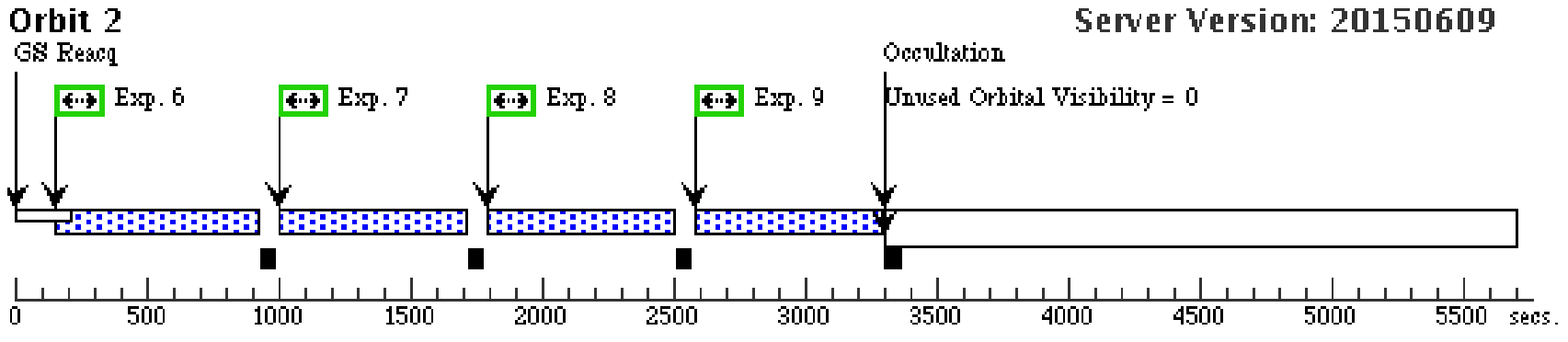
Exposures

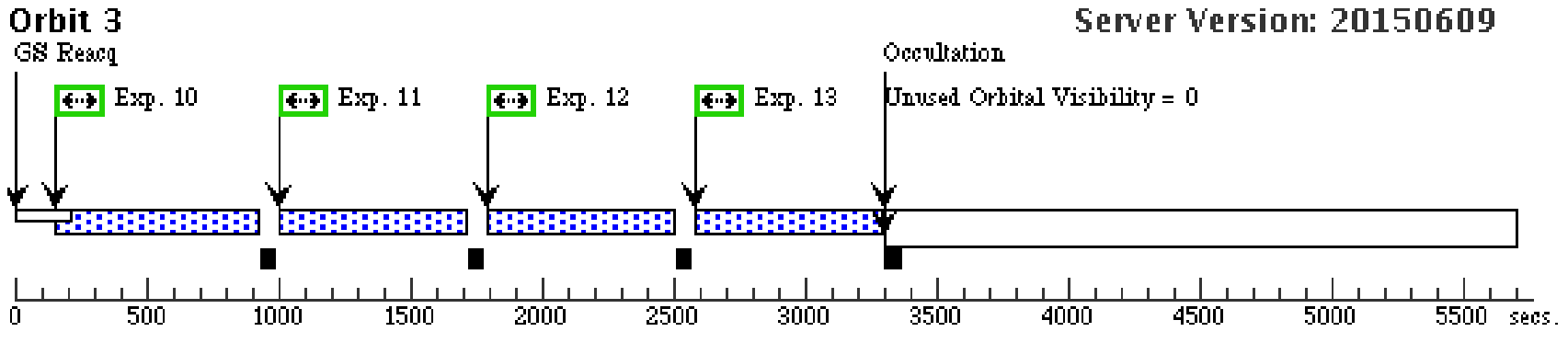
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HE0331-4112-2339-ACQ/IMAGE (COS.ta.742863)	(4) HE0331-4112	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				26 Secs (26 Secs) *[==>]*	***[1]***
	Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=16.33 => 26 sec* *Count rate 1030/sec*								
2	HE0331-4112-a2339-1 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			591 Secs (591 Secs) *[==>]*	***[1]***
3	HE0331-4112-a2339-2 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			591 Secs (591 Secs) *[==>]*	***[1]***
4	HE0331-4112-a2339-3 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			590 Secs (590 Secs) *[==>]*	***[1]***
5	HE0331-4112-a2339-4 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			590 Secs (590 Secs) *[==>]*	***[1]***
6	HE0331-4112-b2339-1 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[2]***
7	HE0331-4112-b2339-2 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[2]***
8	HE0331-4112-b2339-3 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[2]***
9	HE0331-4112-b2339-4 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[2]***
10	HE0331-4112-c2339-1 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[3]***
11	HE0331-4112-c2339-2 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[3]***
12	HE0331-4112-c2339-3 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[3]***
13	HE0331-4112-c2339-4 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[3]***

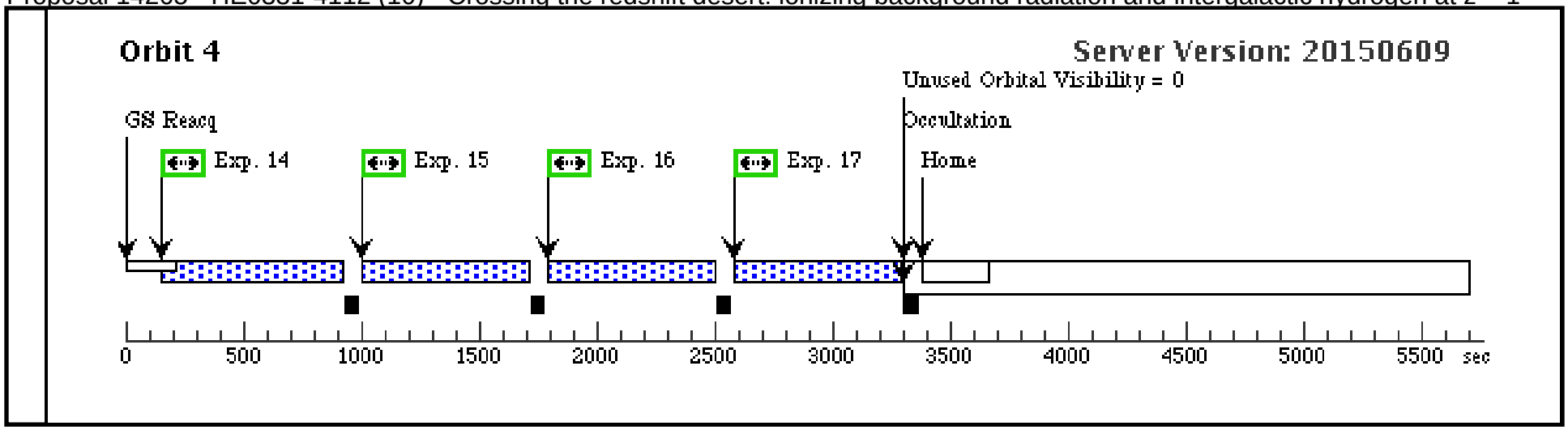
	14	HE0331-411 2-d2339-1 (COS.sp.720 754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=15 54	690 Secs (690 Secs) *[==>]*	 ***[4]***
	15	HE0331-411 2-d2339-2 (COS.sp.720 754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=15 54	690 Secs (690 Secs) *[==>]*	 ***[4]***
	16	HE0331-411 2-d2339-3 (COS.sp.720 754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=15 54	690 Secs (690 Secs) *[==>]*	 ***[4]***
	17	HE0331-411 2-d2339-4 (COS.sp.720 754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=15 54	697 Secs (697 Secs) *[==>]*	 ***[4]***

Orbit Structure





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Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 14
Exp. 15
Exp. 16
Exp. 17
Home
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1500
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3000
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4500
5000
5500
sec

Visit

Proposal 14265, HE0331-4112 (11), implementation Wed Sep 16 01:35:37 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(HE0331-4112 (11)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE0331-4112 (11)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE0331-4112 (11)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

(HE0331-4112 (11)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HE0331-4112	RA: 03 33 7.0500 (53.2793750d) Dec: -41 02 1.30 (-41.03369d) Equinox: J2000	Redshift: 1.117	V=16.0 0.75E-14 erg/cm^2/s/A	Reference Frame: ICRS

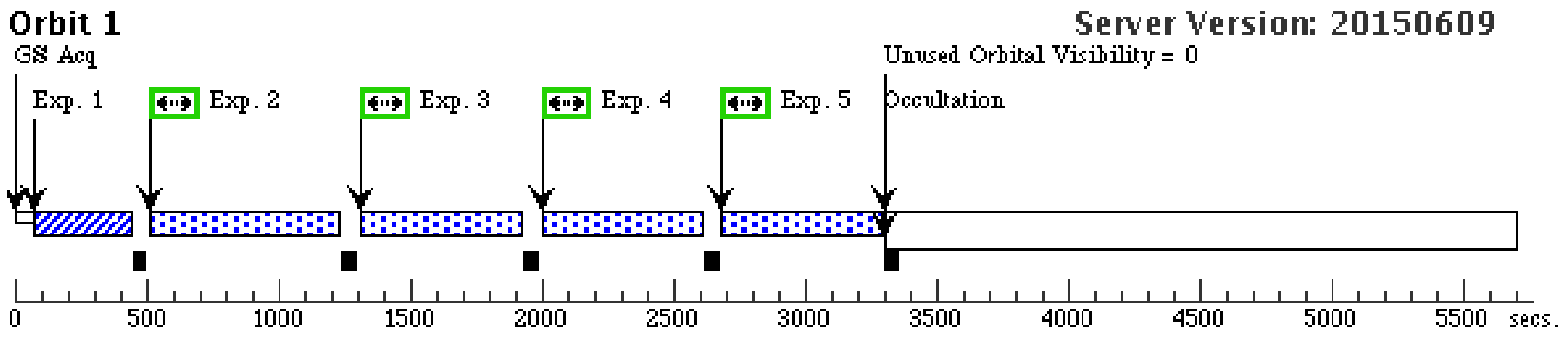
Comments: Extended=NO

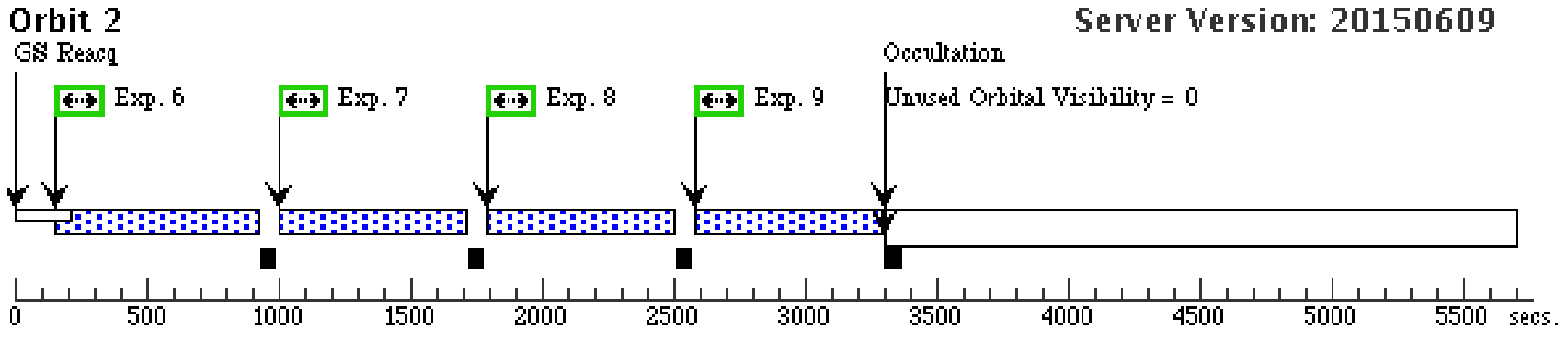
Exposures

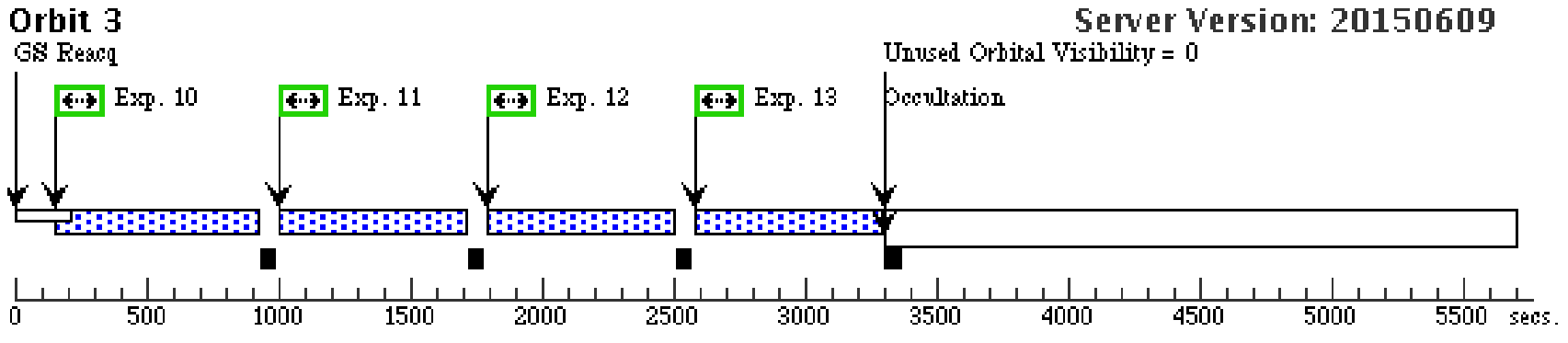
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HE0331-4112-2373-ACQ/IMAGE (COS.ta.742863)	(4) HE0331-4112	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				26 Secs (26 Secs) *[==>]*	***[1]***
	Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=16.33 => 26 sec* *Count rate 1030/sec*								
2	HE0331-4112-a2373-1 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			591 Secs (591 Secs) *[==>]*	***[1]***
3	HE0331-4112-a2373-2 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			591 Secs (591 Secs) *[==>]*	***[1]***
4	HE0331-4112-a2373-3 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			590 Secs (590 Secs) *[==>]*	***[1]***
5	HE0331-4112-a2373-4 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			590 Secs (590 Secs) *[==>]*	***[1]***
6	HE0331-4112-b2373-1 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[2]***
7	HE0331-4112-b2373-2 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[2]***
8	HE0331-4112-b2373-3 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[2]***
9	HE0331-4112-b2373-4 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[2]***
10	HE0331-4112-c2373-1 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[3]***
11	HE0331-4112-c2373-2 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[3]***
12	HE0331-4112-c2373-3 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[3]***
13	HE0331-4112-c2373-4 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[3]***

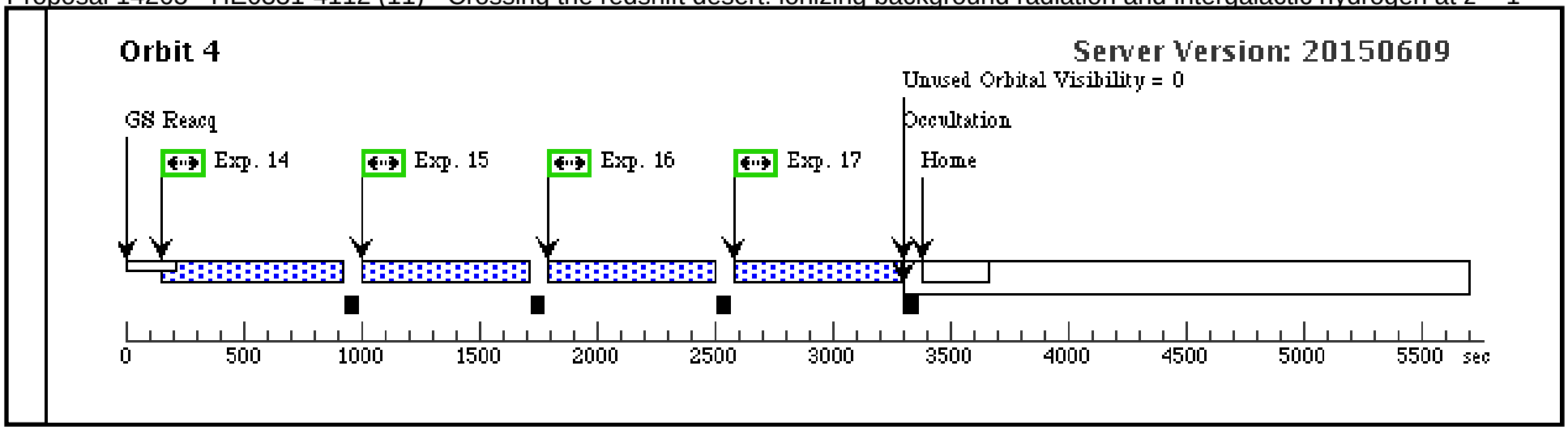
	14	HE0331-411 2-d2373-1 (COS.sp.720 754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=15 54	690 Secs (690 Secs) *[==>]*	***[4]***
	15	HE0331-411 2-d2373-2 (COS.sp.720 754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=15 54	690 Secs (690 Secs) *[==>]*	***[4]***
	16	HE0331-411 2-d2373-3 (COS.sp.720 754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=15 54	690 Secs (690 Secs) *[==>]*	***[4]***
	17	HE0331-411 2-d2373-4 (COS.sp.720 754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=15 54	697 Secs (697 Secs) *[==>]*	***[4]***

Orbit Structure





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Exp. 14
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Exp. 16
Exp. 17
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14265, HE0331-4112 (12), implementation Wed Sep 16 01:35:38 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(HE0331-4112 (12)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

(HE0331-4112 (12)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE0331-4112 (12)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE0331-4112 (12)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(4)	HE0331-4112	RA: 03 33 7.0500 (53.2793750d) Dec: -41 02 1.30 (-41.03369d) Equinox: J2000	Redshift: 1.117	V=16.0 0.75E-14 erg/cm^2/s/A	Reference Frame: ICRS

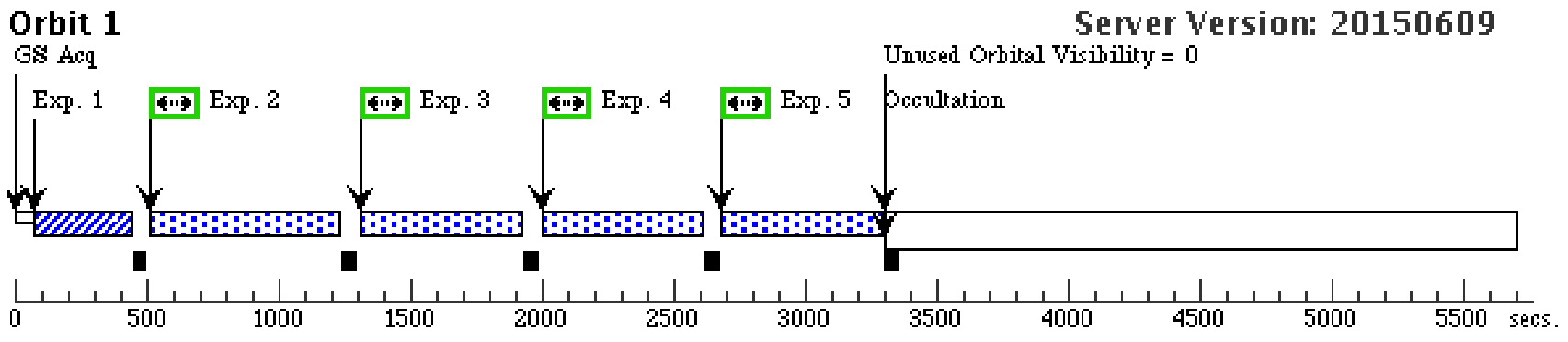
Comments: Extended=NO

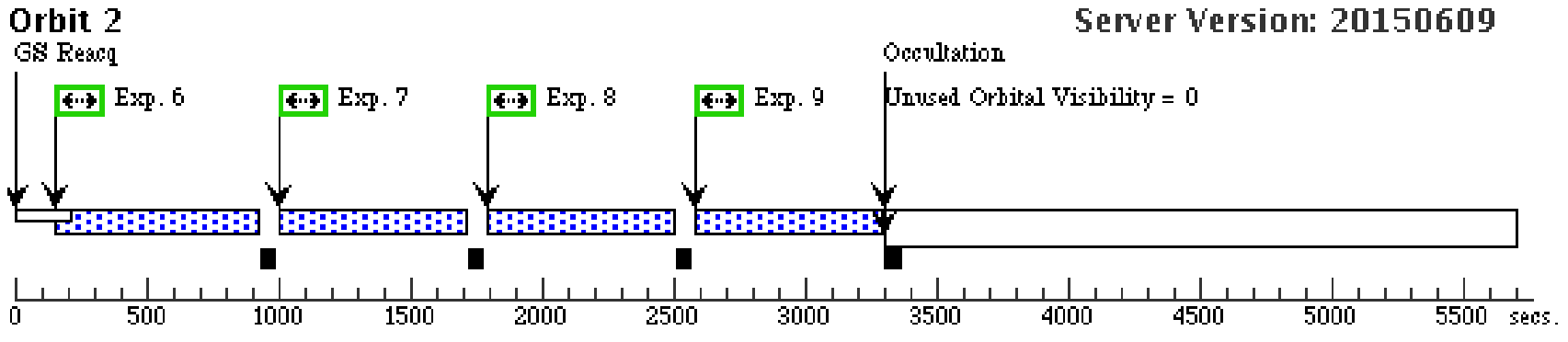
Exposures

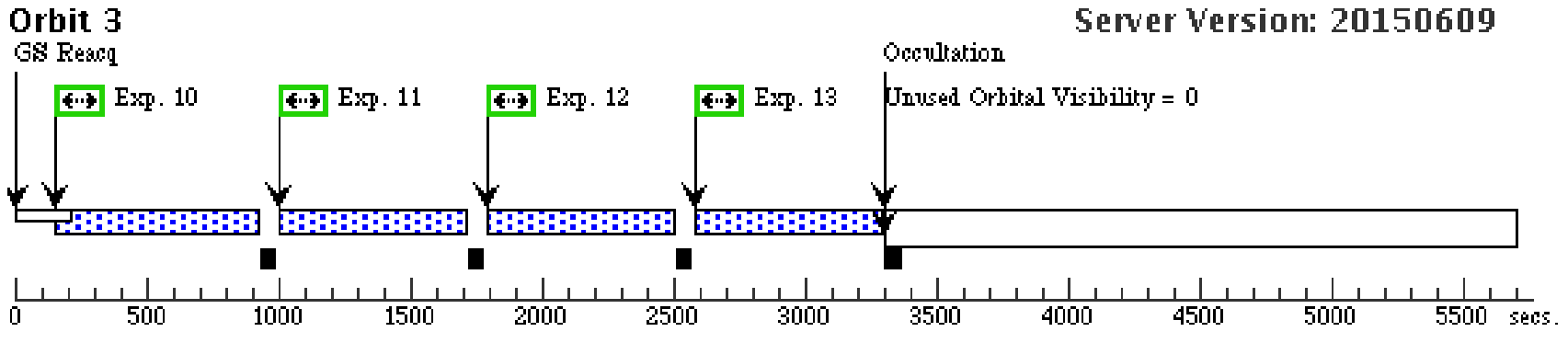
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HE0331-4112-2410-ACQ/IMAGE (COS.ta.720742)	(4) HE0331-4112	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				26 Secs (26 Secs) *[==>]*	***[1]***
Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=16.33 => 26 sec* *Count rate 1030/sec*									
2	HE0331-4112-a2410-1 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			591 Secs (591 Secs) *[==>]*	***[1]***
3	HE0331-4112-a2410-2 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			591 Secs (591 Secs) *[==>]*	***[1]***
4	HE0331-4112-a2410-3 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			590 Secs (590 Secs) *[==>]*	***[1]***
5	HE0331-4112-a2410-4 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			590 Secs (590 Secs) *[==>]*	***[1]***
6	HE0331-4112-b2410-1 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[2]***
7	HE0331-4112-b2410-2 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[2]***
8	HE0331-4112-b2410-3 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[2]***
9	HE0331-4112-b2410-4 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[2]***
10	HE0331-4112-c2410-1 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[3]***
11	HE0331-4112-c2410-2 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[3]***
12	HE0331-4112-c2410-3 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			690 Secs (690 Secs) *[==>]*	***[3]***
13	HE0331-4112-c2410-4 (COS.sp.720754)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			697 Secs (697 Secs) *[==>]*	***[3]***

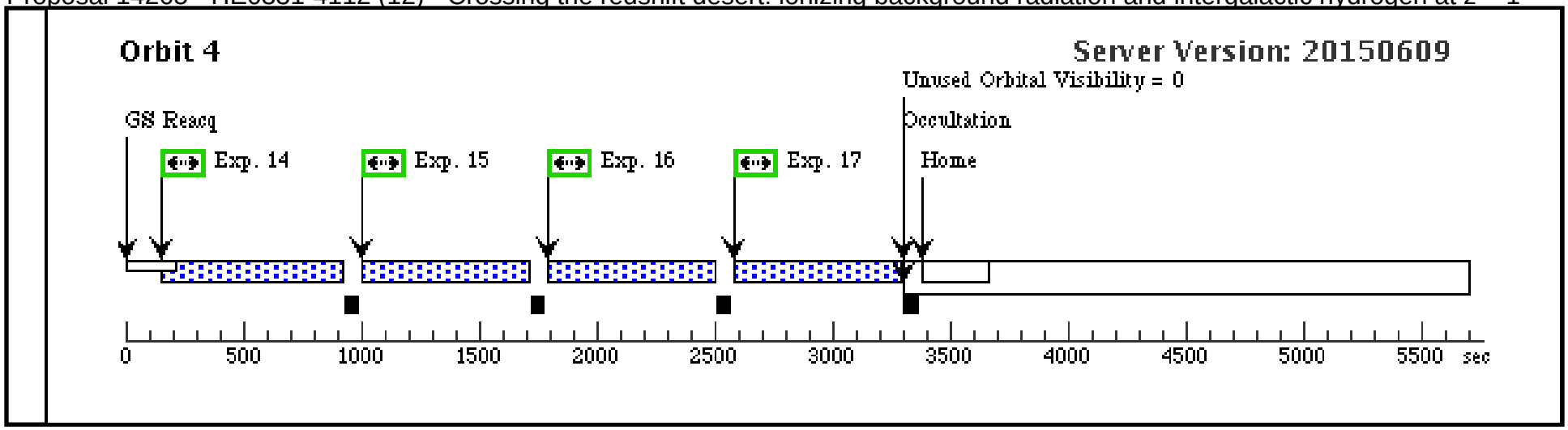
	14	HE0331-4112-d2410-1 (COS.sp.72054)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554	690 Secs (690 Secs) *[==>]*	 ***[4]***
	15	HE0331-4112-d2410-2 (COS.sp.72054)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554	690 Secs (690 Secs) *[==>]*	 ***[4]***
	16	HE0331-4112-d2410-3 (COS.sp.72054)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554	690 Secs (690 Secs) *[==>]*	 ***[4]***
	17	HE0331-4112-d2410-4 (COS.sp.72054)	(4) HE0331-4112	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554	697 Secs (697 Secs) *[==>]*	 ***[4]***

Orbit Structure





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Occultation
Exp. 14
Exp. 15
Exp. 16
Exp. 17
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14265, HE1211-1322 (13), implementation Wed Sep 16 01:35:38 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(HE1211-1322 (13)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE1211-1322 (13)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE1211-1322 (13)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE1211-1322 (13)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HE1211-1322	RA: 12 13 46.3265 (183.4430271d) Dec: -13 38 51.44 (-13.64762d) Equinox: J2000	Redshift: 1.125	V=15.2 0.64E-14 erg/cm^2/s/A	Reference Frame: ICRS

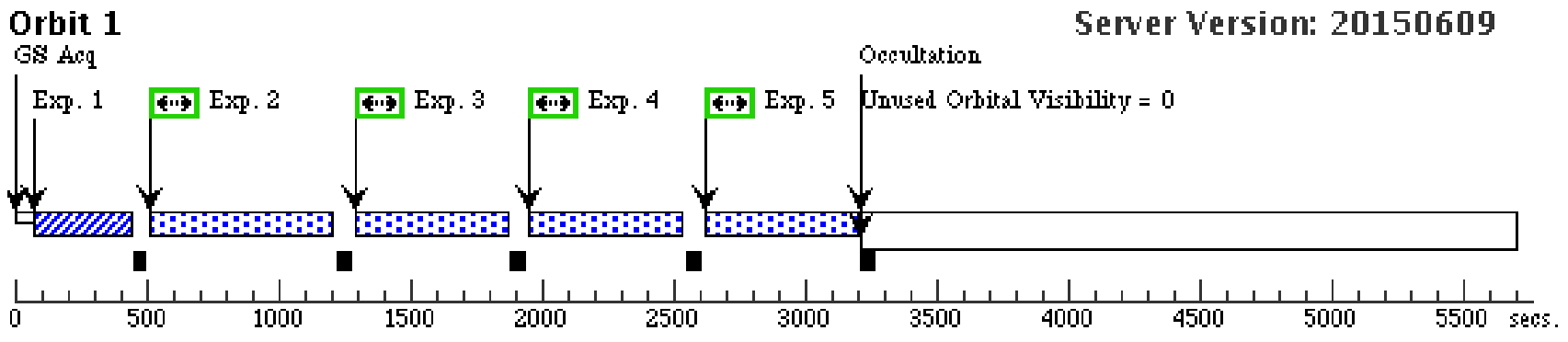
Comments: Extended=NO

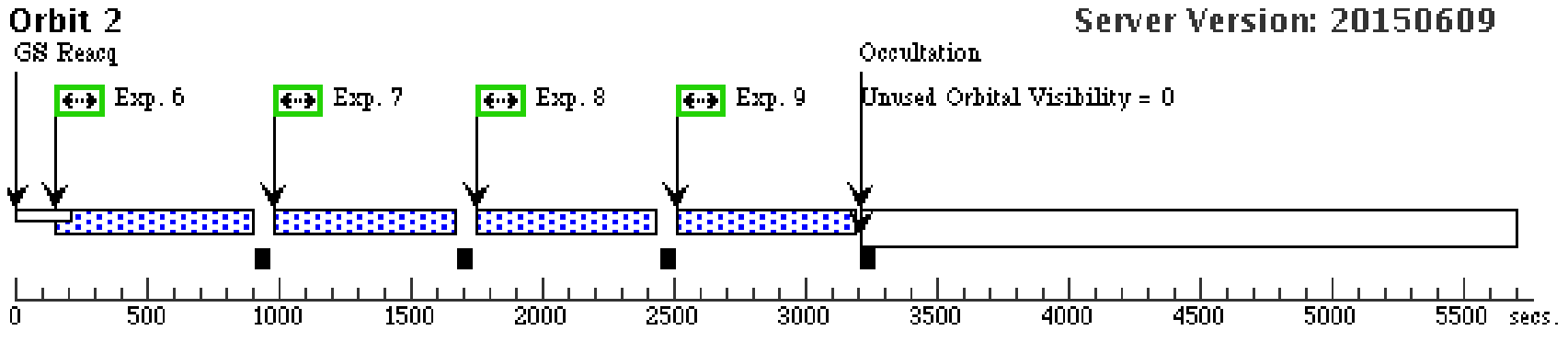
Exposures

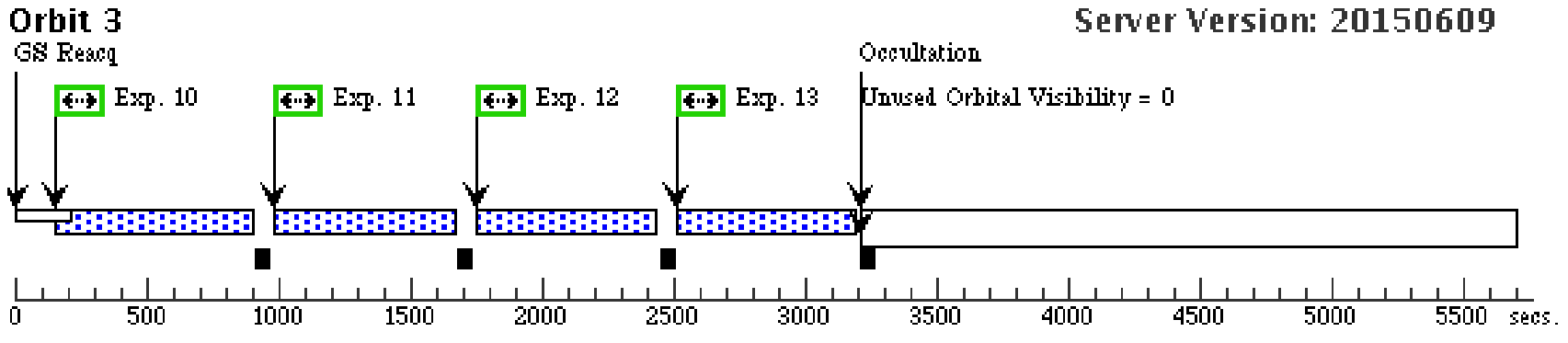
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HE1211-1322-2339-ACQ/IMAGE (COS.ta.742864)	(5) HE1211-1322	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				27 Secs (27 Secs) *[==>]*	***[1]***
	Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=16.38 => 27 sec* *Count rate 1026/sec*								
2	HE1211-1322-a2339-1 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			568 Secs (568 Secs) *[==>]*	***[1]***
3	HE1211-1322-a2339-2 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			568 Secs (568 Secs) *[==>]*	***[1]***
4	HE1211-1322-a2339-3 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			568 Secs (568 Secs) *[==>]*	***[1]***
5	HE1211-1322-a2339-4 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			567 Secs (567 Secs) *[==>]*	***[1]***
6	HE1211-1322-b2339-1 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[2]***
7	HE1211-1322-b2339-2 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[2]***
8	HE1211-1322-b2339-3 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			669 Secs (669 Secs) *[==>]*	***[2]***
9	HE1211-1322-b2339-4 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			669 Secs (669 Secs) *[==>]*	***[2]***
10	HE1211-1322-c2339-1 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[3]***
11	HE1211-1322-c2339-2 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[3]***
12	HE1211-1322-c2339-3 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=1554			669 Secs (669 Secs) *[==>]*	***[3]***
13	HE1211-1322-c2339-4 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=1554			669 Secs (669 Secs) *[==>]*	***[3]***

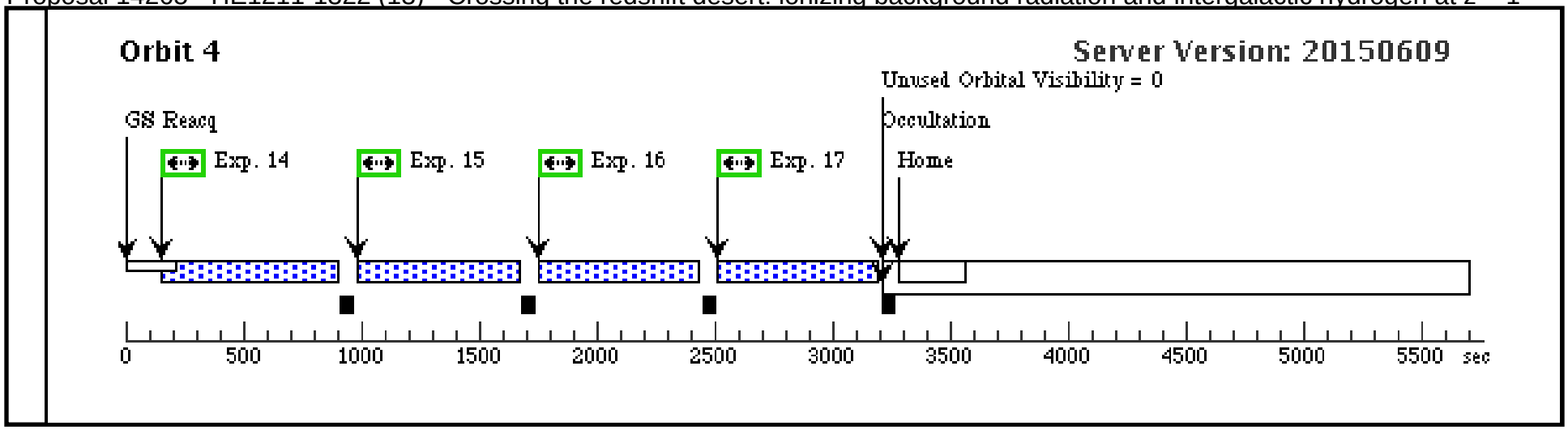
	14	HE1211-132 2-d2339-1 (COS.sp.720 755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=1; BUFFER-TIME=15 54	670 Secs (670 Secs) *[==>]*	***[4]***
	15	HE1211-132 2-d2339-2 (COS.sp.720 755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=2; BUFFER-TIME=15 54	670 Secs (670 Secs) *[==>]*	***[4]***
	16	HE1211-132 2-d2339-3 (COS.sp.720 755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=3; BUFFER-TIME=15 54	669 Secs (669 Secs) *[==>]*	***[4]***
	17	HE1211-132 2-d2339-4 (COS.sp.720 755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2339 A	FP-POS=4; BUFFER-TIME=15 54	669 Secs (669 Secs) *[==>]*	***[4]***

Orbit Structure








Orbit 4
Server Version: 20150609
Unused Orbital Visibility = 0
GS Reacq
Occultation
Exp. 14
Exp. 15
Exp. 16
Exp. 17
Home
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14265, HE1211-1322 (14), implementation Wed Sep 16 01:35:38 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(HE1211-1322 (14)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE1211-1322 (14)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE1211-1322 (14)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE1211-1322 (14)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HE1211-1322	RA: 12 13 46.3265 (183.4430271d) Dec: -13 38 51.44 (-13.64762d) Equinox: J2000	Redshift: 1.125	V=15.2 0.64E-14 erg/cm^2/s/A	Reference Frame: ICRS

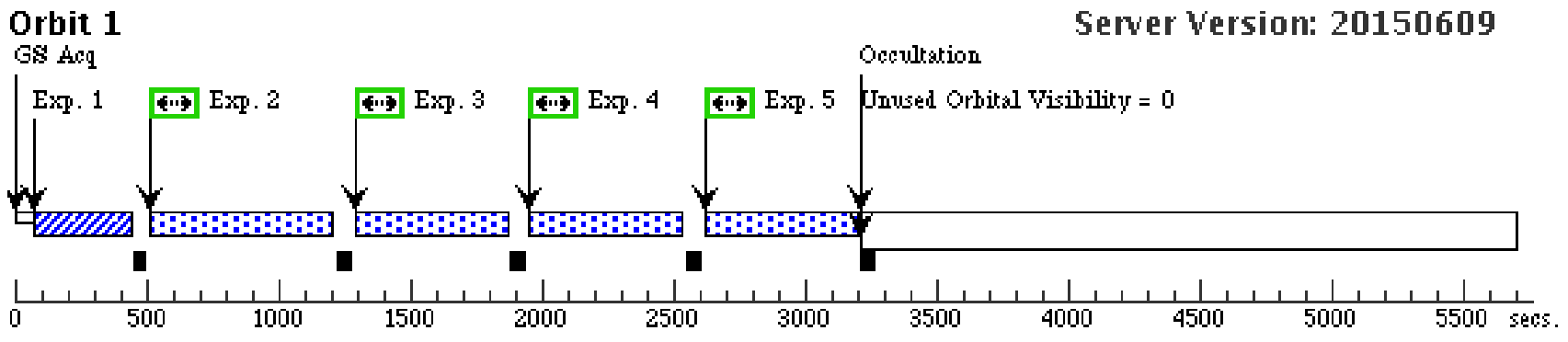
Comments: Extended=NO

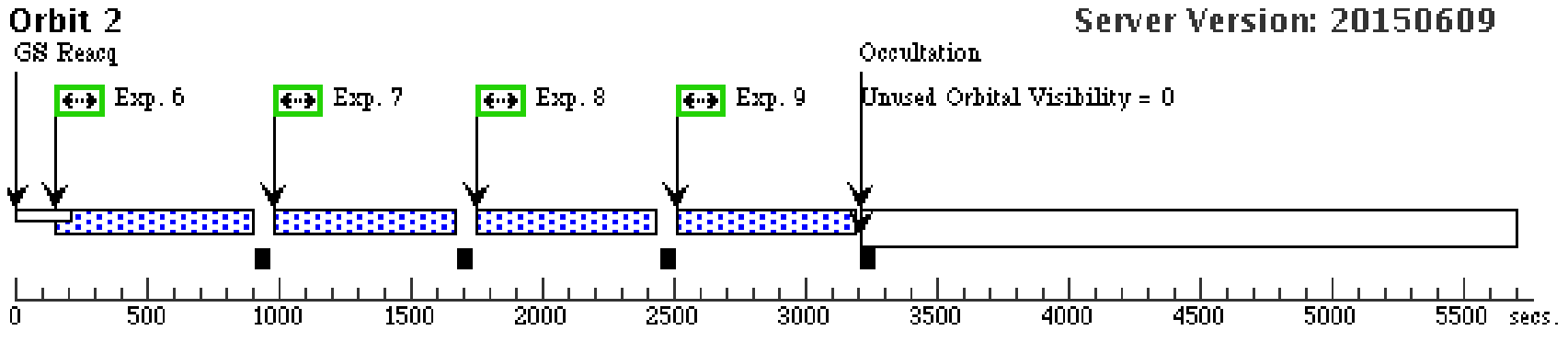
Exposures

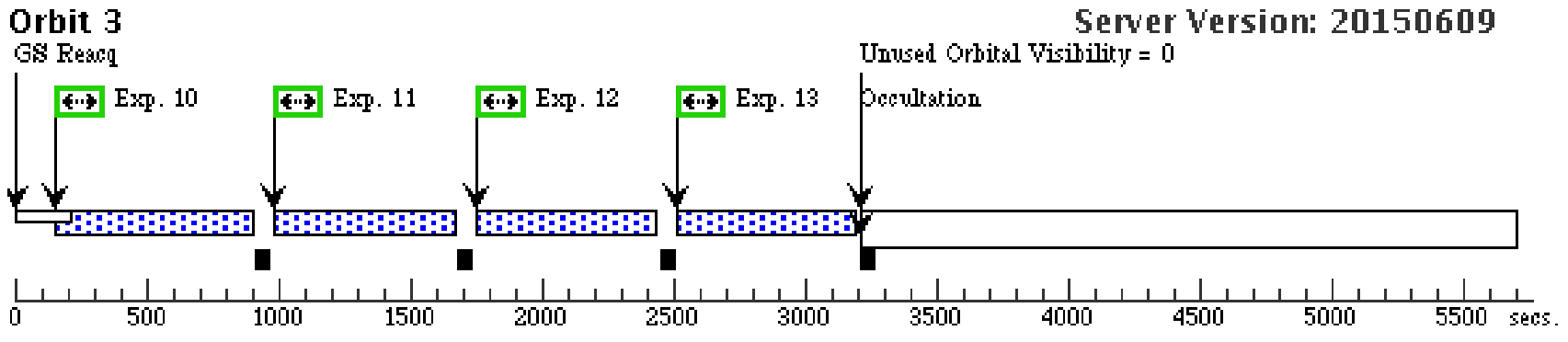
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HE1211-1322-2373-ACQ/IMAGE (COS.ta.720743)	(5) HE1211-1322	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				27 Secs (27 Secs) *[==>]*	***[1]***
	Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=16.38 => 27 sec* *Count rate 1026/sec*								
2	HE1211-1322-a2373-1 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			568 Secs (568 Secs) *[==>]*	***[1]***
3	HE1211-1322-a2373-2 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			568 Secs (568 Secs) *[==>]*	***[1]***
4	HE1211-1322-a2373-3 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			568 Secs (568 Secs) *[==>]*	***[1]***
5	HE1211-1322-a2373-4 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			567 Secs (567 Secs) *[==>]*	***[1]***
6	HE1211-1322-b2373-1 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[2]***
7	HE1211-1322-b2373-2 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[2]***
8	HE1211-1322-b2373-3 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			669 Secs (669 Secs) *[==>]*	***[2]***
9	HE1211-1322-b2373-4 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			669 Secs (669 Secs) *[==>]*	***[2]***
10	HE1211-1322-c2373-1 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[3]***
11	HE1211-1322-c2373-2 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[3]***
12	HE1211-1322-c2373-3 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=1554			669 Secs (669 Secs) *[==>]*	***[3]***
13	HE1211-1322-c2373-4 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=1554			669 Secs (669 Secs) *[==>]*	***[3]***

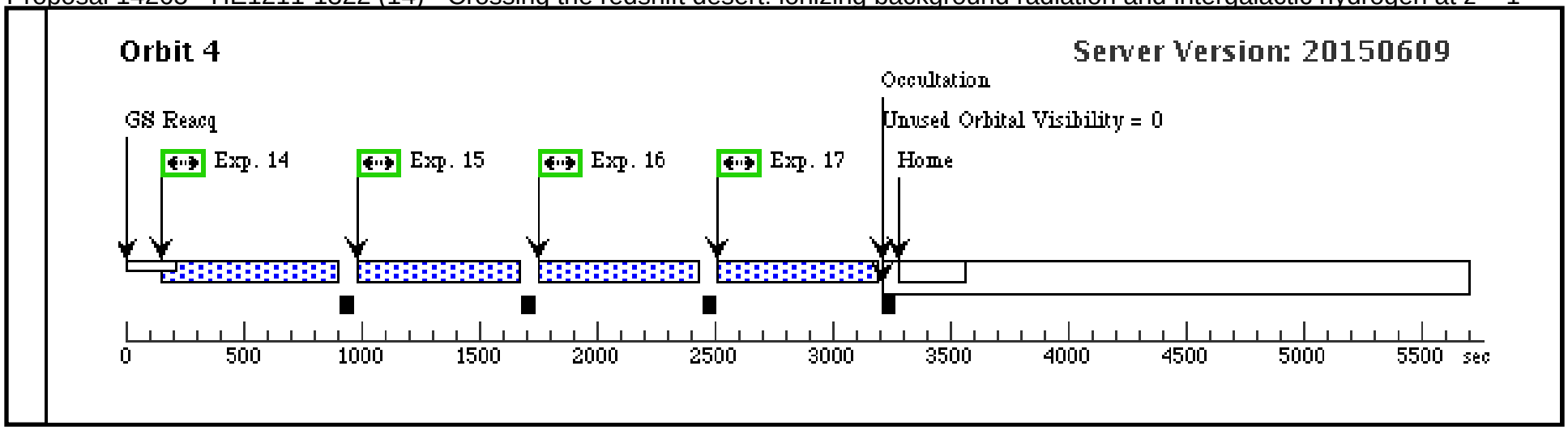
	14	HE1211-132 2-d2373-1 (COS.sp.720 755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=1; BUFFER-TIME=15 54	670 Secs (670 Secs) *[==>]*	***[4]***
	15	HE1211-132 2-d2373-2 (COS.sp.720 755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=2; BUFFER-TIME=15 54	670 Secs (670 Secs) *[==>]*	***[4]***
	16	HE1211-132 2-d2373-3 (COS.sp.720 755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=3; BUFFER-TIME=15 54	669 Secs (669 Secs) *[==>]*	***[4]***
	17	HE1211-132 2-d2373-4 (COS.sp.720 755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2373 A	FP-POS=4; BUFFER-TIME=15 54	669 Secs (669 Secs) *[==>]*	***[4]***

Orbit Structure





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1500
2000
2500
3000
3500
4000
4500
5000
5500
sec

Visit

Proposal 14265, HE1211-1322 (15), implementation Wed Sep 16 01:35:38 GMT 2015

Diagnostic Status: Warning

Scientific Instruments: COS/NUV

Special Requirements: (none)

Diagnostics

(HE1211-1322 (15)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE1211-1322 (15)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

(HE1211-1322 (15)) Warning (Form): If the target coordinates are not known to 0.4" (or better), an ACQ/SEARCH should precede the ACQ/IMAGE.

(HE1211-1322 (15)) Warning (Orbit Planner): INEFFICIENT ORDERING OF FP-POS POSITIONS

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(5)	HE1211-1322	RA: 12 13 46.3265 (183.4430271d) Dec: -13 38 51.44 (-13.64762d) Equinox: J2000	Redshift: 1.125	V=15.2 0.64E-14 erg/cm^2/s/A	Reference Frame: ICRS

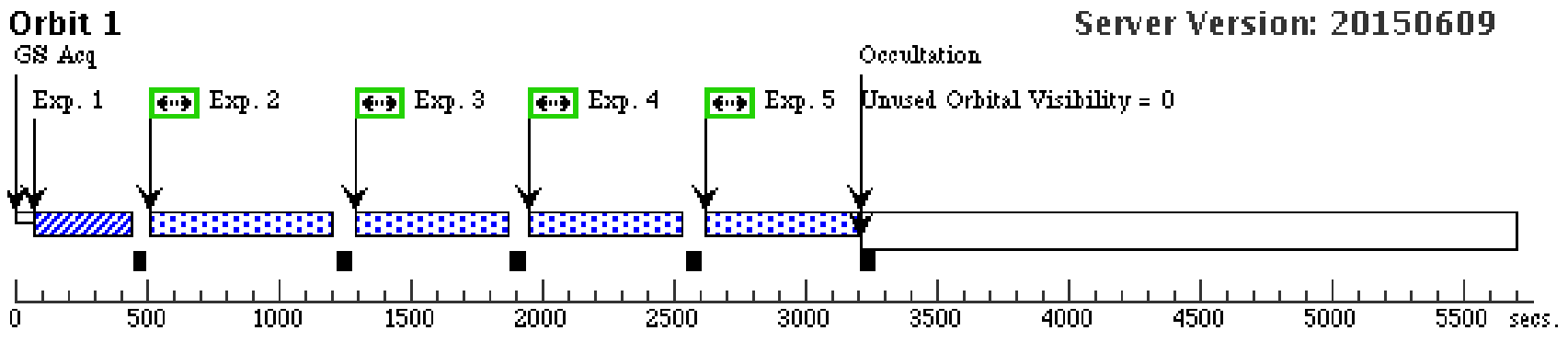
Comments: Extended=NO

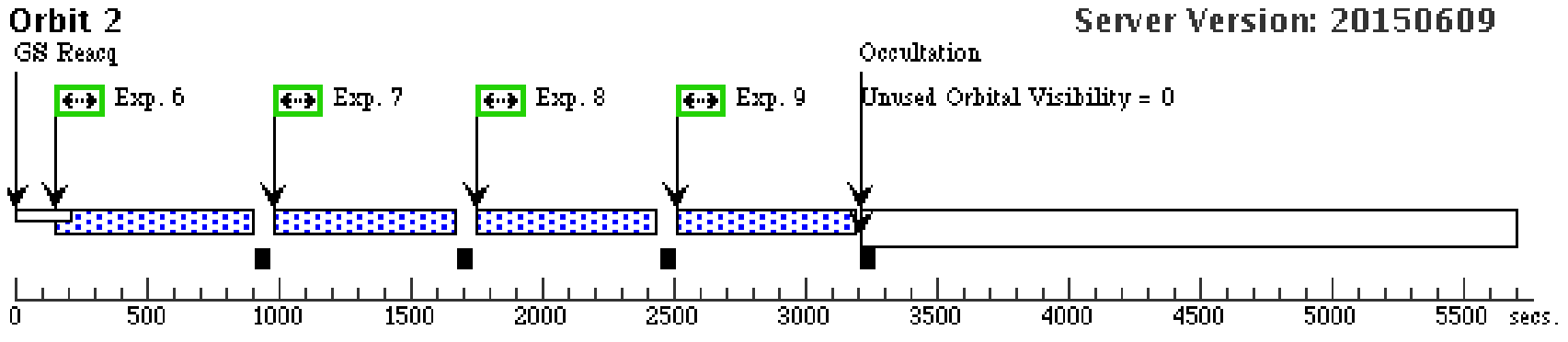
Exposures

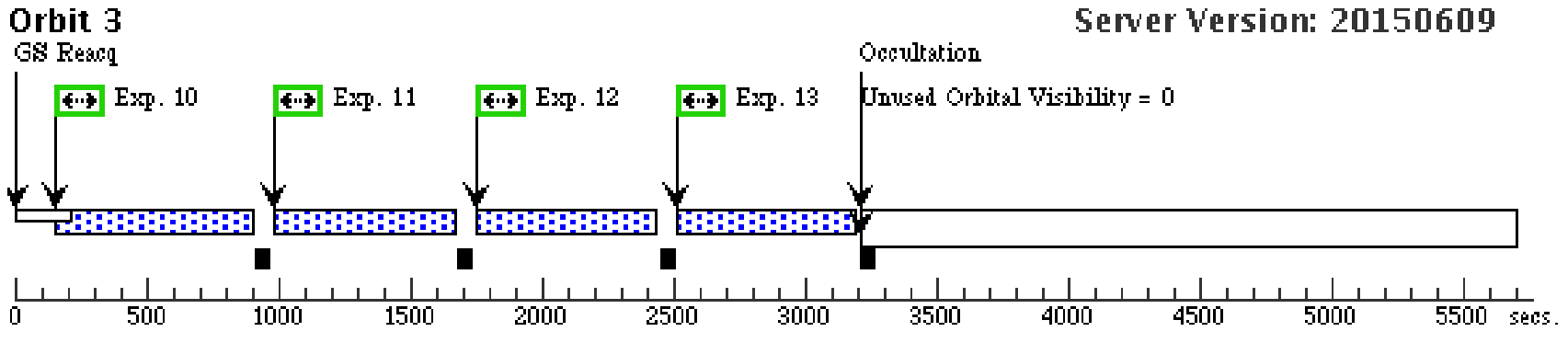
#	Label (ETC Run)	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1	HE1211-1322-2410-ACQ/IMAGE (COS.ta.720743)	(5) HE1211-1322	COS/NUV, ACQ/IMAGE, PSA	MIRRORB				27 Secs (27 Secs) *[==>]*	***[1]***
	Comments: NUV acquisition exposure *COS ETC result for S/N=40; GALEX M(NUV)=16.38 => 27 sec* *Count rate 1026/sec*								
2	HE1211-1322-a2410-1 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			568 Secs (568 Secs) *[==>]*	***[1]***
3	HE1211-1322-a2410-2 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			568 Secs (568 Secs) *[==>]*	***[1]***
4	HE1211-1322-a2410-3 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			568 Secs (568 Secs) *[==>]*	***[1]***
5	HE1211-1322-a2410-4 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			567 Secs (567 Secs) *[==>]*	***[1]***
6	HE1211-1322-b2410-1 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[2]***
7	HE1211-1322-b2410-2 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[2]***
8	HE1211-1322-b2410-3 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			669 Secs (669 Secs) *[==>]*	***[2]***
9	HE1211-1322-b2410-4 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			669 Secs (669 Secs) *[==>]*	***[2]***
10	HE1211-1322-c2410-1 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[3]***
11	HE1211-1322-c2410-2 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=1554			670 Secs (670 Secs) *[==>]*	***[3]***
12	HE1211-1322-c2410-3 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=1554			669 Secs (669 Secs) *[==>]*	***[3]***
13	HE1211-1322-c2410-4 (COS.sp.720755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=1554			669 Secs (669 Secs) *[==>]*	***[3]***

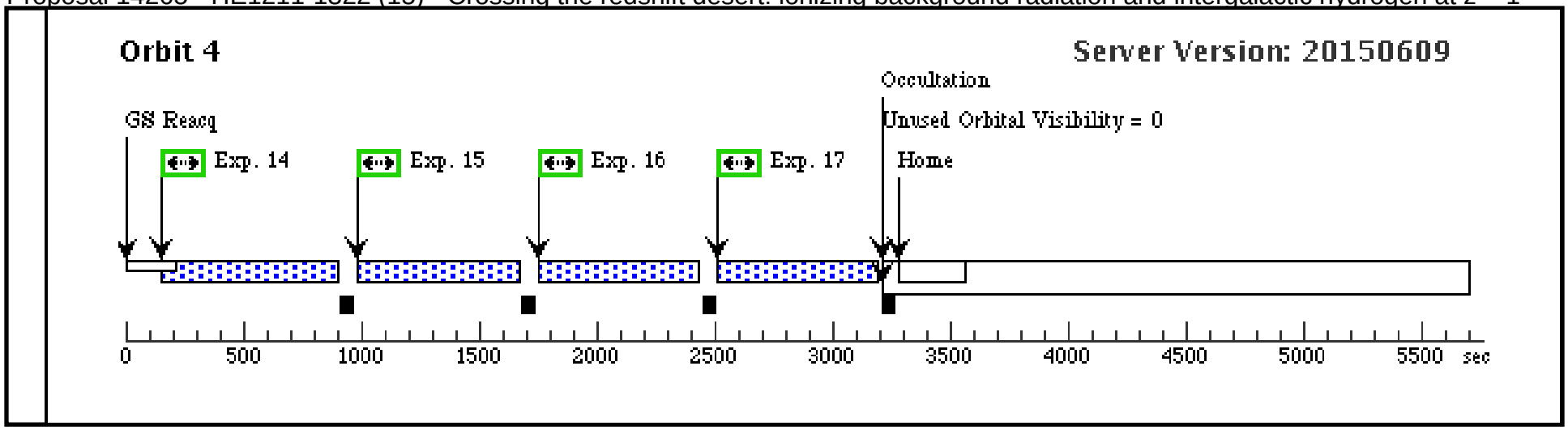
	14	HE1211-132 2-d2410-1 (COS.sp.720 755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=1; BUFFER-TIME=15 54	670 Secs (670 Secs) *[==>]*	***[4]***
	15	HE1211-132 2-d2410-2 (COS.sp.720 755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=2; BUFFER-TIME=15 54	670 Secs (670 Secs) *[==>]*	***[4]***
	16	HE1211-132 2-d2410-3 (COS.sp.720 755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=3; BUFFER-TIME=15 54	669 Secs (669 Secs) *[==>]*	***[4]***
	17	HE1211-132 2-d2410-4 (COS.sp.720 755)	(5) HE1211-1322	COS/NUV, TIME-TAG, PSA	G225M 2410 A	FP-POS=4; BUFFER-TIME=15 54	669 Secs (669 Secs) *[==>]*	***[4]***

Orbit Structure





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Exp. 16
Exp. 17
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sec