



12275 - Measuring gas flow rates in the Milky Way

Cycle: 18, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

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VISITS

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
01	(1) MRK380	COS/FUV	2	06-Jul-2011 21:06:44.0	yes
02	(2) RXJ07145+7408	COS/FUV	3	06-Jul-2011 21:06:50.0	yes
03	(3) 4C10.08	COS/FUV	3	06-Jul-2011 21:06:56.0	yes
04	(4) SDSSJ014143.20+134032.0	COS/FUV	3	06-Jul-2011 21:07:03.0	yes
05	(5) MRK595	COS/FUV	3	06-Jul-2011 21:07:07.0	yes
06	(6) HS1831+5338	COS/FUV	3	06-Jul-2011 21:07:12.0	yes
07	(7) MRK504	COS/FUV	2	06-Jul-2011 21:07:17.0	yes
08	(8) NVSSJ15251-1714	COS/FUV	3	06-Jul-2011 21:07:21.0	yes
58	(8) NVSSJ15251-1714	COS/FUV	3	06-Jul-2011 21:07:26.0	yes
09	(9) RXSJ09565-0452	COS/FUV	3	06-Jul-2011 21:07:31.0	yes
10	(10) MCG-02-16-004	COS/FUV	3	06-Jul-2011 21:07:35.0	yes
11	(11) PKS1101-325	COS/FUV	2	06-Jul-2011 21:07:41.0	yes

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
12	(12) ESO267-013	COS/FUV	3	06-Jul-2011 21:07:46.0	yes
13	(13) ESO265-G23	COS/FUV	1	06-Jul-2011 21:07:50.0	yes
14	(14) UM428	COS/FUV	3	06-Jul-2011 21:07:55.0	yes
15	(15) HE1159-1338	COS/FUV	3	06-Jul-2011 21:08:00.0	yes
65	(15) HE1159-1338	COS/FUV	3	06-Jul-2011 21:08:04.0	yes
16	(16) PKS1136-13	COS/FUV	3	06-Jul-2011 21:08:08.0	yes
17	(17) HE0429-5343	COS/FUV	1	06-Jul-2011 21:08:12.0	yes
18	(18) PG1112+431	COS/FUV	3	06-Jul-2011 21:08:16.0	yes
19	(19) TON1187	COS/FUV	1	06-Jul-2011 21:08:20.0	yes
20	(20) PG0044+030	COS/FUV	1	06-Jul-2011 21:08:23.0	yes

55 Total Orbits Used

ABSTRACT

Gas flows out of and into the Milky Way are a crucial element in its evolution. Supernovae heat gas in the disk and lift it into the halo. Tidal streams and instabilities in the hot Galactic corona result in an inflow of low-metallicity gas. These flows can be observed in the form of the high-velocity clouds (HVCs). Their location, brightness, distances, ionization structure and metallicities can be used to determine the conditions in the gaseous disk and halo as well as the rate of mass flow corresponding to the different processes. So far, sufficient information to derive an associated mass flow rate is available for just 5 HVCs. We propose to observe 20 AGNs toward most of the other HVC complexes as well as toward a few small clouds, in order to derive a metallicity for almost every HVC complex, which will complement distance measurements that have been or will be obtained in our ongoing program. Combining all the data, we can derive (a) the rate of the circulation of gas between disk and halo, constraining the Galactic supernova rate and (b) the accretion rate of low-metallicity material that feeds star formation over ~ 10 Gyr, which will constrain both models of galactic chemical evolution and models of the conditions in the hot galactic corona.

OBSERVING DESCRIPTION

All 20 targets are to be observed in the same manner: A G130M COS spectrum with central wavelength set to 1327 Å. Each target has one visit, for 1, 2 or 3 orbits, dependent on the target flux. Acquisitions are done using a STEP-SIZE=3 ACQ/SEARCH, followed by an ACQ/PEAKXD and an

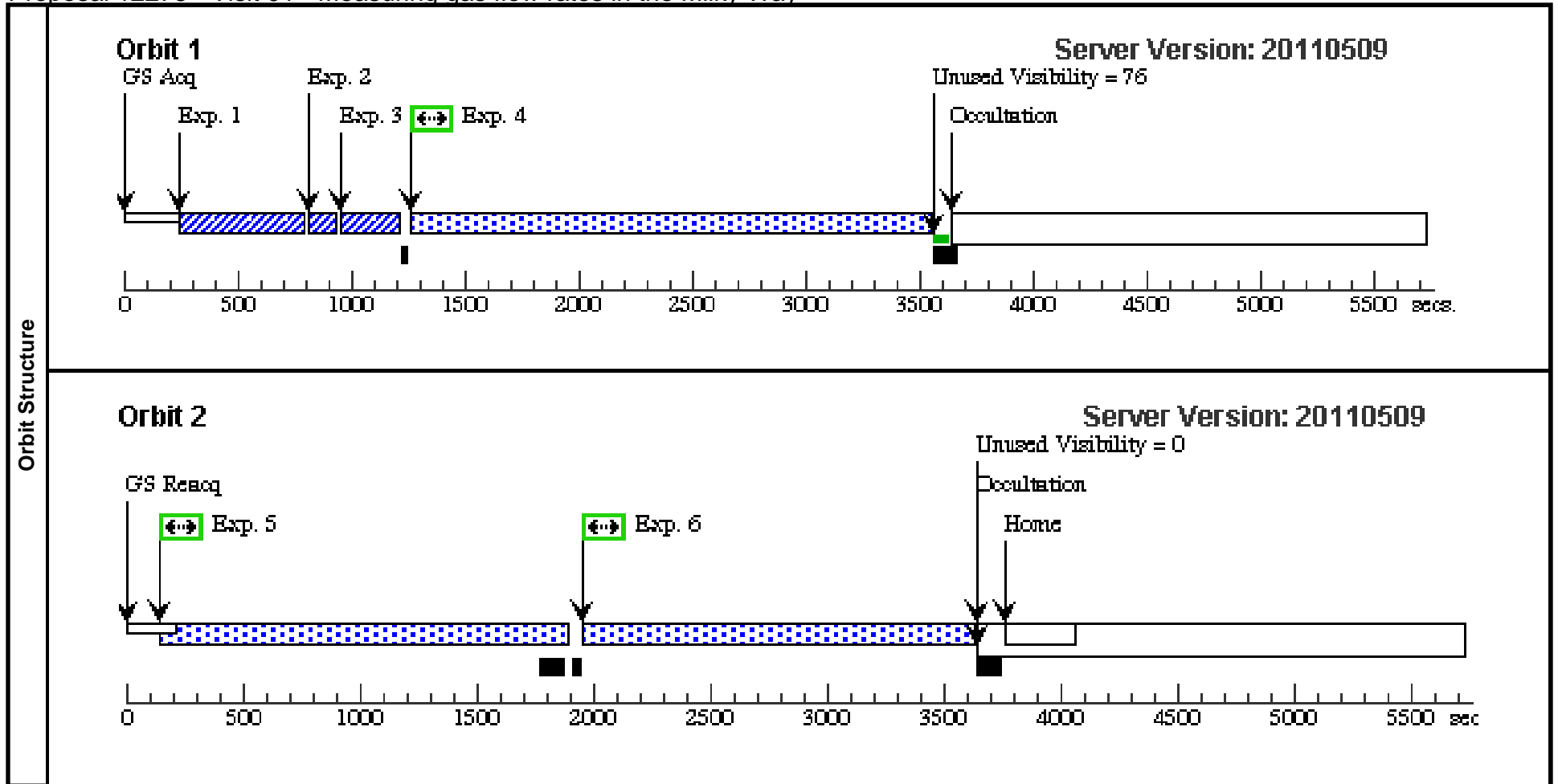
Proposal 12275 (STScI Edit Number: 0, Created: Wednesday, July 6, 2011 8:08:27 PM EST) - Overview

ACQ/PEAKD. Exposure times for acquisition observations are set to values of 10-30 seconds, depending on the target brightness, using half the nominal flux in the ETC. Aimed at S/N is 30-50. All targets are relatively faint, and for almost all the calculated buffer time is longer than the observation length in one orbit, so that the buffer time is set to the same value as the exposure time. Only for the four brightest targets (Ton1187, PG0044+030, ESO265-G23 and HE0429-5343) is the buffer time set to half the exposure time.

Proposal 12275 - Visit 01 - Measuring gas flow rates in the Milky Way

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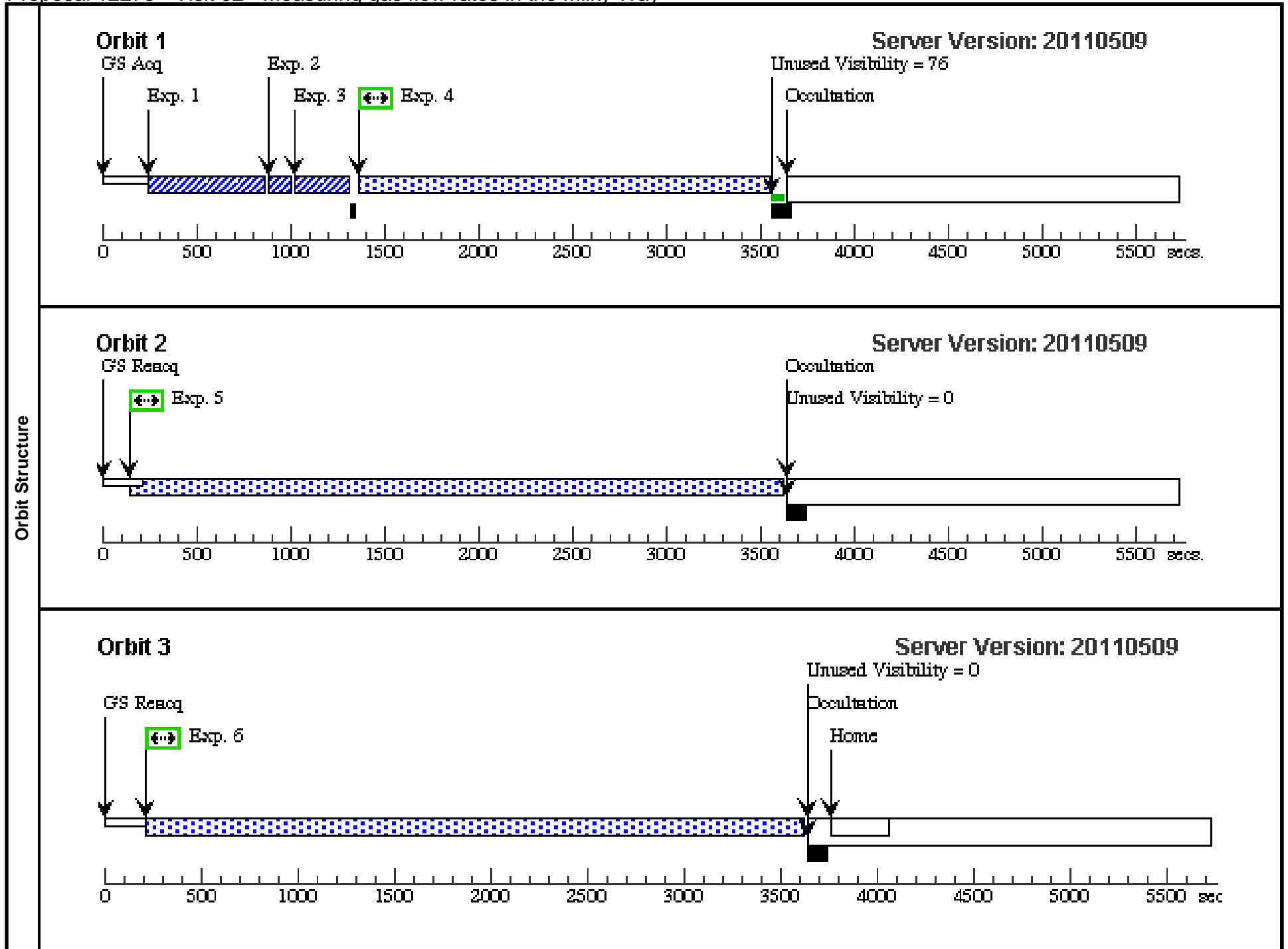
Visit	Proposal 12275, Visit 01, completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	MRK380	RA: 07 19 50.9000 (109.9620833d) Dec: +74 27 57.00 (74.46583d) Equinox: J2000	Redshift: 0.475	V=16.80+/-0.1 0.47E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	MRK380-A CQ/SEAR H	(1) MRK380	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			21 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.23E-14 erg/cm2/s/A. COS ETC result for S/N=40 is 21 sec (id COS.A324741). Count rate 406/sec.</i>										
	2	MRK380-A CQ/PEAKX D	(1) MRK380	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				21 Secs [==>]	[1]	
	3	MRK380-A CQ/PEAKD	(1) MRK380	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			21 Secs [==>]	[1]	
	4	MRK380-or bit1(1327-3)	(1) MRK380	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=22 41; FP-POS=3			2241 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at twice nominal flux is 2322 sec</i>										
5	MRK380-or bit2(1291-3)	(1) MRK380	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=15 25; FP-POS=3			1625 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at twice nominal flux is 2322 sec</i>											
6	MRK380-or bit2(1291-4)	(1) MRK380	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=16 25; FP-POS=4			1625 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at twice nominal flux is 2322 sec</i>											



Proposal 12275 - Visit 02 - Measuring gas flow rates in the Milky Way

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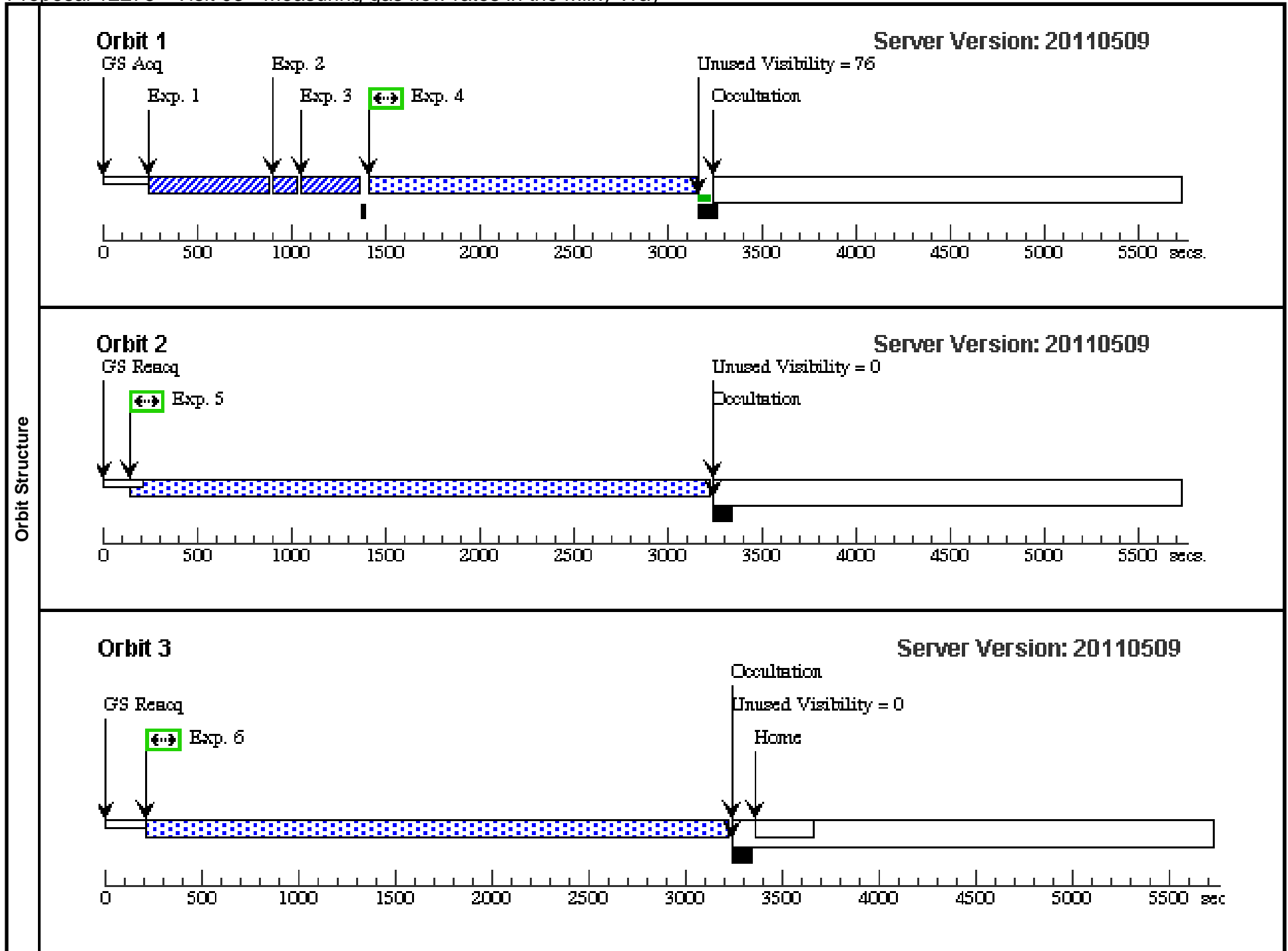
Visit	Proposal 12275, Visit 02, completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	RXJ07145+7408	RA: 07 14 36.1000 (108.6504167d) Dec: +74 08 10.00 (74.13611d) Equinox: J2000	Redshift: 0.371	V=17.10+/-0.1 0.33E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	RXJ07145+7408-ACQ/SEARCH	(2) RXJ07145+7408	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			28 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.17E-14 erg/cm2/s/A. COS ETC result for S/N=40 is 29 sec (id COS.A324745). Count rate 384/sec.</i>										
	2	RXJ07145+7408-ACQ/PEAKXD	(2) RXJ07145+7408	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				28 Secs [==>]	[1]	
	3	RXJ07145+7408-ACQ/PEAKD	(2) RXJ07145+7408	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A		NUM-POS=5; STEP-SIZE=0.9		28 Secs [==>]	[1]	
	4	RXJ07145+7408-orbit1(1327-3)	(2) RXJ07145+7408	COS/FUV, TIME-TAG, PSA	G130M 1327 A		BUFFER-TIME=21 36; FP-POS=3		2136 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2685 sec</i>										
5	RXJ07145+7408-orbit2(1291-3)	(2) RXJ07145+7408	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=33 59; FP-POS=3		3359 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at double nominal flux is 2685 sec</i>											
6	RXJ07145+7408-orbit3(1291-4)	(2) RXJ07145+7408	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=33 59; FP-POS=4		3359 Secs [==>]	[3]		
<i>Comments: 2/3rd of buffer time at double nominal flux is 2685 sec</i>											



Proposal 12275 - Visit 03 - Measuring gas flow rates in the Milky Way

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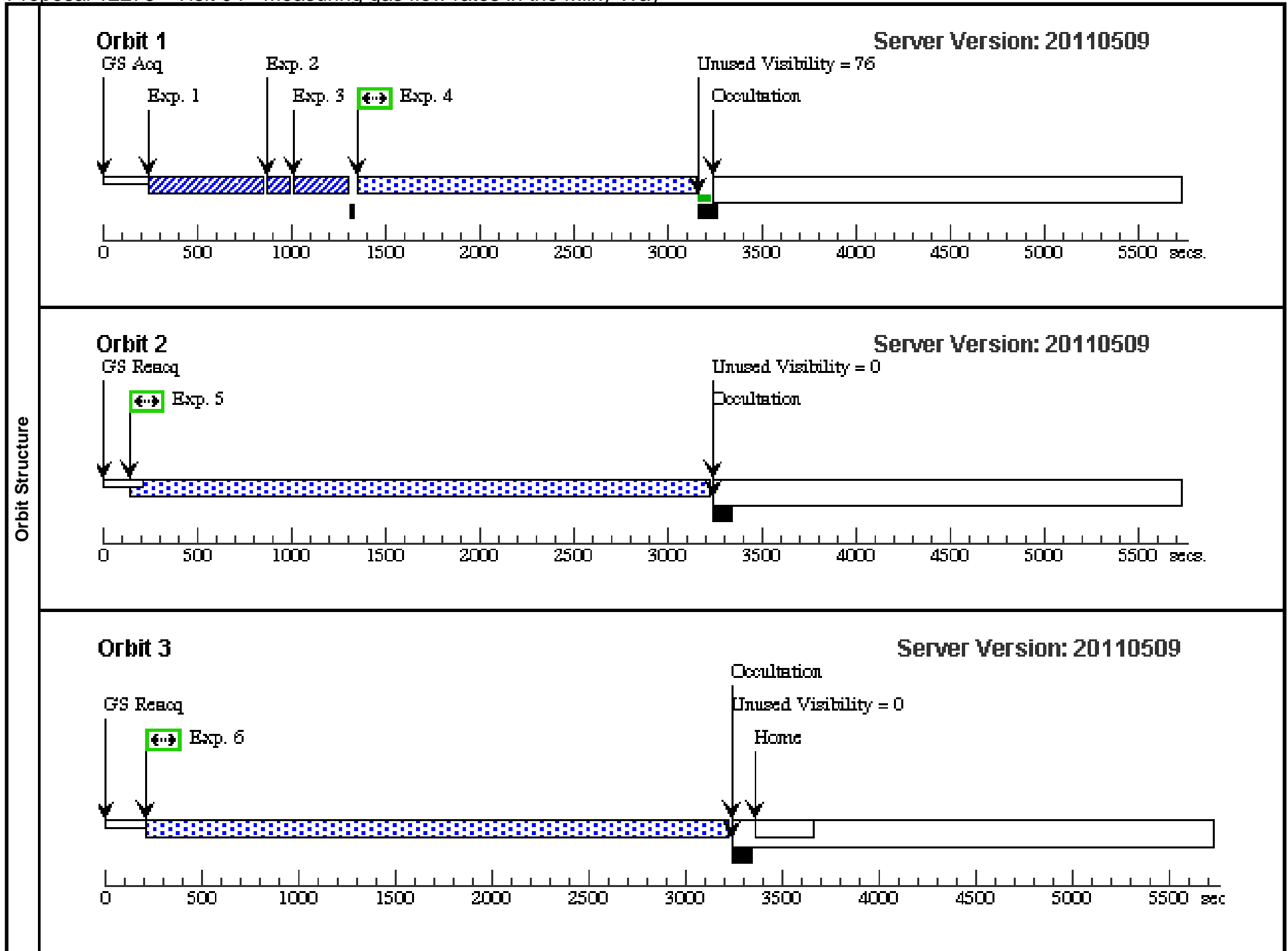
Visit	Proposal 12275, Visit 03, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	4C10.08	RA: 02 45 13.5000 (41.3062500d) Dec: +10 47 23.00 (10.78972d) Equinox: J2000	Redshift: 0.070	V=16.50+/-0.1 0.23E-14	Reference Frame: ICRS				
	<i>Comments: Flux from GALEX</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	4C10.08-AC Q/SEARCH	(3) 4C10.08	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			31 Secs [==>]	[1]
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.12E-14 erg/cm2/s/A. COS ETC result for S/N=35 is 33 sec (id COS.A324747). Count rate 364/sec.</i>									
	2	4C10.08-AC Q/PEAKXD	(3) 4C10.08	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				31 Secs [==>]	[1]
	3	4C10.08-AC Q/PEAKD	(3) 4C10.08	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			31 Secs [==>]	[1]
	4	4C10.08-orb it1(1327-3)	(3) 4C10.08	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=16 91; FP-POS=3			1691 Secs [==>]	[1]
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2388 sec</i>									
	5	4C10.08-orb it2(1291-3)	(3) 4C10.08	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 59; FP-POS=3			2959 Secs [==>]	[2]
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2757 sec</i>									
	6	4C10.08-orb it3(1291-4)	(3) 4C10.08	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 59; FP-POS=4			2959 Secs [==>]	[3]
	<i>Comments: 2/3rd of buffer time at double nominal flux is 2757 sec</i>									



Proposal 12275 - Visit 04 - Measuring gas flow rates in the Milky Way

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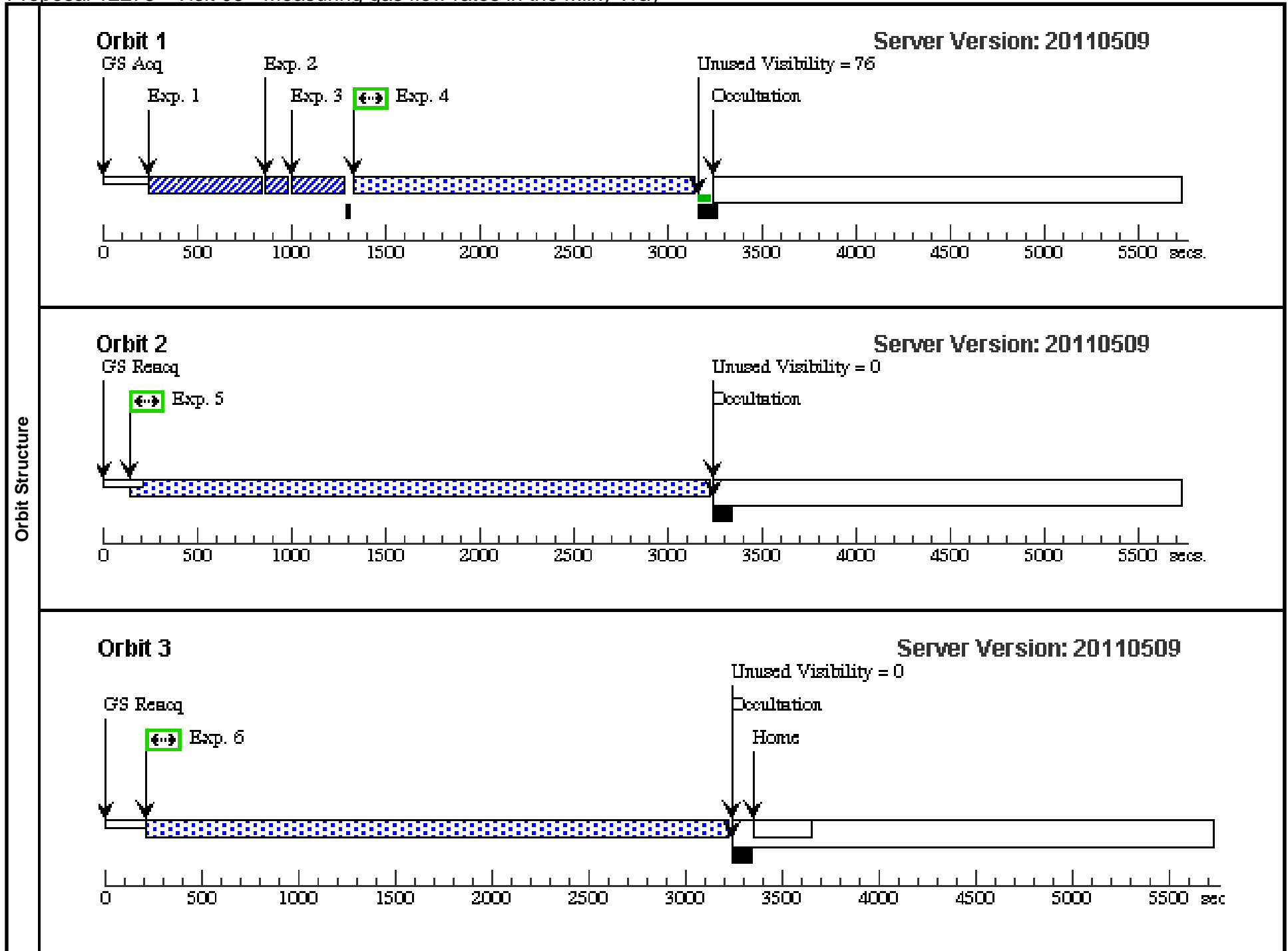
Visit	Proposal 12275, Visit 04, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	SDSSJ014143.20+134032.0	RA: 01 41 43.2000 (25.4300000d) Dec: +13 40 32.00 (13.67556d) Equinox: J2000	Redshift: 0.045	V=16.90+/-0.1 0.33E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	SDSSJ014143.20+134032.0-ACQ/SEARCH	(4) SDSSJ014143.20 +134032.0	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			27 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.17E-14 erg/cm2/s/A. COS ETC result for S/N=40 is 29 sec (id COS.A324745). Count rate 384/sec.</i>										
	2	SDSSJ014143.20+134032.0-ACQ/PEAKXD	(4) SDSSJ014143.20 +134032.0	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				27 Secs [==>]	[1]	
	3	SDSSJ014143.20+134032.0-ACQ/PEAKD	(4) SDSSJ014143.20 +134032.0	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			27 Secs [==>]	[1]	
	4	SDSSJ014143.20+134032.0-orbit1(1327-3)	(4) SDSSJ014143.20 +134032.0	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 51; FP-POS=3			1751 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2685 sec</i>										
5	SDSSJ014143.20+134032.0-orbit2(1291-3)	(4) SDSSJ014143.20 +134032.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 59; FP-POS=3			2959 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at double nominal flux is 2685 sec</i>											
6	SDSSJ014143.20+134032.0-orbit3(1291-4)	(4) SDSSJ014143.20 +134032.0	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 59; FP-POS=4			2959 Secs [==>]	[3]		
<i>Comments: 2/3rd of buffer time at double nominal flux is 2685 sec</i>											



Proposal 12275 - Visit 05 - Measuring gas flow rates in the Milky Way

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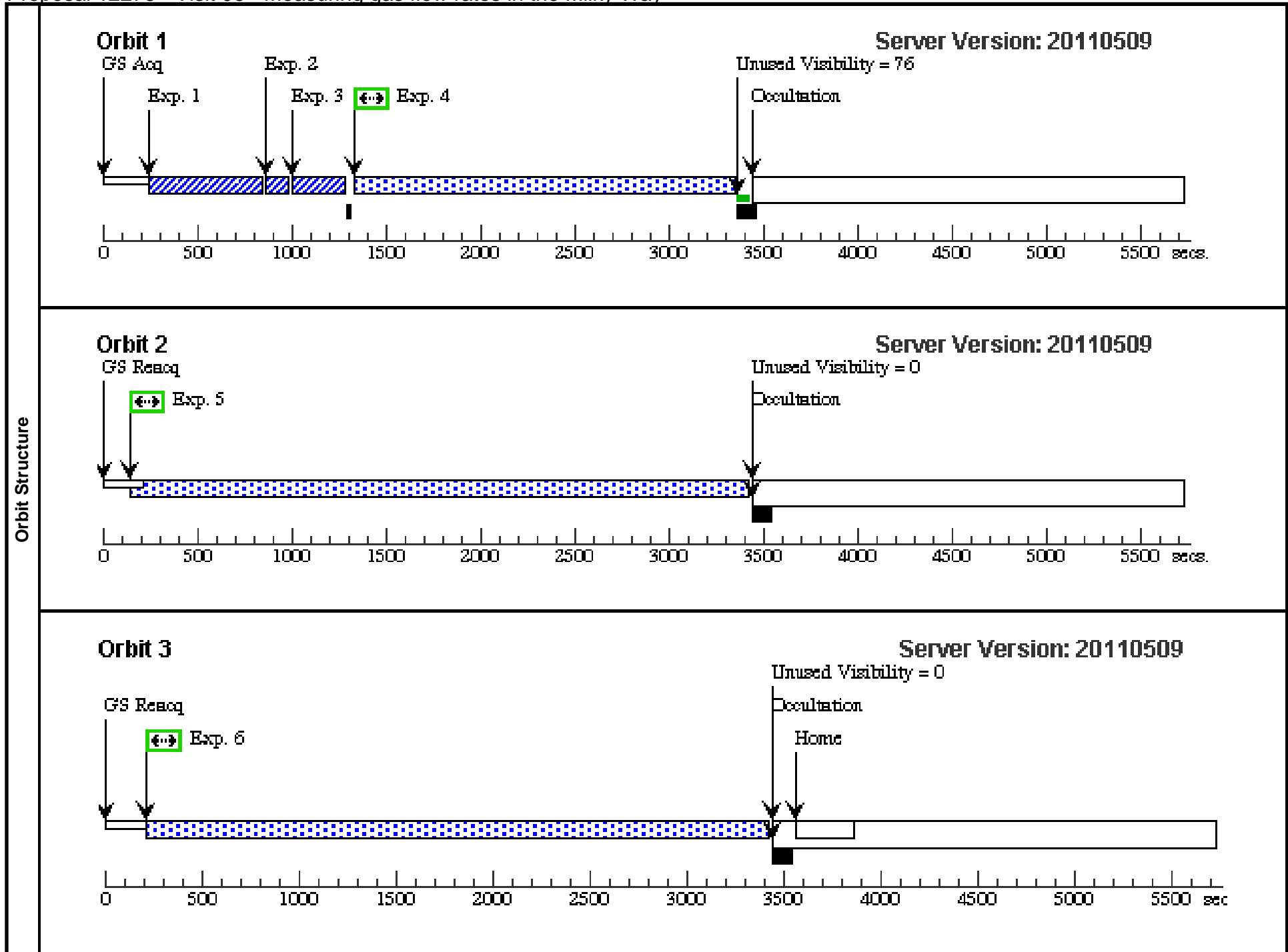
Visit	Proposal 12275, Visit 05, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	MRK595	RA: 02 41 34.9000 (40.3954167d) Dec: +07 11 14.00 (7.18722d) Equinox: J2000	Redshift: 0.028	V=14.69+/-0.1 0.36E-14	Reference Frame: ICRS					
	<i>Comments: Flux from FUSE</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	MRK595-A CQ/SEAR H	(5) MRK595	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			26 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.18E-14 erg/cm2/s/A. COS ETC result for S/N=40 is 28 sec (id COS.A324744). Count rate 387/sec.</i>										
	2	MRK595-A CQ/PEAKX D	(5) MRK595	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				26 Secs [==>]	[1]	
	3	MRK595-A CQ/PEAKD	(5) MRK595	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			26 Secs [==>]	[1]	
	4	MRK595-or bit1(1327-3)	(5) MRK595	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 63; FP-POS=3			1763 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2650 sec</i>										
5	MRK595-or bit2(1291-3)	(5) MRK595	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 56; FP-POS=3			2956 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at double nominal flux is 2650 sec</i>											
6	MRK595-or bit3(1291-4)	(5) MRK595	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 56; FP-POS=4			2956 Secs [==>]	[3]		
<i>Comments: 2/3rd of buffer time at double nominal flux is 2650 sec</i>											



Proposal 12275 - Visit 06 - Measuring gas flow rates in the Milky Way

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Visit	Proposal 12275, Visit 06, completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	HS1831+5338	RA: 18 32 49.7000 (278.2070833d) Dec: +53 40 22.00 (53.67278d) Equinox: J2000	Redshift: 0.039	V=15.90+/-0.1 0.37E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	HS1831+53 38-ACQ/SE ARCH	(6) HS1831+5338	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			26 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.18E-14 erg/cm2/s/A. COS ETC result for S/N=40 is 28 sec (id COS.A324744). Count rate 387/sec.</i>										
	2	HS1831+53 38-ACQ/PE AKXD	(6) HS1831+5338	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				26 Secs [==>]	[1]	
	3	HS1831+53 38-ACQ/PE AKD	(6) HS1831+5338	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A		NUM-POS=5; STEP-SIZE=0.9		26 Secs [==>]	[1]	
	4	HS1831+53 38-orbit1(13 27-3)	(6) HS1831+5338	COS/FUV, TIME-TAG, PSA	G130M 1327 A		BUFFER-TIME=19 66; FP-POS=3		1966 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2585 sec</i>										
5	HS1831+53 38-orbit2(12 91-3)	(6) HS1831+5338	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=31 59; FP-POS=3		3159 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at double nominal flux is 2585 sec</i>											
6	HS1831+53 38-orbit3(12 91-4)	(6) HS1831+5338	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=31 59; FP-POS=4		3159 Secs [==>]	[3]		
<i>Comments: 2/3rd of buffer time at double nominal flux is 2585 sec</i>											

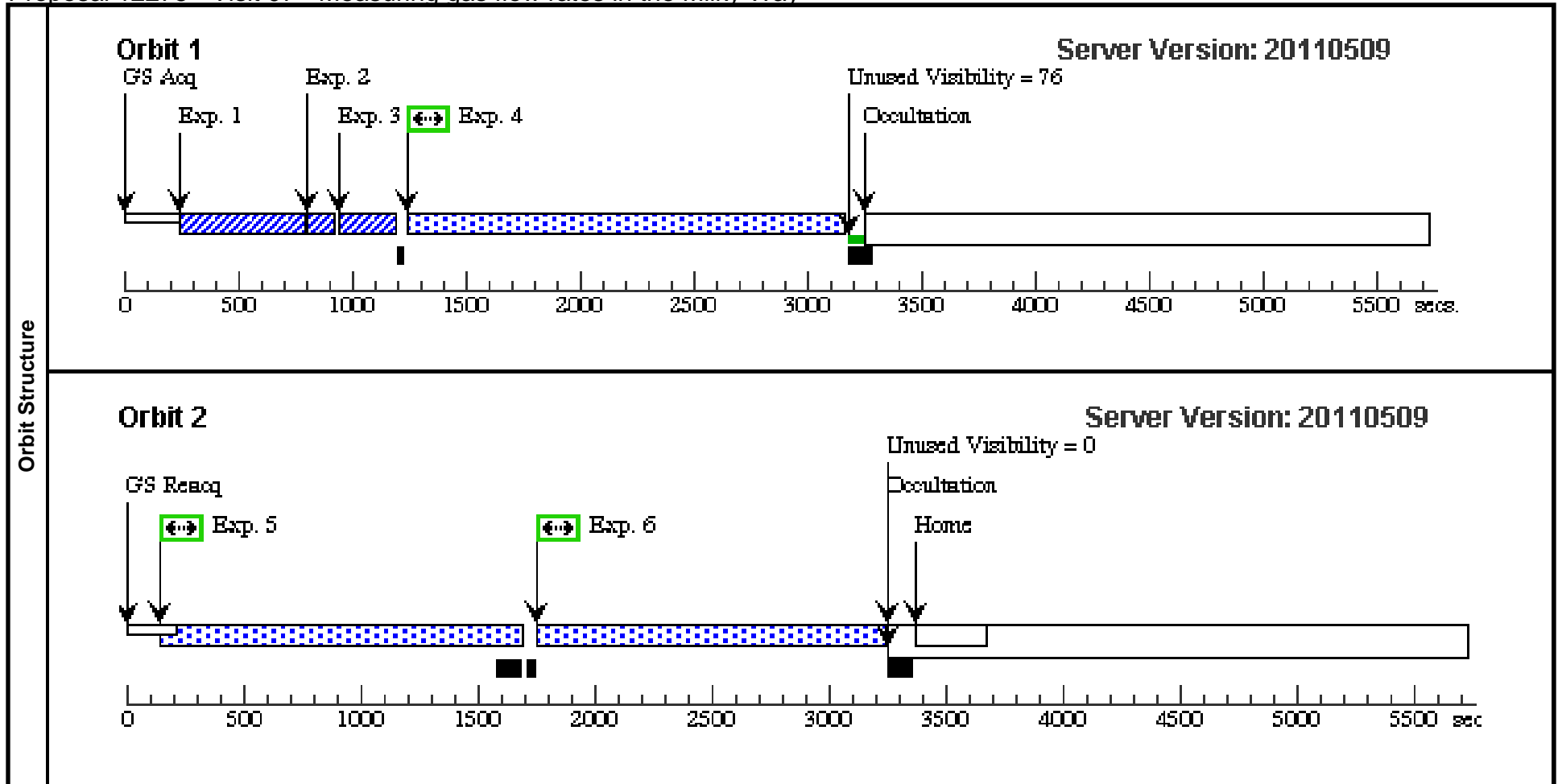


Orbit Structure

Proposal 12275 - Visit 07 - Measuring gas flow rates in the Milky Way

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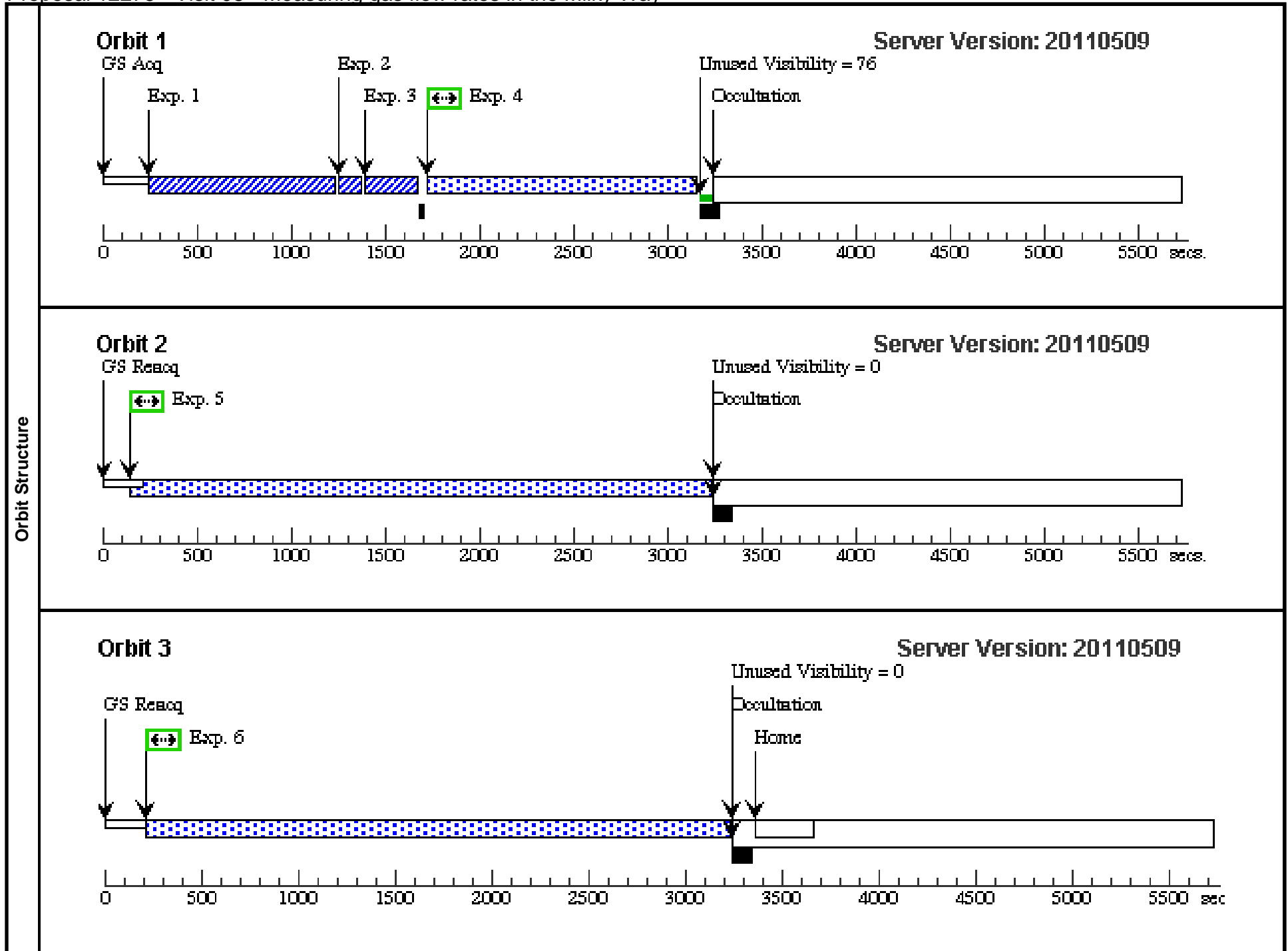
Visit	Proposal 12275, Visit 07, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	MRK504	RA: 17 01 7.8000 (255.2825000d) Dec: +29 24 25.00 (29.40694d) Equinox: J2000	Redshift: 0.036	V=15.78+/-0.1 0.43E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	MRK504-A CQ/SEAR H	(7) MRK504	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			20 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.22E-14 erg/cm2/s/A. COS ETC result for S/N=40 is 22 sec (id COS.A324742). Count rate 402/sec.</i>										
	2	MRK504-A CQ/PEAKX D	(7) MRK504	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				20 Secs [==>]	[1]	
	3	MRK504-A CQ/PEAKD	(7) MRK504	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			20 Secs [==>]	[1]	
	4	MRK504-or bit1(1327-3)	(7) MRK504	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=18 68; FP-POS=3			1868 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2431 sec</i>										
5	MRK504-or bit2(1291-3)	(7) MRK504	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=13 31; FP-POS=3			1431 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at double nominal flux is 2431 sec</i>											
6	MRK504-or bit2(1291-4)	(7) MRK504	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=14 31; FP-POS=4			1431 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at double nominal flux is 2431 sec</i>											



Proposal 12275 - Visit 08 - Measuring gas flow rates in the Milky Way

Thu Jul 07 01:08:31 GMT 2011

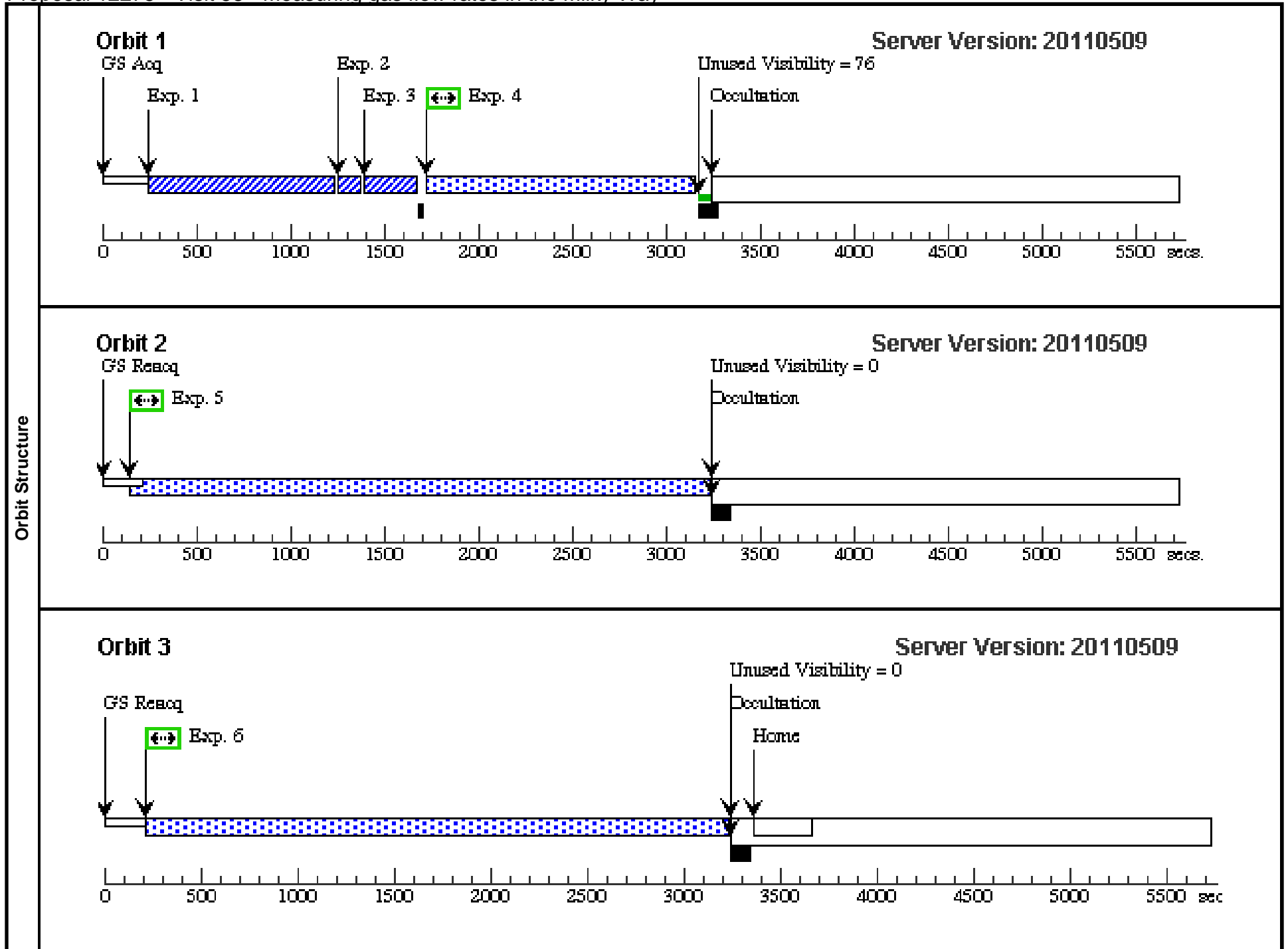
Visit	Proposal 12275, Visit 08, failed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	NVSSJ15251-1714	RA: 15 25 12.0000 (231.3000000d) Dec: -17 14 38.00 (-17.24389d) Equinox: J2000	Redshift: 0.050	V=14.20+/-0.1 0.22E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	NVSSJ15251-1714-AC Q/SEARCH	(8) NVSSJ15251-1714	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=4				25 Secs [==>]	[1]
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.11E-14 erg/cm2/s/A. COS ETC result for S/N=30 is 27 sec (id COS.A324748). Count rate 360/sec. Scan size set to 5 because the target is more extended than most</i>										
2	NVSSJ15251-1714-AC Q/PEAKXD	(8) NVSSJ15251-1714	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A					25 Secs [==>]	[1]	
3	NVSSJ15251-1714-AC Q/PEAKD	(8) NVSSJ15251-1714	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9				25 Secs [==>]	[1]	
4	NVSSJ15251-1714-orbit 1(1327-3)	(8) NVSSJ15251-1714	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=13 81; FP-POS=3				1381 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 3235 sec</i>										
5	NVSSJ15251-1714-orbit 2(1291-3)	(8) NVSSJ15251-1714	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 63; FP-POS=3				2963 Secs [==>]	[2]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2585 sec</i>										
6	NVSSJ15251-1714-orbit 3(1291-4)	(8) NVSSJ15251-1714	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 63; FP-POS=4				2963 Secs [==>]	[3]	
	<i>Comments: 2/3rd of buffer time at double nominal flux is 2585 sec</i>										



Proposal 12275 - Visit 58 - Measuring gas flow rates in the Milky Way

Thu Jul 07 01:08:32 GMT 2011

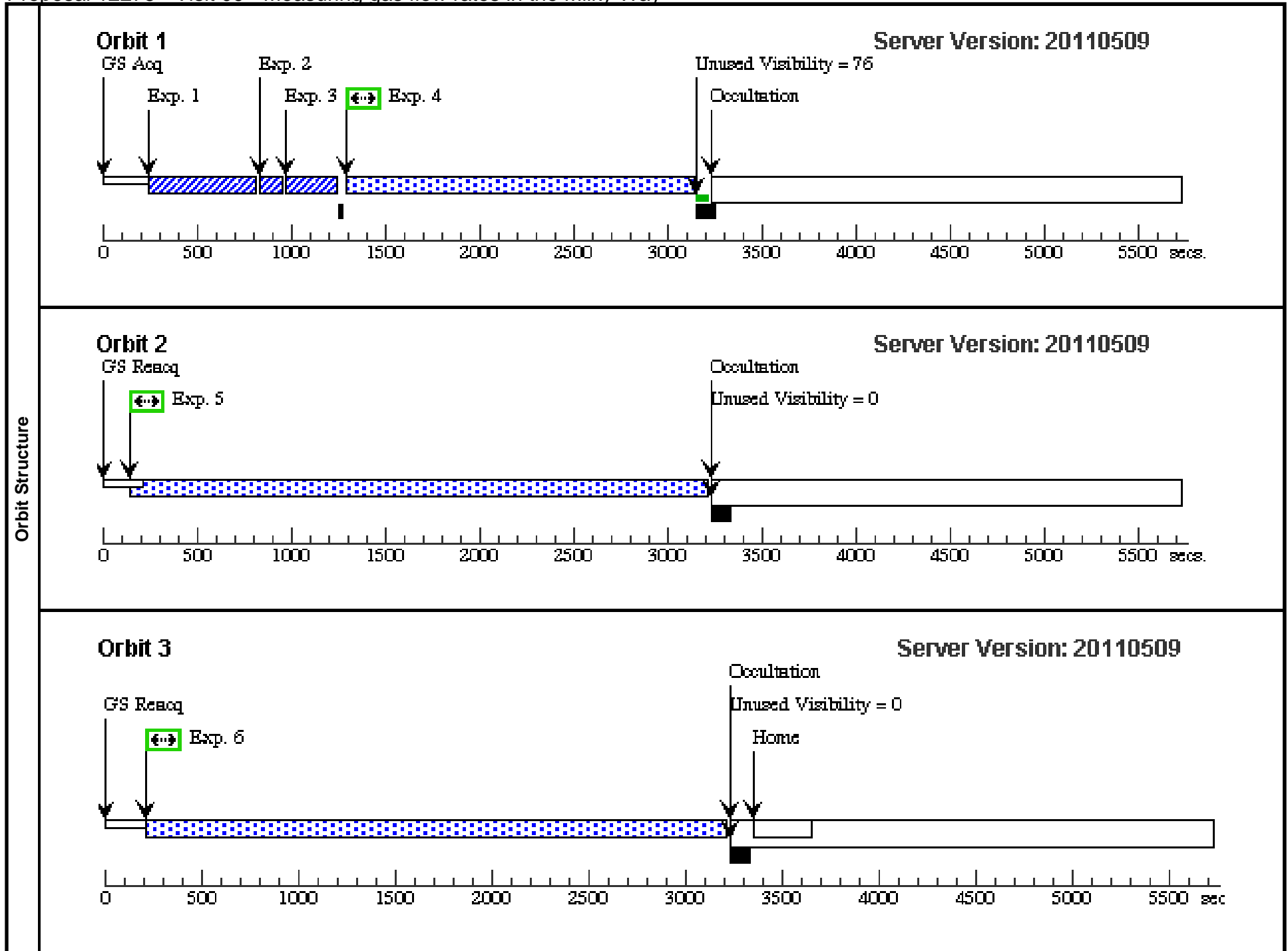
Visit	Proposal 12275, Visit 58, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	NVSSJ15251-1714	RA: 15 25 12.0000 (231.3000000d) Dec: -17 14 38.00 (-17.24389d) Equinox: J2000	Redshift: 0.050	V=14.20+/-0.1 0.22E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	NVSSJ15251-1714-AC Q/SEARCH	(8) NVSSJ15251-1714	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=4			25 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.11E-14 erg/cm2/s/A. COS ETC result for S/N=30 is 27 sec (id COS.A324748). Count rate 360/sec. Scan size set to 5 because the target is more extended than most</i>										
	2	NVSSJ15251-1714-AC Q/PEAKXD	(8) NVSSJ15251-1714	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				25 Secs [==>]	[1]	
	3	NVSSJ15251-1714-AC Q/PEAKD	(8) NVSSJ15251-1714	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			25 Secs [==>]	[1]	
	4	NVSSJ15251-1714-orbit 1(1327-3)	(8) NVSSJ15251-1714	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=13 81; FP-POS=3			1381 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 3235 sec</i>										
5	NVSSJ15251-1714-orbit 2(1291-3)	(8) NVSSJ15251-1714	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 63; FP-POS=3			2963 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at double nominal flux is 2585 sec</i>											
6	NVSSJ15251-1714-orbit 3(1291-4)	(8) NVSSJ15251-1714	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 63; FP-POS=4			2963 Secs [==>]	[3]		
<i>Comments: 2/3rd of buffer time at double nominal flux is 2585 sec</i>											



Proposal 12275 - Visit 09 - Measuring gas flow rates in the Milky Way

Thu Jul 07 01:08:32 GMT 2011

Visit	Proposal 12275, Visit 09, completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	RXSJ09565-0452	RA: 09 56 30.1800 (149.1257500d) Dec: -04 53 17.00 (-4.88806d) Equinox: J2000	Redshift: 0.157	V=16.40+/-0.1 0.38E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	RXSJ09565-0452-ACQ/SEARCH	(9) RXSJ09565-0452	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			23 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.19E-14 erg/cm2/s/A. COS ETC result for S/N=40 is 26 sec (id COS.A324743). Count rate 390/sec.</i>										
	2	RXSJ09565-0452-ACQ/PEAKXD	(9) RXSJ09565-0452	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				23 Secs [==>]	[1]	
	3	RXSJ09565-0452-ACQ/PEAKD	(9) RXSJ09565-0452	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A		NUM-POS=5; STEP-SIZE=0.9		23 Secs [==>]	[1]	
	4	RXSJ09565-0452-orbit1(1327-3)	(9) RXSJ09565-0452	COS/FUV, TIME-TAG, PSA	G130M 1327 A		BUFFER-TIME=1800; FP-POS=3		1800 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2585 sec</i>										
5	RXSJ09565-0452-orbit2(1291-3)	(9) RXSJ09565-0452	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=2948; FP-POS=3		2948 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at double nominal flux is 2585 sec</i>											
6	RXSJ09565-0452-orbit3(1291-4)	(9) RXSJ09565-0452	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=2948; FP-POS=4		2948 Secs [==>]	[3]		
<i>Comments: 2/3rd of buffer time at double nominal flux is 2585 sec</i>											

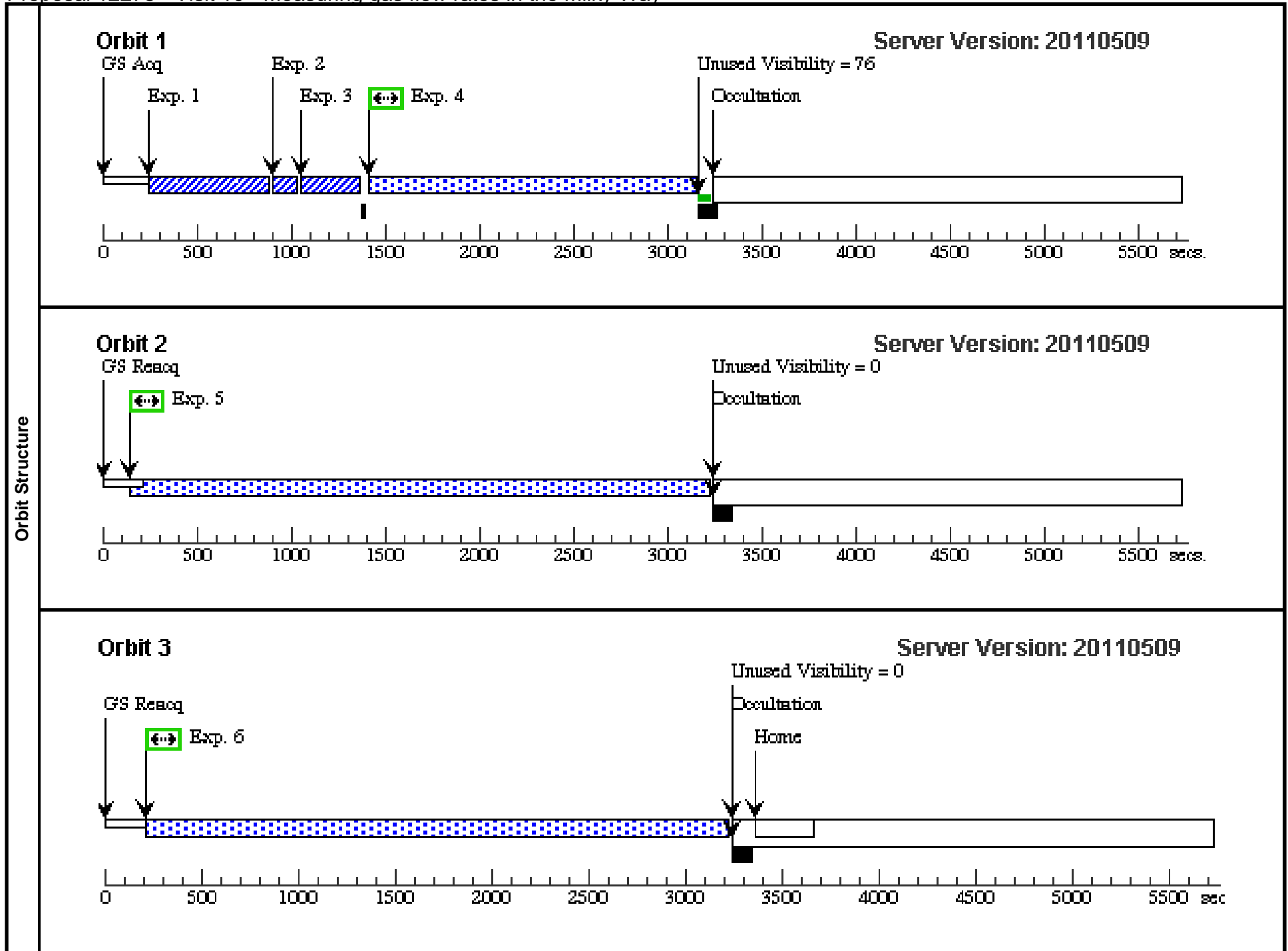


Orbit Structure

Proposal 12275 - Visit 10 - Measuring gas flow rates in the Milky Way

Thu Jul 07 01:08:33 GMT 2011

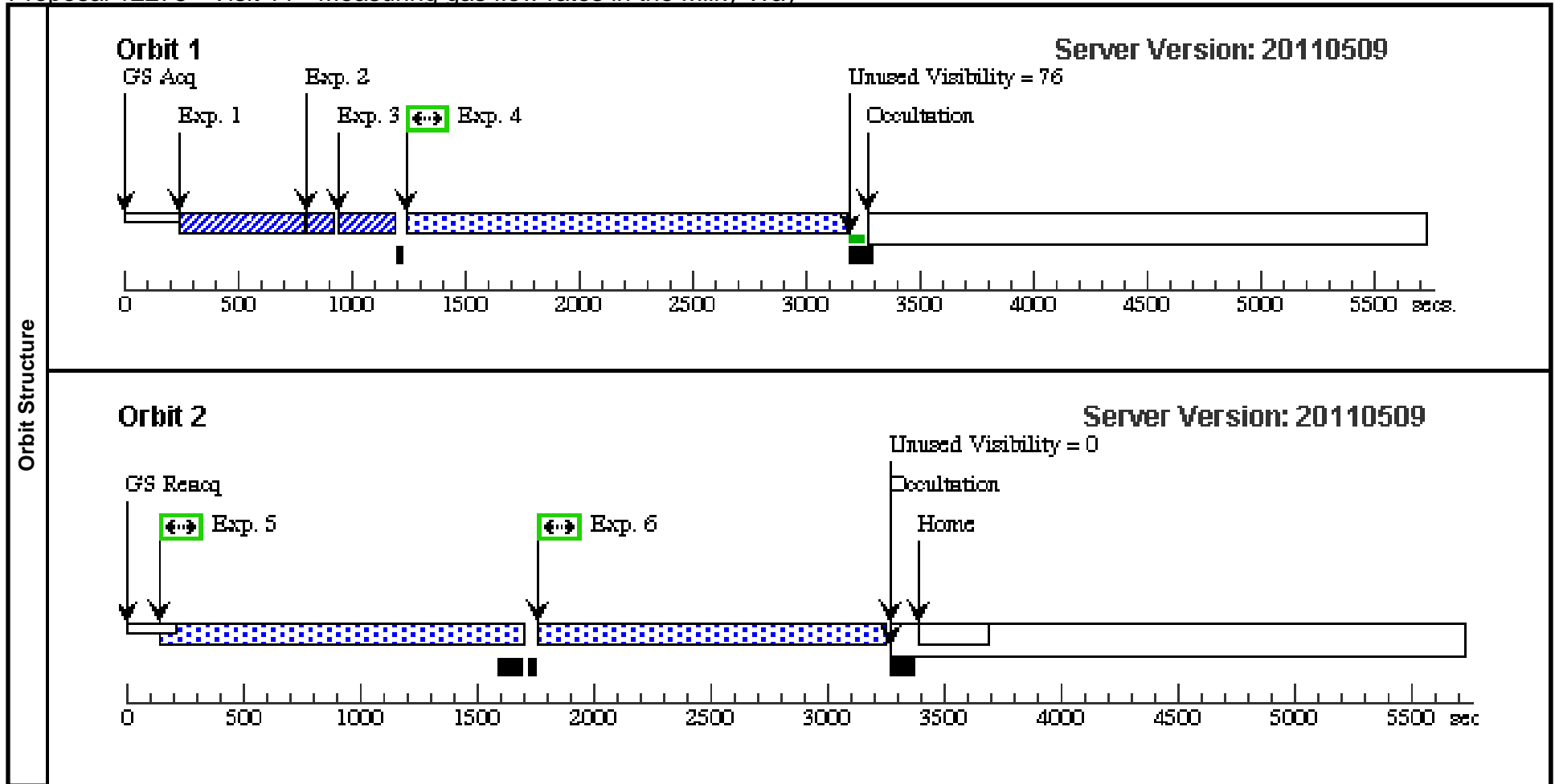
Visit	Proposal 12275, Visit 10, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)									
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous			
	(10)	MCG-02-16-004	RA: 06 12 34.8000 (93.1450000d) Dec: -14 15 28.00 (-14.25778d) Equinox: J2000	Redshift: 0.036	V=16.00+/-0.1 0.23E-14	Reference Frame: ICRS				
	<i>Comments: Flux from GALEX</i>									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	MCG-02-16-004-ACQ/S EARCH	(10) MCG-02-16-00	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3				31 Secs [==>]
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.12E-14 erg/cm2/s/A. COS ETC result for S/N=35 is 33 sec (id COS.A324747). Count rate 364/sec.</i>									
2	MCG-02-16-004-ACQ/P EAKXD	(10) MCG-02-16-00	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A					31 Secs [==>]	[1]
3	MCG-02-16-004-ACQ/P EAKD	(10) MCG-02-16-00	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A		NUM-POS=5; STEP-SIZE=0.9			31 Secs [==>]	[1]
4	MCG-02-16-004-orbit1(1327-3)	(10) MCG-02-16-00	COS/FUV, TIME-TAG, PSA	G130M 1327 A		BUFFER-TIME=16 91; FP-POS=3			1691 Secs [==>]	[1]
	<i>Comments: 2/3rds of buffer time at double nominal flux is 3185 sec</i>									
5	MCG-02-16-004-orbit2(1291-3)	(10) MCG-02-16-00	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=29 59; FP-POS=3			2959 Secs [==>]	[2]
	<i>Comments: 2/3rds of buffer time at double nominal flux is 3185 sec</i>									
6	MCG-02-16-004-orbit3(1291-4)	(10) MCG-02-16-00	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=29 59; FP-POS=4			2959 Secs [==>]	[3]
	<i>Comments: 2/3rd of buffer time at double nominal flux is 3185 sec</i>									



Proposal 12275 - Visit 11 - Measuring gas flow rates in the Milky Way

Thu Jul 07 01:08:33 GMT 2011

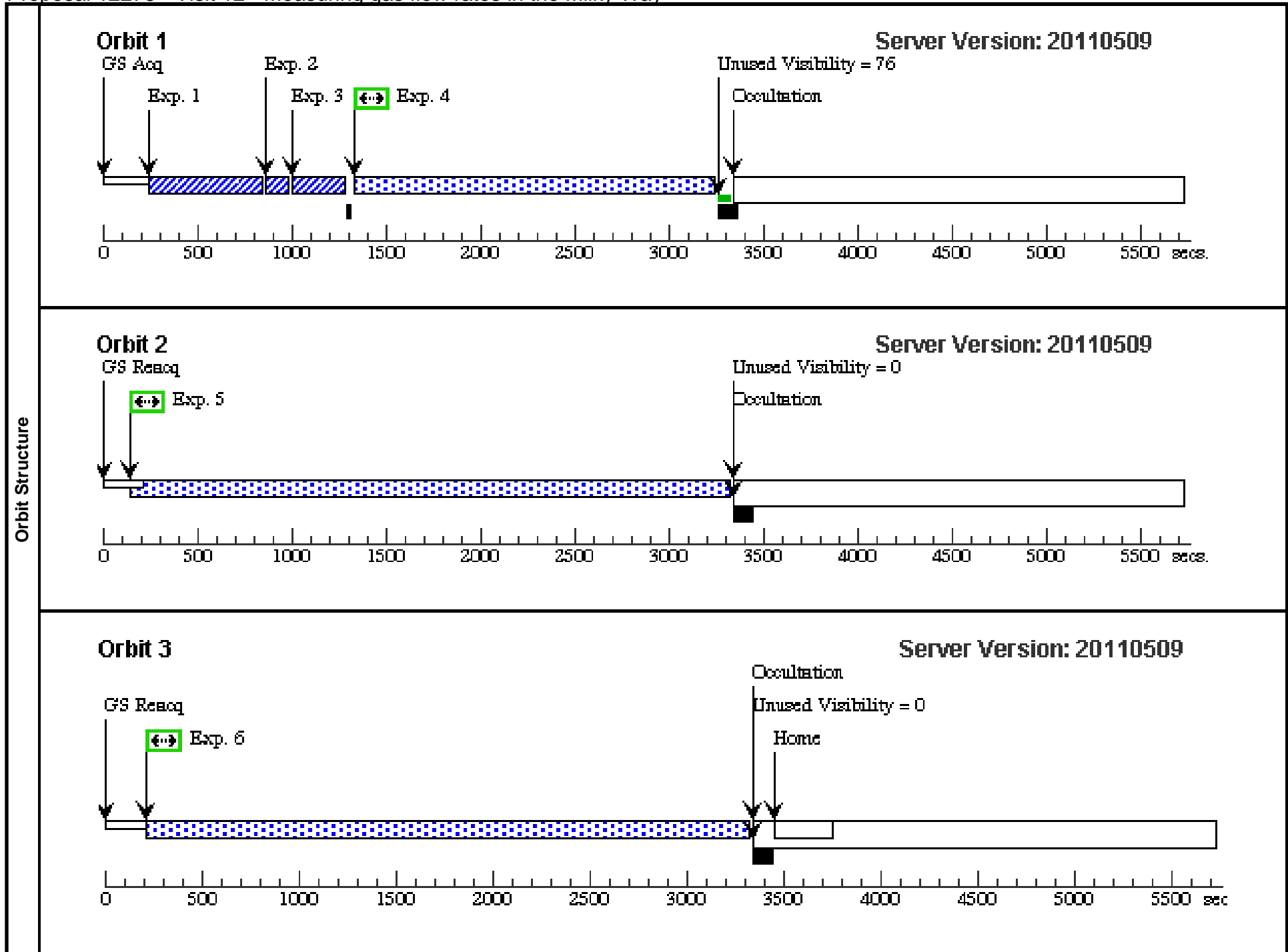
Visit	Proposal 12275, Visit 11, scheduling Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	PKS1101-325	RA: 11 03 31.5000 (165.8812500d) Dec: -32 51 17.00 (-32.85472d) Equinox: J2000	Redshift: 0.355	V=16.30+/-0.1 0.47E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	PKS1101-32 5-ACQ/SEA RCH	(11) PKS1101-325	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3				20 Secs [==>]	[1]
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.23E-14 erg/cm2/s/A. COS ETC result for S/N=40 is 21 sec (id COS.A324741). Count rate 406/sec.</i>										
2	PKS1101-32 5-ACQ/PEA KXD	(11) PKS1101-325	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A					20 Secs [==>]	[1]	
3	PKS1101-32 5-ACQ/PEA KD	(11) PKS1101-325	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A		NUM-POS=5; STEP-SIZE=0.9			20 Secs [==>]	[1]	
4	PKS1101-32 5-orbit1(132 7-3)	(11) PKS1101-325	COS/FUV, TIME-TAG, PSA	G130M 1327 A		BUFFER-TIME=18 86; FP-POS=3			1886 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at twice nominal flux is 2322 sec</i>										
5	PKS1101-32 5-orbit2(129 1-3)	(11) PKS1101-325	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=13 40; FP-POS=3			1440 Secs [==>]	[2]	
	<i>Comments: 2/3rds of buffer time at twice nominal flux is 2322 sec</i>										
6	PKS1101-32 5-orbit2(129 1-4)	(11) PKS1101-325	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=14 40; FP-POS=4			1440 Secs [==>]	[2]	
	<i>Comments: 2/3rds of buffer time at twice nominal flux is 2322 sec</i>										



Proposal 12275 - Visit 12 - Measuring gas flow rates in the Milky Way

Thu Jul 07 01:08:33 GMT 2011

Visit	Proposal 12275, Visit 12, completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	ESO267-013	RA: 12 04 52.9000 (181.2204167d) Dec: -43 43 54.00 (-43.73167d) Equinox: J2000	Redshift: 0.014	V=14.15+/-0.1 0.37E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	ESO267-01 3-ACQ/SEA RCH	(12) ESO267-013	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3				26 Secs [==>]	[1]
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.18E-14 erg/cm2/s/A. COS ETC result for S/N=40 is 28 sec (id COS.A324744). Count rate 387/sec.</i>										
	2	ESO267-01 3-ACQ/PEA KXD	(12) ESO267-013	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A					26 Secs [==>]	[1]
	3	ESO267-01 3-ACQ/PEA KD	(12) ESO267-013	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A		NUM-POS=5; STEP-SIZE=0.9			26 Secs [==>]	[1]
	4	ESO267-01 3-orbit1(132 7-3)	(12) ESO267-013	COS/FUV, TIME-TAG, PSA	G130M 1327 A		BUFFER-TIME=18 62; FP-POS=3			1862 Secs [==>]	[1]
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2617 sec</i>										
5	ESO267-01 3-orbit2(129 1-3)	(12) ESO267-013	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=30 55; FP-POS=3			3055 Secs [==>]	[2]	
<i>Comments: 2/3rds of buffer time at double nominal flux is 2617 sec</i>											
6	ESO267-01 3-orbit3(129 1-4)	(12) ESO267-013	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=30 55; FP-POS=4			3055 Secs [==>]	[3]	
<i>Comments: 2/3rd of buffer time at double nominal flux is 2617 sec</i>											



Orbit Structure

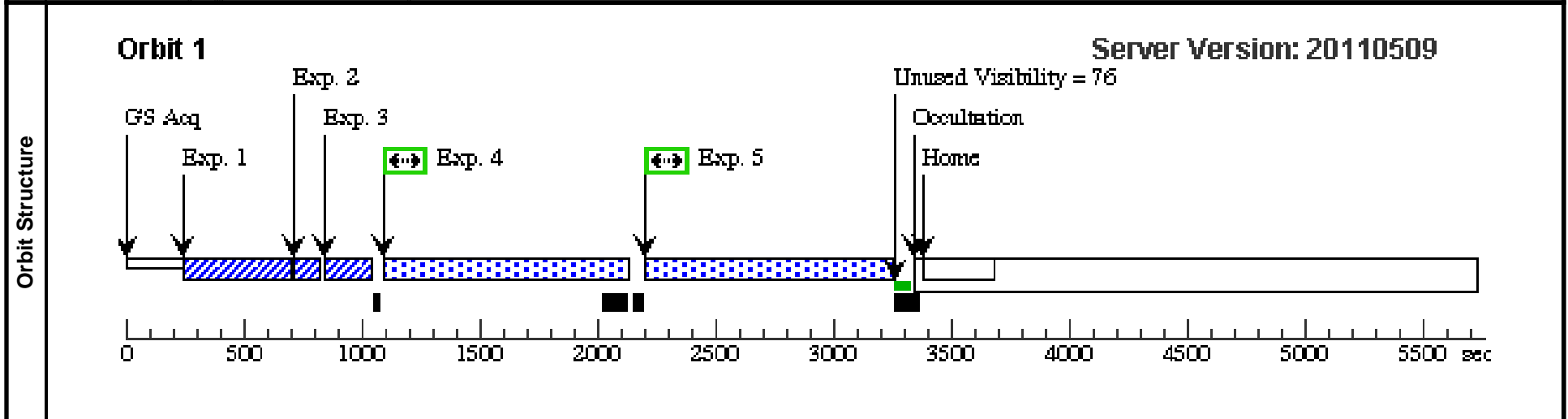
Proposal 12275 - Visit 13 - Measuring gas flow rates in the Milky Way

Thu Jul 07 01:08:34 GMT 2011

Visit	Proposal 12275, Visit 13, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(13)	ESO265-G23	RA: 11 20 47.9000 (170.1995833d) Dec: -43 15 51.00 (-43.26417d) Equinox: J2000	Redshift: 0.057	V=15.00+/-0.1 1.2E-14	Reference Frame: ICRS
	<i>Comments: Flux from FUSE</i>					

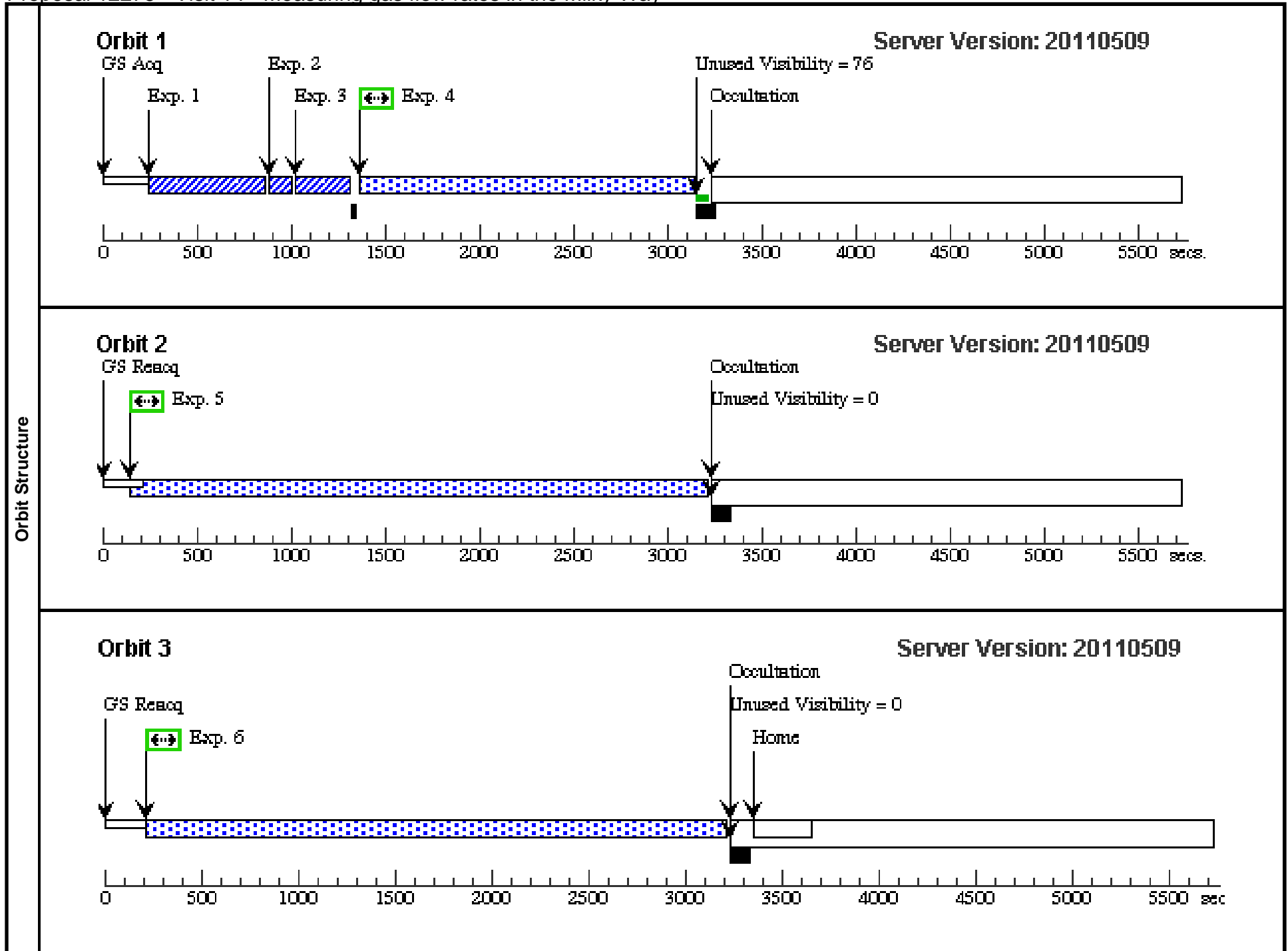
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	ESO265-G2 3-ACQ/SEA RCH	(13) ESO265-G23	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			10 Secs [==>]	[1]
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.6E-14 erg/cm2/s/A. COS ETC result for S/N=50 is 12 sec (id COS.A324740). Count rate 547/sec.</i>									
	2	ESO265-G2 3-ACQ/PEA KXD	(13) ESO265-G23	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				10 Secs [==>]	[1]
	3	ESO265-G2 3-ACQ/PEA KD	(13) ESO265-G23	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			10 Secs [==>]	[1]
	4	ESO265-G2 3-orbit1(132 7-3)	(13) ESO265-G23	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=89 1; FP-POS=3			991 Secs [==>]	[1]
	<i>Comments: 2/3rds of buffer time at double nominal flux is 1272 sec</i>									
	5	ESO265-G2 3-orbit1(132 7-4)	(13) ESO265-G23	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=99 2; FP-POS=4			992 Secs [==>]	[1]
	<i>Comments: 2/3rds of buffer time at double nominal flux is 1272 sec</i>									



Proposal 12275 - Visit 14 - Measuring gas flow rates in the Milky Way

Thu Jul 07 01:08:34 GMT 2011

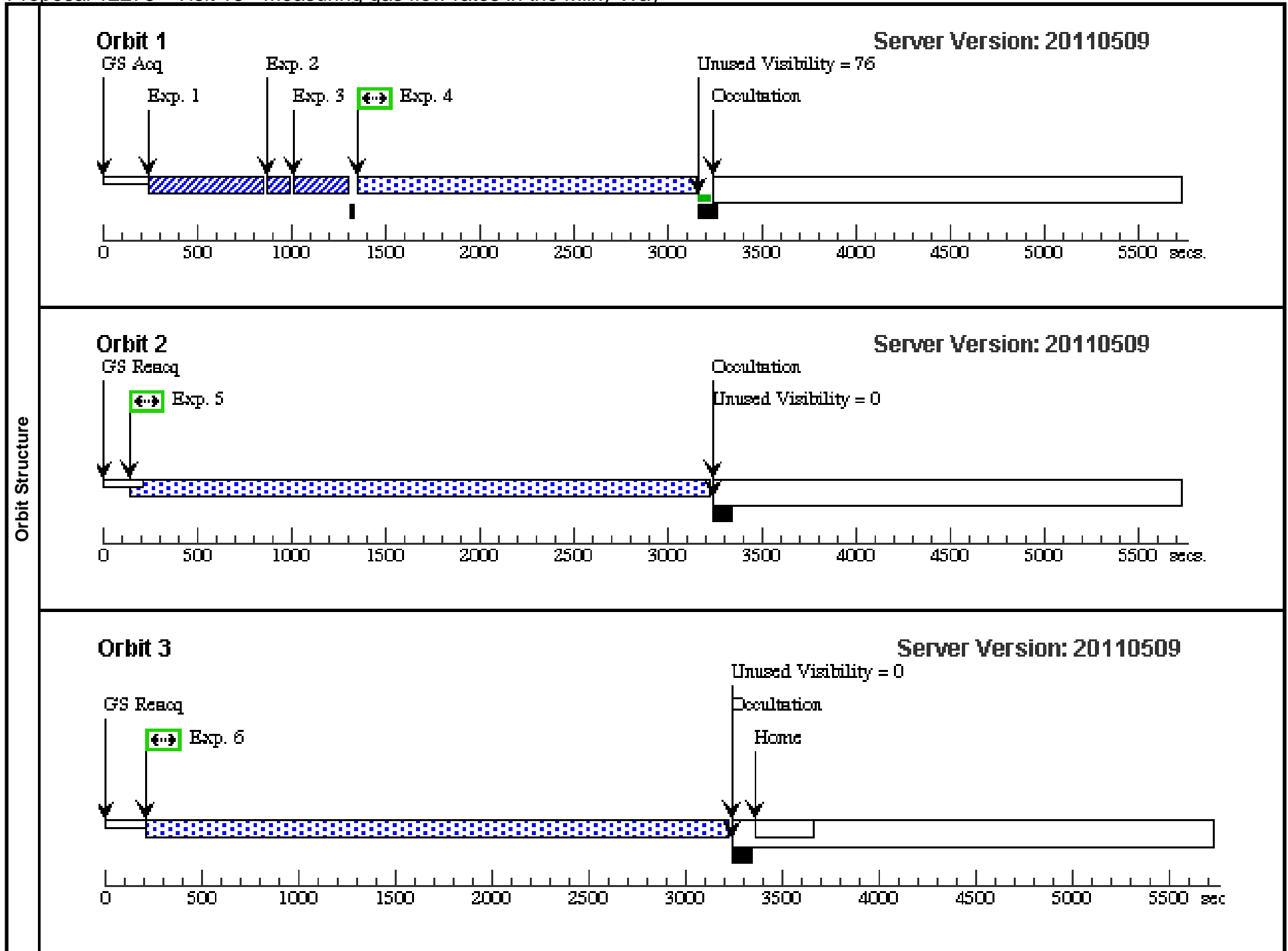
Visit	Proposal 12275, Visit 14, completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	UM428	RA: 11 26 40.6500 (171.6693750d) Dec: -01 41 38.00 (-1.69389d) Equinox: J2000	Redshift: 0.048	V=15.82+/-0.1 0.22E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	UM428-AC Q/SEARCH	(14) UM428	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			28 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.10E-14 erg/cm2/s/A. COS ETC result for S/N=30 is 30 sec (id COS.A3242749). Count rate 356/sec.</i>										
	2	UM428-AC Q/PEAKXD	(14) UM428	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				28 Secs [==>]	[1]	
	3	UM428-AC Q/PEAKD	(14) UM428	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			28 Secs [==>]	[1]	
	4	UM428-orbi t1(1327-3)	(14) UM428	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 25; FP-POS=3			1725 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 3395 sec</i>										
5	UM428-orbi t2(1291-3)	(14) UM428	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 48; FP-POS=3			2948 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at double nominal flux is 3395 sec</i>											
6	UM428-orbi t3(1291-4)	(14) UM428	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 48; FP-POS=4			2948 Secs [==>]	[3]		
<i>Comments: 2/3rd of buffer time at double nominal flux is 3395 sec</i>											



Proposal 12275 - Visit 15 - Measuring gas flow rates in the Milky Way

Thu Jul 07 01:08:34 GMT 2011

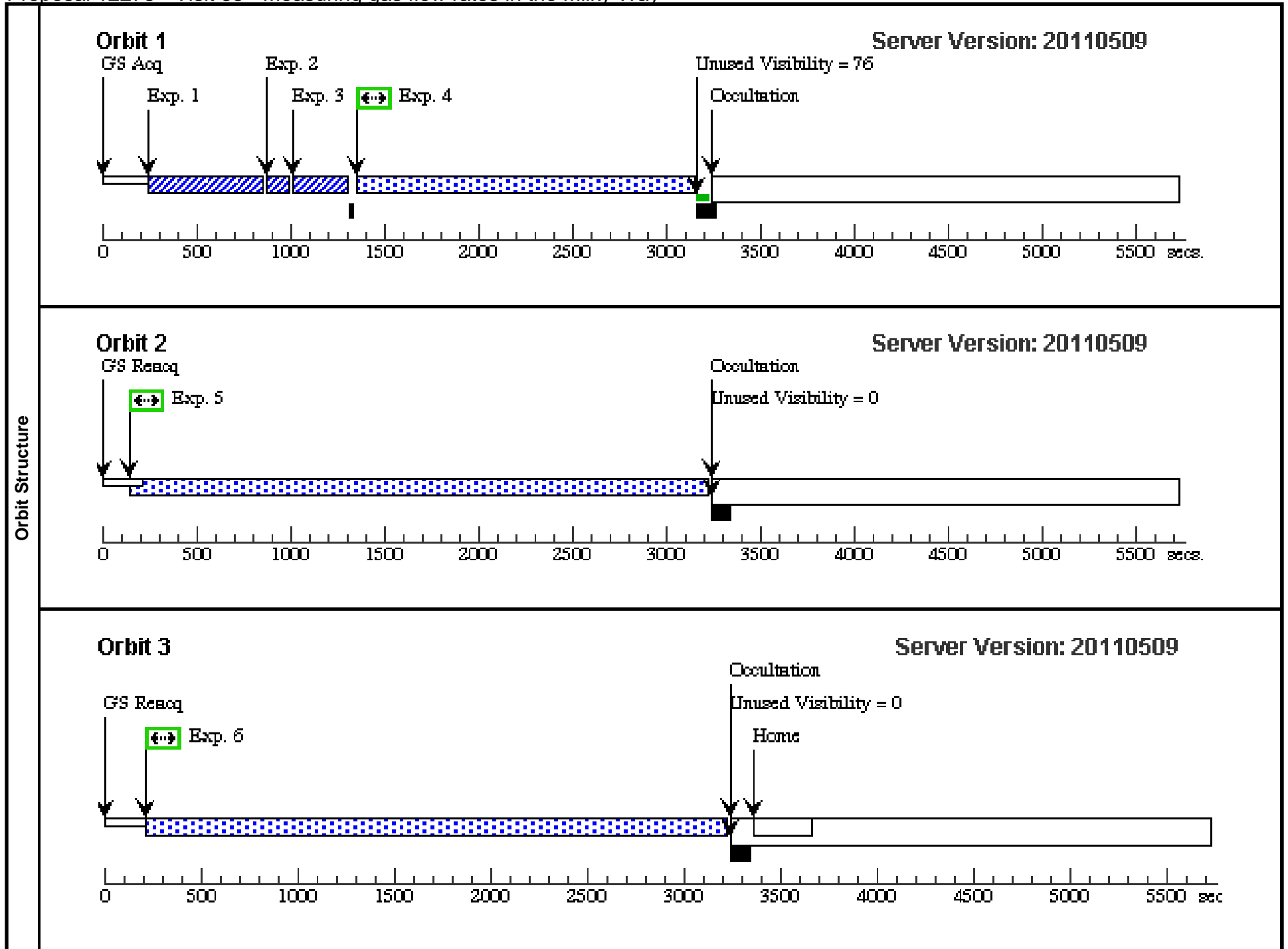
Visit	Proposal 12275, Visit 15, completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	HE1159-1338	RA: 12 01 58.7500 (180.4947917d) Dec: -13 54 59.90 (-13.91664d) Equinox: J2000	Redshift: 0.506	V=16.52+/-0.1 0.35E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	HE1159-133 8-ACQ/SEA RCH	(15) HE1159-1338	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			27 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.17E-14 erg/cm2/s/A. COS ETC result for S/N=40 is 29 sec (id COS.A324745) Count rate 384/sec.</i>										
	2	HE1159-133 8-ACQ/PEA KXD	(15) HE1159-1338	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				27 Secs [==>]	[1]	
	3	HE1159-133 8-ACQ/PEA KD	(15) HE1159-1338	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			27 Secs [==>]	[1]	
	4	HE1159-133 8-orbit1(132 7-3)	(15) HE1159-1338	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 51; FP-POS=3			1751 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2685 sec</i>										
5	HE1159-133 8-orbit2(129 1-3)	(15) HE1159-1338	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 59; FP-POS=3			2959 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at double nominal flux is 2685 sec</i>											
6	HE1159-133 8-orbit3(129 1-4)	(15) HE1159-1338	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 59; FP-POS=4			2959 Secs [==>]	[3]		
<i>Comments: 2/3rd of buffer time at double nominal flux is 2685 sec</i>											



Proposal 12275 - Visit 65 - Measuring gas flow rates in the Milky Way

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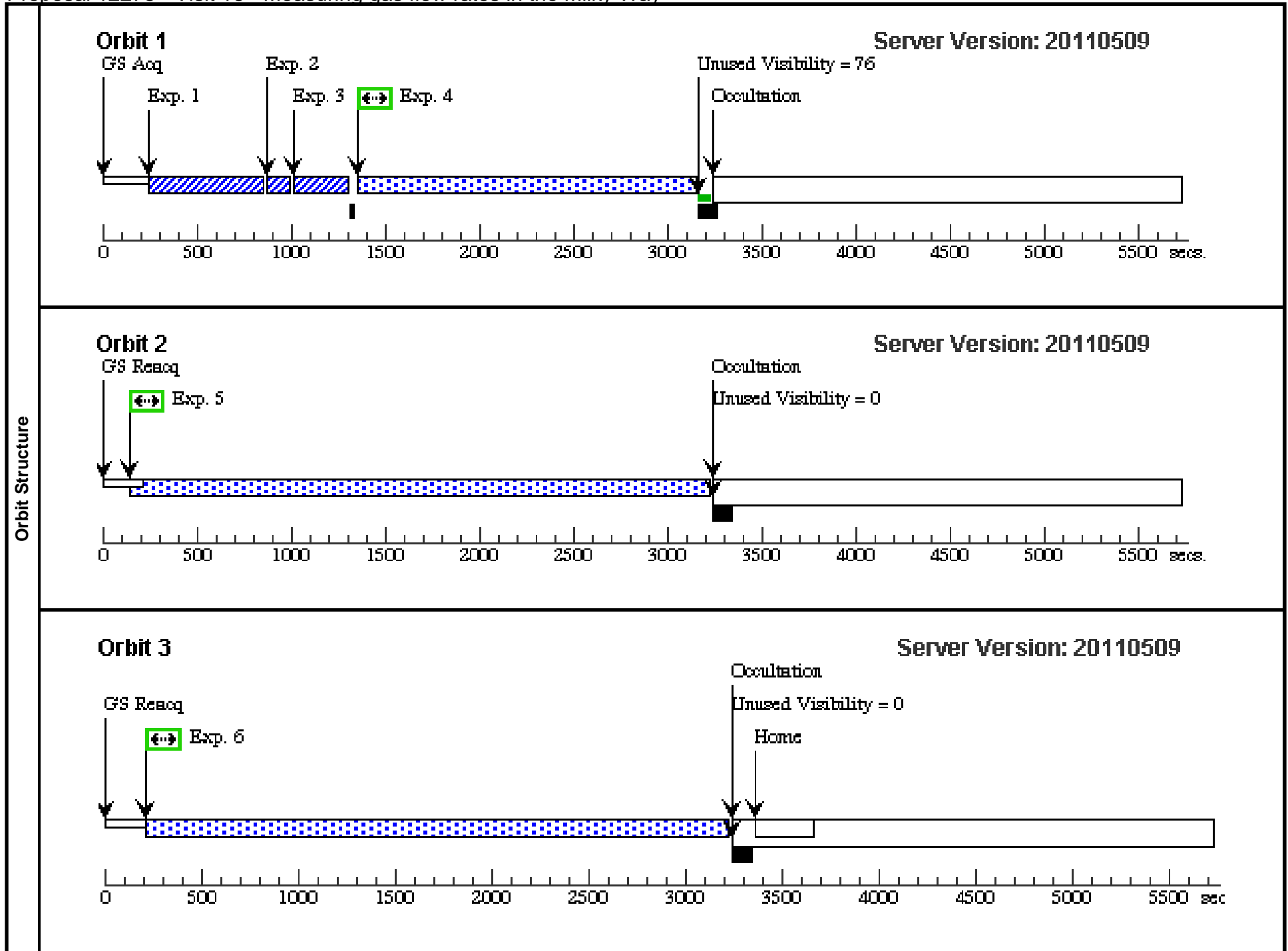
Visit	Proposal 12275, Visit 65 Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	HE1159-1338	RA: 12 01 58.7500 (180.4947917d) Dec: -13 54 59.90 (-13.91664d) Equinox: J2000	Redshift: 0.506	V=16.52+/-0.1 0.35E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	HE1159-133 8-ACQ/SEA RCH	(15) HE1159-1338	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3				27 Secs [==>]	[1]
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.17E-14 erg/cm2/s/A. COS ETC result for S/N=40 is 29 sec (id COS.A324745) Count rate 384/sec.</i>										
	2	HE1159-133 8-ACQ/PEA KXD	(15) HE1159-1338	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A					27 Secs [==>]	[1]
	3	HE1159-133 8-ACQ/PEA KD	(15) HE1159-1338	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A		NUM-POS=5; STEP-SIZE=0.9			27 Secs [==>]	[1]
	4	HE1159-133 8-orbit1(132 7-3)	(15) HE1159-1338	COS/FUV, TIME-TAG, PSA	G130M 1327 A		BUFFER-TIME=17 51; FP-POS=3			1751 Secs [==>]	[1]
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2685 sec</i>										
5	HE1159-133 8-orbit2(129 1-3)	(15) HE1159-1338	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=29 59; FP-POS=3			2959 Secs [==>]	[2]	
<i>Comments: 2/3rds of buffer time at double nominal flux is 2685 sec</i>											
6	HE1159-133 8-orbit3(129 1-4)	(15) HE1159-1338	COS/FUV, TIME-TAG, PSA	G130M 1291 A		BUFFER-TIME=29 59; FP-POS=4			2959 Secs [==>]	[3]	
<i>Comments: 2/3rd of buffer time at double nominal flux is 2685 sec</i>											



Proposal 12275 - Visit 16 - Measuring gas flow rates in the Milky Way

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Visit	Proposal 12275, Visit 16, completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(16)	PKS1136-13	RA: 11 39 10.7000 (174.7945833d) Dec: -13 50 44.00 (-13.84556d) Equinox: J2000	Redshift: 0.558	V=16.53+/-0.1 0.33E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	PKS1136-13 -ACQ/SEA RCH	(16) PKS1136-13	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			27 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.17E-14 erg/cm2/s/A. COS ETC result for S/N=40 is 29 sec (id COS.A324746) Count rate 384/sec.</i>										
	2	PKS1136-13 -ACQ/PEA KXD	(16) PKS1136-13	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				27 Secs [==>]	[1]	
	3	PKS1136-13 -ACQ/PEA KD	(16) PKS1136-13	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			27 Secs [==>]	[1]	
	4	PKS1136-13 -orbit1(1327 -3)	(16) PKS1136-13	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=17 51; FP-POS=3			1751 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 2685 sec</i>										
5	PKS1136-13 -orbit2(1291 -3)	(16) PKS1136-13	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 59; FP-POS=3			2959 Secs [==>]	[2]		
<i>Comments: 2/3rds of buffer time at double nominal flux is 2685 sec</i>											
6	PKS1136-13 -orbit3(1291 -4)	(16) PKS1136-13	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=29 59; FP-POS=4			2959 Secs [==>]	[3]		
<i>Comments: 2/3rd of buffer time at double nominal flux is 2685 sec</i>											



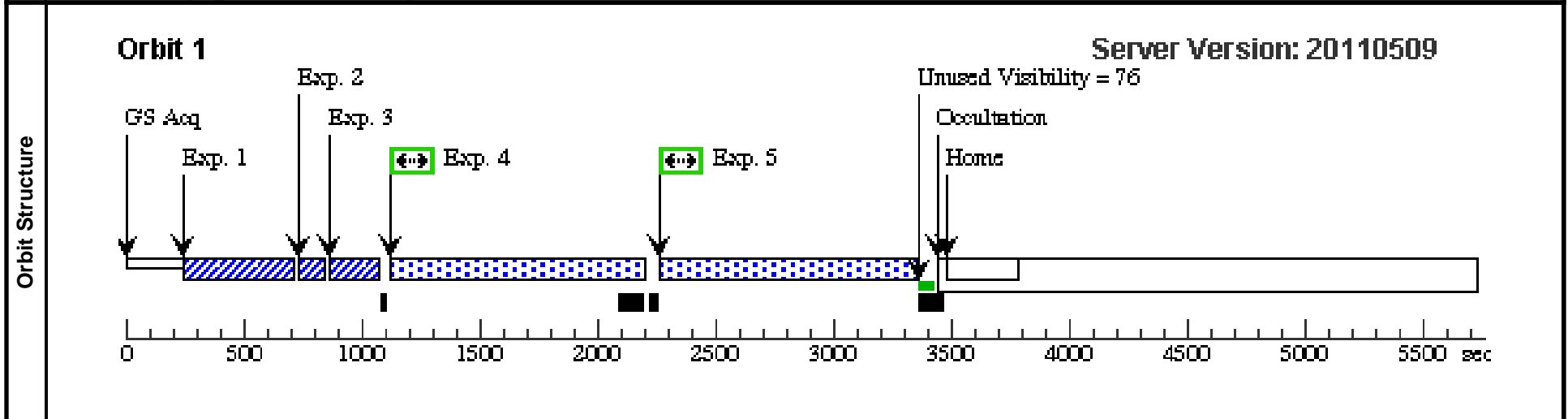
Proposal 12275 - Visit 17 - Measuring gas flow rates in the Milky Way

Thu Jul 07 01:08:35 GMT 2011

Visit	Proposal 12275, Visit 17, scheduling				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(17)	HE0429-5343	RA: 04 30 40.0000 (67.6666667d) Dec: -53 36 56.00 (-53.61556d) Equinox: J2000	Redshift: 0.040	V=16.54+/-0.1 1.2E-14	Reference Frame: ICRS
	<i>Comments: Flux from FUSE</i>					

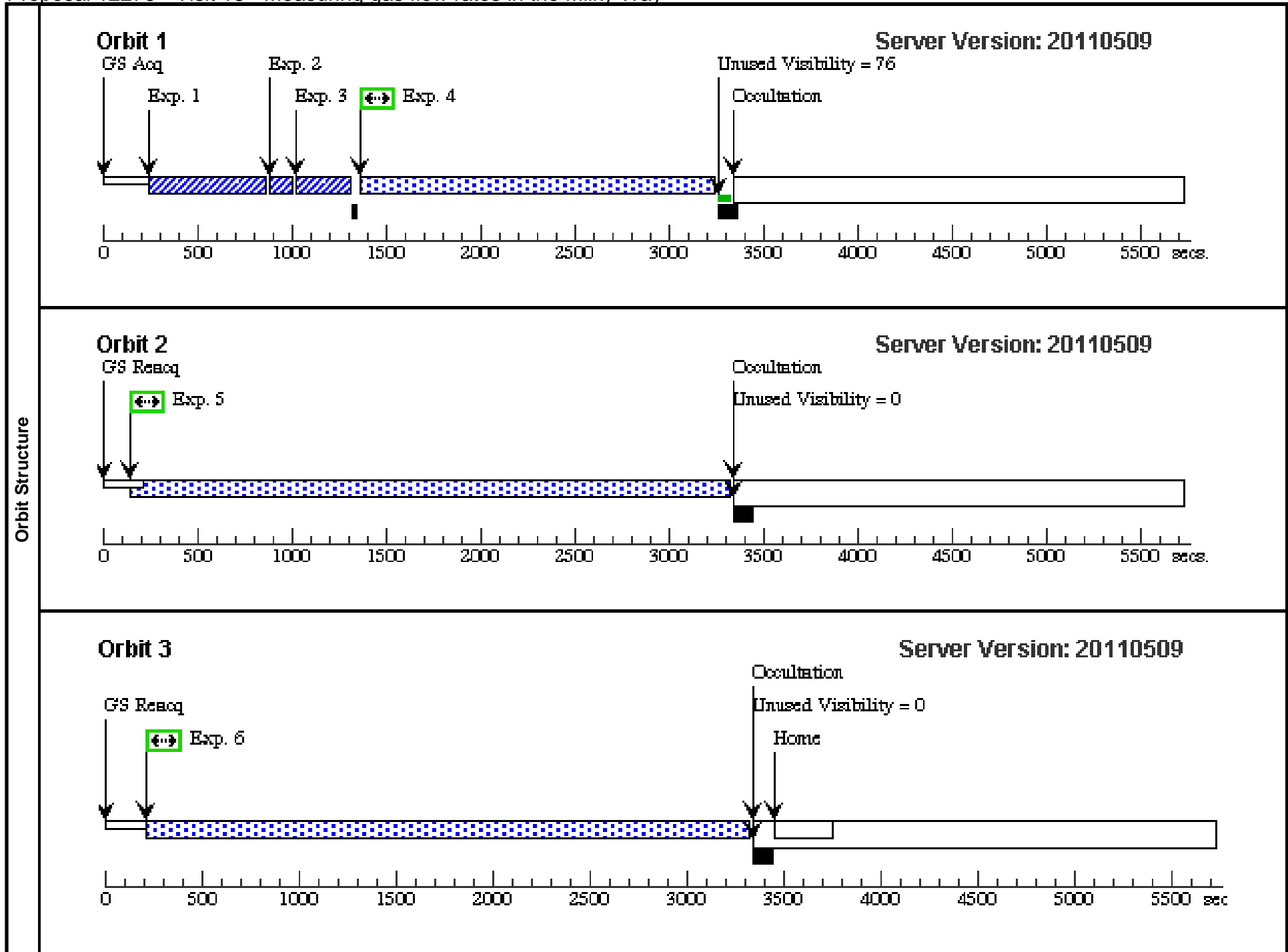
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
	1	HE0429-534 (17) HE0429-5343 3-ACQ/SEA RCH	(17) HE0429-5343	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			12 Secs [==>]	[1]
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.6E-14 erg/cm2/s/A. COS ETC result for S/N=50 is 12 sec (id COS.A324740). Count rate 547/sec.</i>									
	2	HE0429-534 (17) HE0429-5343 3-ACQ/PEA KXD	(17) HE0429-5343	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				12 Secs [==>]	[1]
	3	HE0429-534 (17) HE0429-5343 3-ACQ/PEA KD	(17) HE0429-5343	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			12 Secs [==>]	[1]
	4	HE0429-534 (17) HE0429-5343 3-orbit1	(17) HE0429-5343	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=93 3; FP-POS=3			1033 Secs [==>]	[1]
	<i>Comments: 2/3rds of buffer time at double nominal flux is 1272 sec</i>									
	5	HE0429-534 (17) HE0429-5343 3-orbit1	(17) HE0429-5343	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=10 34; FP-POS=4			1034 Secs [==>]	[1]
	<i>Comments: 2/3rds of buffer time at double nominal flux is 1272 sec</i>									



Proposal 12275 - Visit 18 - Measuring gas flow rates in the Milky Way

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Visit	Proposal 12275, Visit 18, completed Diagnostic Status: No Diagnostics Scientific Instruments: COS/FUV Special Requirements: (none)										
	Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	PG1112+431	RA: 11 15 6.0500 (168.7752083d) Dec: +42 49 48.50 (42.83014d) Equinox: J2000	Redshift: 0.300	V=17.62+/-0.1 0.25E-14	Reference Frame: ICRS					
	<i>Comments: Flux from GALEX</i>										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	PG1112+43 1-ACQ/SEA RCH	(18) PG1112+431	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3				28 Secs [==>]	[1]
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=0.13E-14 erg/cm2/s/A. COS ETC result for S/N=35 is 30 sec (id COS.A324746) Count rate 367/sec.</i>										
	2	PG1112+43 1-ACQ/PEA KXD	(18) PG1112+431	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A					28 Secs [==>]	[1]
	3	PG1112+43 1-ACQ/PEA KD	(18) PG1112+431	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9				28 Secs [==>]	[1]
	4	PG1112+43 1-orbit1(132 7-3)	(18) PG1112+431	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=18 32; FP-POS=3				1832 Secs [==>]	[1]
	<i>Comments: 2/3rds of buffer time at double nominal flux is 3089 sec</i>										
5	PG1112+43 1-orbit2(129 1-3)	(18) PG1112+431	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=30 55; FP-POS=3				3055 Secs [==>]	[2]	
<i>Comments: 2/3rds of buffer time at double nominal flux is 3089 sec</i>											
6	PG1112+43 1-orbit3(129 1-4)	(18) PG1112+431	COS/FUV, TIME-TAG, PSA	G130M 1291 A	BUFFER-TIME=30 55; FP-POS=4				3055 Secs [==>]	[3]	
<i>Comments: 2/3rd of buffer time at double nominal flux is 3089 sec</i>											



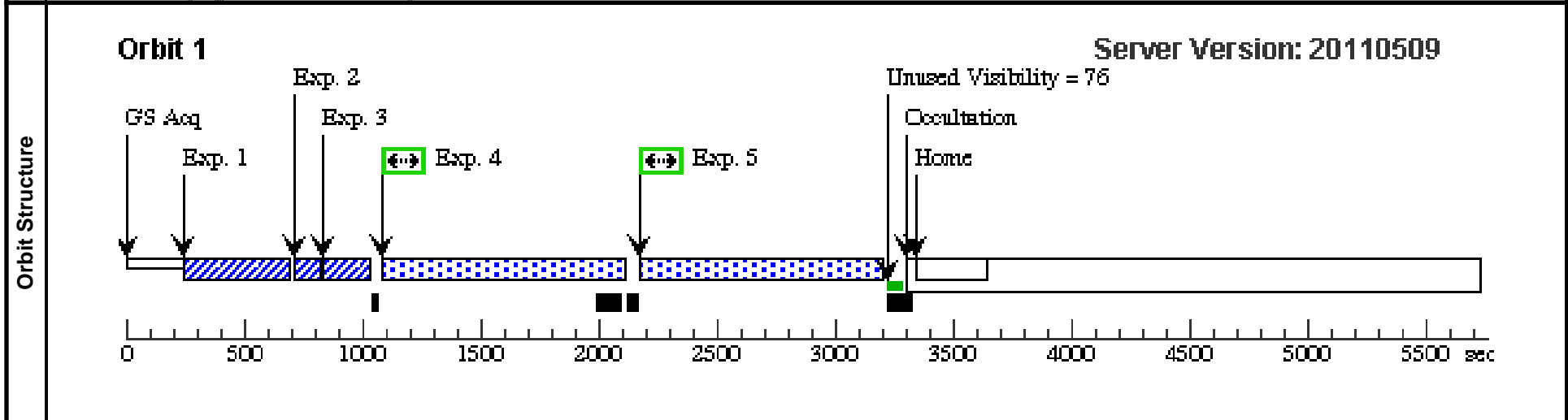
Proposal 12275 - Visit 19 - Measuring gas flow rates in the Milky Way

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Visit	Proposal 12275, Visit 19, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(19)	TON1187	RA: 10 13 3.2000 (153.2633333d) Dec: +35 51 23.00 (35.85639d) Equinox: J2000	Redshift: 0.079	V=15.42+/-0.1 2.0E-14	Reference Frame: ICRS
	<i>Comments: Flux from FUSE</i>					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	TON1187-A CQ/SEAR H	(19) TON1187	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			9 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=1.0E-14 erg/cm2/s/A. COS ETC result for S/N=60 is 11 sec (id COS.A324769). Count rate 700/sec.</i>										
	2	TON1187-A CQ/PEAK D	(19) TON1187	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				9 Secs [==>]	[1]	
	3	TON1187-A CQ/PEAK D	(19) TON1187	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			9 Secs [==>]	[1]	
	4	TON1187-o rbit1(1327-3)	(19) TON1187	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=87 9; FP-POS=3			979 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 851 sec</i>										
	5	TON1187-o rbit1(1327-4)	(19) TON1187	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=97 9; FP-POS=4			979 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 851 sec</i>										



Proposal 12275 - Visit 20 - Measuring gas flow rates in the Milky Way

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Visit	Proposal 12275, Visit 20, completed				
	Diagnostic Status: No Diagnostics				
	Scientific Instruments: COS/FUV				
	Special Requirements: (none)				

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(20)	PG0044+030	RA: 00 47 5.9000 (11.7745833d) Dec: +03 19 55.00 (3.33194d) Equinox: J2000	Redshift: 0.624	V=16.37+/-0.1 0.75E-14	Reference Frame: ICRS
	<i>Comments: Flux from GALEX</i>					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit	
	1	PG0044+03 0-ACQ/SEA RCH	(20) PG0044+030	COS/FUV, ACQ/SEARCH, PSA	G130M 1327 A	SCAN-SIZE=3			9 Secs [==>]	[1]	
	<i>Comments: Acquisition exposure with G130M spectral element. Calculated for 0.5*F(1700)=1.0E-14 erg/cm2/s/A. COS ETC result for S/N=60 is 11 sec (id COS.A324769).</i>										
	2	PG0044+03 0-ACQ/PEA KXD	(20) PG0044+030	COS/FUV, ACQ/PEAKXD, PSA	G130M 1327 A				9 Secs [==>]	[1]	
	3	PG0044+03 0-ACQ/PEA KD	(20) PG0044+030	COS/FUV, ACQ/PEAKD, PSA	G130M 1327 A	NUM-POS=5; STEP-SIZE=0.9			9 Secs [==>]	[1]	
	4	PG0044+03 0-orbit1(132 7-3)	(20) PG0044+030	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=84 5; FP-POS=3			945 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 900 sec</i>										
	5	PG0044+03 0-orbit1(132 7-4)	(20) PG0044+030	COS/FUV, TIME-TAG, PSA	G130M 1327 A	BUFFER-TIME=94 6; FP-POS=4			946 Secs [==>]	[1]	
	<i>Comments: 2/3rds of buffer time at double nominal flux is 900 sec</i>										

