



14149 - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Cycle: 23, Proposal Category: SNAP

(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) SN2006X	WFC3/UVIS	1	09-Nov-2016 10:50:38.0	yes
02	(2) SN2012CG	WFC3/UVIS	1	09-Nov-2016 10:50:39.0	yes
03	(3) SN2013DY	WFC3/UVIS	1	09-Nov-2016 10:50:40.0	yes
04	(4) SN2005HK	WFC3/UVIS	1	09-Nov-2016 10:50:40.0	yes
05	(5) SN2014DT	WFC3/UVIS	1	09-Nov-2016 10:50:41.0	yes
06	(6) MOTJ1204+2	WFC3/UVIS	1	09-Nov-2016 10:50:42.0	yes

Proposal 14149 (STScI Edit Number: 0, Created: Wednesday, November 9, 2016 10:51:00 AM EST) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
07	(7) SN2010AS	WFC3/UVIS	1	09-Nov-2016 10:50:42.0	yes
08	(8) SN2012AU	WFC3/UVIS	1	09-Nov-2016 10:50:43.0	yes
09	(9) SN2015G	WFC3/UVIS	1	09-Nov-2016 10:50:43.0	yes
10	(10) SN2013DF	WFC3/UVIS	1	09-Nov-2016 10:50:44.0	yes
11	(11) SN2012A	WFC3/UVIS	1	09-Nov-2016 10:50:45.0	yes
12	(12) SN2012AW	WFC3/UVIS	1	09-Nov-2016 10:50:45.0	yes
13	(13) SN2013GE	WFC3/UVIS	1	09-Nov-2016 10:50:46.0	yes
14	(14) UGC2773-OT	WFC3/UVIS	1	09-Nov-2016 10:50:46.0	yes
15	(15) SNHUNT151	WFC3/UVIS	1	09-Nov-2016 10:50:47.0	yes
16	(16) SN2006TF	WFC3/UVIS	1	09-Nov-2016 10:50:48.0	yes
17	(17) SN2010MC	WFC3/UVIS	1	09-Nov-2016 10:50:48.0	yes
18	(18) SN2010JL	WFC3/UVIS	1	09-Nov-2016 10:50:49.0	yes
20	(20) NGC4559-OT	WFC3/UVIS	1	09-Nov-2016 10:50:49.0	yes
21	(21) NGC2366-V1	WFC3/UVIS	1	09-Nov-2016 10:50:50.0	yes
22	(22) NGC5775-OT	WFC3/UVIS	1	09-Nov-2016 10:50:50.0	yes
23	(23) SN2000CH	WFC3/UVIS	1	09-Nov-2016 10:50:51.0	yes
24	(24) MOTJ0444+2	WFC3/UVIS	1	09-Nov-2016 10:50:52.0	yes
25	(25) SN2011FH	WFC3/UVIS	1	09-Nov-2016 10:50:52.0	yes
26	(26) SN2005IP	WFC3/UVIS	1	09-Nov-2016 10:50:53.0	yes
27	(27) SN2006GY	WFC3/UVIS	1	09-Nov-2016 10:50:53.0	yes
28	(28) SN2013DZ	WFC3/UVIS	1	09-Nov-2016 10:50:54.0	yes
29	(29) ASASSN-15LH	WFC3/UVIS	1	09-Nov-2016 10:50:54.0	yes
30	(30) PSN0728+3349	WFC3/UVIS	1	09-Nov-2016 10:50:55.0	yes
31	(31) SN2011DH	WFC3/UVIS	1	09-Nov-2016 10:50:56.0	yes
32	(32) IPTF14ATG	WFC3/UVIS	1	09-Nov-2016 10:50:56.0	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>
33	(33) IPTF14BDN	WFC3/UVIS	1	09-Nov-2016 10:50:57.0	yes
34	(34) SN2013FW	WFC3/UVIS	1	09-Nov-2016 10:50:57.0	yes
35	(35) ASASSN-15MG	WFC3/UVIS	1	09-Nov-2016 10:50:58.0	yes
36	(36) SN2010JP	WFC3/UVIS	1	09-Nov-2016 10:50:59.0	yes

35 Total Orbits Used

ABSTRACT

During the past decade, robotic (or nearly robotic) searches for supernovae (SNe), most notably our Lick Observatory Supernova Search (LOSS), have found hundreds of SNe, many of them in quite nearby galaxies ($cz < 4000$ km/s). Most of the objects were discovered before maximum brightness, and have follow-up photometry and spectroscopy; they include some of the best-studied SNe to date. We propose to continue our successful program of imaging the sites of some of these nearby objects, to obtain late-time photometry that will help reveal the origin of their lingering energy. We will also search for possible stellar remnants of Type Iax SNe, an intriguing new possibility. Moreover, the images will provide high-resolution information on the local environments of SNe that are far superior to what we can procure from the ground. For example, we will obtain color-magnitude diagrams of stars in these SN sites, to constrain the reddening and SN progenitor masses. We will search for light echoes around SNe, an important clue to their progenitor systems. We also propose to image several "SN impostors" -- faint SNe II_n with massive progenitors -- to verify whether they are indeed super-outbursts of luminous blue variables and survived the explosions, or a new/weak class of massive-star explosions.

OBSERVING DESCRIPTION

We wish to obtain WFC3 images of the sites of nearby, recent SNe discovered or monitored by LOSS. Most of the objects are core-collapse SNe, which have massive, short-lived progenitors (making it also possible to study individual stars in their local environment), but several SNe Ia will also be imaged to obtain late-time measurements in crowded environments and provide statistics on light echoes. The use of standard wide bands will permit direct comparisons with other HST observations. Although there are tradeoffs, we feel that WFC3 is superior to ACS for our purposes, due to its higher resolution and, more importantly, shorter overhead time for the relatively brief snapshot visits. Note that a substantial part of the host galaxies of the SNe will be imaged with WFC3, and the data can be used for many other studies, such as galaxy morphology, stellar populations, variable stars, star clusters, H II regions, and the search for future SN progenitors. We will adjust the pointing coordinates of the telescope to make

sure the SN sites and the maximum portion of their host galaxies are imaged.

Accurate astrometry will generally be needed in order to locate the faint SN in its environment. This requires imposing an independent reference grid onto the WFC3 image, using stars that have been measured in deep, ground-based images and tied to the USNO B1 systems. We have access to telescopes at the Lick, Palomar, CFHT, Gemini, Magellan, and Keck Observatories, where we have been obtaining such images of each SN field. We have verified in previous studies that the number of stars typically visible in the HST and ground-based images is sufficient for our purposes.

Given our desire to go fairly deep, and the advantage of having some color information for SNe (and their environments), the use of at least two filters is deemed necessary, and we choose F555W (V) and F814W (I) filters for our proposed visits. The F814W filter is sensitive to massive, evolved stars in the neighborhood of core-collapse SNe, and provides constraints on the possible circumstellar material interaction and dust formation around SNe, while the F555W filter provides color information for the SNe and the stellar content of the environment, and is also more sensitive to possible light echoes. The CR-SPLIT exposures will be dithered, as requested (Call for Proposals, Sec. 4.1.7), to improve data quality.

For a single visit to be ~35 minutes long (the peak of the distribution of snapshot visits has historically been around 30-35 minutes, according to the HST Snapshot document at [http://www.stsci.edu/hst/HST overview/documents/](http://www.stsci.edu/hst/HST%20overview/documents/)), there can be only one filter change and only one CR-SPLIT pair of WFC3 exposures through each filter. Due to a severe overhead of 5.8 min for any short (< 339 s) exposures among the first three exposures in a visit, we design a visit with the first pair of exposures having 390 s integration each, while the second pair of exposures have 390 s and 320 s integrations (the last short exposure does not impose the 5.8 min overhead penalty). This yields a total visit time of 2380 s = 37.66 minutes. We have verified with existing HST data that uneven integration times (by a factor of 2) in a dithered CR-SPLIT exposure do not pose problems for cosmic-ray removal. The long pair of exposures (totalling 680 s) is used for the F814W filter because it has less sensitivity than the F555W filter.

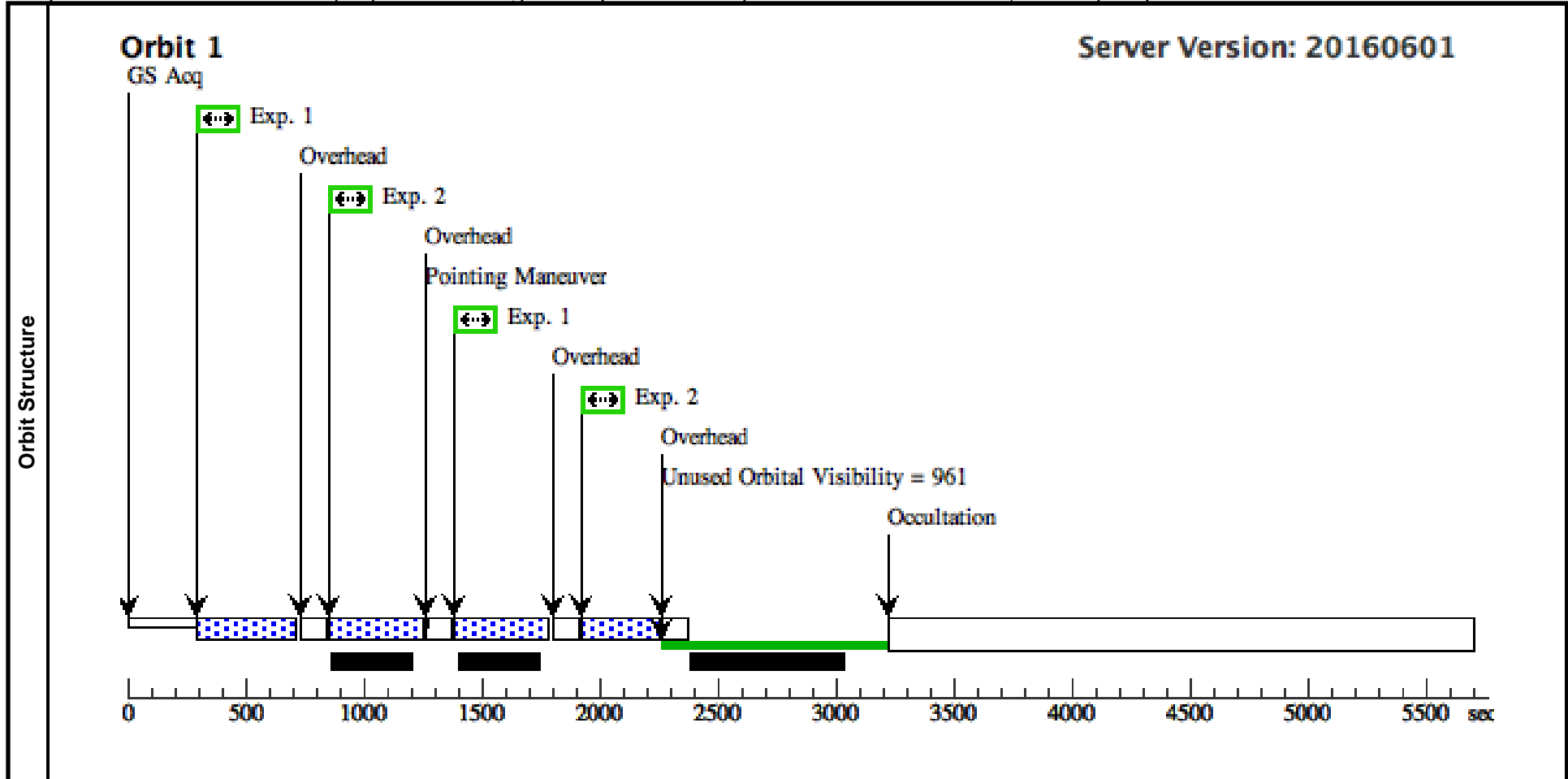
We have chosen 35 nearby SNe/SN impostors as the superset of targets for our snapshot study. We concentrate on the most recent ones (which have the highest probability of being detected in the HST images), as well as on long-lived SNe (as judged from their continually updated ground-based light curves).

Our total request is 35 snapshots in 35 visits (at about 37 minutes per visit). Each visit will target one SN with the F555W and F814W filters.

Proposal 14149 - SN2006X (01) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

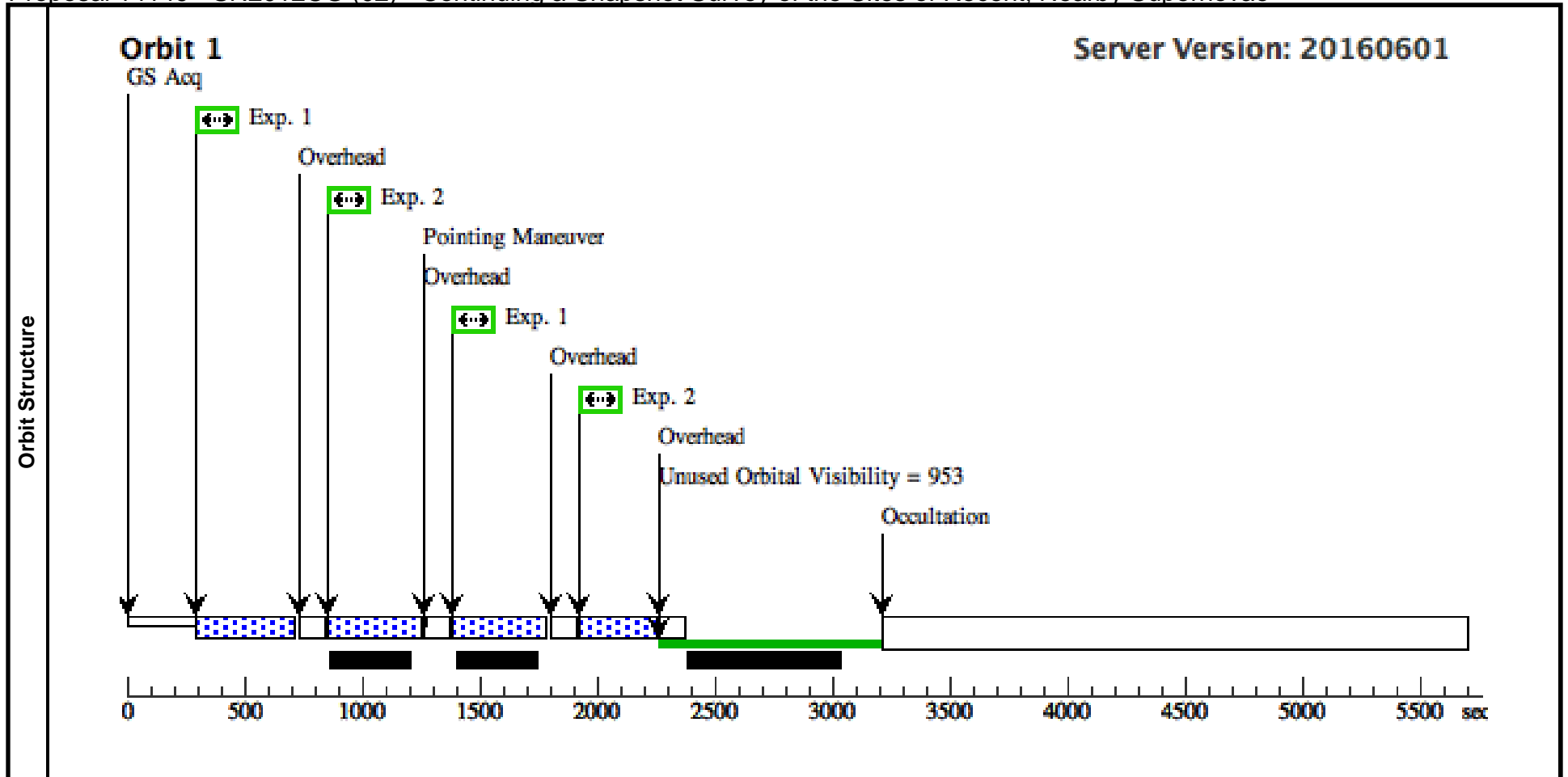
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(1)	SN2006X	RA: 12 22 54.0000 (185.7250000d) Dec: +15 48 33.10 (15.80919d) Equinox: J2000	Redshift: 0.00529	V=26	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(1) SN2006X	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2006X (01) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
2	F555W	(1) SN2006X	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4			Pattern 1, Exps 1-2 in SN2006X (01) (1)	710 Secs (710 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2012CG (02) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

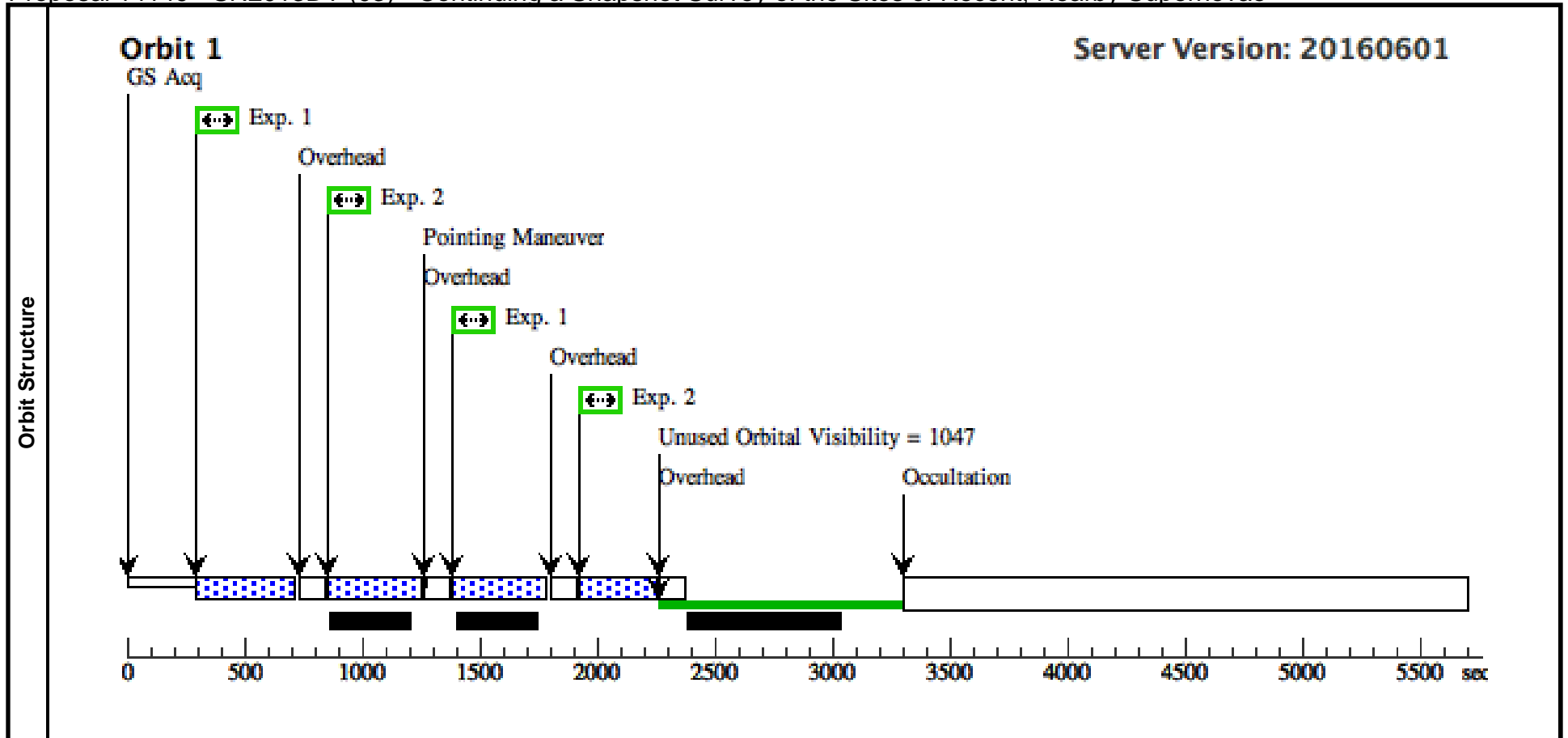
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	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(2)	SN2012CG	RA: 12 27 13.0000 (186.8041667d) Dec: +09 25 13.20 (9.42033d) Equinox: J2000	Redshift: 0.001466666667	V=26	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(2) SN2012CG	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2012CG (02) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
2	F555W	(2) SN2012CG	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4			Pattern 1, Exps 1-2 in SN2012CG (02) (1)	710 Secs (710 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2013DY (03) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

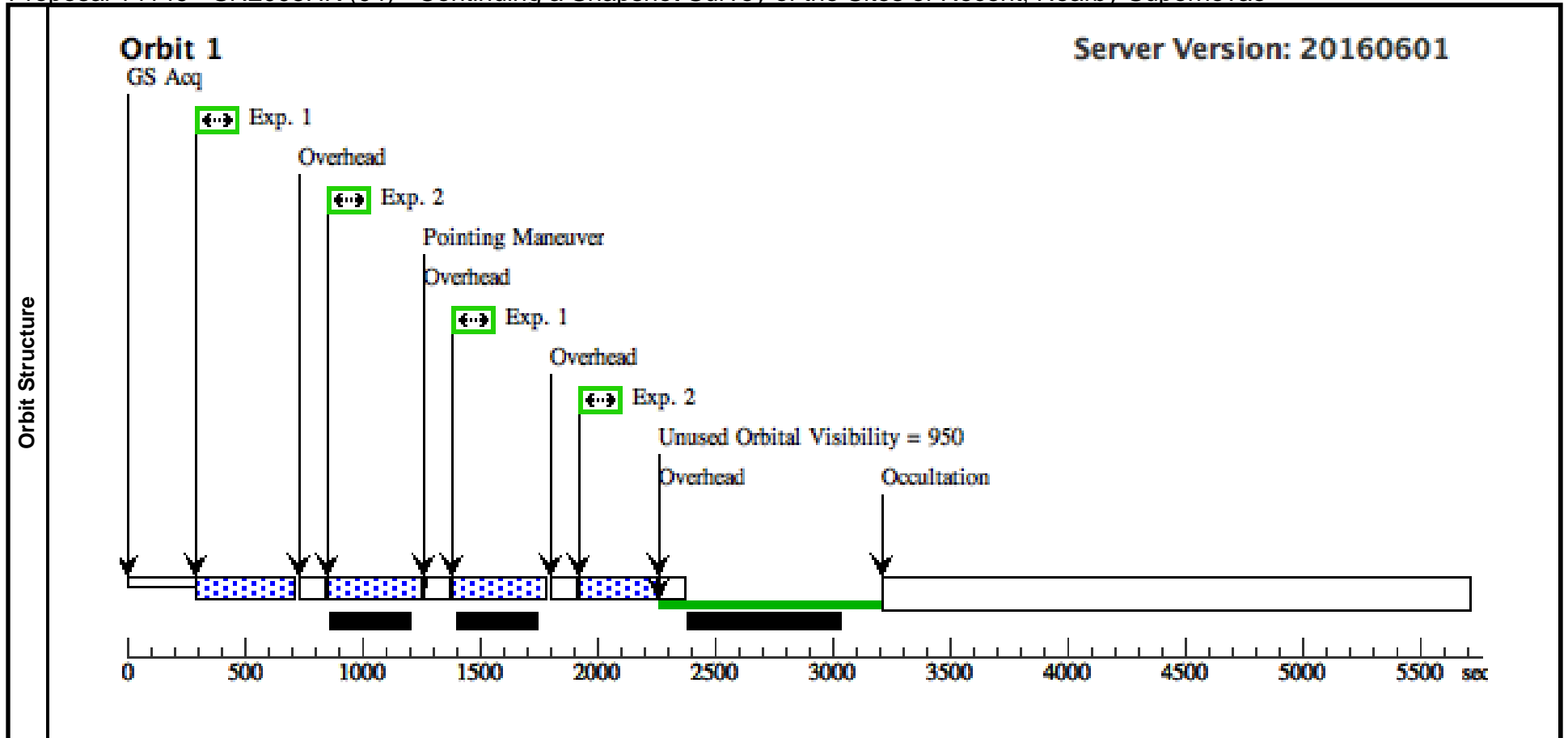
Visit	Proposal 14149, SN2013DY (03), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
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		(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(3)	SN2013DY	RA: 22 18 18.0000 (334.5750000d) Dec: +40 34 9.60 (40.56933d) Equinox: J2000	Redshift: 0.003883333333	V=26	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(3) SN2013DY	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2013DY (03) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)]	[1]
	2	F555W	(3) SN2013DY	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=3		Pattern 1, Exps 1-2 in SN2013DY (03) (1)	710 Secs (710 Secs)	
									[==>390.0 Secs (Pattern 1)]	[1]
									[==>320.0 Secs (Pattern 2)]	



Proposal 14149 - SN2005HK (04) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

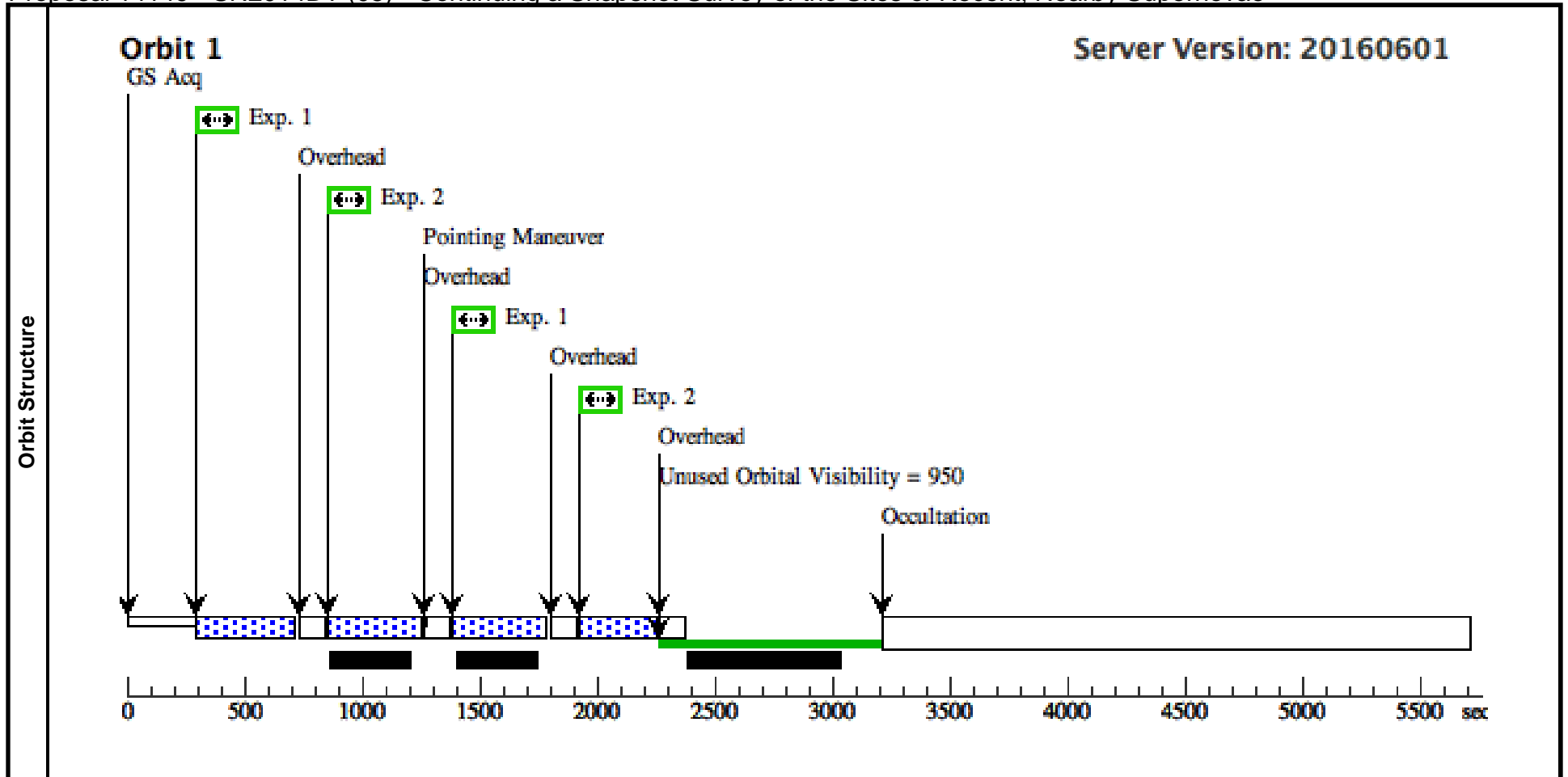
Visit	Proposal 14149, SN2005HK (04), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(4)	SN2005HK	RA: 00 27 51.0000 (6.9625000d) Dec: -01 11 53.00 (-1.19806d) Equinox: J2000	Redshift: 0.0129266667	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(4) SN2005HK	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2005HK (04) (1)	780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(4) SN2005HK	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in SN2005HK (04) (1)	710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2014DT (05) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

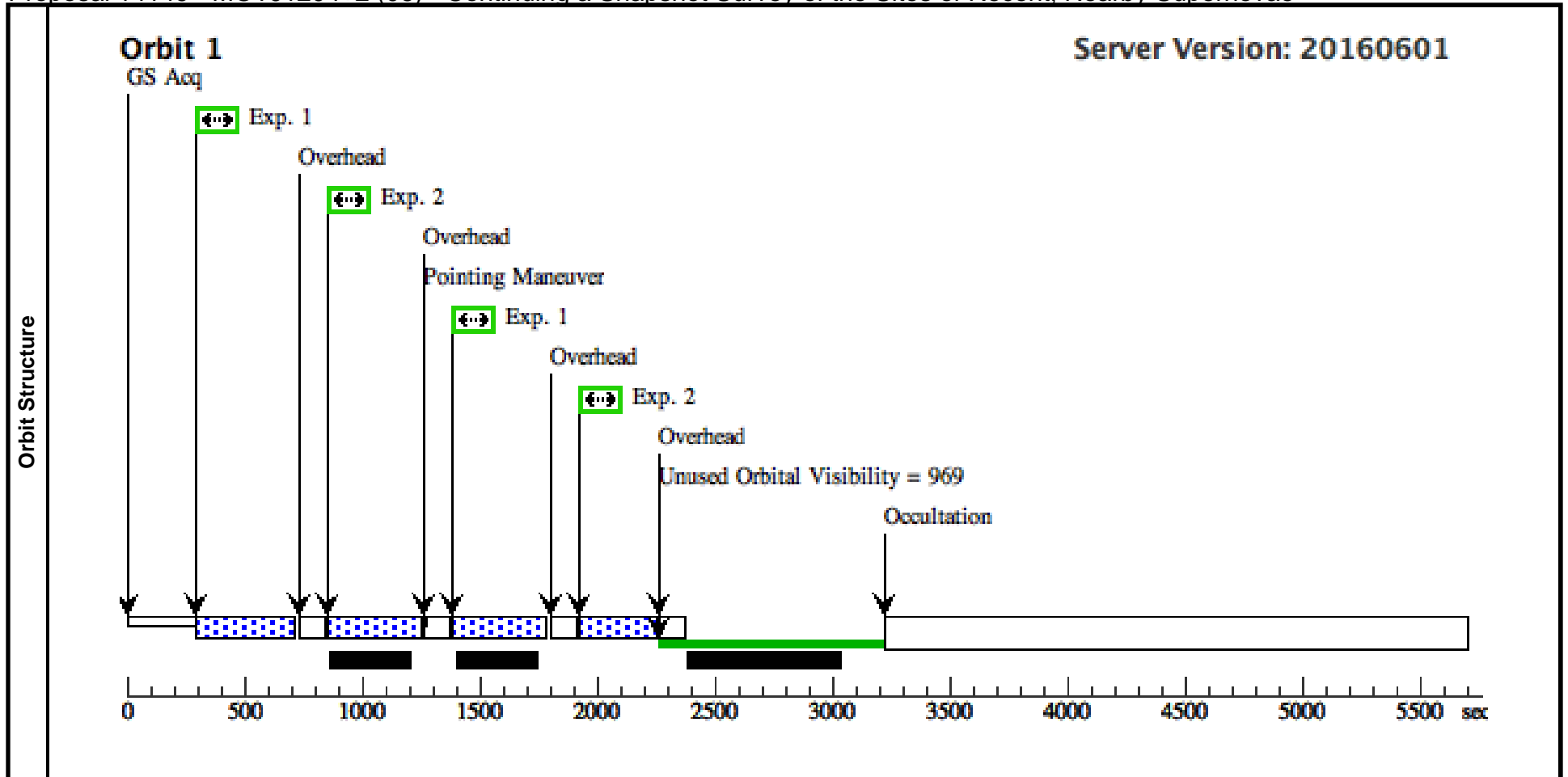
Visit	Proposal 14149, SN2014DT (05), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SN2014DT	RA: 12 21 58.0000 (185.4916667d) Dec: +04 28 18.50 (4.47181d) Equinox: J2000	Redshift: 0.005246666667	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(5) SN2014DT	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2014DT (05) (1)	780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(5) SN2014DT	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in SN2014DT (05) (1)	710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - MOTJ1204+2 (06) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

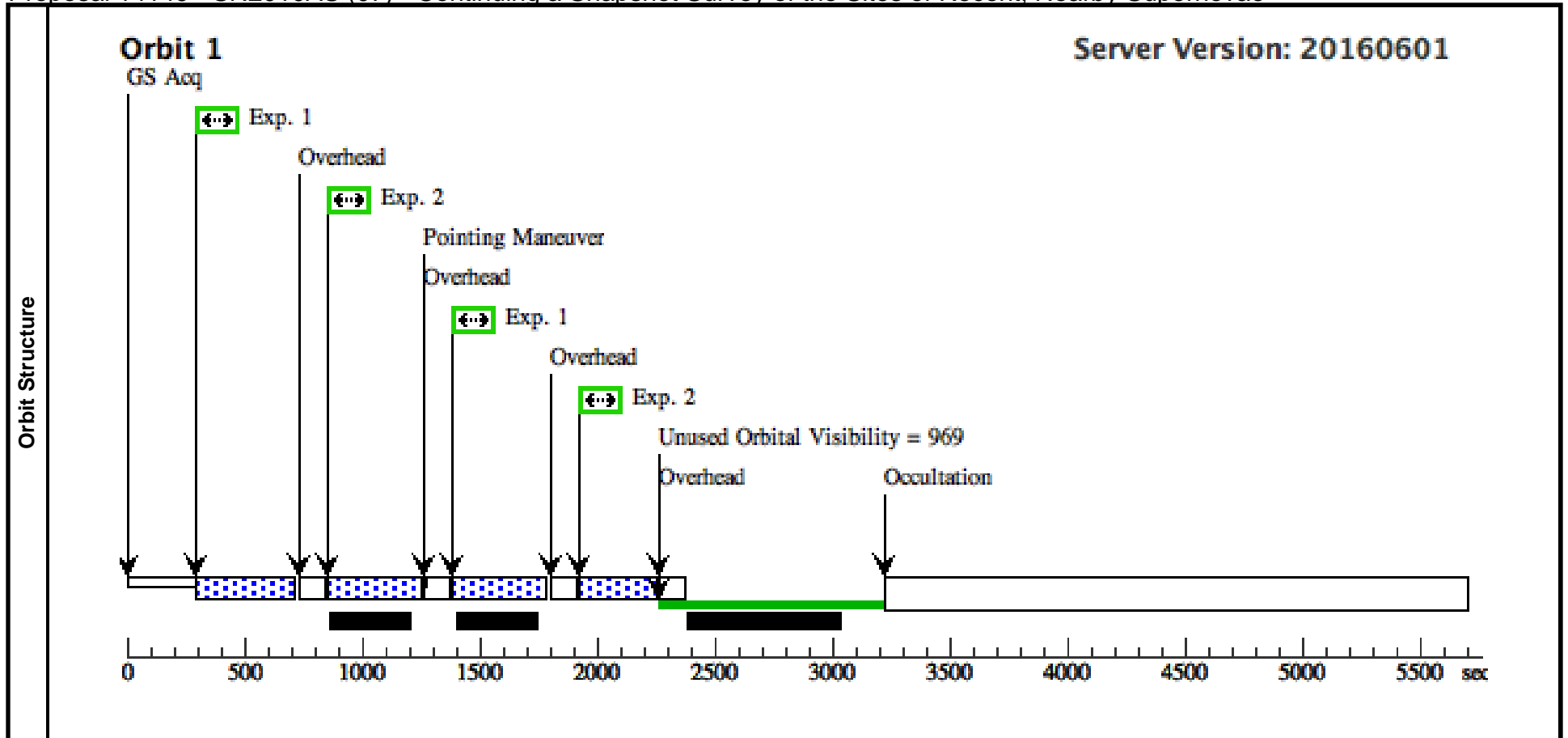
Visit	Proposal 14149, MOTJ1204+2 (06), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(6)	MOTJ1204+2	RA: 12 04 52.0000 (181.2166667d) Dec: +26 59 46.60 (26.99628d) Equinox: J2000	Redshift: 0.0018	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(6) MOTJ1204+2	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in MOTJ1204+2 (06) (1)	780 Secs (780 Secs) [=>390.0 Secs (Pattern 1)] [=>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(6) MOTJ1204+2	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in MOTJ1204+2 (06) (1)	710 Secs (710 Secs) [=>390.0 Secs (Pattern 1)] [=>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2010AS (07) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

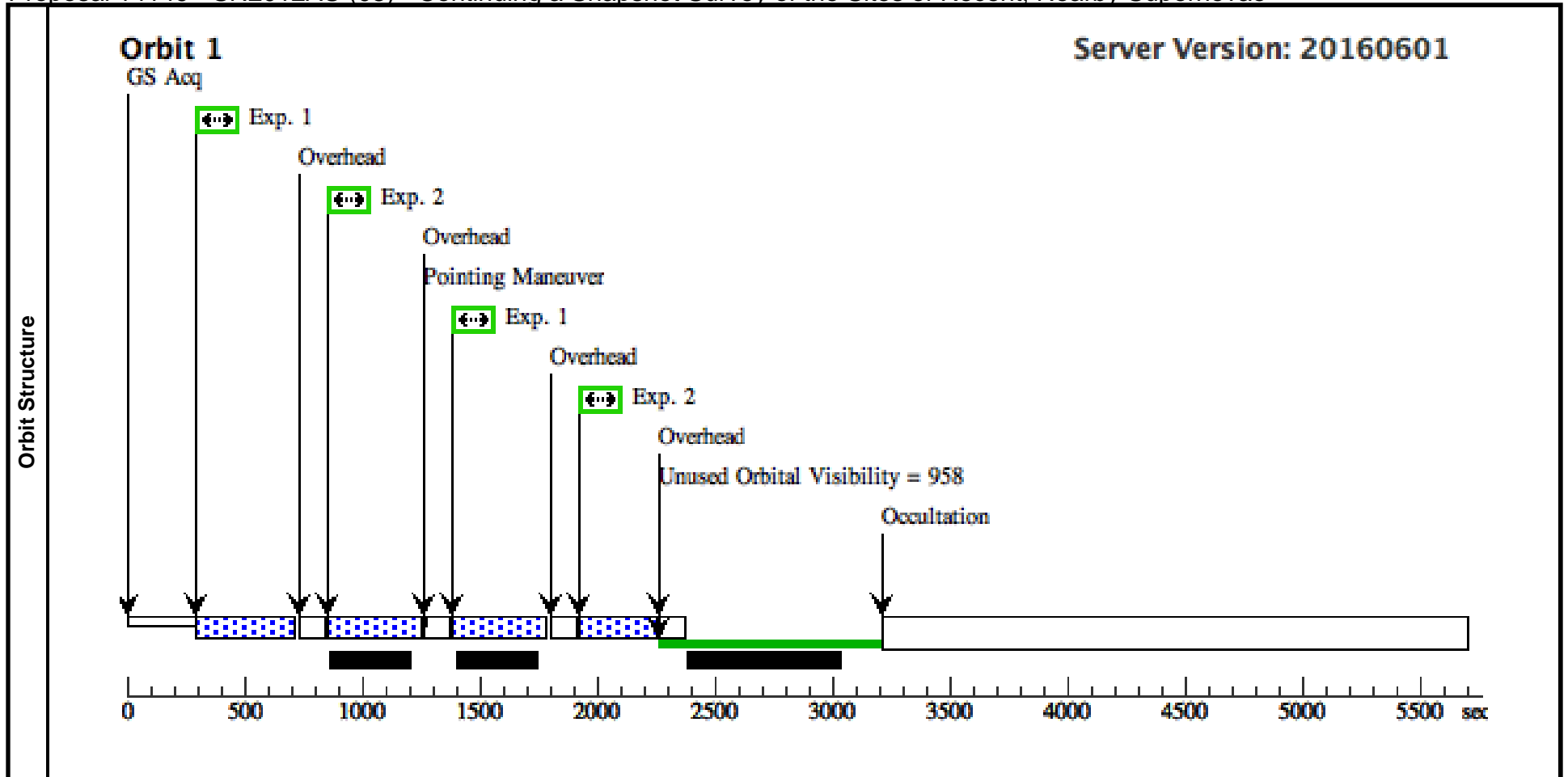
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(7)	SN2010AS	RA: 15 49 49.0000 (237.4541667d) Dec: -29 23 10.00 (-29.38611d) Equinox: J2000	Redshift: 0.00703333333	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(7) SN2010AS	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2010AS (07) (1)	780 Secs (780 Secs) [=>390.0 Secs (Pattern 1)] [=>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(7) SN2010AS	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in SN2010AS (07) (1)	710 Secs (710 Secs) [=>390.0 Secs (Pattern 1)] [=>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2012AU (08) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

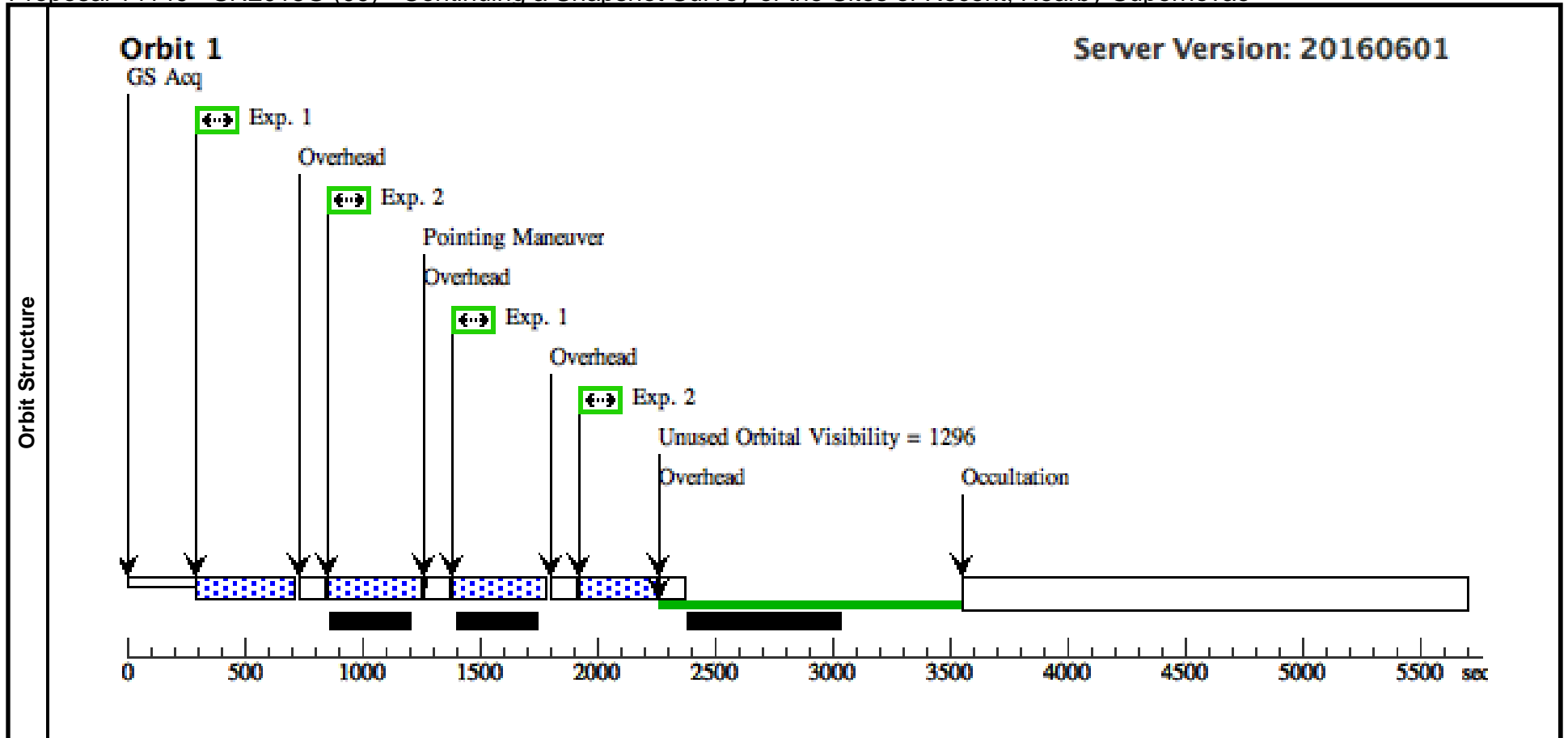
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Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(8)	SN2012AU	RA: 12 54 52.0000 (193.7166667d) Dec: -10 14 50.00 (-10.24722d) Equinox: J2000	Redshift: 0.00468	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(8) SN2012AU	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2012AU (08) (1)	780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(8) SN2012AU	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in SN2012AU (08) (1)	710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2015G (09) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

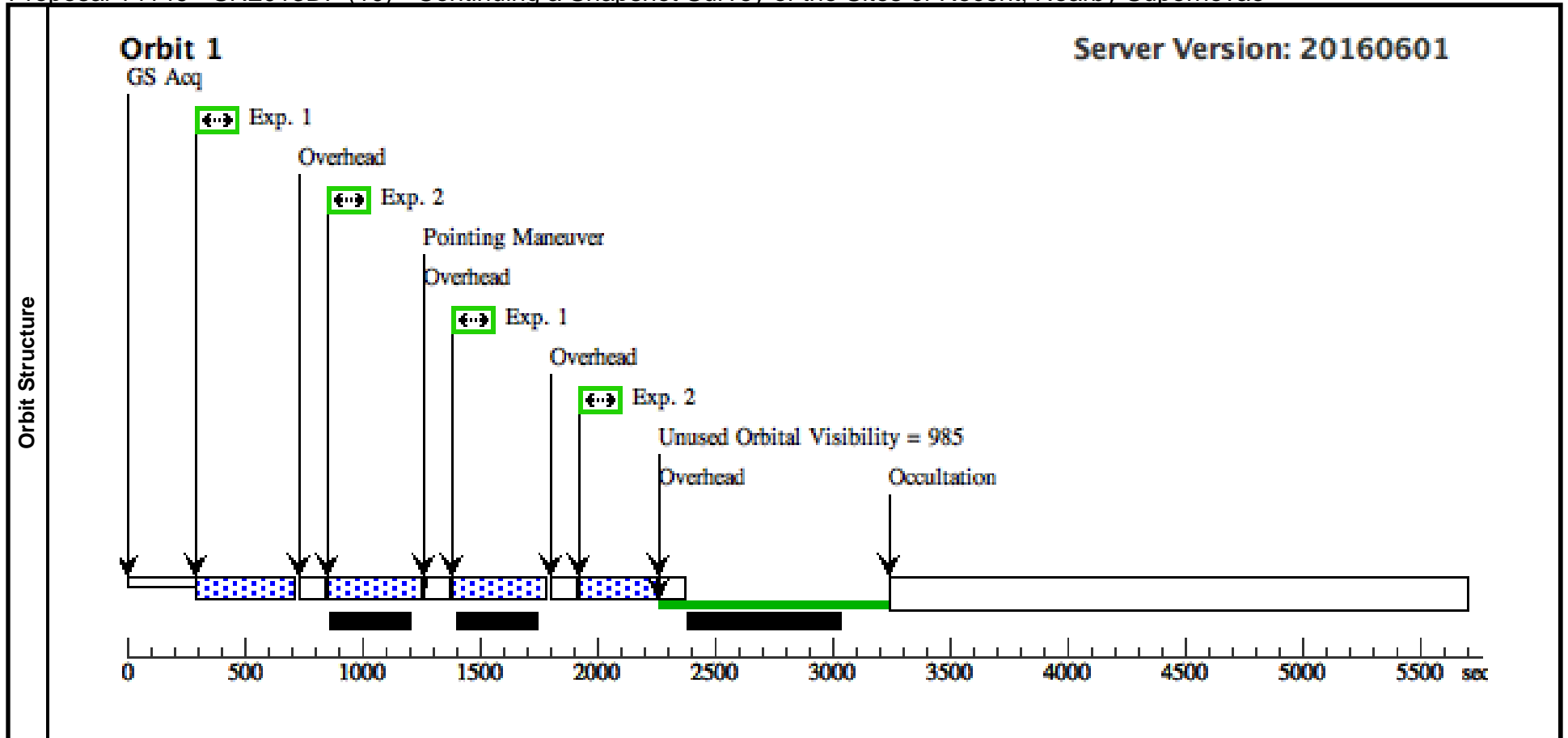
Visit	Proposal 14149, SN2015G (09), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(9)	SN2015G	RA: 20 37 14.0000 (309.3083333d) Dec: +66 06 20.00 (66.10556d) Equinox: J2000	Redshift: 0.0044	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(9) SN2015G	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2015G (09) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)]	[1]
									[==>390.0 Secs (Pattern 2)]	
2	F555W	(9) SN2015G	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4			Pattern 1, Exps 1-2 in SN2015G (09) (1)	710 Secs (710 Secs)	
									[==>390.0 Secs (Pattern 1)]	[1]
									[==>320.0 Secs (Pattern 2)]	



Proposal 14149 - SN2013DF (10) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

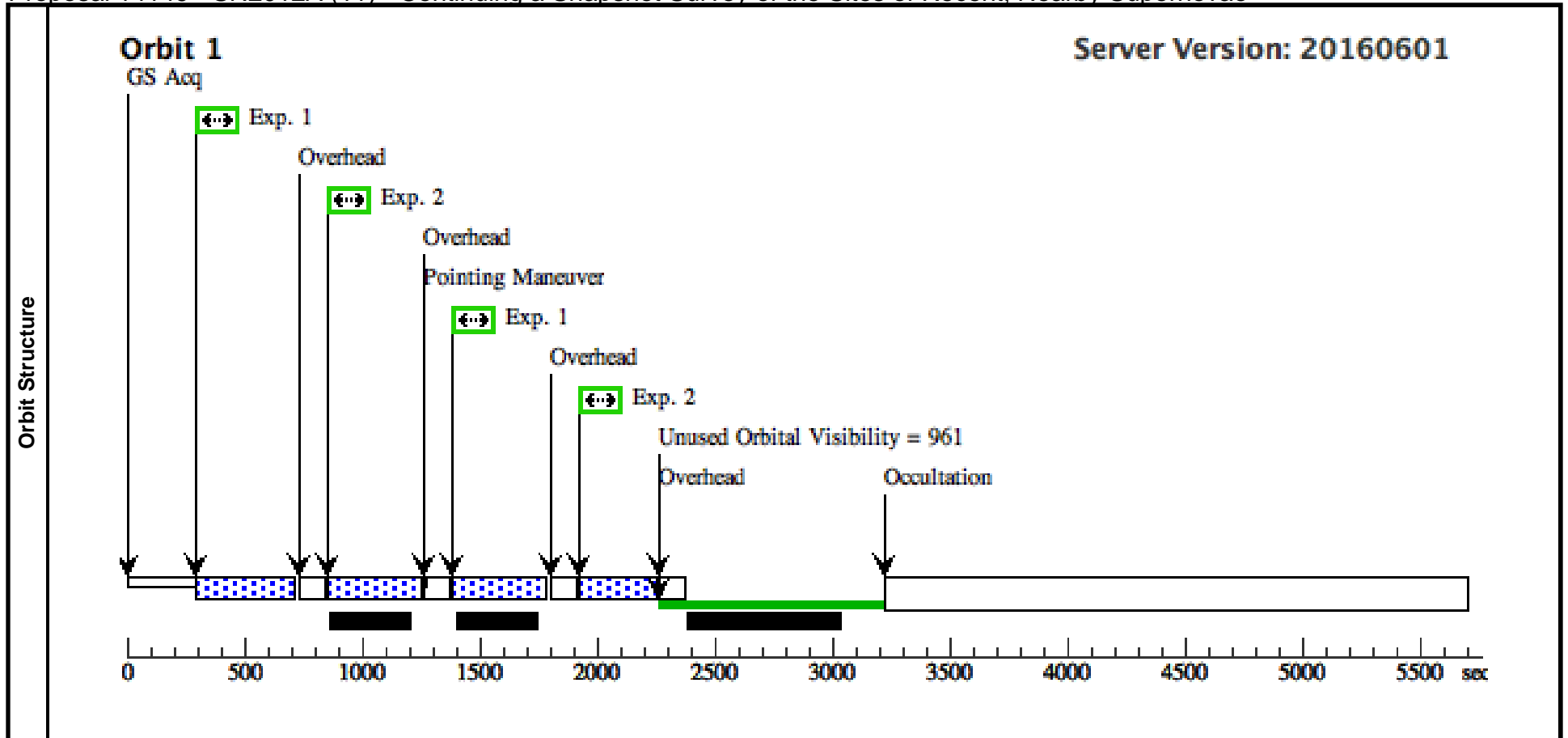
Visit	Proposal 14149, SN2013DF (10), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(10)	SN2013DF	RA: 12 26 29.0000 (186.6208333d) Dec: +31 13 38.30 (31.22731d) Equinox: J2000	Redshift: 0.002376666667	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(10) SN2013DF	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2013DF (10) (1)	780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(10) SN2013DF	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in SN2013DF (10) (1)	710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2012A (11) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

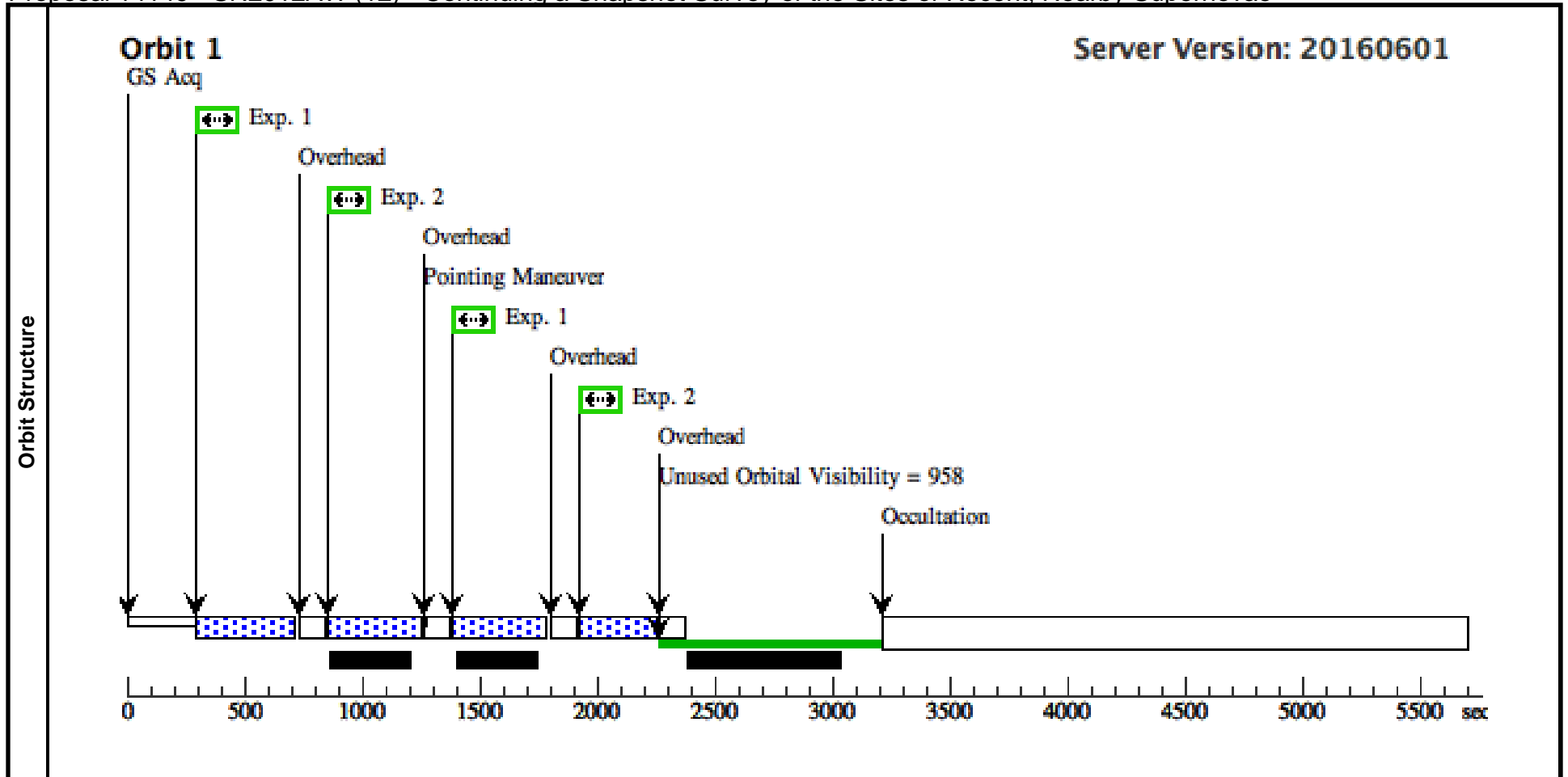
Visit	Proposal 14149, SN2012A (11), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(11)	SN2012A	RA: 10 25 7.0000 (156.2791667d) Dec: +17 09 14.60 (17.15406d) Equinox: J2000	Redshift: 0.002766666667	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(11) SN2012A	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2012A (11) (1)	780 Secs (780 Secs) [=>390.0 Secs (Pattern 1)] [=>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(11) SN2012A	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in SN2012A (11) (1)	710 Secs (710 Secs) [=>390.0 Secs (Pattern 1)] [=>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2012AW (12) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

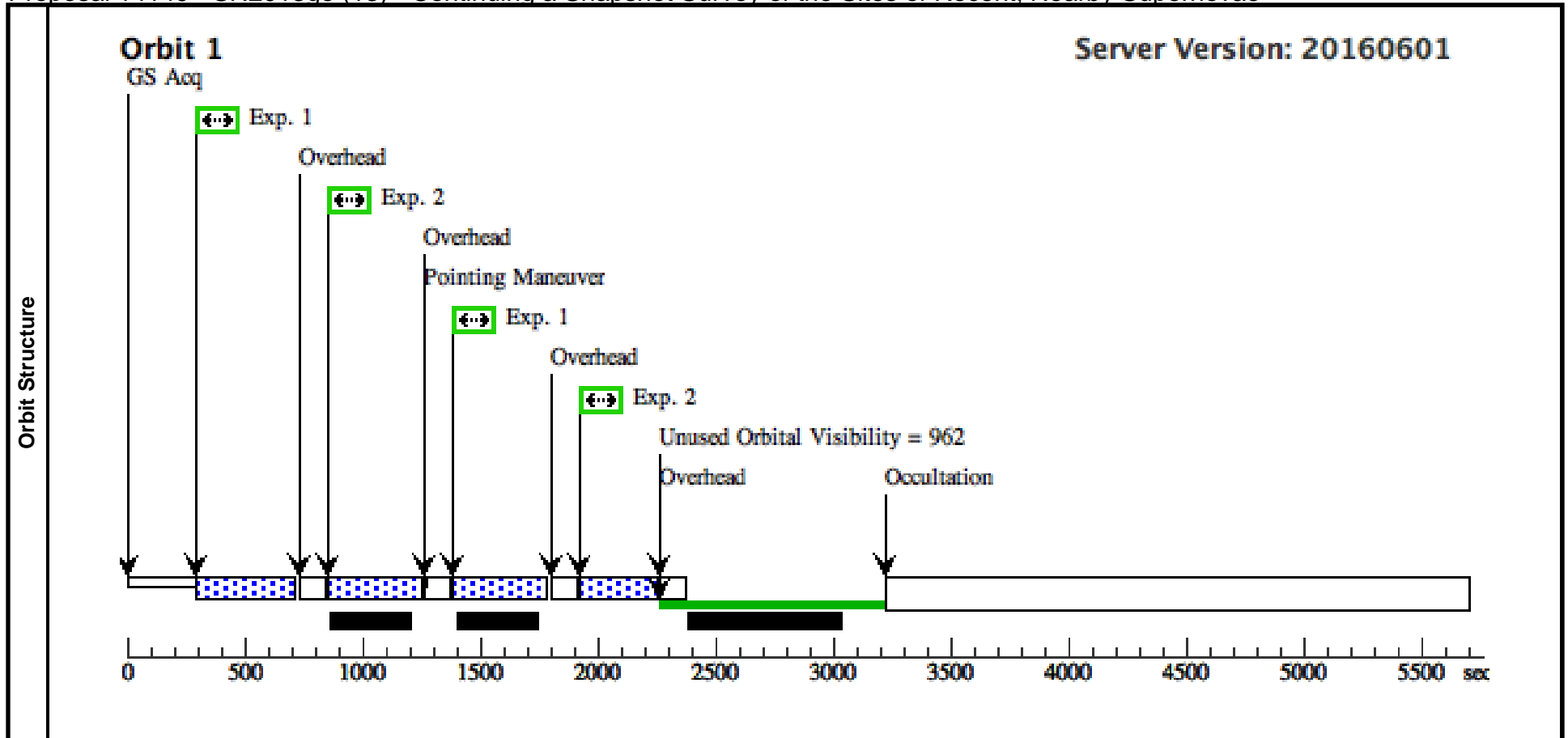
Visit	Proposal 14149, SN2012AW (12), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern	Secondary Pattern			Exposures				
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1-2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(12)	SN2012AW	RA: 10 43 54.0000 (160.9750000d) Dec: +11 40 17.90 (11.67164d) Equinox: J2000	Redshift: 0.00257	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(12) SN2012AW	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2012AW (12) (1)	780 Secs (780 Secs) [=>390.0 Secs (Pattern 1)] [=>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(12) SN2012AW	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=3		Pattern 1, Exps 1-2 in SN2012AW (12) (1)	710 Secs (710 Secs) [=>390.0 Secs (Pattern 1)] [=>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2013ge (13) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

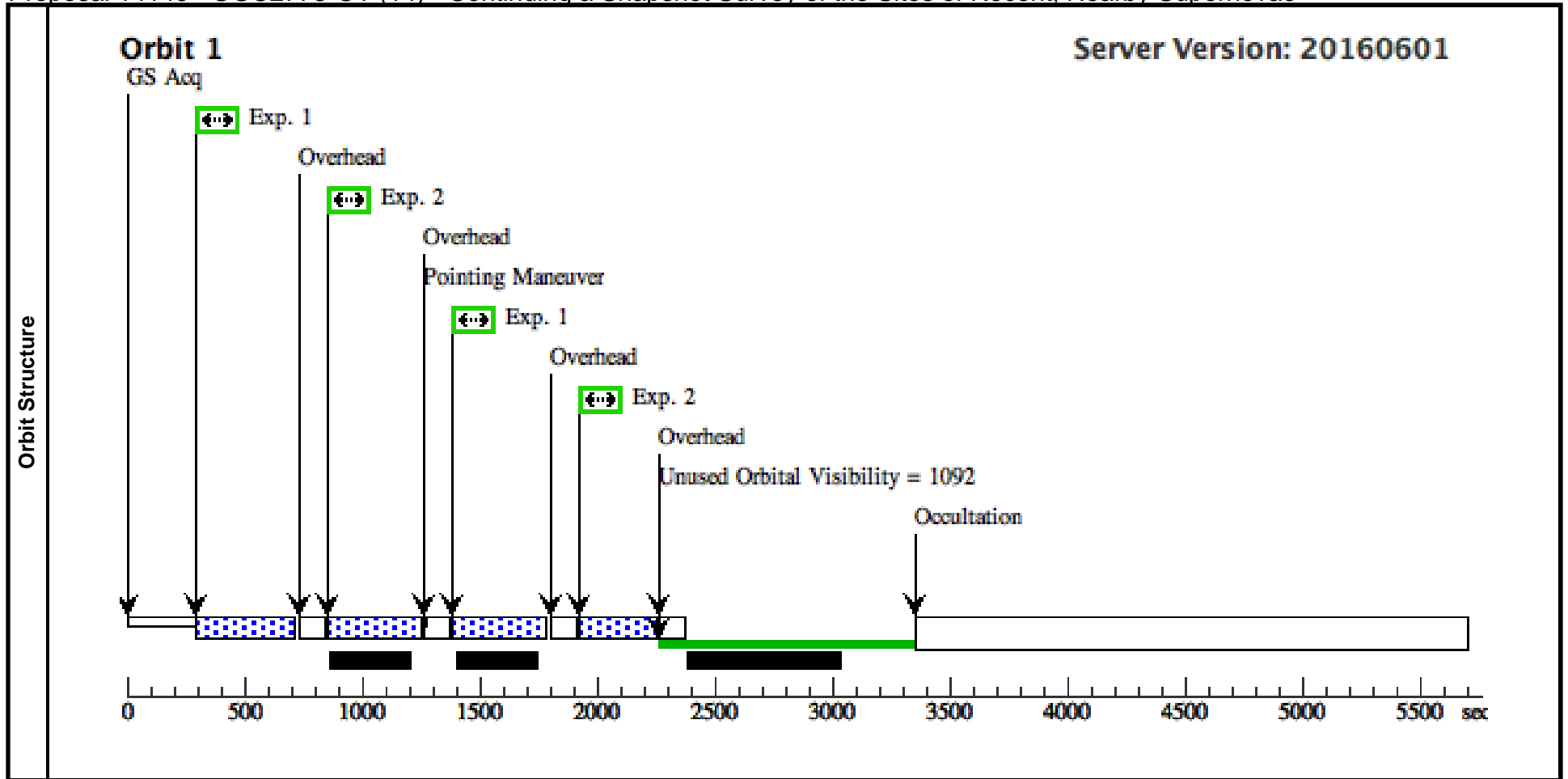
Visit	Proposal 14149, SN2013ge (13), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	# (1)	Primary Pattern Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	Secondary Pattern	Exposures (1-2)				
Fixed Targets	# (13)	Name SN2013GE	Target Coordinates RA: 10 34 45.8562 (158.6910675d) Dec: +21 39 18.17 (21.65505d) Equinox: J2000	Targ. Coord. Corrections	Fluxes V=25	Miscellaneous Reference Frame: ICRS <i>Comments: Extended=NO</i>				
Exposures	# 1 2	Label F814W F555W	Target (13) SN2013GE (13) SN2013GE	Config,Mode,Aperture WFC3/UVIS, ACCUM, UVIS WFC3/UVIS, ACCUM, UVIS	Spectral Els. F814W F555W	Opt. Params. FLASH=4 FLASH=4	Special Reqs.	Groups Pattern 1, Exps 1-2 in SN2013ge (13) (1) Pattern 1, Exps 1-2 in SN2013ge (13) (1)	Exp. Time (Total)/[Actual Dur.] 780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)] 710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	Orbit [1] [1]



Proposal 14149 - UGC2773-OT (14) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

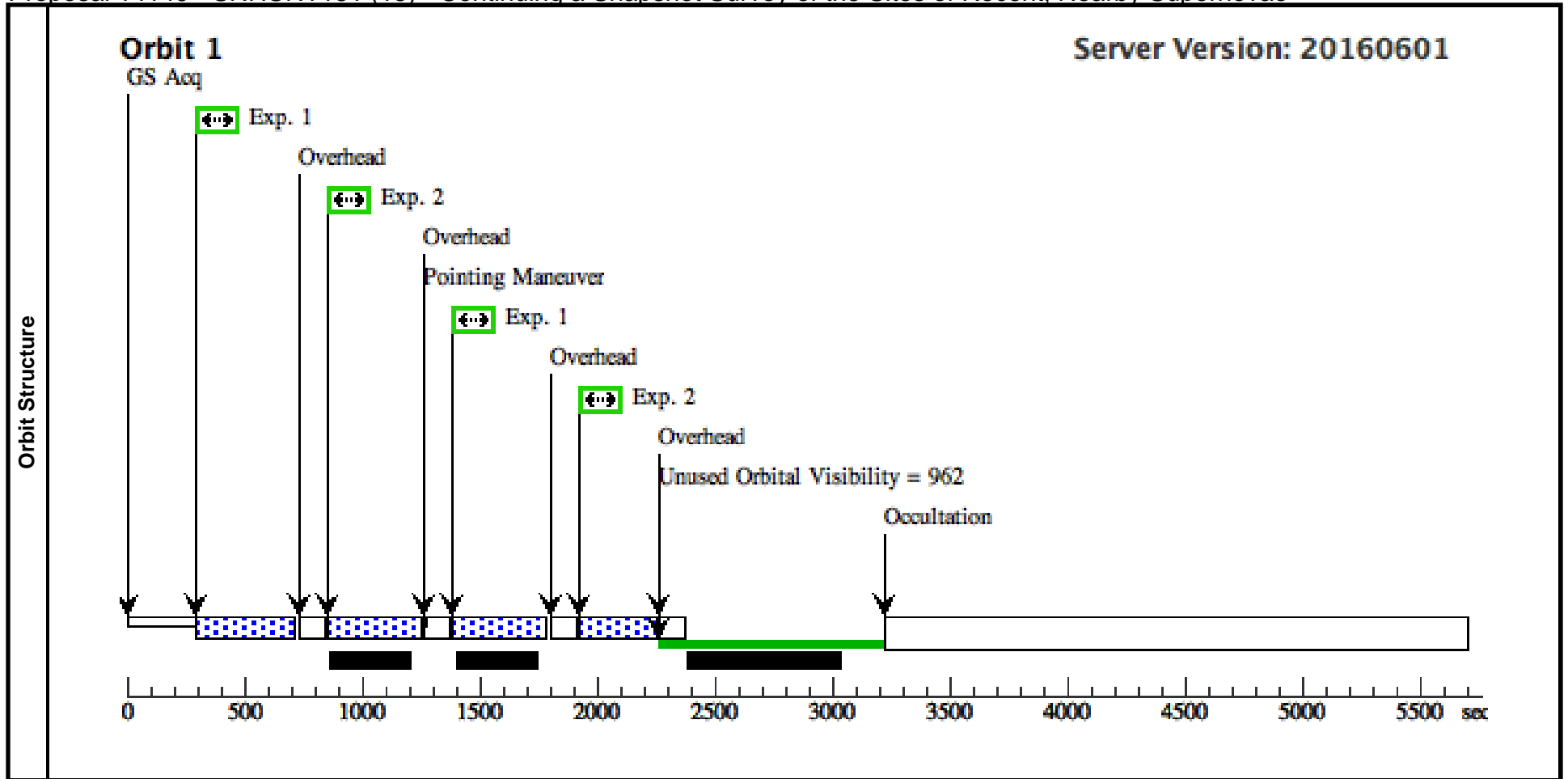
Visit	Proposal 14149, UGC2773-OT (14), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	# (1)	Primary Pattern Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	Secondary Pattern	Exposures (1-2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(14)	UGC2773-OT	RA: 03 32 7.0000 (53.0291667d) Dec: +47 47 39.60 (47.79433d) Equinox: J2000	Redshift: 7.71E-4	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(14) UGC2773-OT	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in UGC2773-OT (14) (1)	780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(14) UGC2773-OT	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in UGC2773-OT (14) (1)	710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SNHUNT151 (15) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

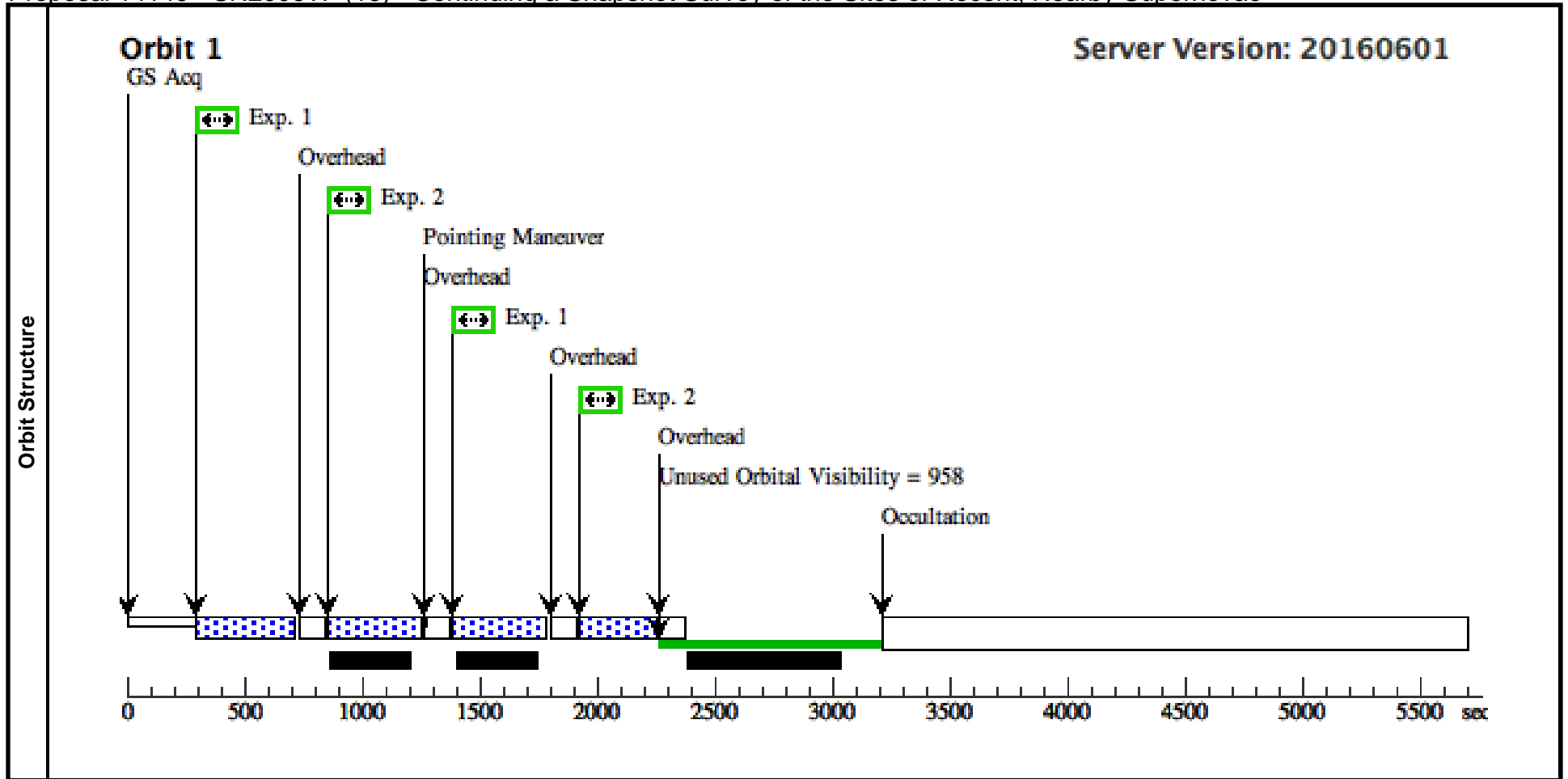
Visit	Proposal 14149, SNHUNT151 (15), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(15)	SNHUNT151	RA: 04 47 30.0000 (71.8750000d) Dec: +23 58 56.00 (23.98222d) Equinox: J2000	Redshift: 0.012539	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(15) SNHUNT151	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SNHUNT151 (15) (1)	780 Secs (780 Secs) [=>390.0 Secs (Pattern 1)] [=>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(15) SNHUNT151	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in SNHUNT151 (15) (1)	710 Secs (710 Secs) [=>390.0 Secs (Pattern 1)] [=>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2006TF (16) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:00 GMT 2016

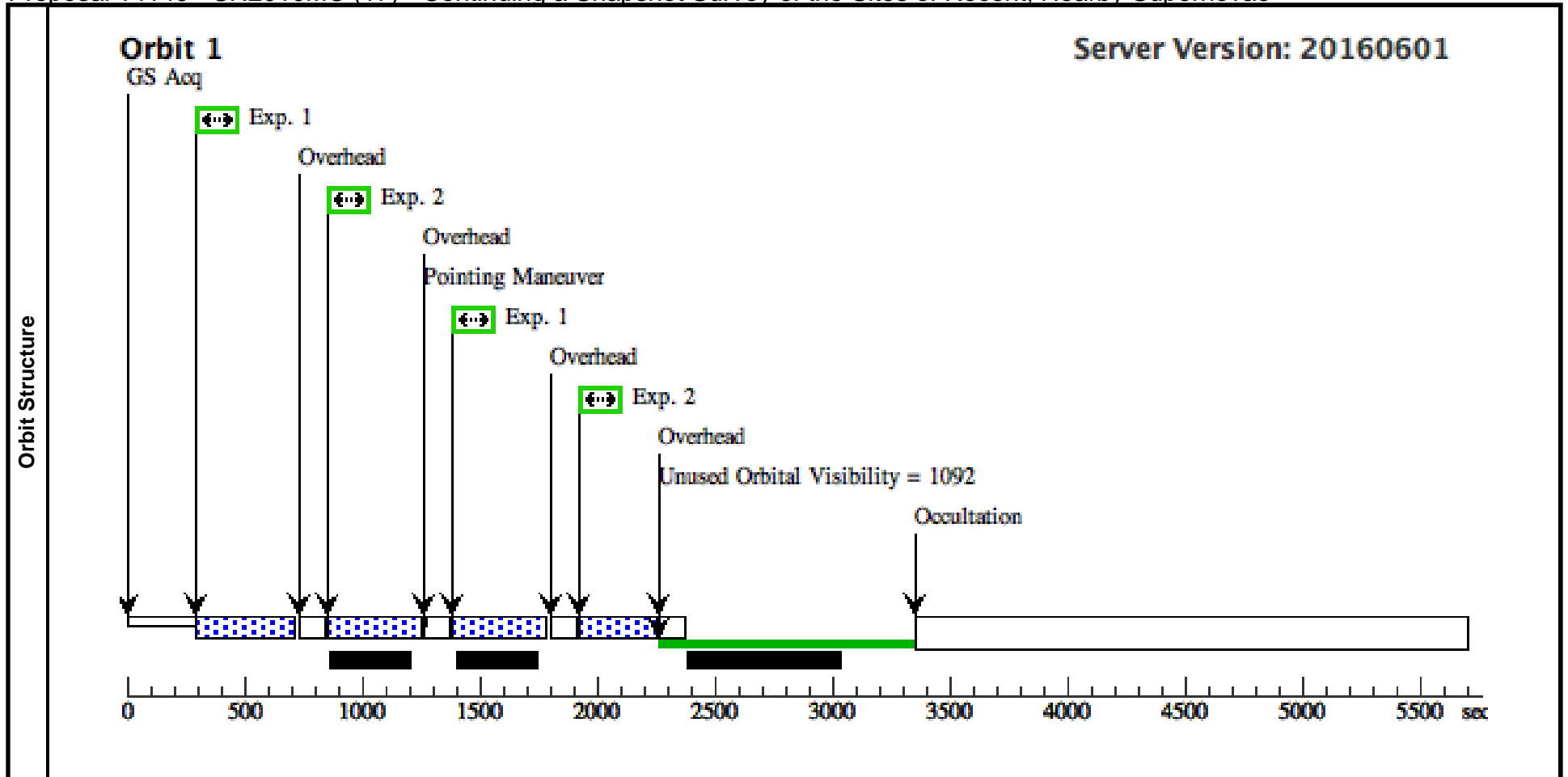
Visit	Proposal 14149, SN2006TF (16), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	# (1)	Primary Pattern Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	Secondary Pattern	Exposures (1-2)				
Fixed Targets	# (16)	Name SN2006TF	Target Coordinates RA: 12 46 16.0000 (191.5666667d) Dec: +11 25 55.40 (11.43206d) Equinox: J2000	Targ. Coord. Corrections Redshift: 0.0	Fluxes V=25	Miscellaneous Reference Frame: ICRS				
Exposures	# 1 2	Label F814W F555W	Target (16) SN2006TF (16) SN2006TF	Config,Mode,Aperture WFC3/UVIS, ACCUM, UVIS WFC3/UVIS, ACCUM, UVIS	Spectral Els. F814W F555W	Opt. Params. FLASH=4 FLASH=4	Special Reqs.	Groups Pattern 1, Exps 1-2 in SN2006TF (16) (1) Pattern 1, Exps 1-2 in SN2006TF (16) (1)	Exp. Time (Total)/[Actual Dur.] 780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)] 710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	Orbit [1] [1]



Proposal 14149 - SN2010MC (17) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

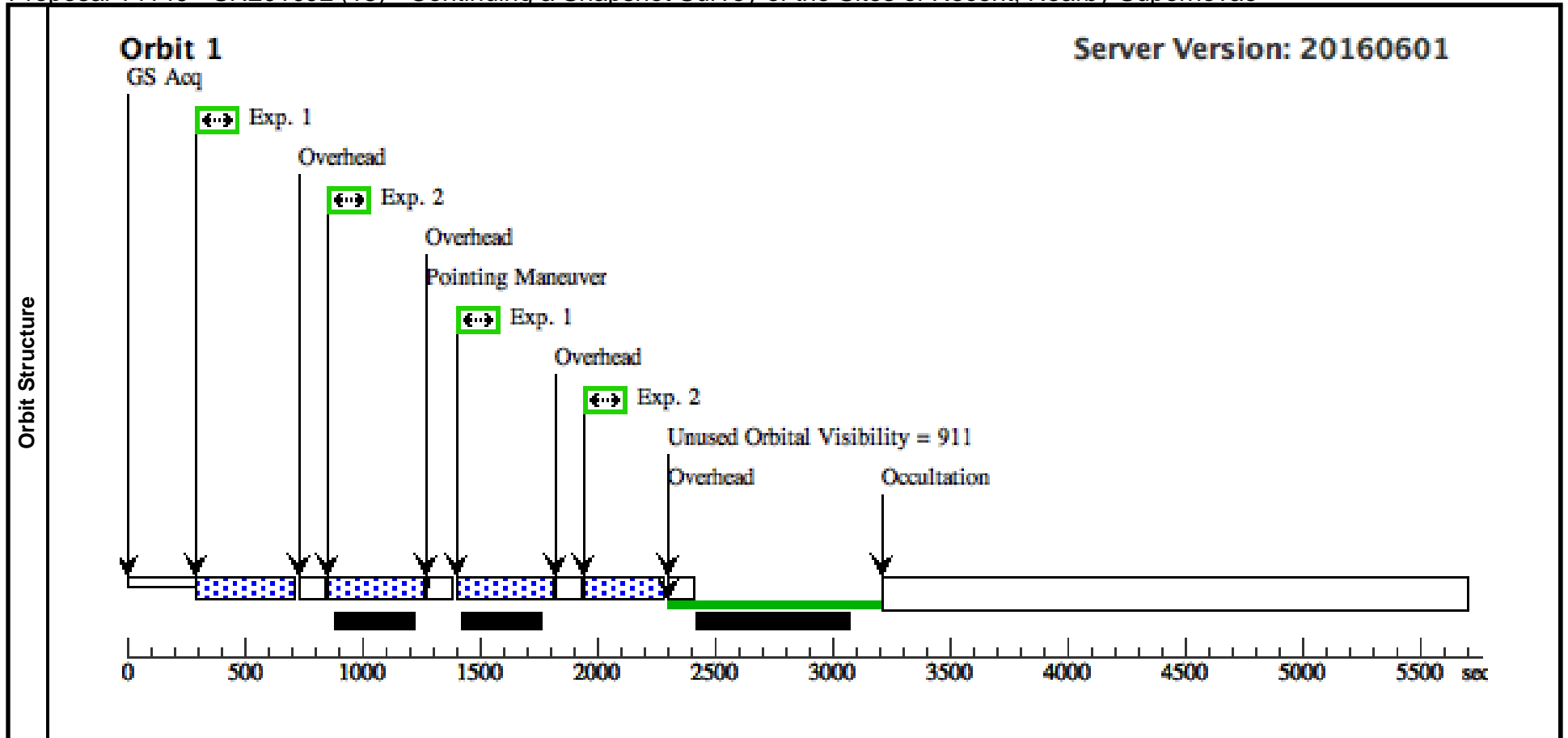
Visit	Proposal 14149, SN2010MC (17), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(17)	SN2010MC	RA: 17 21 31.0000 (260.3791667d) Dec: -48 07 47.00 (-48.12972d) Equinox: J2000	Redshift: 0.0	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(17) SN2010MC	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2010MC (17) (1)	780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(17) SN2010MC	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in SN2010MC (17) (1)	710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2010JL (18) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

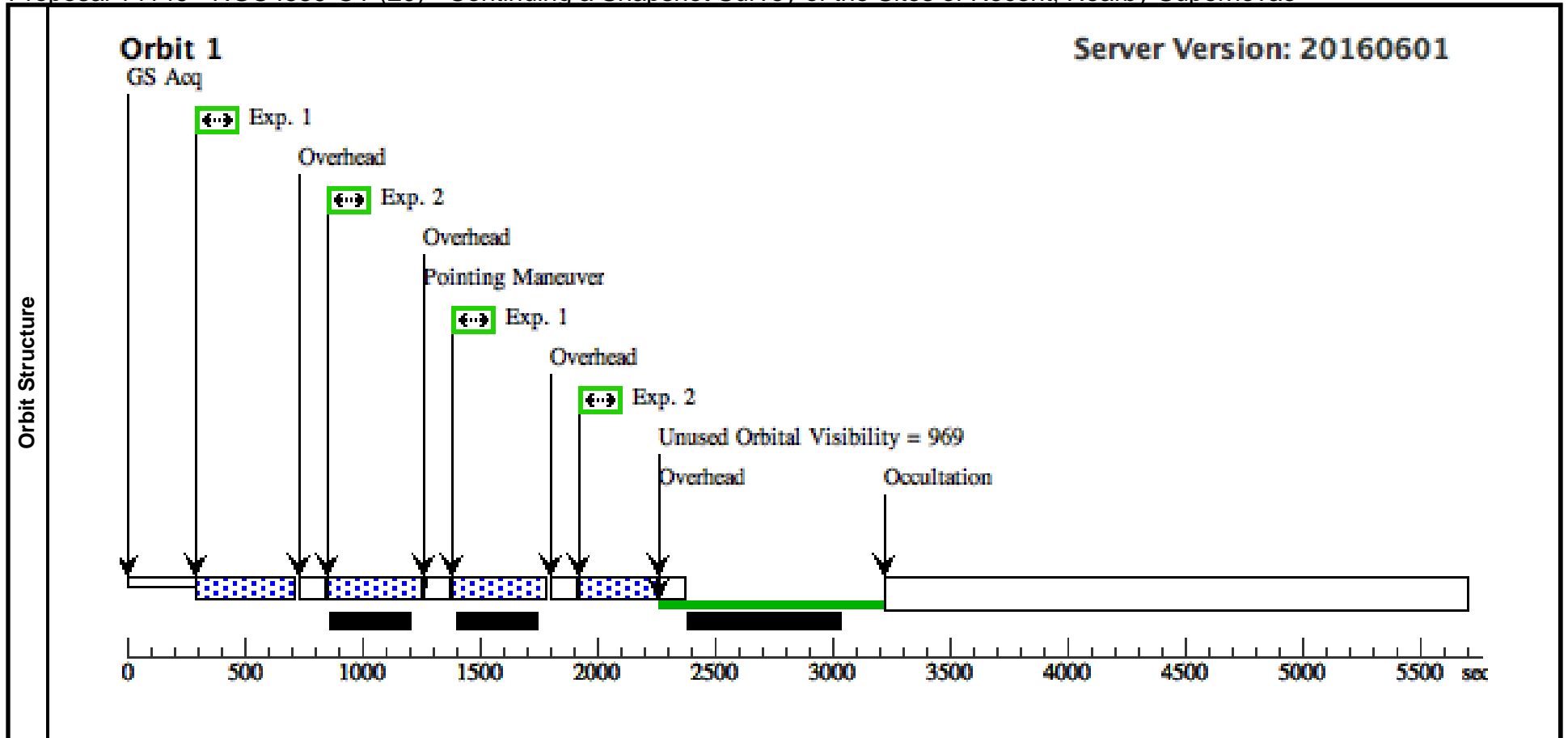
Visit	Proposal 14149, SN2010JL (18), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern	Secondary Pattern			Exposures				
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false				(1-2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(18)	SN2010JL	RA: 09 42 53.0000 (145.7208333d) Dec: +09 29 41.80 (9.49494d) Equinox: J2000	Redshift: 0.011	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(18) SN2010JL	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2010JL (18) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)]	[1]
									[==>390.0 Secs (Pattern 2)]	
2	F336W	(18) SN2010JL	WFC3/UVIS, ACCUM, UVIS	F336W	FLASH=12			Pattern 1, Exps 1-2 in SN2010JL (18) (1)	710 Secs (710 Secs)	
									[==>390.0 Secs (Pattern 1)]	[1]
									[==>320.0 Secs (Pattern 2)]	



Proposal 14149 - NGC4559-OT (20) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

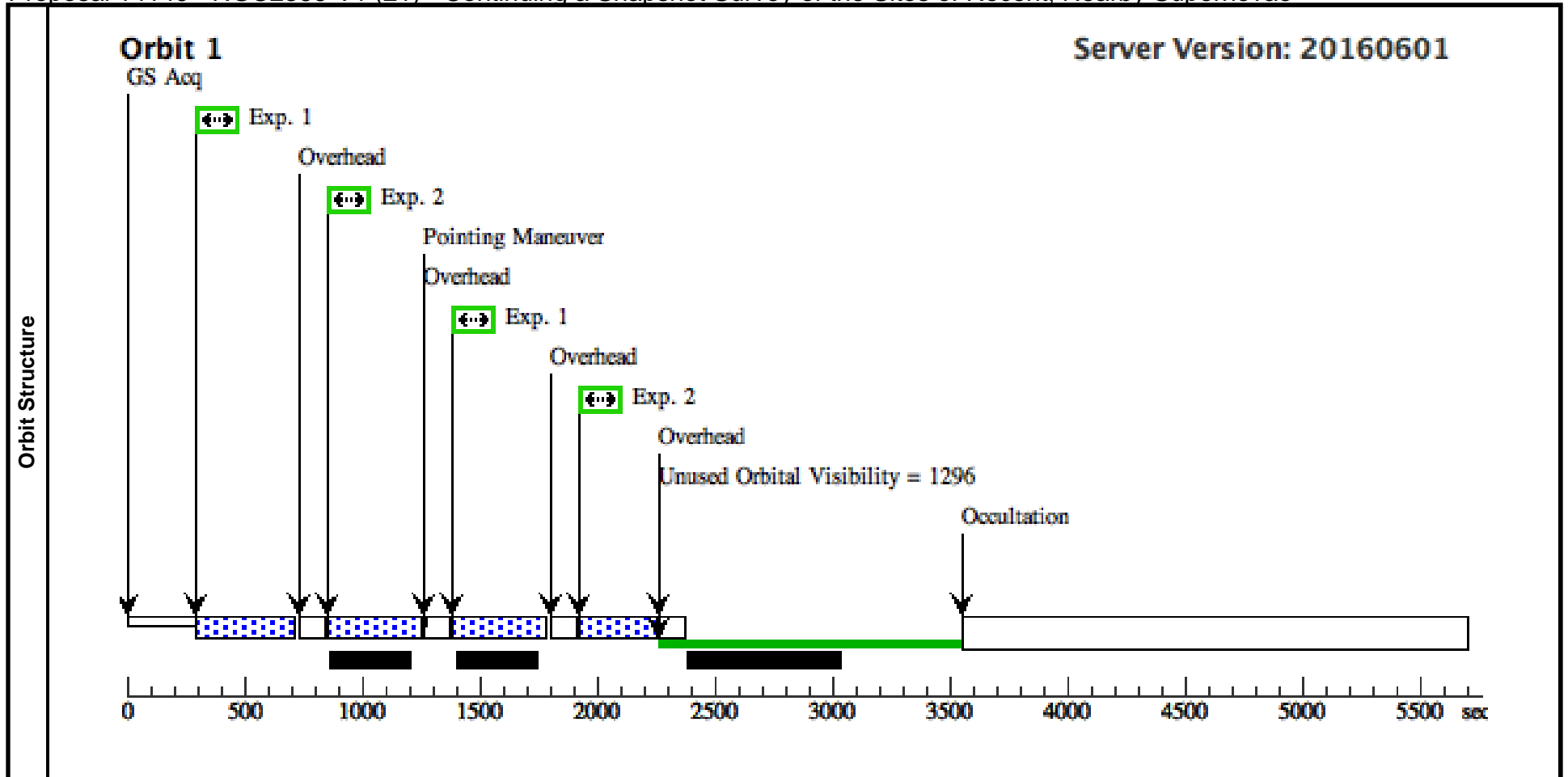
Visit	Proposal 14149, NGC4559-OT (20), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(20)	NGC4559-OT	RA: 12 35 52.0000 (188.9666667d) Dec: +27 55 55.90 (27.93219d) Equinox: J2000	Redshift: 0.0	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(20) NGC4559-OT	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in NGC4559-OT (20) (1)	780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(20) NGC4559-OT	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in NGC4559-OT (20) (1)	710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - NGC2366-V1 (21) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

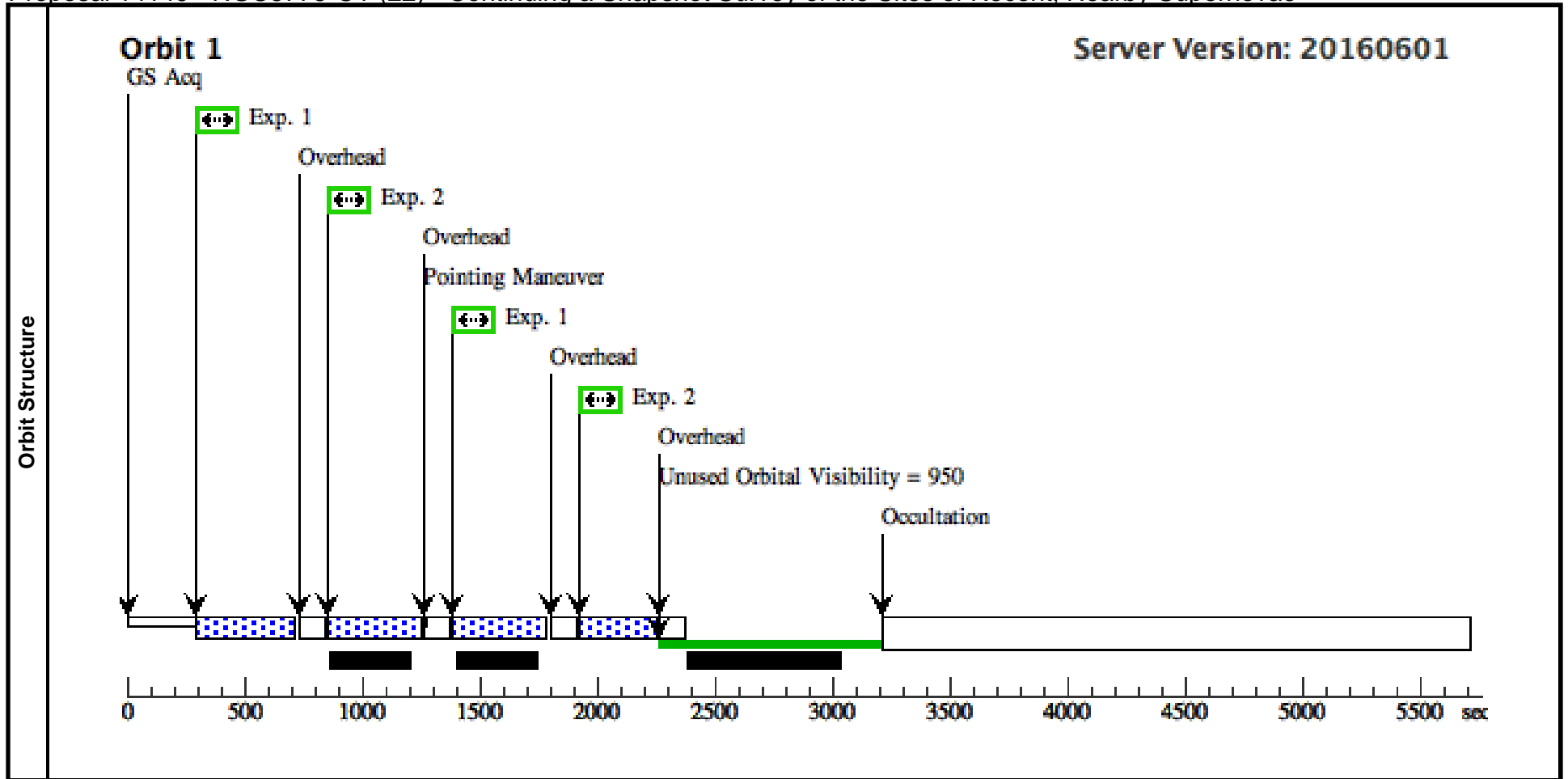
Visit	Proposal 14149, NGC2366-V1 (21), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(21)	NGC2366-V1	RA: 07 28 43.0000 (112.1791667d) Dec: +69 11 23.90 (69.18997d) Equinox: J2000	Redshift: 0.0	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(21) NGC2366-V1	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 i n NGC2366-V1 (21) (1)	780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(21) NGC2366-V1	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=3		Pattern 1, Exps 1-2 i n NGC2366-V1 (21) (1)	710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - NGC5775-OT (22) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

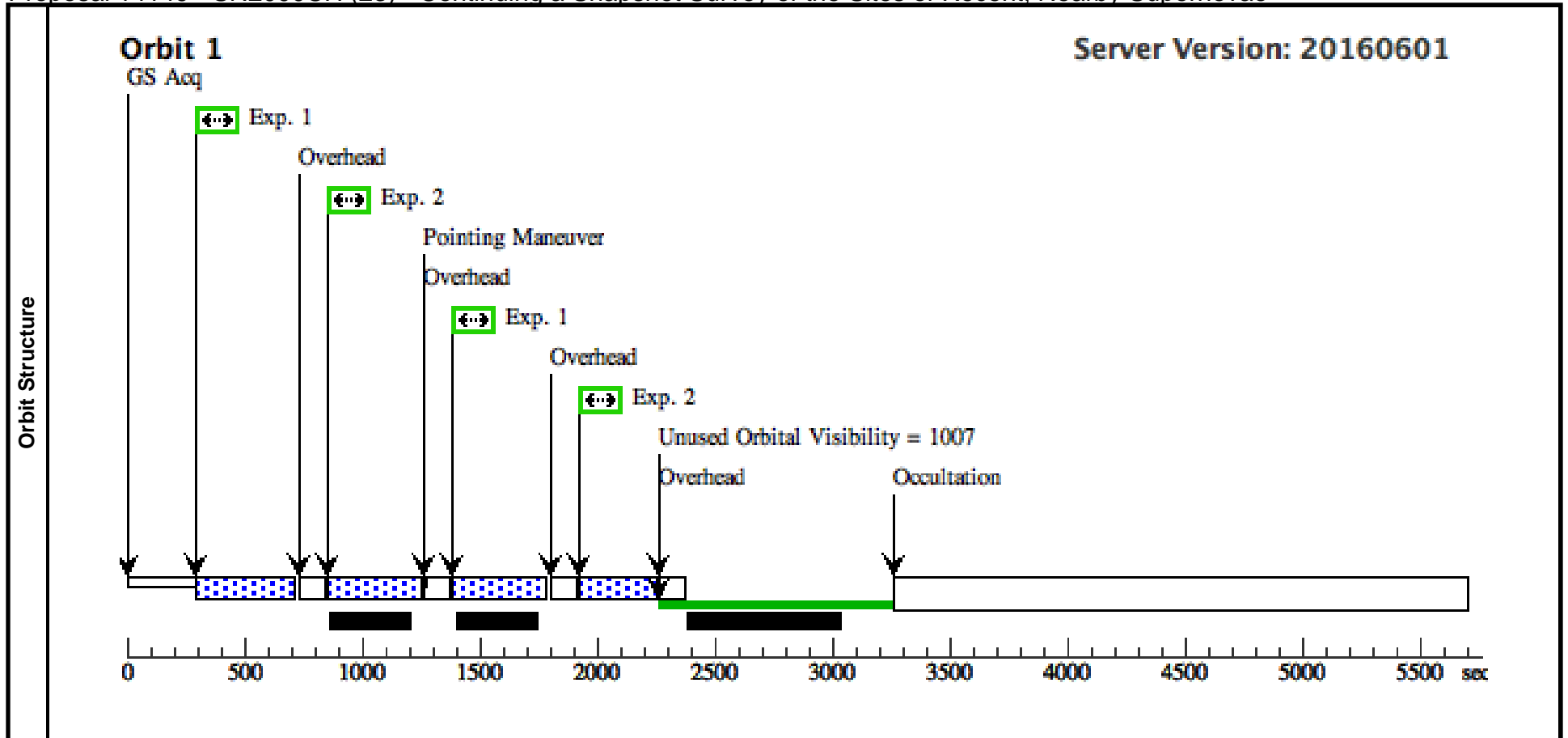
Visit	Proposal 14149, NGC5775-OT (22), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	# (1)	Primary Pattern Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	Secondary Pattern	Exposures (1-2)				
Fixed Targets	# (22)	Name NGC5775-OT	Target Coordinates RA: 14 53 54.0000 (223.4750000d) Dec: +03 34 4.90 (3.56803d) Equinox: J2000	Targ. Coord. Corrections Redshift: 0.0	Fluxes V=25	Miscellaneous Reference Frame: ICRS				
Exposures	# 1 2	Label F814W F555W	Target (22) NGC5775-OT (22) NGC5775-OT	Config,Mode,Aperture WFC3/UVIS, ACCUM, UVIS WFC3/UVIS, ACCUM, UVIS	Spectral Els. F814W F555W	Opt. Params. FLASH=4 FLASH=4	Special Reqs.	Groups Pattern 1, Exps 1-2 in NGC5775-OT (22) (1) Pattern 1, Exps 1-2 in NGC5775-OT (22) (1)	Exp. Time (Total)/[Actual Dur.] 780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)] 710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	Orbit [1] [1]



Proposal 14149 - SN2000CH (23) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

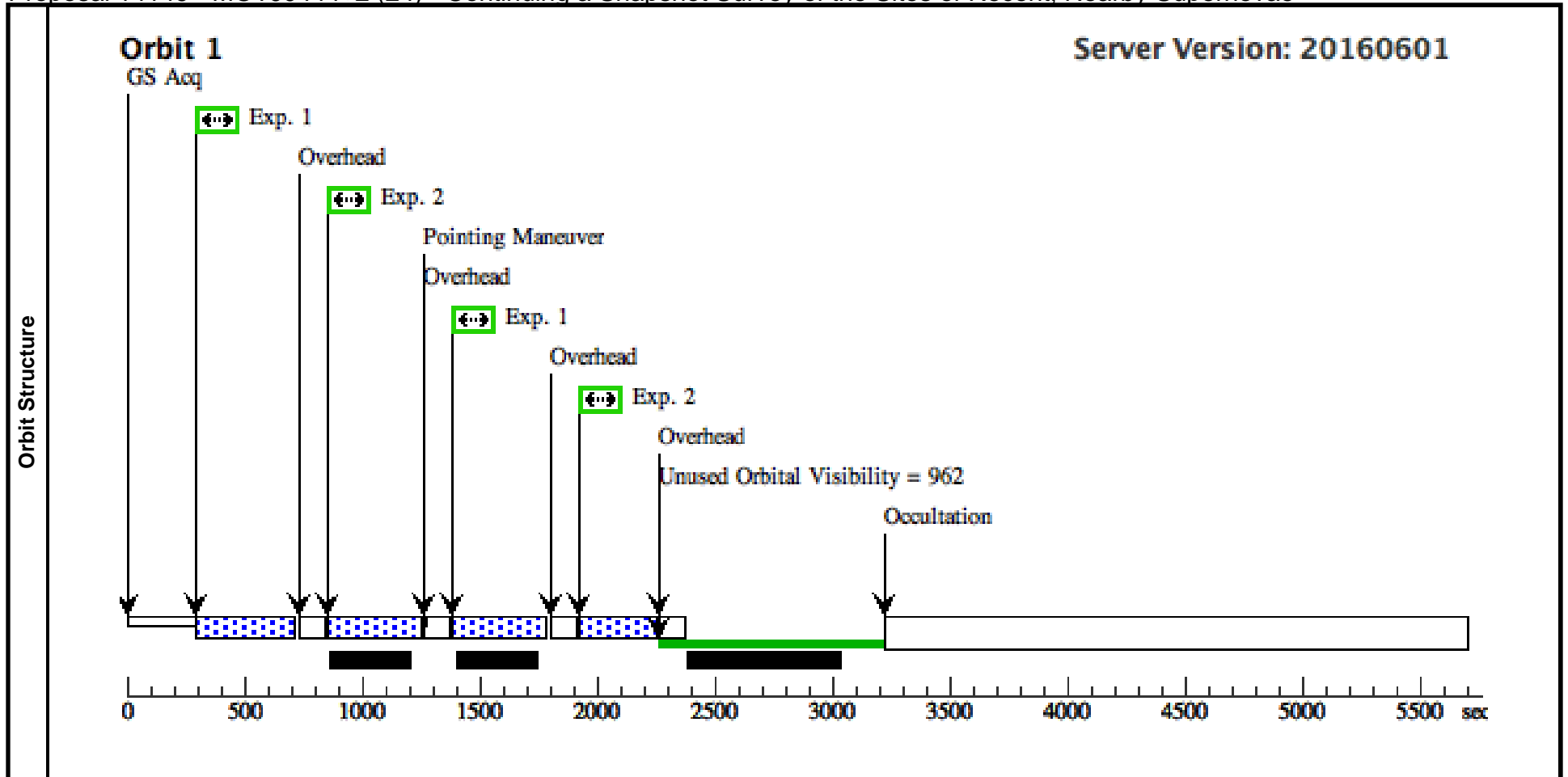
Visit	Proposal 14149, SN2000CH (23), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(23)	SN2000CH	RA: 10 52 41.0000 (163.1708333d) Dec: +36 40 8.50 (36.66903d) Equinox: J2000	Redshift: 0.00206333333	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(23) SN2000CH	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2000CH (23) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)]	[1]
									[==>390.0 Secs (Pattern 2)]	
2	F555W	(23) SN2000CH	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4			Pattern 1, Exps 1-2 in SN2000CH (23) (1)	710 Secs (710 Secs)	
									[==>390.0 Secs (Pattern 1)]	[1]
									[==>320.0 Secs (Pattern 2)]	



Proposal 14149 - MOTJ0444+2 (24) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

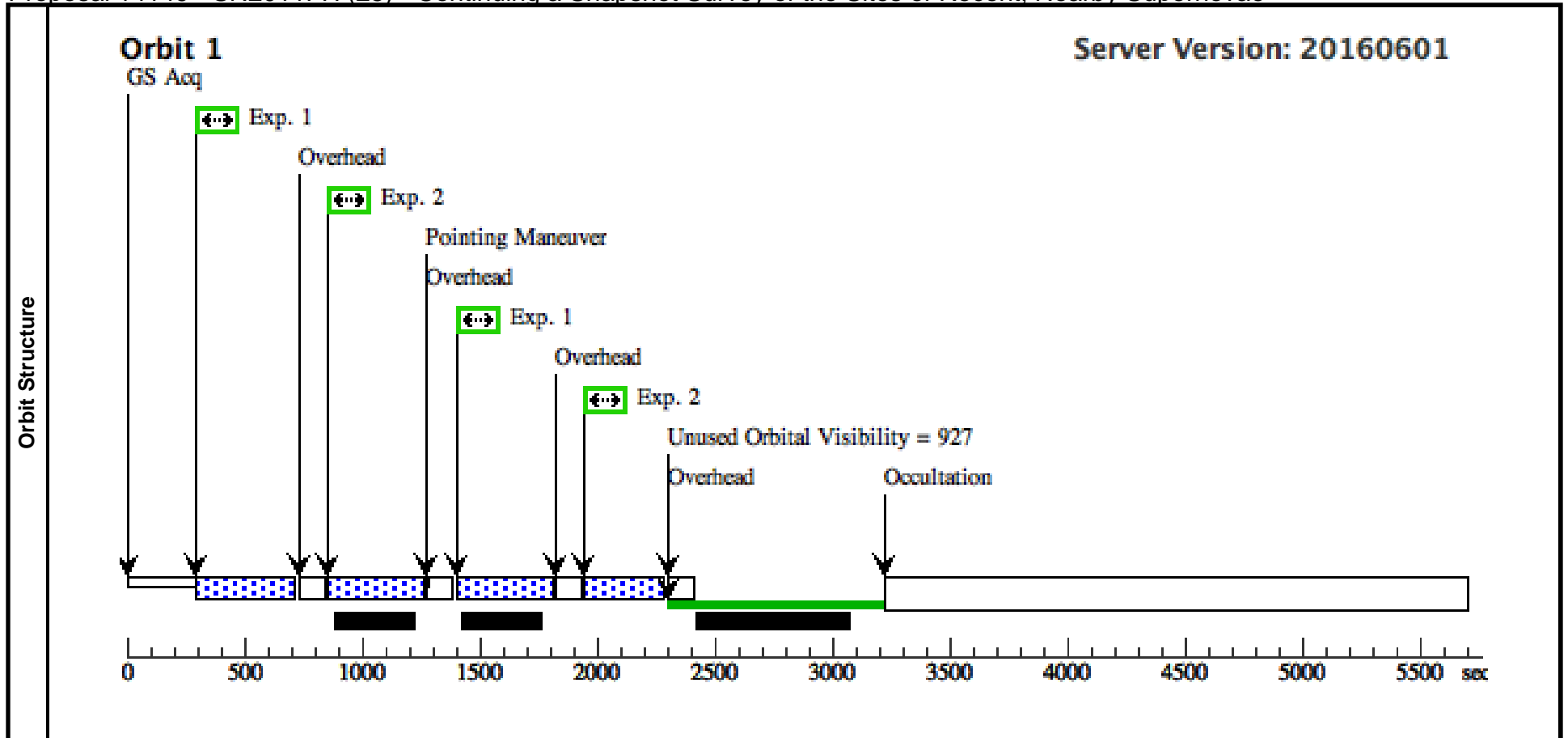
Visit	Proposal 14149, MOTJ0444+2 (24), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(24)	MOTJ0444+2	RA: 04 42 12.0000 (70.5500000d) Dec: +23 06 16.70 (23.10464d) Equinox: J2000	Redshift: 0.016	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(24) MOTJ0444+2	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in MOTJ0444+2 (24) (1)	780 Secs (780 Secs) [=>390.0 Secs (Pattern 1)] [=>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(24) MOTJ0444+2	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in MOTJ0444+2 (24) (1)	710 Secs (710 Secs) [=>390.0 Secs (Pattern 1)] [=>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2011FH (25) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

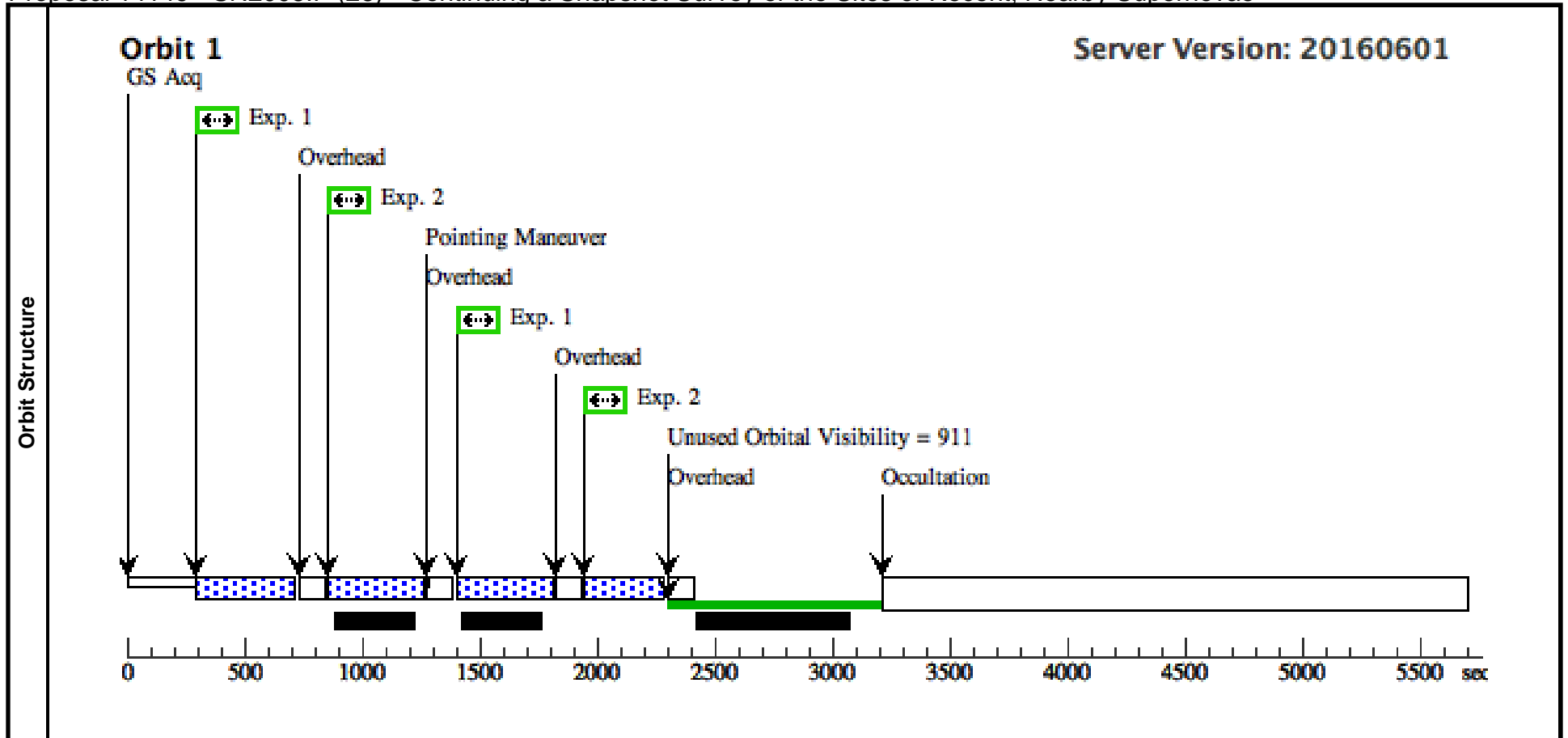
Visit	Proposal 14149, SN2011FH (25), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(25)	SN2011FH	RA: 12 56 14.0000 (194.0583333d) Dec: -29 29 55.00 (-29.49861d) Equinox: J2000	Redshift: 0.0081	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(25) SN2011FH	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2011FH (25) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
2	F336W	(25) SN2011FH	WFC3/UVIS, ACCUM, UVIS	F336W	FLASH=12			Pattern 1, Exps 1-2 in SN2011FH (25) (1)	710 Secs (710 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2005IP (26) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

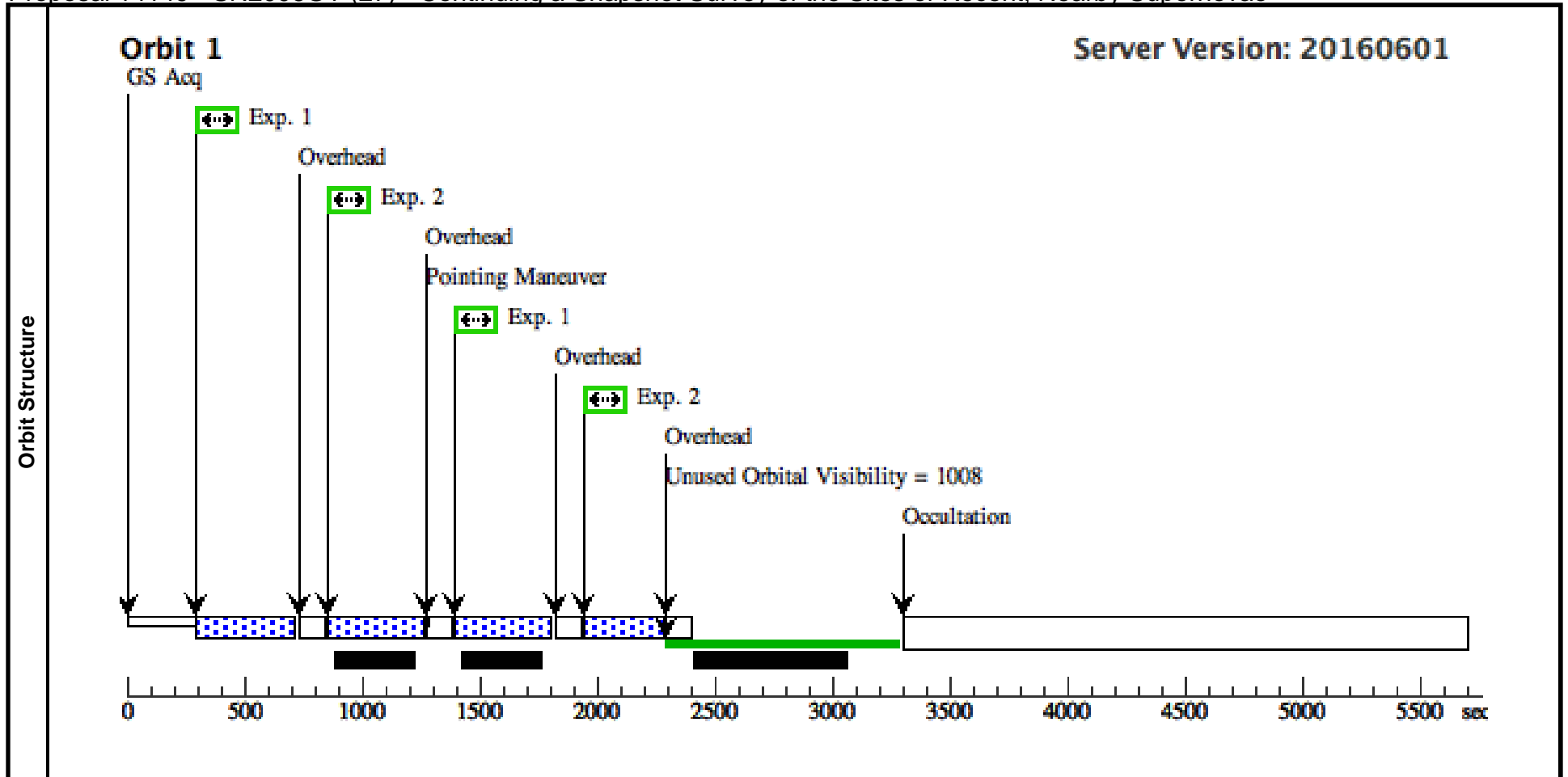
Visit	Proposal 14149, SN2005IP (26), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(26)	SN2005IP	RA: 09 32 6.0000 (143.0250000d) Dec: +08 26 44.40 (8.44567d) Equinox: J2000	Redshift: 0.007133333333	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(26) SN2005IP	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 i n SN2005IP (26) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)]	[1]
									[==>390.0 Secs (Pattern 2)]	
2	F336W	(26) SN2005IP	WFC3/UVIS, ACCUM, UVIS	F336W	FLASH=12			Pattern 1, Exps 1-2 i n SN2005IP (26) (1)	710 Secs (710 Secs)	
									[==>390.0 Secs (Pattern 1)]	[1]
									[==>320.0 Secs (Pattern 2)]	



Proposal 14149 - SN2006GY (27) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

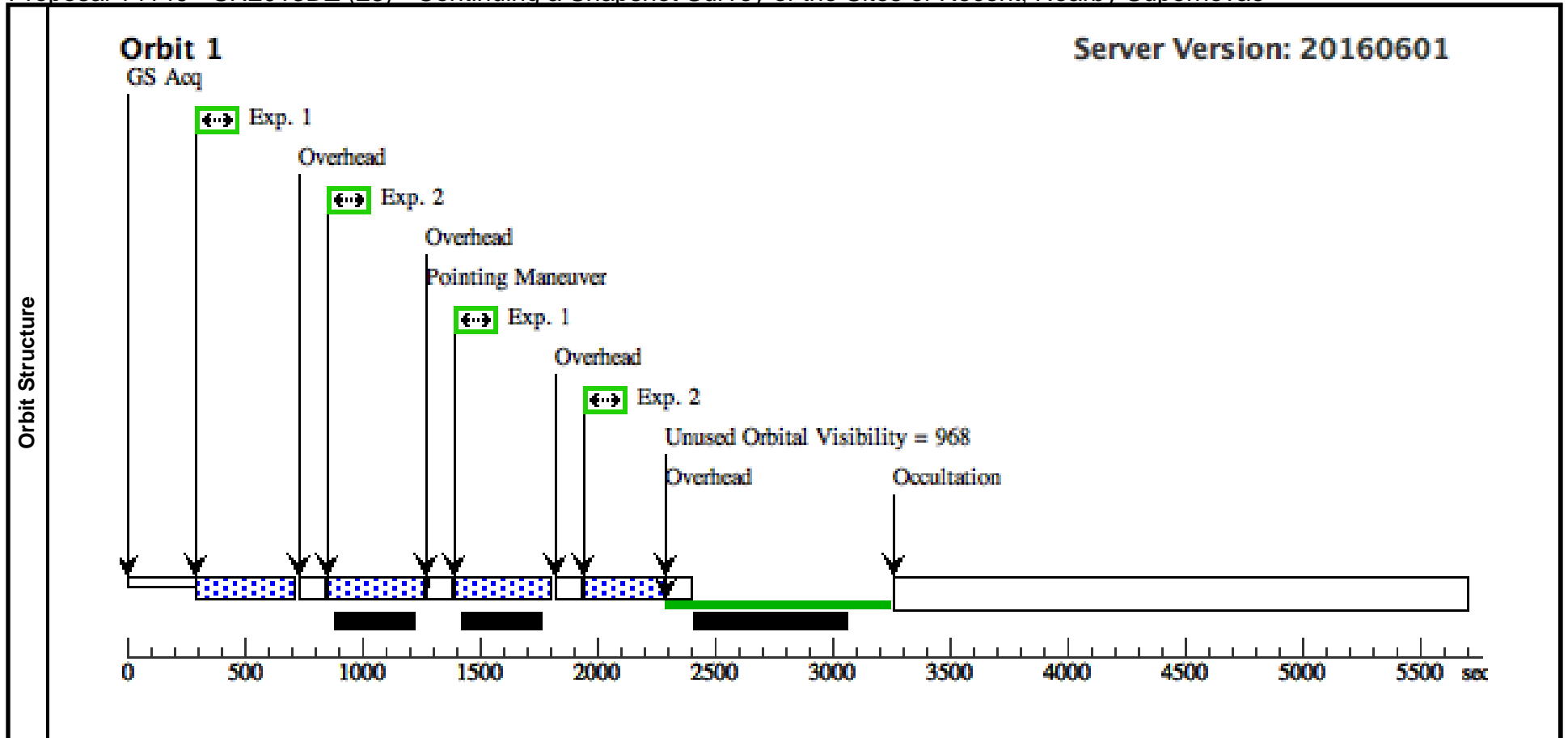
Visit	Proposal 14149, SN2006GY (27), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(27)	SN2006GY	RA: 03 17 27.0000 (49.3625000d) Dec: +41 24 19.50 (41.40542d) Equinox: J2000	Redshift: 0.01877	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(27) SN2006GY	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2006GY (27) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)]	[1]
									[==>390.0 Secs (Pattern 2)]	
2	F625W	(27) SN2006GY	WFC3/UVIS, ACCUM, UVIS	F625W	FLASH=3			Pattern 1, Exps 1-2 in SN2006GY (27) (1)	710 Secs (710 Secs)	
									[==>390.0 Secs (Pattern 1)]	[1]
									[==>320.0 Secs (Pattern 2)]	



Proposal 14149 - SN2013DZ (28) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

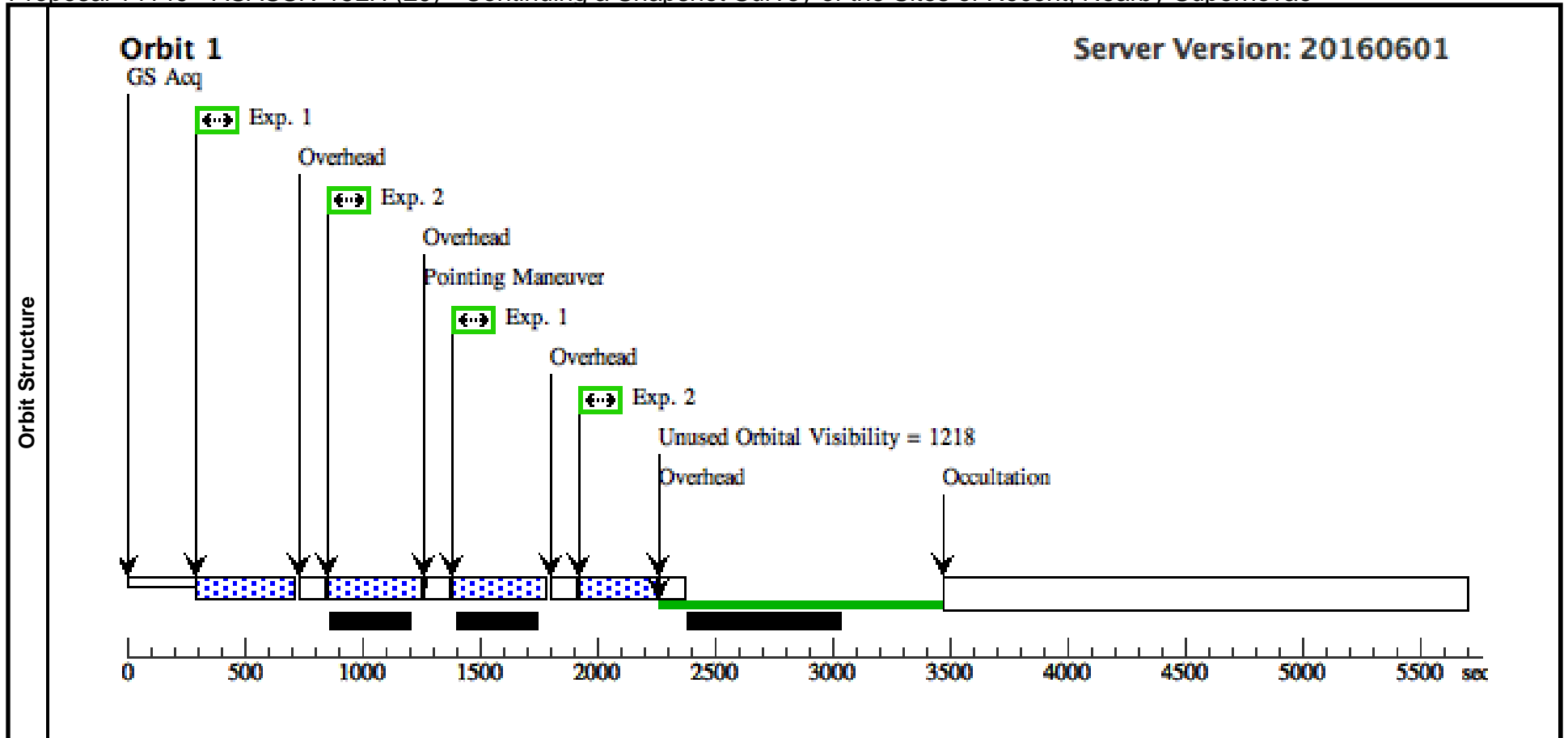
Visit	Proposal 14149, SN2013DZ (28), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	#	Primary Pattern	Secondary Pattern	Exposures						
Patterns	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(28)	SN2013DZ	RA: 02 58 24.0000 (44.6000000d) Dec: +36 17 3.50 (36.28431d) Equinox: J2000	Redshift: 0.049	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(28) SN2013DZ	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2013DZ (28) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
2	F625W	(28) SN2013DZ	WFC3/UVIS, ACCUM, UVIS	F625W	FLASH=4			Pattern 1, Exps 1-2 in SN2013DZ (28) (1)	710 Secs (710 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - ASASSN-15LH (29) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

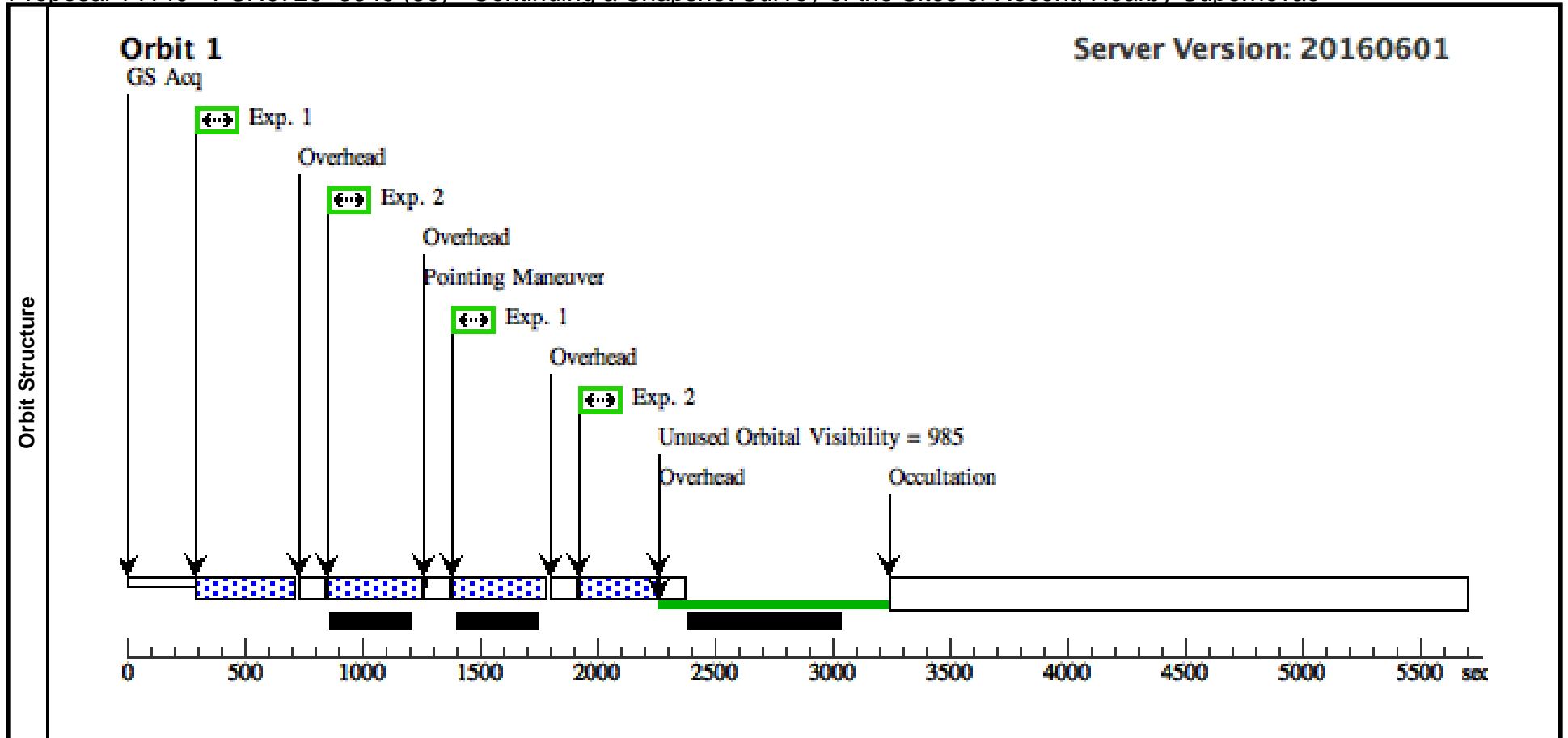
Visit	Proposal 14149, ASASSN-15LH (29), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(29)	ASASSN-15LH	RA: 22 02 15.0000 (330.5625000d) Dec: -61 39 34.64 (-61.65962d) Equinox: J2000	Redshift: 0.2326	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(29) ASASSN-15LH	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in ASASSN-15LH (29) (1)	780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(29) ASASSN-15LH	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in ASASSN-15LH (29) (1)	710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - PSN0728+3349 (30) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

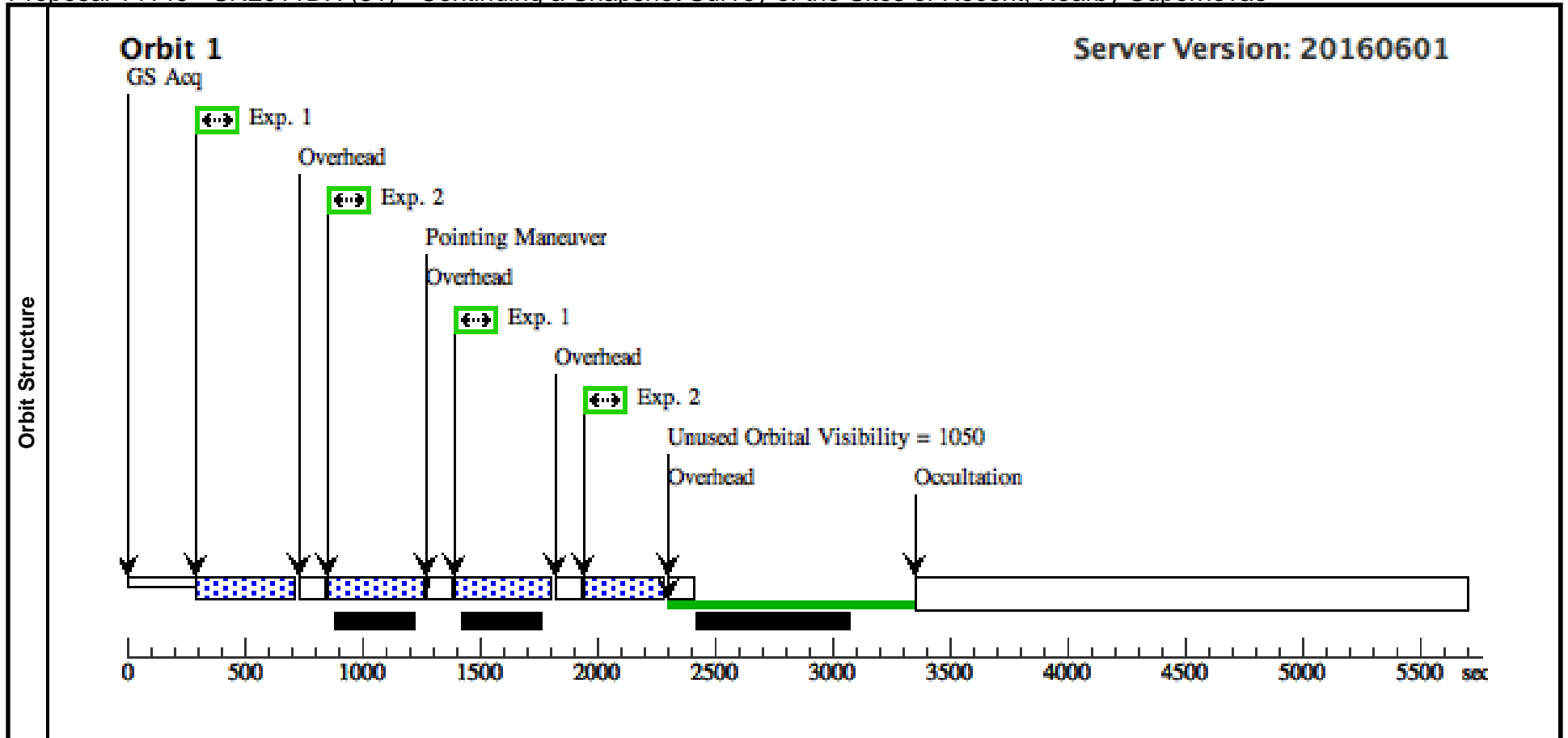
Visit	Proposal 14149, PSN0728+3349 (30), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing= Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)						
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(30)	PSN0728+3349	RA: 07 28 53.8700 (112.2244583d) Dec: +33 49 10.60 (33.81961d) Equinox: J2000	Redshift: 0.01379	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(30) PSN0728+3349	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in PSN0728+3349 (30) (1)	780 Secs (780 Secs) [=>390.0 Secs (Pattern 1)] [=>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(30) PSN0728+3349	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in PSN0728+3349 (30) (1)	710 Secs (710 Secs) [=>390.0 Secs (Pattern 1)] [=>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2011DH (31) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

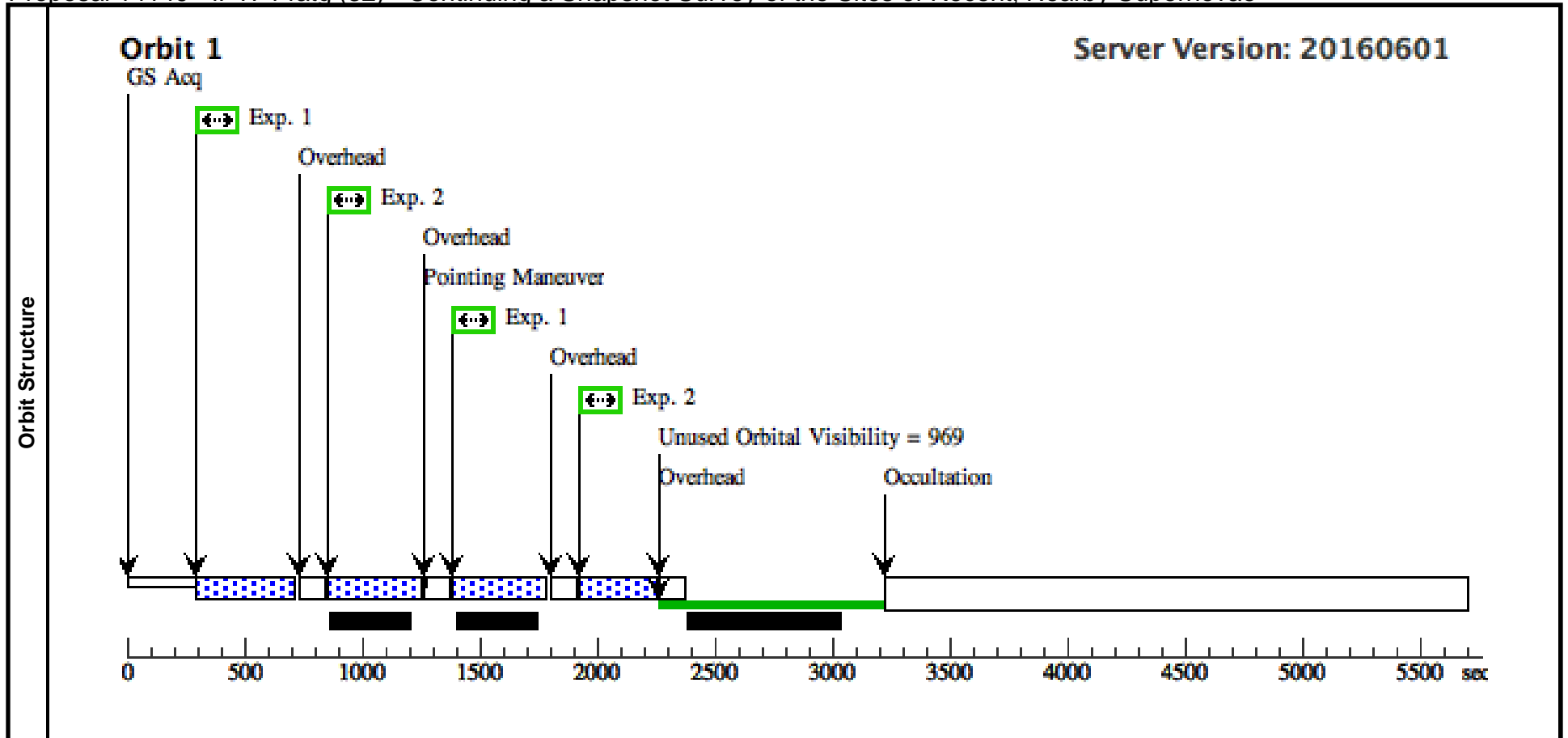
Visit	Proposal 14149, SN2011DH (31), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(31)	SN2011DH	RA: 13 30 5.0000 (202.5208333d) Dec: +47 10 11.30 (47.16981d) Equinox: J2000	Redshift: 0.001536666667	V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F336W	(31) SN2011DH	WFC3/UVIS, ACCUM, UVIS	F336W	FLASH=12		Pattern 1, Exps 1-2 in SN2011DH (31) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
2	F555W	(31) SN2011DH	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4			Pattern 1, Exps 1-2 in SN2011DH (31) (1)	710 Secs (710 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - iPTF14atg (32) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

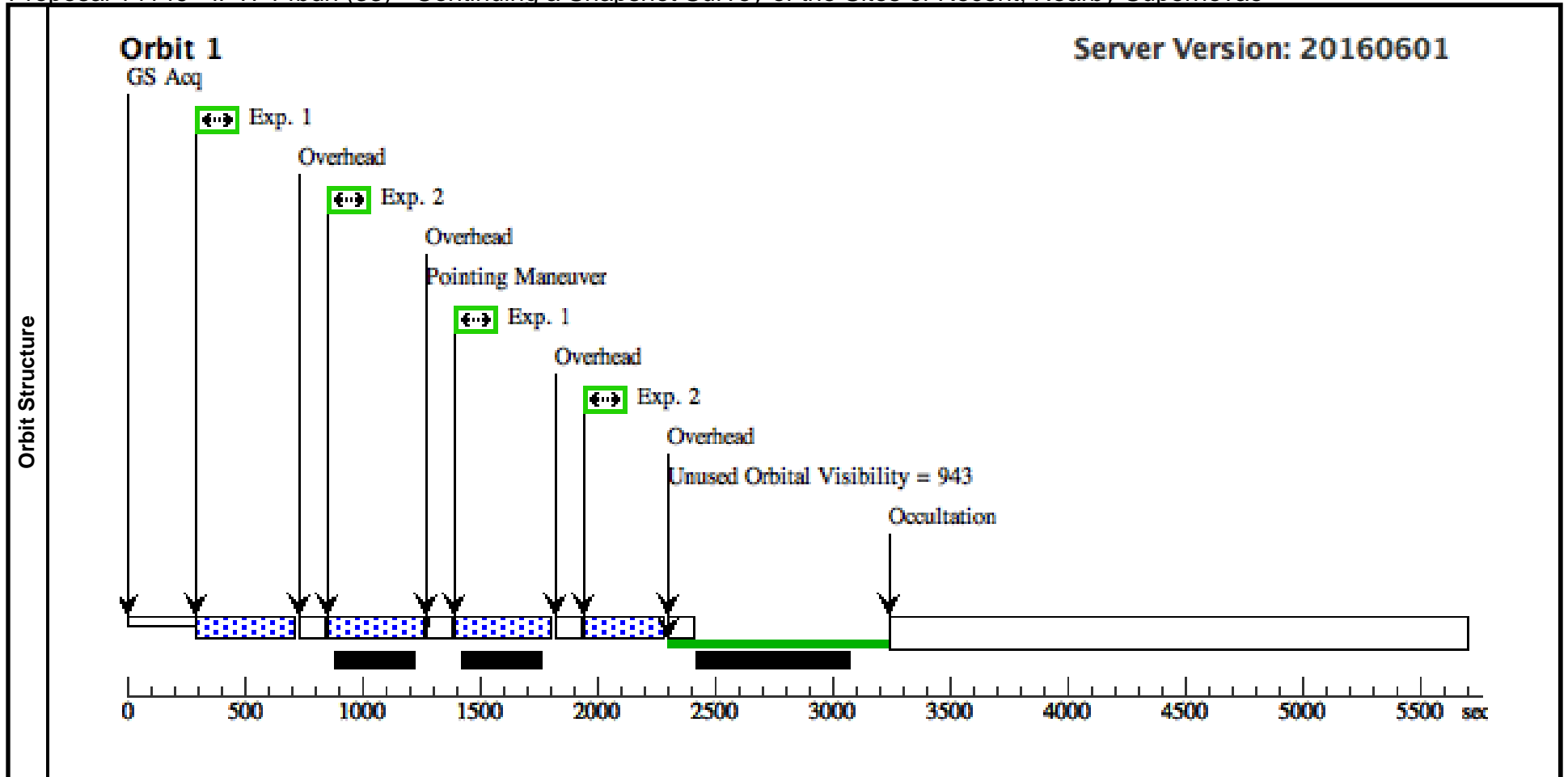
Visit	Proposal 14149, iPTF14atg (32), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(32)	IPTF14ATG	RA: 12 52 44.8000 (193.1866667d) Dec: +26 28 13.05 (26.47029d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(32) IPTF14ATG	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in iPTF14atg (32) (1)	780 Secs (780 Secs) [==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(32) IPTF14ATG	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in iPTF14atg (32) (1)	710 Secs (710 Secs) [==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - iPTF14bdn (33) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

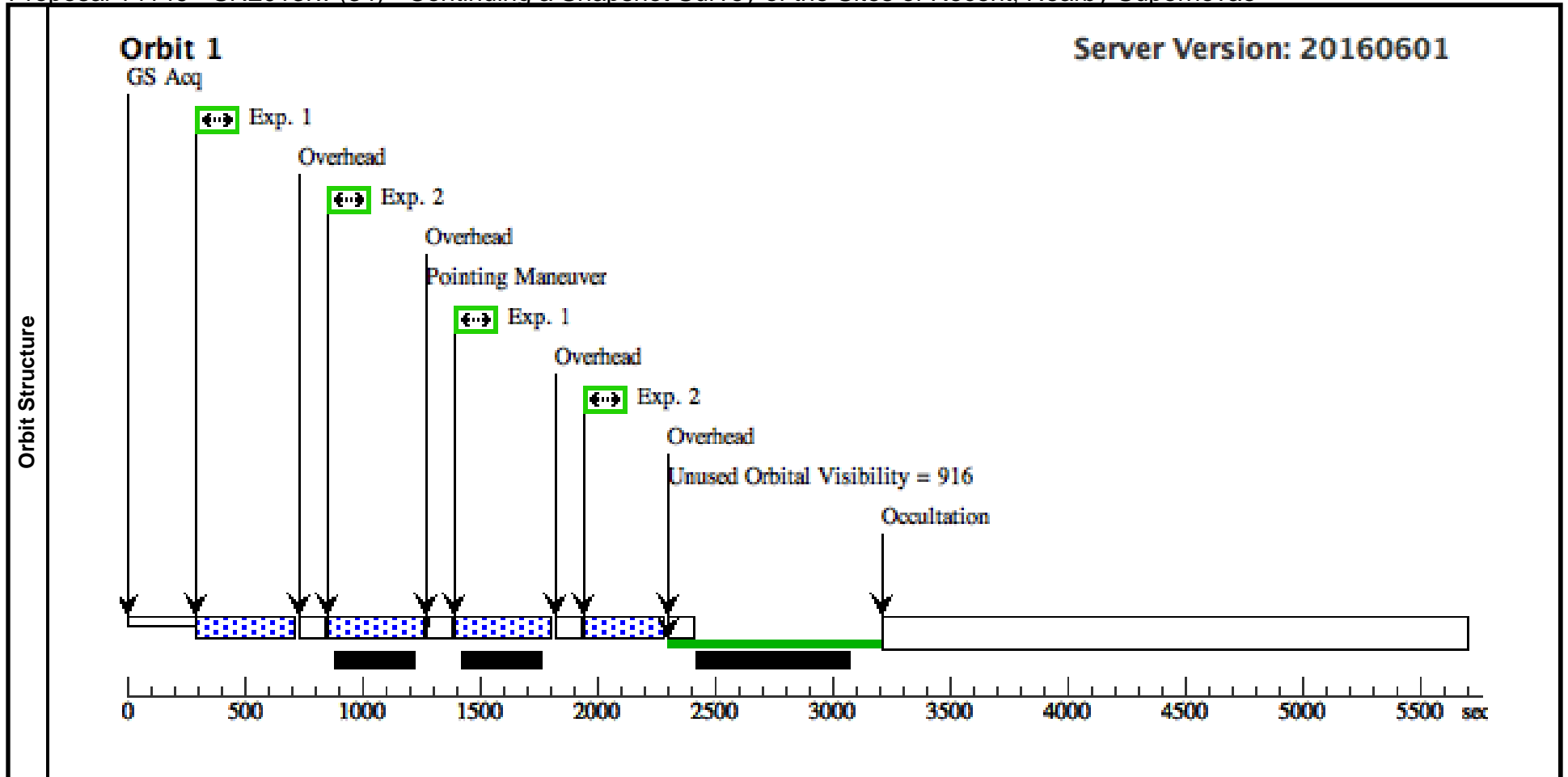
Visit	Proposal 14149, iPTF14bdn (33), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(33)	IPTF14BDN	RA: 13 30 44.8800 (202.6870000d) Dec: +32 45 42.40 (32.76178d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F336W	(33) IPTF14BDN	WFC3/UVIS, ACCUM, UVIS	F336W	FLASH=12		Pattern 1, Exps 1-2 in iPTF14bdn (33) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
2	F555W	(33) IPTF14BDN	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in iPTF14bdn (33) (1)	710 Secs (710 Secs)		
								[==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]	



Proposal 14149 - SN2013fw (34) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

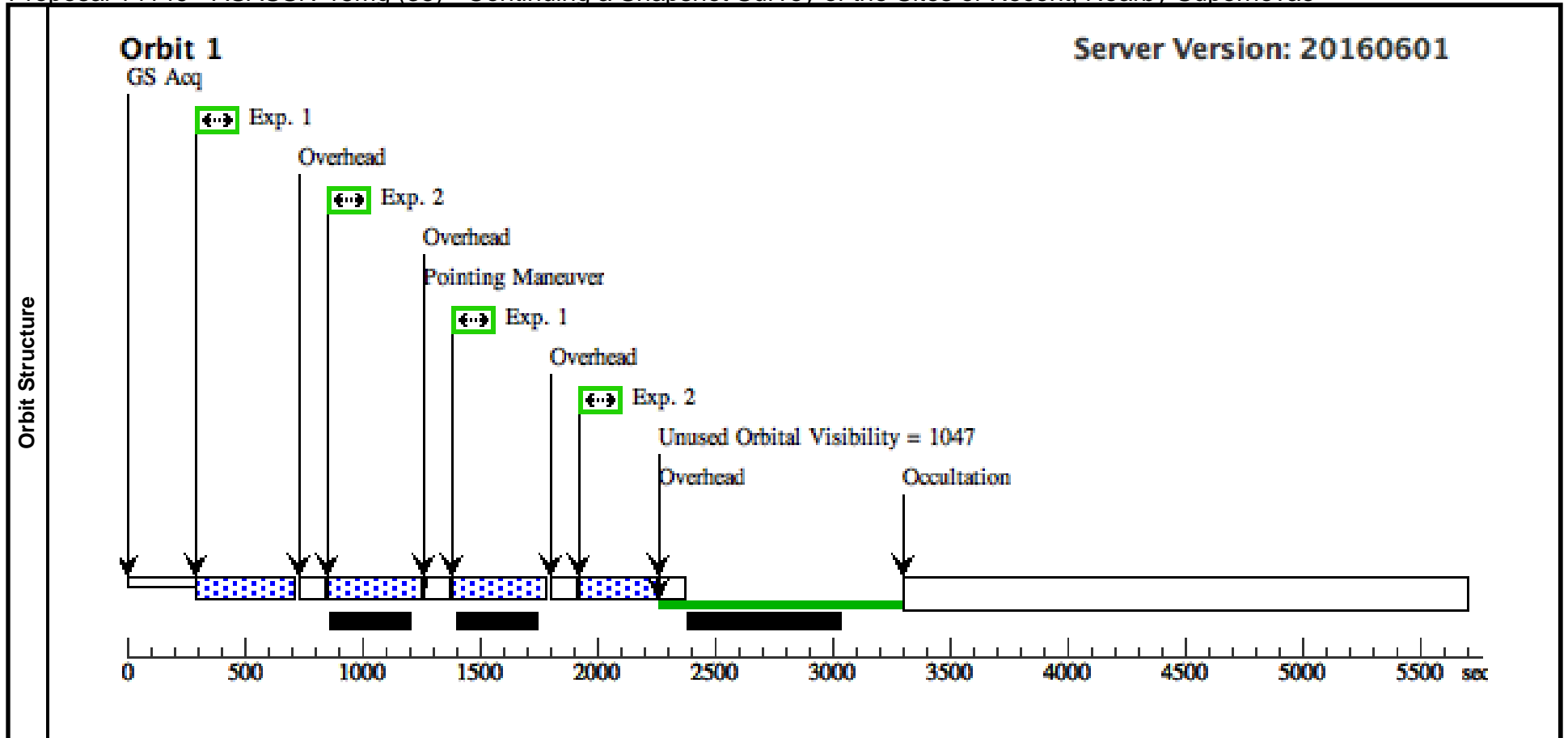
Visit	Proposal 14149, SN2013fw (34), completed Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(34)	SN2013FW	RA: 21 13 44.8100 (318.4367083d) Dec: +13 34 33.50 (13.57597d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F336W	(34) SN2013FW	WFC3/UVIS, ACCUM, UVIS	F336W	FLASH=12		Pattern 1, Exps 1-2 in SN2013fw (34) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
2	F555W	(34) SN2013FW	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4			Pattern 1, Exps 1-2 in SN2013fw (34) (1)	710 Secs (710 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - ASASSN-15mg (35) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

Visit	Proposal 14149, ASASSN-15mg (35), scheduling Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern				Secondary Pattern			Exposures
(1)		Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=				Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false			(1-2)	
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes	Miscellaneous		
	(35)	ASASSN-15MG	RA: 15 32 22.8000 (233.0950000d) Dec: +41 50 59.60 (41.84989d) Equinox: J2000				V=25	Reference Frame: ICRS		
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(35) ASASSN-15M G	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in ASASSN-15mg (35) (1)	780 Secs (780 Secs) [=>390.0 Secs (Pattern 1)] [=>390.0 Secs (Pattern 2)]	[1]
	2	F555W	(35) ASASSN-15M G	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in ASASSN-15mg (35) (1)	710 Secs (710 Secs) [=>390.0 Secs (Pattern 1)] [=>320.0 Secs (Pattern 2)]	[1]



Proposal 14149 - SN2010JP (36) - Continuing a Snapshot Survey of the Sites of Recent, Nearby Supernovae

Wed Nov 09 15:51:01 GMT 2016

Visit	Proposal 14149, SN2010JP (36) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures					
		(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false		(1-2)				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(36)	SN2010JP	RA: 06 16 30.6000 (94.1275000d) Dec: -21 24 36.00 (-21.41000d) Equinox: J2000		V=25	Reference Frame: ICRS				
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	F814W	(36) SN2010JP	WFC3/UVIS, ACCUM, UVIS	F814W	FLASH=4		Pattern 1, Exps 1-2 in SN2010JP (36) (1)	780 Secs (780 Secs)	
									[==>390.0 Secs (Pattern 1)] [==>390.0 Secs (Pattern 2)]	[1]
2	F555W	(36) SN2010JP	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in SN2010JP (36) (1)	710 Secs (710 Secs)		
								[==>390.0 Secs (Pattern 1)] [==>320.0 Secs (Pattern 2)]	[1]	

