



17506 - Constraining the CSM Interaction Engine in Type II Supernovae

Cycle: 31, 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) SN2017EAW	WFC3/UVIS	1	12-Jun-2024 10:01:34.0	yes
02	(2) SN2004ET	WFC3/UVIS	1	12-Jun-2024 10:01:34.0	yes
03	(3) SN2005AF	WFC3/UVIS	1	12-Jun-2024 10:01:35.0	yes
04	(4) SN2013EJ	WFC3/UVIS	1	12-Jun-2024 10:01:35.0	yes
05	(5) SN2011JA	WFC3/UVIS	1	12-Jun-2024 10:01:36.0	yes

Proposal 17506 (STScI Edit Number: 0, Created: Wednesday, June 12, 2024 at 9:01:51 AM Eastern Standard Time) - Overview

<i>Visit</i>	<i>Targets used in Visit</i>	<i>Configurations used in Visit</i>	<i>Orbits Used</i>	<i>Last Orbit Planner Run</i>	<i>OP Current with Visit?</i>
06	(6) SN2005CS	WFC3/UVIS	1	12-Jun-2024 10:01:36.0	yes
07	(7) SN1998S	WFC3/UVIS	1	12-Jun-2024 10:01:37.0	yes
08	(8) SN2020TLF	WFC3/UVIS	1	12-Jun-2024 10:01:37.0	yes
09	(9) SN2020JFO	WFC3/UVIS	1	12-Jun-2024 10:01:38.0	yes
10	(10) SN2021YJA	WFC3/UVIS	1	12-Jun-2024 10:01:38.0	yes
11	(11) SN2020FQV	WFC3/UVIS	1	12-Jun-2024 10:01:38.0	yes
12	(12) SN2002HH	WFC3/UVIS	1	12-Jun-2024 10:01:39.0	yes
13	(13) SN2004DJ	WFC3/UVIS	1	12-Jun-2024 10:01:39.0	yes
14	(14) SN2016BKV	WFC3/UVIS	1	12-Jun-2024 10:01:40.0	yes
15	(15) SN2003GD	WFC3/UVIS	1	12-Jun-2024 10:01:40.0	yes
16	(16) SN2014BC	WFC3/UVIS	1	12-Jun-2024 10:01:41.0	yes
17	(17) SN2012AW	WFC3/UVIS	1	12-Jun-2024 10:01:41.0	yes
18	(18) SN2005AY	WFC3/UVIS	1	12-Jun-2024 10:01:42.0	yes
19	(19) SN2006MY	WFC3/UVIS	1	12-Jun-2024 10:01:42.0	yes
20	(20) SN2004A	WFC3/UVIS	1	12-Jun-2024 10:01:43.0	yes
21	(21) SN2018ZD	WFC3/UVIS	1	12-Jun-2024 10:01:43.0	yes
22	(22) SN2006BP	WFC3/UVIS	1	12-Jun-2024 10:01:44.0	yes
23	(23) SN2021GMJ	WFC3/UVIS	1	12-Jun-2024 10:01:44.0	yes
24	(24) SN2018AOQ	WFC3/UVIS	1	12-Jun-2024 10:01:45.0	yes
25	(25) SN2013BU	WFC3/UVIS	1	12-Jun-2024 10:01:45.0	yes
26	(26) SN2014G	WFC3/UVIS	1	12-Jun-2024 10:01:45.0	yes
27	(27) SN2020CXD	WFC3/UVIS	1	12-Jun-2024 10:01:46.0	yes
28	(28) SN2004DG	WFC3/UVIS	1	12-Jun-2024 10:01:46.0	yes
29	(29) SN2006OV	WFC3/UVIS	1	12-Jun-2024 10:01:47.0	yes
30	(30) SN1999AN	WFC3/UVIS	1	12-Jun-2024 10:01:47.0	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>
31	(31) SN2020MJM	WFC3/UVIS	1	12-Jun-2024 10:01:47.0	yes
32	(32) SN2003HN	WFC3/UVIS	1	12-Jun-2024 10:01:48.0	yes
33	(33) SN1999GN	WFC3/UVIS	1	12-Jun-2024 10:01:48.0	yes
34	(34) SN2015AS	WFC3/UVIS	1	12-Jun-2024 10:01:49.0	yes
35	(35) SN2003B	WFC3/UVIS	1	12-Jun-2024 10:01:49.0	yes
36	(36) SN2018GET	WFC3/UVIS	1	12-Jun-2024 10:01:50.0	yes
37	(37) SN2003Z	WFC3/UVIS	1	12-Jun-2024 10:01:50.0	yes
38	(38) SN2022ACKO	WFC3/UVIS	1	12-Jun-2024 10:01:51.0	yes

38 Total Orbits Used

ABSTRACT

Late-stage evolution of red supergiant stars and their explosive demise as type II supernovae (SNe II) remain to be active areas of inquiry in astrophysics. Recently, late-time ($t > 900$ days) observations of SNe II 2013ej and 2017eaw revealed a prominent excess of UV emission beyond what is predicted from radioactive decay, consistent with theoretical predictions for on-going interaction between the SN shockwave and intervening circumstellar material. Furthermore, these SNe II display bright JWST IR luminosities, both indicating the presence of large reservoirs of dust and confirming shock interaction as the power source. Now that theory and observations have coalesced, it is essential to target a larger sample of SNe II at very late-times in order to confirm the theoretical prediction that all SNe II should be UV bright at $t > 900$ days. Here we propose an HST snapshot program to target 38 nearby SNe II in F275W (UV) and F555W (optical) filters. This program seeks to build the largest sample to date of late-time SNe II UV observations in order to (1) constrain the fraction of kinetic shock power thermalization, (2) determine the uncertain rate of red supergiant mass loss in the final centuries before explosion, and (3) confirm ejecta-CSM interaction as a mechanism for heating dust formed in the SN ejecta.

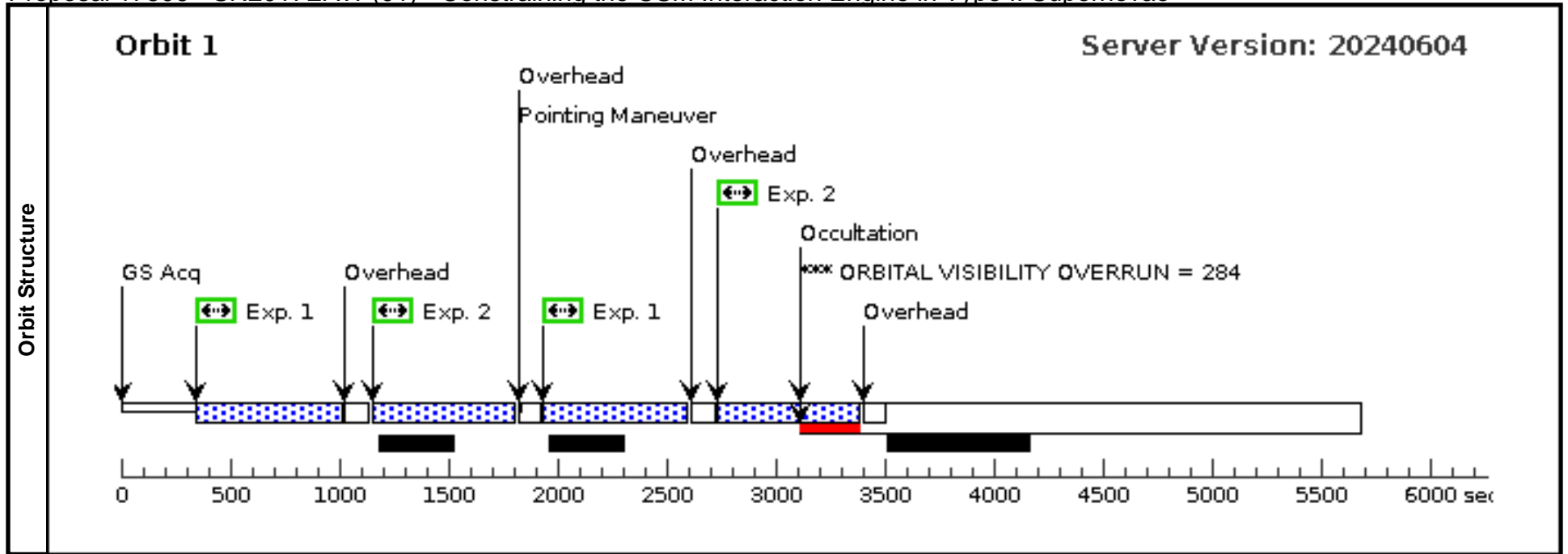
OBSERVING DESCRIPTION

This is a snapshot program. Nearly all observations follow the same format with a single orbit split into F275W and F555W observations in WFC3, with cosmic ray split following the WFC3-DITHER-LINE pattern.

Proposal 17506 - SN2017EAW (01) - Constraining the CSM Interaction Engine in Type II Supernovae

Wed Jun 12 14:01:51 GMT 2024

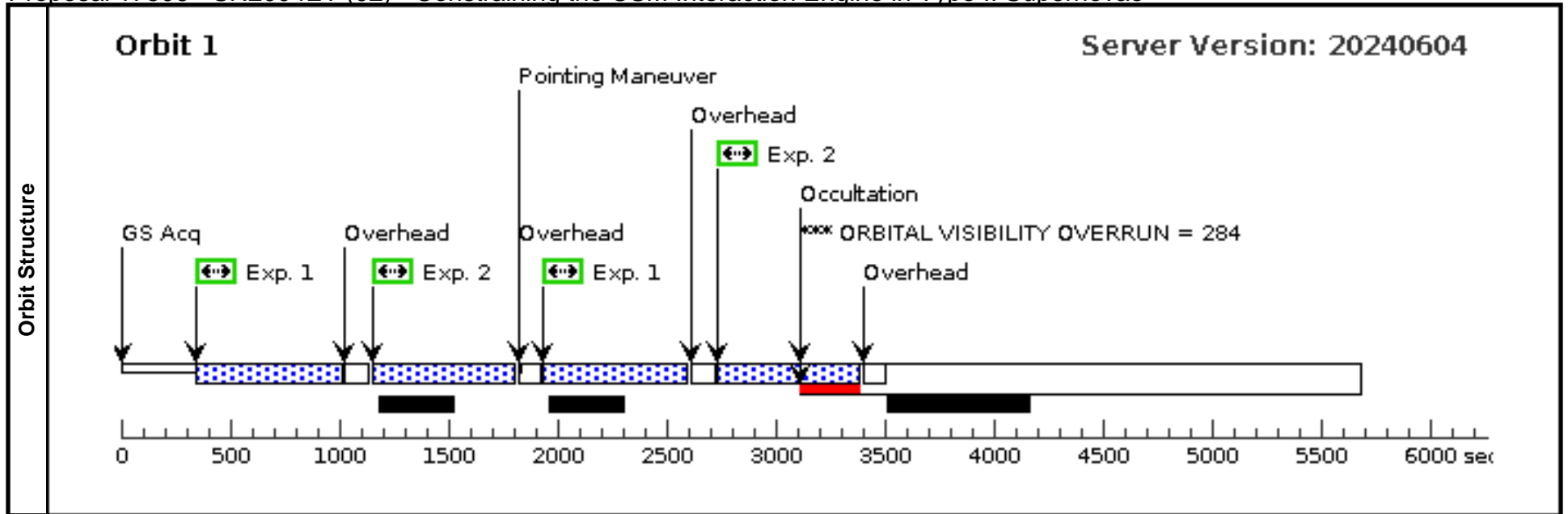
Visit	Proposal 17506, SN2017EAW (01), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2017EAW (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(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				
	(1)	SN2017EAW	RA: 20 34 44.2400 (308.6843333d) Dec: +60 11 35.90 (60.19331d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) SN2017EAW	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 i n SN2017EAW (01) (1)	640 Secs (1280 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2		(1) SN2017EAW	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 i n SN2017EAW (01) (1)	630 Secs (1260 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2004ET (02) - Constraining the CSM Interaction Engine in Type II Supernovae

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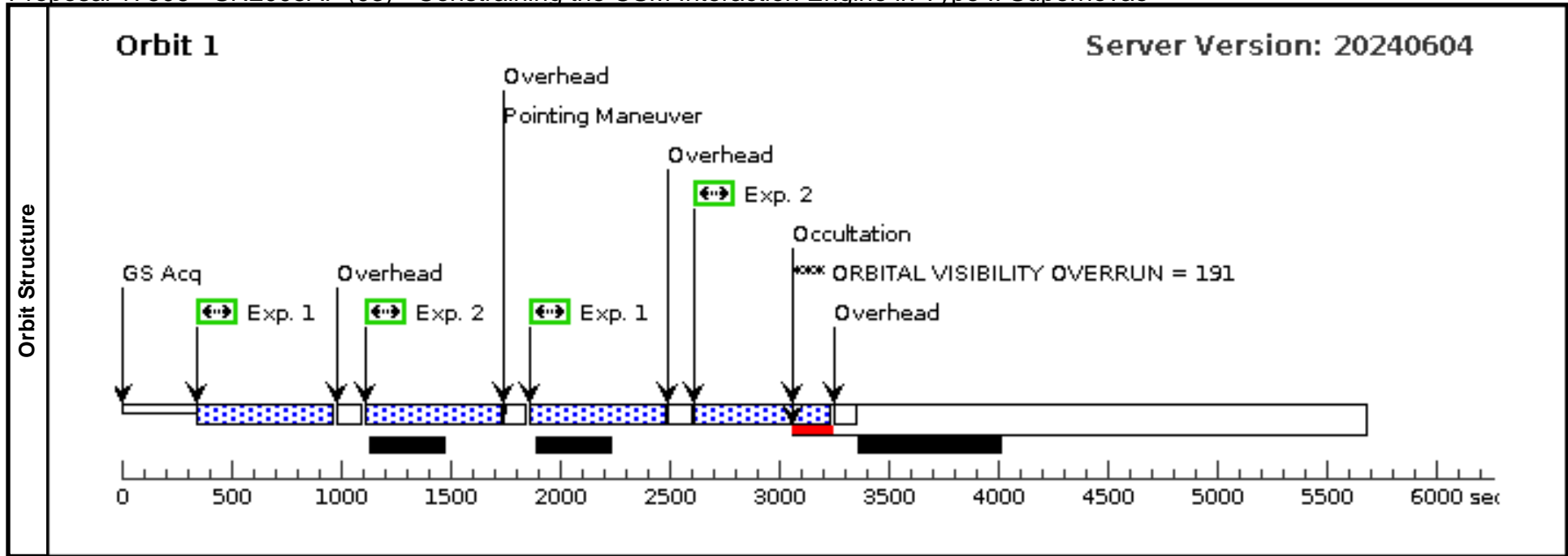
Visit	Proposal 17506, SN2004ET (02), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2004ET (02)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern			Secondary Pattern		Exposures			
	(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)	SN2004ET	RA: 20 35 25.3300 (308.8555417d) Dec: +60 07 17.62 (60.12156d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(2) SN2004ET	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 i n SN2004ET (02) (1)	640 Secs (1280 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2		(2) SN2004ET	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 i n SN2004ET (02) (1)	630 Secs (1260 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2005AF (03) - Constraining the CSM Interaction Engine in Type II Supernovae

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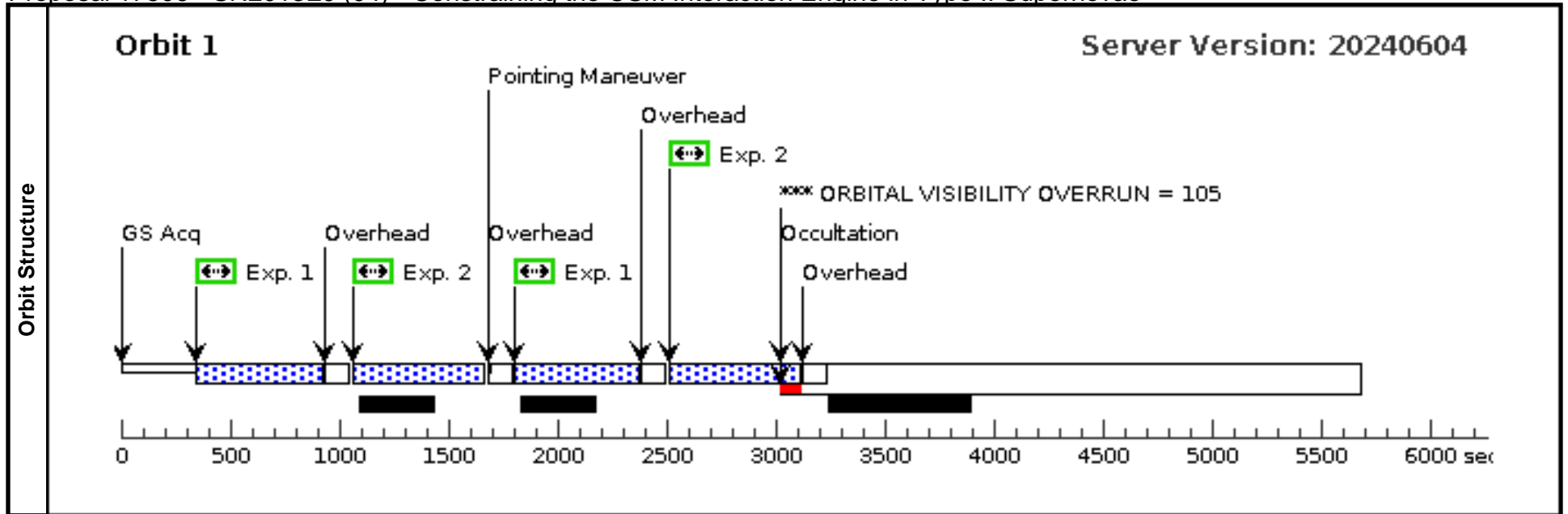
Visit	Proposal 17506, SN2005AF (03), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2005AF (03)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern			Secondary Pattern		Exposures			
	(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				
	(3)	SN2005AF	RA: 13 04 44.0600 (196.1835833d) Dec: -49 33 59.80 (-49.56661d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) SN2005AF	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2005AF (03) (1)	595 Secs (1190 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2		(3) SN2005AF	WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 in SN2005AF (03) (1)	600 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2013EJ (04) - Constraining the CSM Interaction Engine in Type II Supernovae

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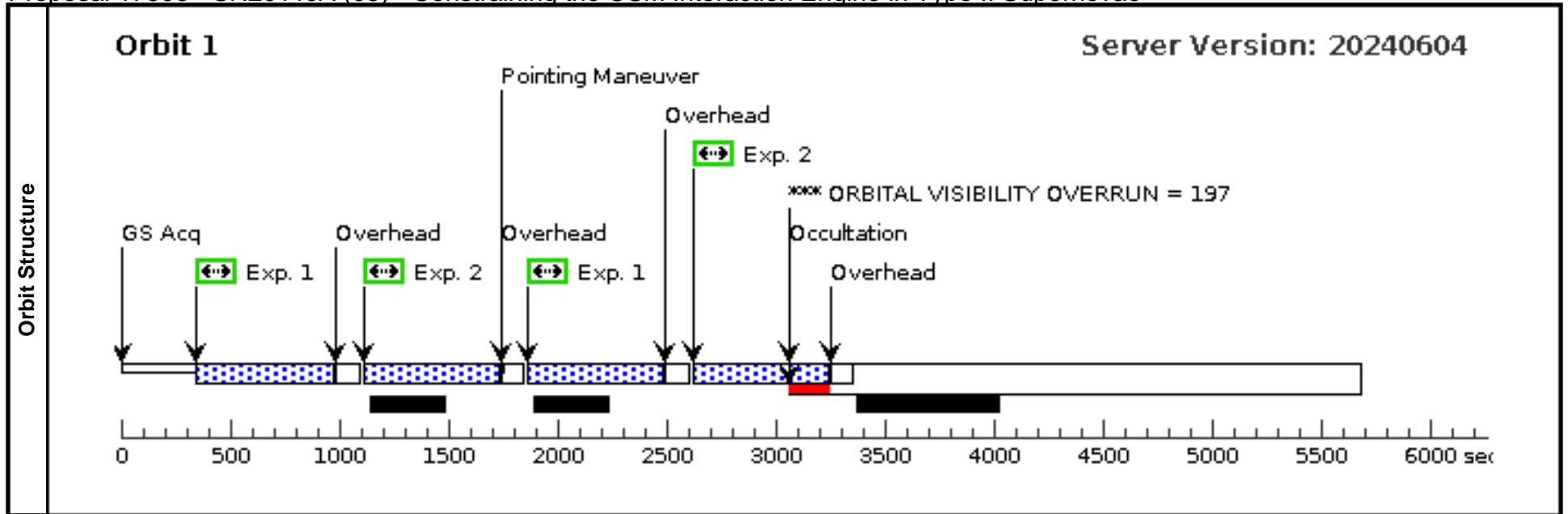
Visit	Proposal 17506, SN2013EJ (04), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2013EJ (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(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)	SN2013EJ	RA: 01 36 48.1600 (24.2006667d) Dec: +15 45 30.96 (15.75860d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(4) SN2013EJ		WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 i n SN2013EJ (04) (1)	550 Secs (1100 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2	(4) SN2013EJ		WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 i n SN2013EJ (04) (1)	580 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2011JA (05) - Constraining the CSM Interaction Engine in Type II Supernovae

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Visit	Proposal 17506, SN2011JA (05), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2011JA (05)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern			Secondary Pattern		Exposures			
	(1)	Pattern Type=WFC3-UVIS-DITHER- LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=					(1-2)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(5)	SN2011JA	RA: 13 05 11.1200 (196.2963333d) Dec: -49 31 27.00 (-49.52417d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(5) SN2011JA		WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2011JA (05) (1)	598 Secs (1196 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2	(5) SN2011JA		WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 in SN2011JA (05) (1)	600 Secs (1200 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2005CS (06) - Constraining the CSM Interaction Engine in Type II Supernovae

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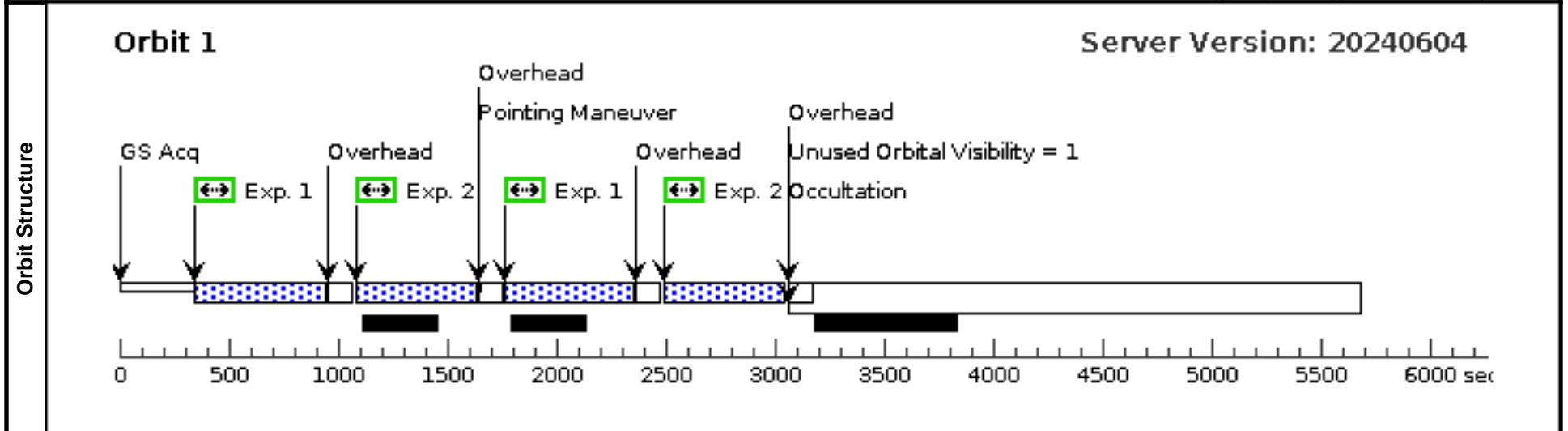
Visit	Proposal 17506, SN2005CS (06), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(6)	SN2005CS	RA: 13 29 53.0000 (202.4708333d) Dec: +47 10 36.30 (47.17675d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1		(6) SN2005CS	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2005CS (06) (1)	567 Secs (1134 Secs)
									[==>(Pattern 1)] [==>(Pattern 2)]	[1]
	2		(6) SN2005CS	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=4		Pattern 1, Exps 1-2 in SN2005CS (06) (1)	530 Secs (1060 Secs)	
									[==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 17506 - SN1998S (07) - Constraining the CSM Interaction Engine in Type II Supernovae

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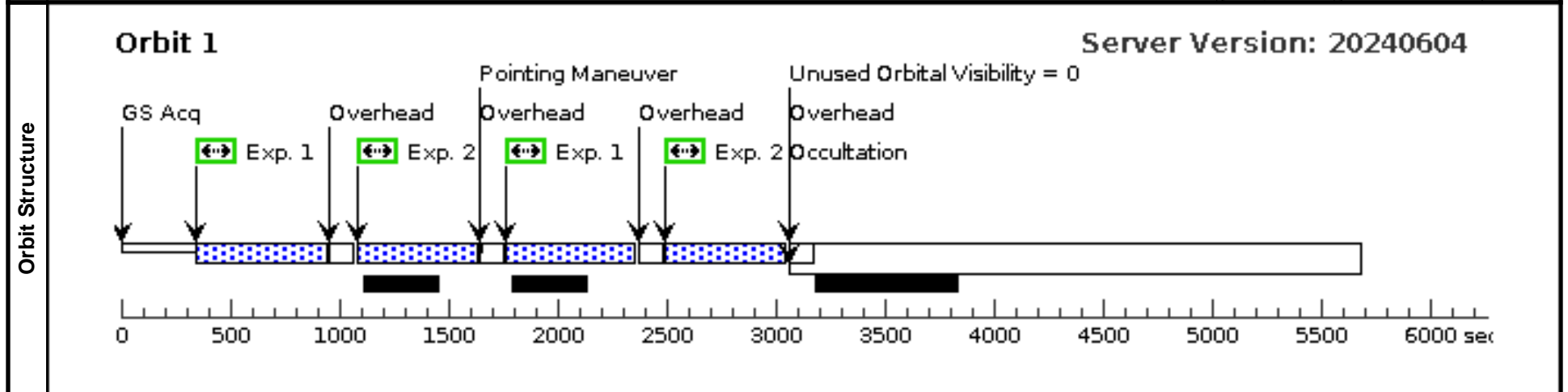
Visit	Proposal 17506, SN1998S (07), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	SN1998S	RA: 11 46 6.1800 (176.5257500d) Dec: +47 28 55.49 (47.48208d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(7) SN1998S	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20			Pattern 1, Exps 1-2 in SN1998S (07) (1)	567 Secs (1134 Secs)	[1]
2	(7) SN1998S	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5			Pattern 1, Exps 1-2 in SN1998S (07) (1)	530 Secs (1060 Secs)	[1]	



Proposal 17506 - SN2020TLF (08) - Constraining the CSM Interaction Engine in Type II Supernovae

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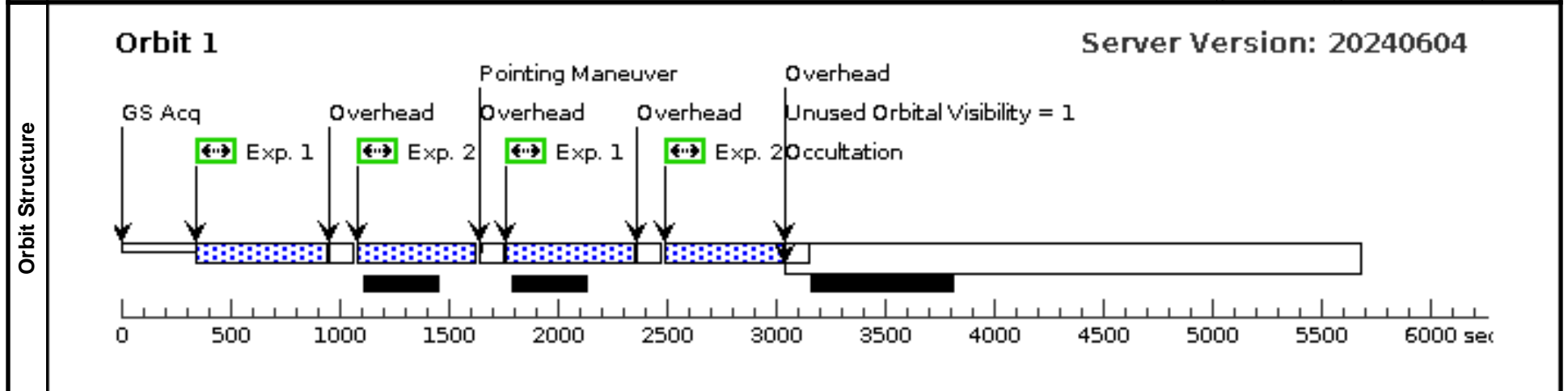
Visit	Proposal 17506, SN2020TLF (08), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(8)	SN2020TLF	RA: 14 40 10.0300 (220.0417917d) Dec: +42 46 39.45 (42.77763d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1		(8) SN2020TLF	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2020TLF (08) (1)	570 Secs (1140 Secs) [=>(Pattern 1)] [=>(Pattern 2)]
2			(8) SN2020TLF	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2020TLF (08) (1)	520 Secs (1040 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2020JFO (09) - Constraining the CSM Interaction Engine in Type II Supernovae

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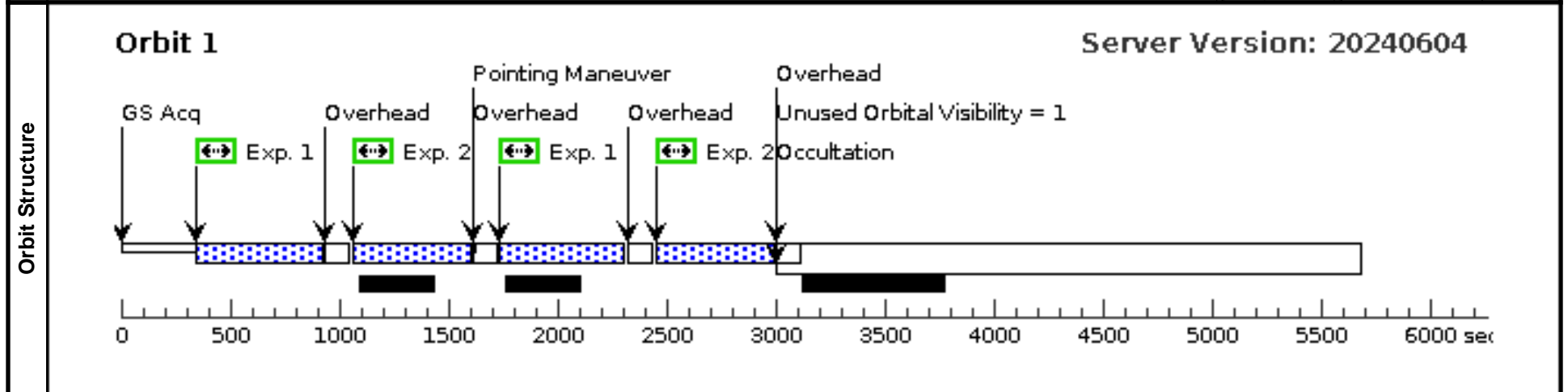
Visit	Proposal 17506, SN2020JFO (09), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(9)	SN2020JFO	RA: 12 21 50.4800 (185.4603333d) Dec: +04 28 54.14 (4.48171d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(9) SN2020JFO	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2020JFO (09) (1)	550 Secs (1100 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2		(9) SN2020JFO	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2020JFO (09) (1)	518 Secs (1036 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2021YJA (10) - Constraining the CSM Interaction Engine in Type II Supernovae

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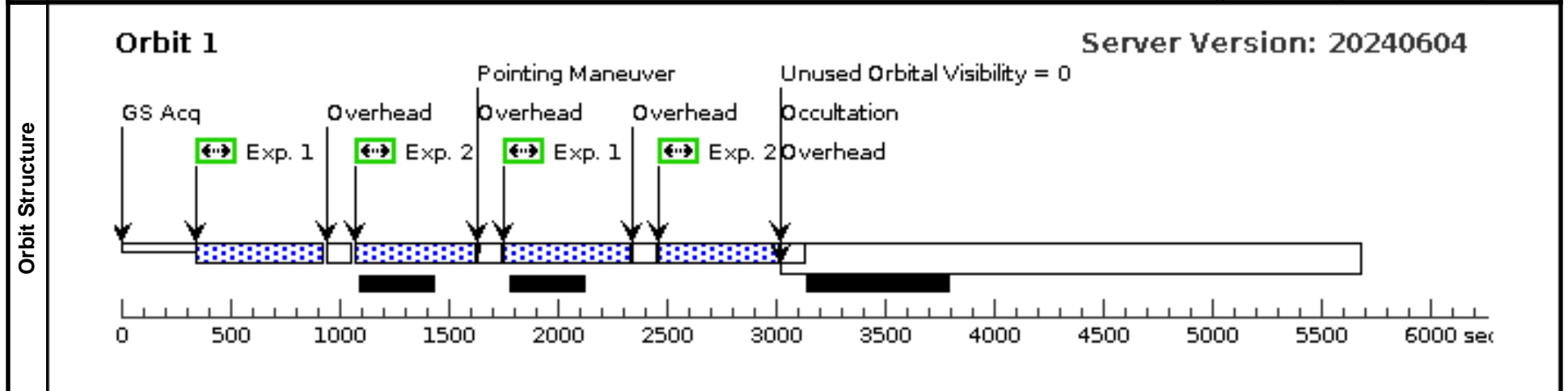
Visit	Proposal 17506, SN2021YJA (10), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		

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	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	SN2021YJA	RA: 03 24 21.1800 (51.0882500d) Dec: -21 33 56.21 (-21.56561d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(10) SN2021YJA	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2021YJA (10) (1)	555 Secs (1110 Secs)	[=>(Pattern 1)] [=>(Pattern 2)]	[1]
2	(10) SN2021YJA	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2021YJA (10) (1)	525 Secs (1050 Secs)	[=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2020FQV (11) - Constraining the CSM Interaction Engine in Type II Supernovae

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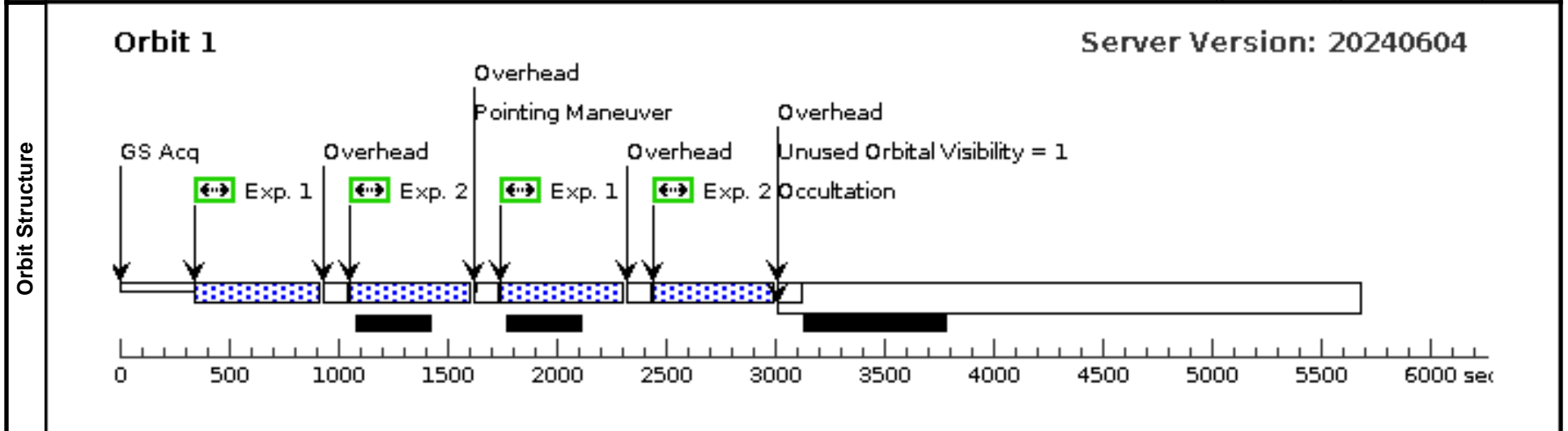
Visit	Proposal 17506, SN2020FQV (11), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(11)	SN2020FQV	RA: 12 36 33.2600 (189.1385833d) Dec: +11 13 53.95 (11.23165d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

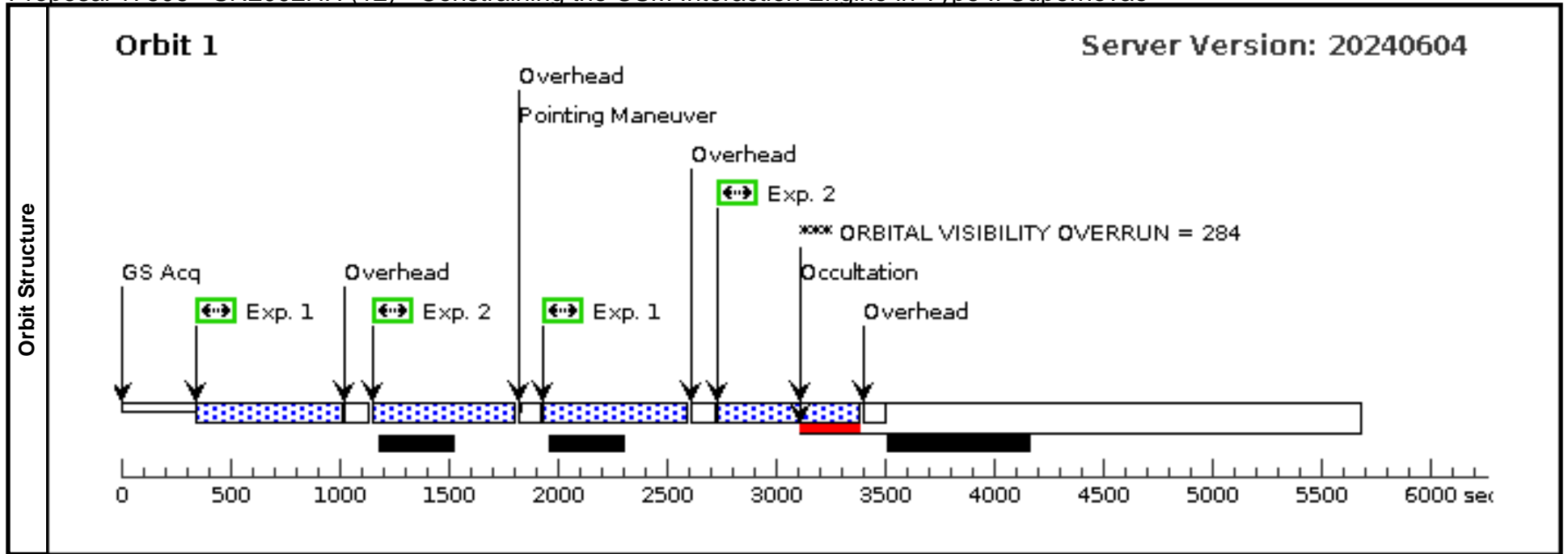
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(11) SN2020FQV	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2020FQV (11) (1)	543 Secs (1086 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(11) SN2020FQV	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2020FQV (11) (1)	530 Secs (1060 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2002HH (12) - Constraining the CSM Interaction Engine in Type II Supernovae

Wed Jun 12 14:01:52 GMT 2024

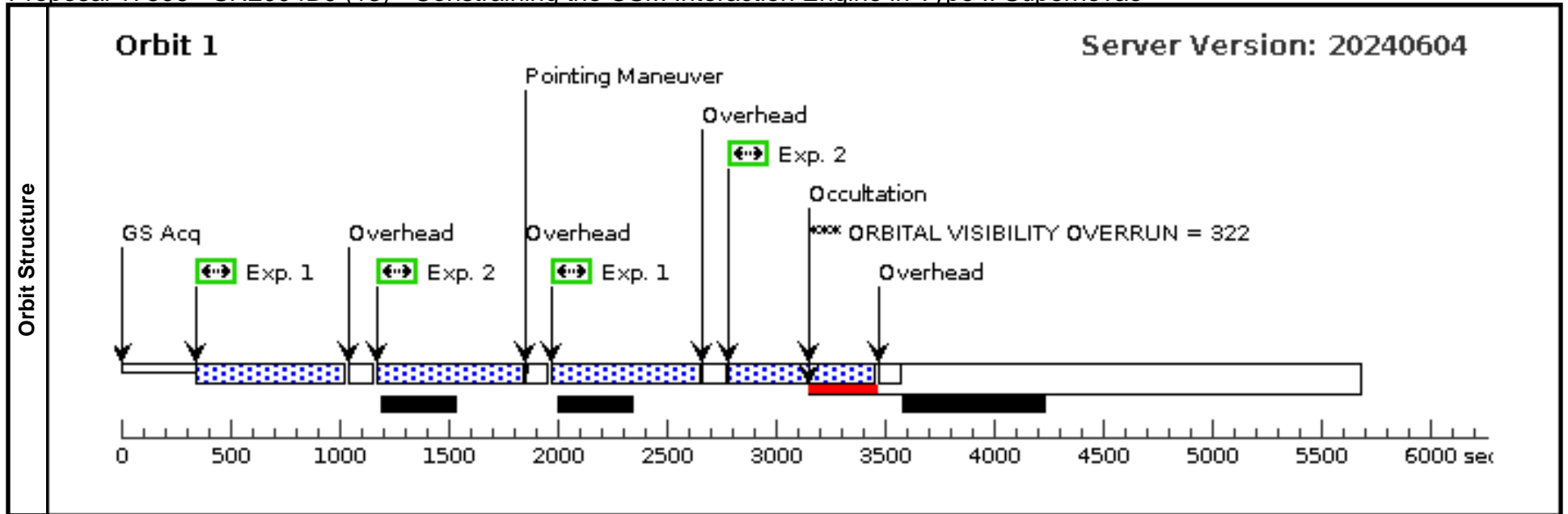
Visit	Proposal 17506, SN2002HH (12), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2002HH (12)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern		Exposures					
	(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)	SN2002HH	RA: 20 34 44.2900 (308.6845417d) Dec: +60 07 19.00 (60.12194d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(12) SN2002HH		WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2002HH (12) (1)	640 Secs (1280 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
2	(12) SN2002HH		WFC3/UVIS, ACCUM, UVIS	F555W				Pattern 1, Exps 1-2 in SN2002HH (12) (1)	630 Secs (1260 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 17506 - SN2004DJ (13) - Constraining the CSM Interaction Engine in Type II Supernovae

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Visit	Proposal 17506, SN2004DJ (13), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2004DJ (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
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				
	(13)	SN2004DJ	RA: 07 37 17.0200 (114.3209167d) Dec: +65 35 57.80 (65.59939d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(13) SN2004DJ		WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2004DJ (13) (1)	655 Secs (1310 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2	(13) SN2004DJ		WFC3/UVIS, ACCUM, UVIS	F555W			Pattern 1, Exps 1-2 in SN2004DJ (13) (1)	650 Secs (1300 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2016BKV (14) - Constraining the CSM Interaction Engine in Type II Supernovae

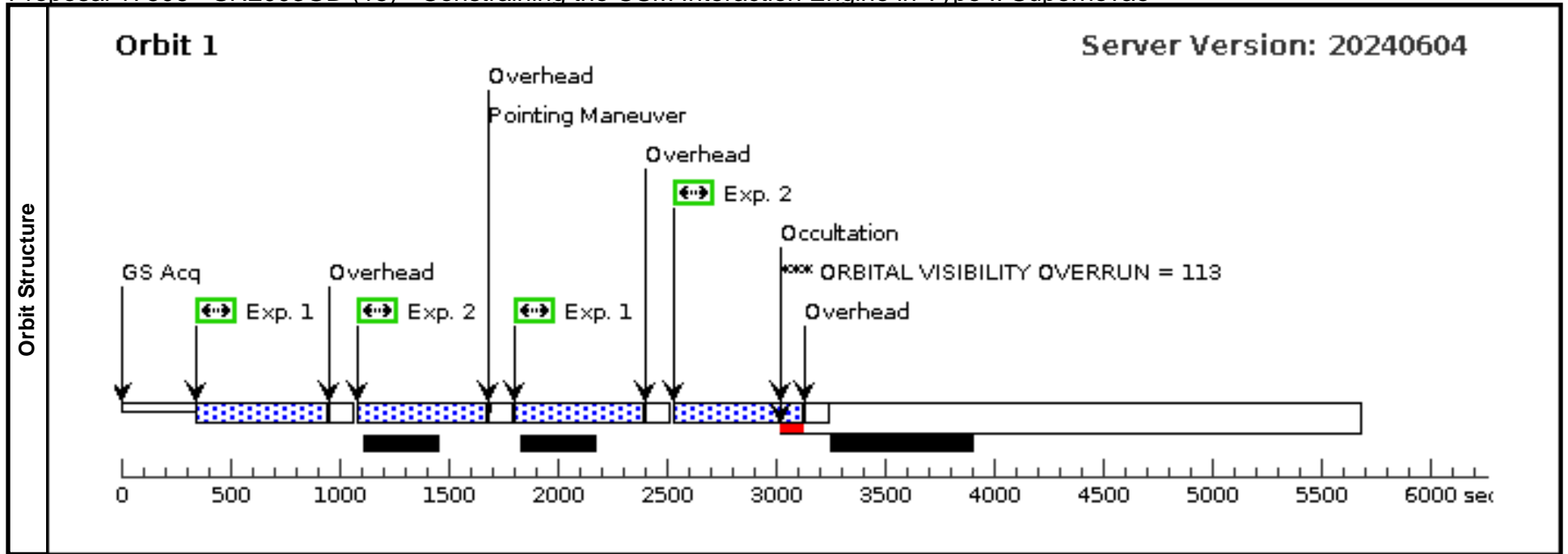
Wed Jun 12 14:01:52 GMT 2024

Visit	Proposal 17506, SN2016BKV (14), pi 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					
	(14)	SN2016BKV	RA: 10 18 19.3100 (154.5804583d) Dec: +41 25 39.30 (41.42758d) Equinox: J2000		V=24	Reference Frame: SIMBAD					
	Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	
	1	(14) SN2016BKV	(14) SN2016BKV	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2016BKV (14) (1)	560 Secs (1120 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	
2	(14) SN2016BKV	(14) SN2016BKV	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2016BKV (14) (1)	530 Secs (1060 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]		
Orbit Structure	Orbit 1 Server Version: 20240604										
	<p>The diagram illustrates the orbit structure for Orbit 1, spanning from 0 to 6000 seconds. Key events include GS Acq at approximately 250s, followed by a sequence of exposures (Exp. 1 and Exp. 2) separated by overhead periods. Pointing maneuvers occur between exposure sequences. An occultation period is shown as a black hatched area starting around 3100s. The total observation time is approximately 3000s, with 1 second of unused orbital visibility.</p>										

Proposal 17506 - SN2003GD (15) - Constraining the CSM Interaction Engine in Type II Supernovae

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Visit	Proposal 17506, SN2003GD (15), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2003GD (15)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
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)	SN2003GD	RA: 01 36 42.6500 (24.1777083d) Dec: +15 44 19.90 (15.73886d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(15) SN2003GD		WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2003GD (15) (1)	569 Secs (1138 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2	(15) SN2003GD		WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2003GD (15) (1)	565 Secs (1130 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2014BC (16) - Constraining the CSM Interaction Engine in Type II Supernovae

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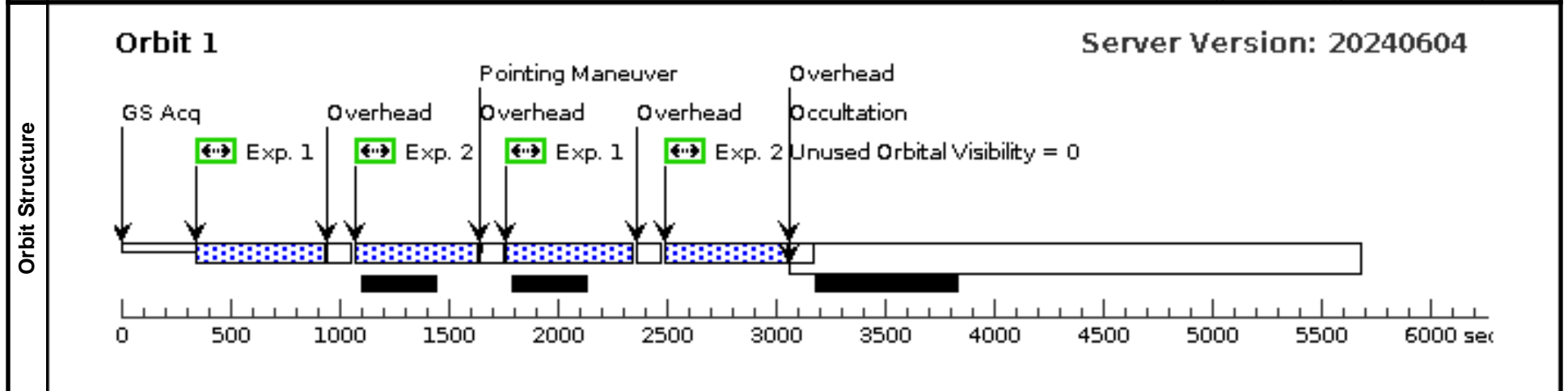
Visit	Proposal 17506, SN2014BC (16), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(16)	SN2014BC	RA: 12 18 57.7100 (184.7404583d) Dec: +47 18 11.30 (47.30314d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(16) SN2014BC	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2014BC (16) (1)	560 Secs (1120 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(16) SN2014BC	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2014BC (16) (1)	537 Secs (1074 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2012AW (17) - Constraining the CSM Interaction Engine in Type II Supernovae

Wed Jun 12 14:01:52 GMT 2024

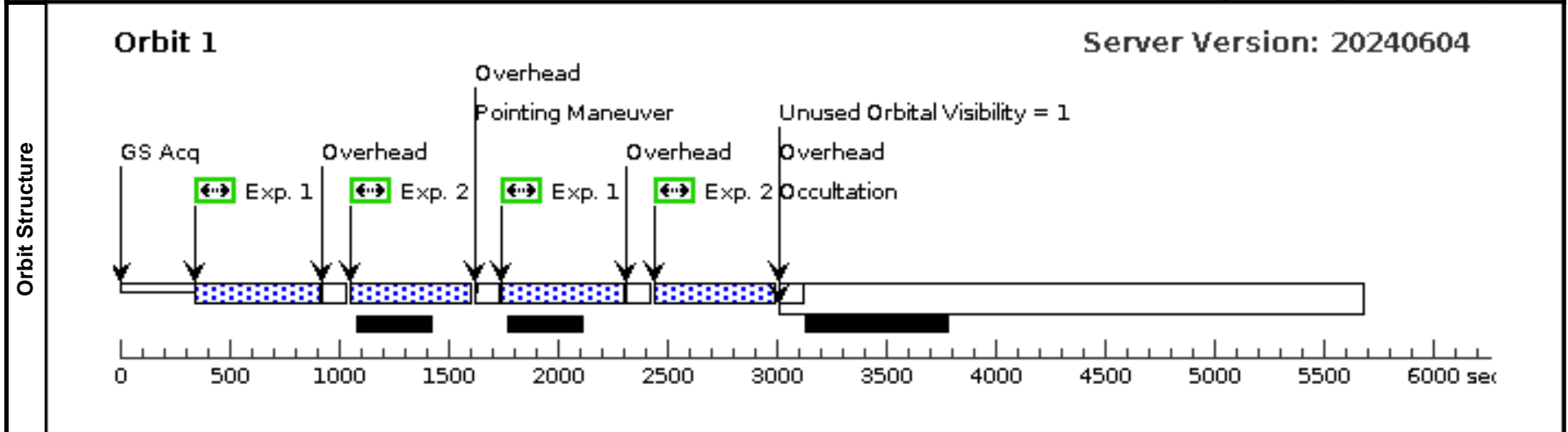
Visit	Proposal 17506, SN2012AW (17), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(17)	SN2012AW	RA: 10 43 53.7300 (160.9738750d) Dec: +11 40 17.63 (11.67156d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
Category=EXT-STAR
Description=[SUPERNOVA TYPE II]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1		(17) SN2012AW	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2012AW (17) (1)	540 Secs (1080 Secs) [=>(Pattern 1)] [=>(Pattern 2)]
2			(17) SN2012AW	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2012AW (17) (1)	533 Secs (1066 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2005AY (18) - Constraining the CSM Interaction Engine in Type II Supernovae

Wed Jun 12 14:01:52 GMT 2024

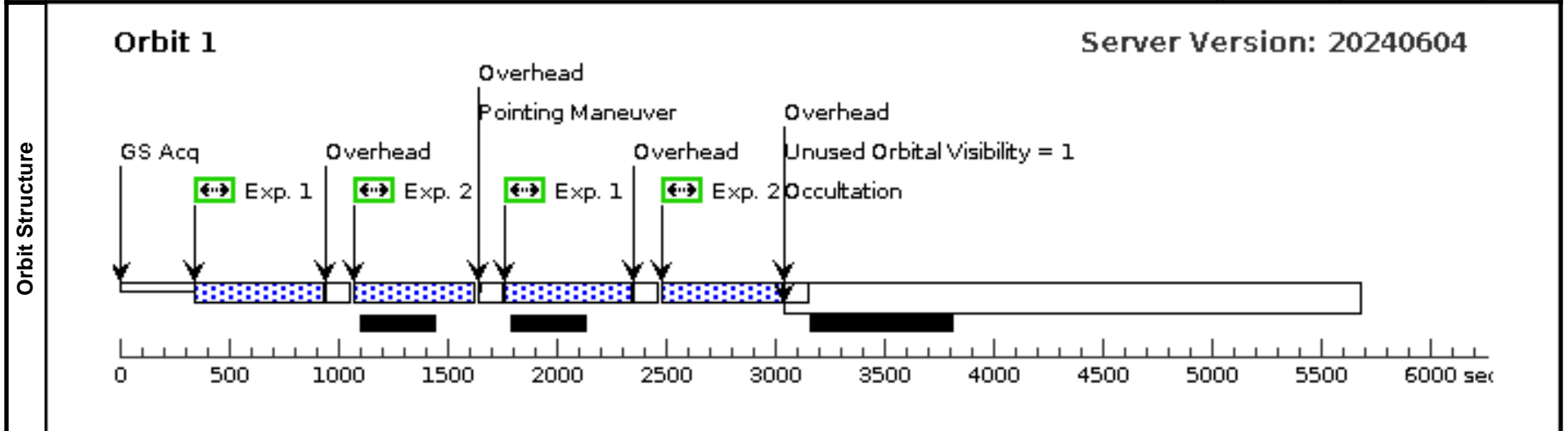
Visit	Proposal 17506, SN2005AY (18), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(18)	SN2005AY	RA: 11 52 48.0700 (178.2002917d) Dec: +44 06 18.40 (44.10511d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
Category=EXT-STAR
Description=[SUPERNOVA TYPE II]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1		(18) SN2005AY	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2005AY (18) (1)	560 Secs (1120 Secs) [=>(Pattern 1)] [=>(Pattern 2)]
2			(18) SN2005AY	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2005AY (18) (1)	530 Secs (1060 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2006MY (19) - Constraining the CSM Interaction Engine in Type II Supernovae

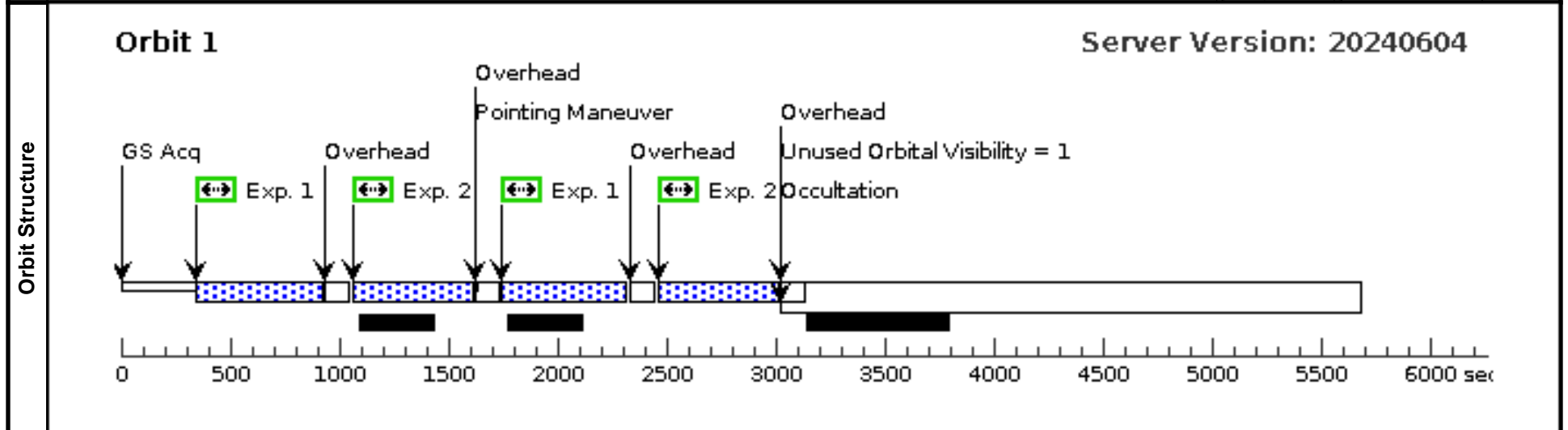
Wed Jun 12 14:01:52 GMT 2024

Visit	Proposal 17506, SN2006MY (19), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=		(1-2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(19)	SN2006MY	RA: 12 43 40.7400 (190.9197500d) Dec: +16 23 14.10 (16.38725d) Equinox: J2000		V=24	Reference Frame: SIMBAD
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE II]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(19) SN2006MY	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2006MY (19) (1)	550 Secs (1100 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(19) SN2006MY	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2006MY (19) (1)	527 Secs (1054 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2004A (20) - Constraining the CSM Interaction Engine in Type II Supernovae

Wed Jun 12 14:01:52 GMT 2024

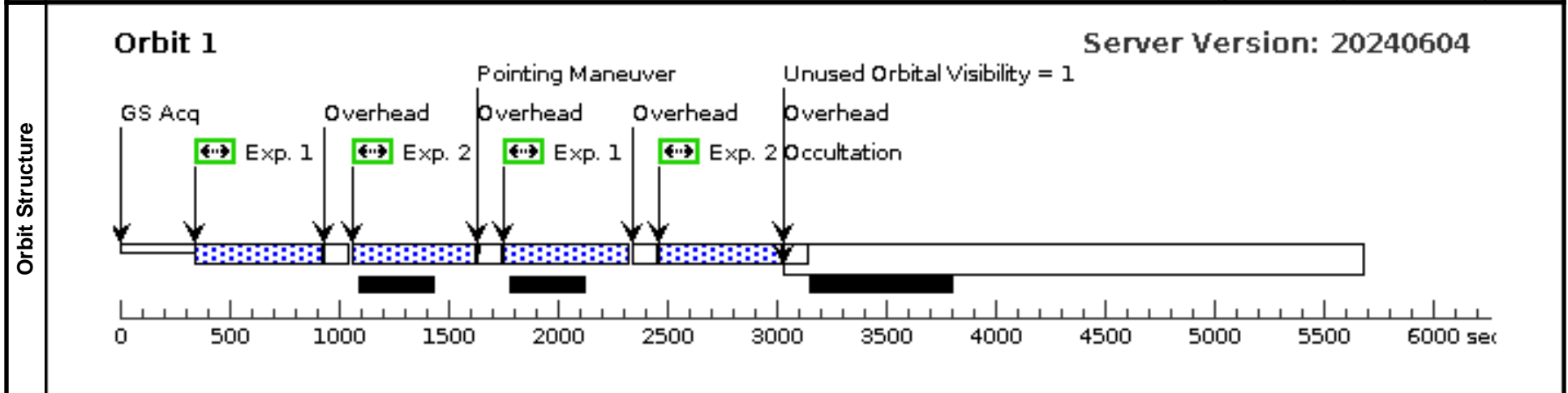
Visit	Proposal 17506, SN2004A (20), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(20)	SN2004A	RA: 16 43 1.9000 (250.7579167d) Dec: +36 50 12.50 (36.83681d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
Category=EXT-STAR
Description=[SUPERNOVA TYPE II]

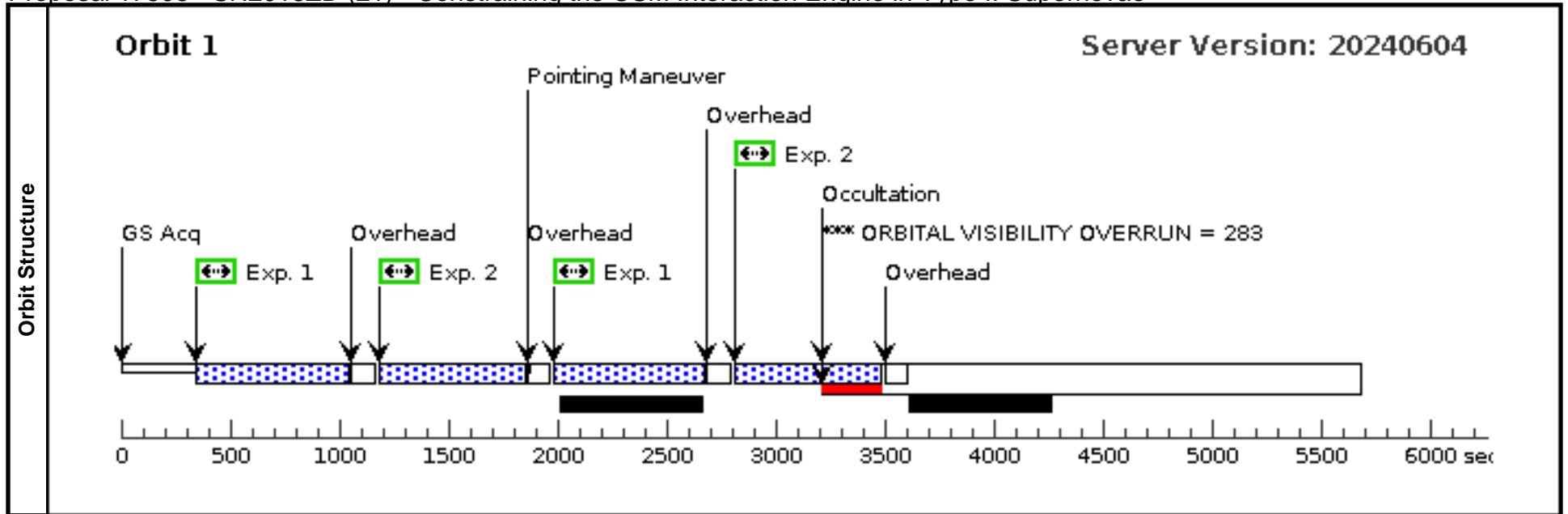
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1		(20) SN2004A	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2004A (20) (1)	550 Secs (1100 Secs)
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(20) SN2004A	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2004A (20) (1)	535 Secs (1070 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2018ZD (21) - Constraining the CSM Interaction Engine in Type II Supernovae

Wed Jun 12 14:01:52 GMT 2024

Visit	Proposal 17506, SN2018ZD (21), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2018ZD (21)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
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)	SN2018ZD	RA: 06 18 3.1800 (94.5132500d) Dec: +78 22 0.90 (78.36692d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(21) SN2018ZD		WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2018ZD (21) (1)	669 Secs (1338 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
2	(21) SN2018ZD		WFC3/UVIS, ACCUM, UVIS	F555W				Pattern 1, Exps 1-2 in SN2018ZD (21) (1)	650 Secs (1300 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]



Proposal 17506 - SN2006BP (22) - Constraining the CSM Interaction Engine in Type II Supernovae

Wed Jun 12 14:01:52 GMT 2024

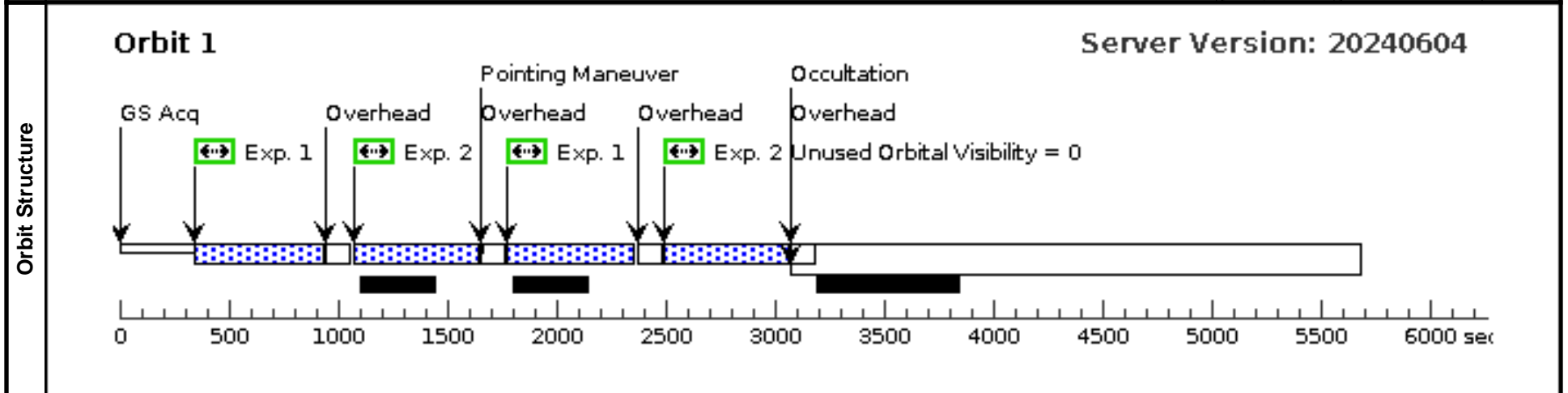
Visit	Proposal 17506, SN2006BP (22), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(22)	SN2006BP	RA: 11 53 55.7400 (178.4822500d) Dec: +52 21 9.40 (52.35261d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(22) SN2006BP	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2006BP (22) (1)	560 Secs (1120 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2		(22) SN2006BP	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2006BP (22) (1)	545 Secs (1090 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2021GMJ (23) - Constraining the CSM Interaction Engine in Type II Supernovae

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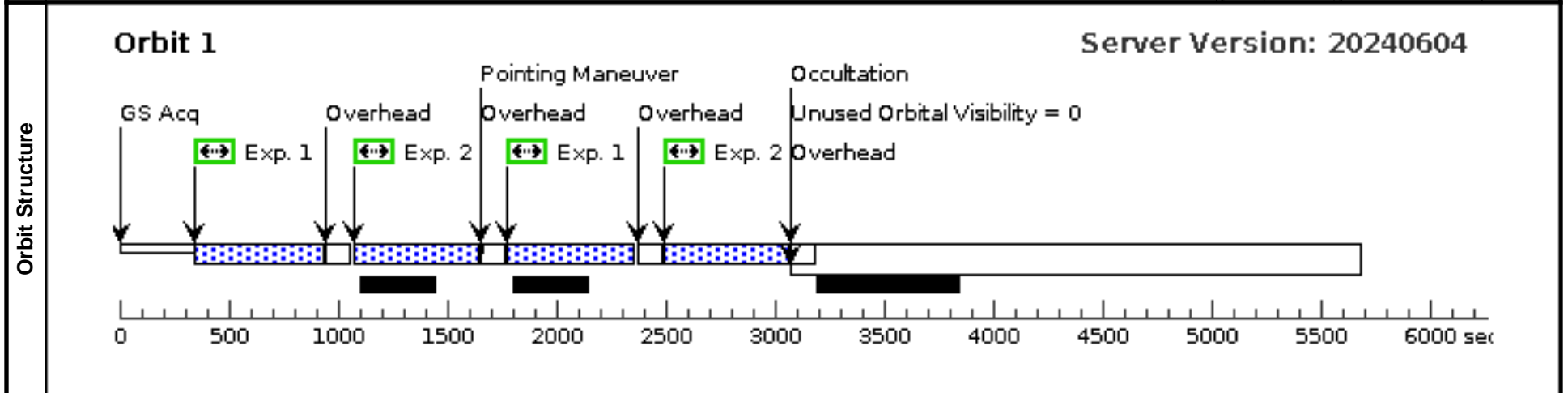
Visit	Proposal 17506, SN2021GMJ (23), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(23)	SN2021GMJ	RA: 10 38 47.2700 (159.6969583d) Dec: +53 30 30.31 (53.50842d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(23) SN2021GMJ	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2021GMJ (23) (1)	560 Secs (1120 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(23) SN2021GMJ	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2021GMJ (23) (1)	545 Secs (1090 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2018AOQ (24) - Constraining the CSM Interaction Engine in Type II Supernovae

Wed Jun 12 14:01:52 GMT 2024

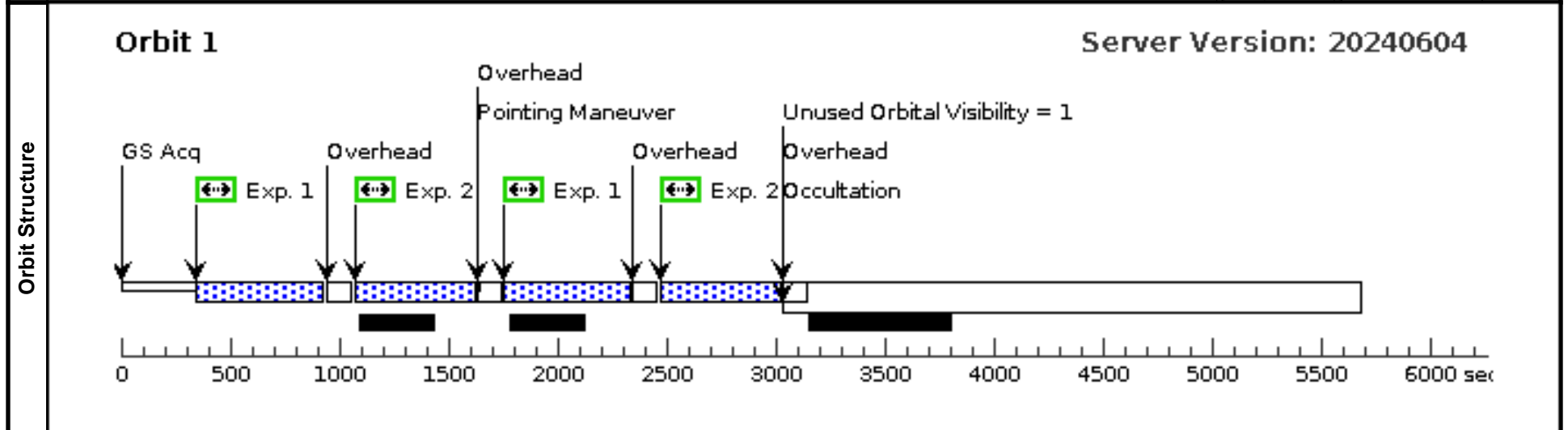
Visit	Proposal 17506, SN2018AOQ (24), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(24)	SN2018AOQ	RA: 12 10 38.1900 (182.6591250d) Dec: +39 23 47.00 (39.39639d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

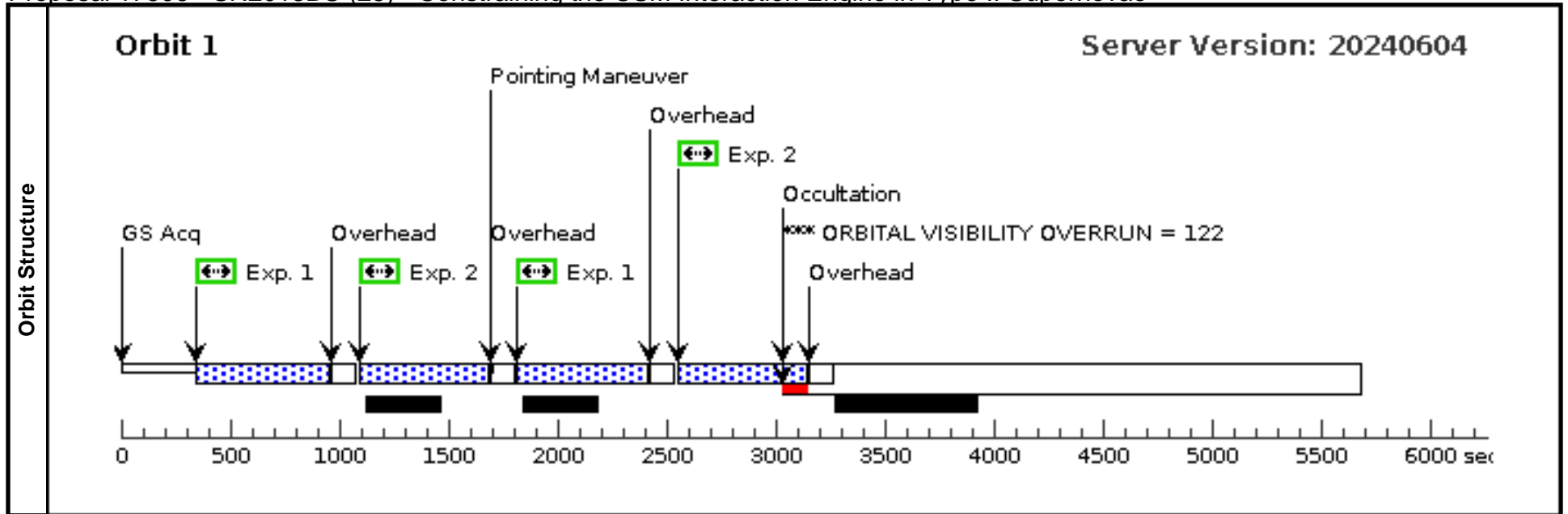
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(24) SN2018AOQ	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2018AOQ (24) (1)	555 Secs (1110 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2		(24) SN2018AOQ	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2018AOQ (24) (1)	530 Secs (1060 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2013BU (25) - Constraining the CSM Interaction Engine in Type II Supernovae

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Visit	Proposal 17506, SN2013BU (25), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2013BU (25)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
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)	SN2013BU	RA: 22 37 2.1700 (339.2590417d) Dec: +34 24 5.20 (34.40144d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(25) SN2013BU		WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2013BU (25) (1)	579 Secs (1158 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2	(25) SN2013BU		WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2013BU (25) (1)	565 Secs (1130 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2014G (26) - Constraining the CSM Interaction Engine in Type II Supernovae

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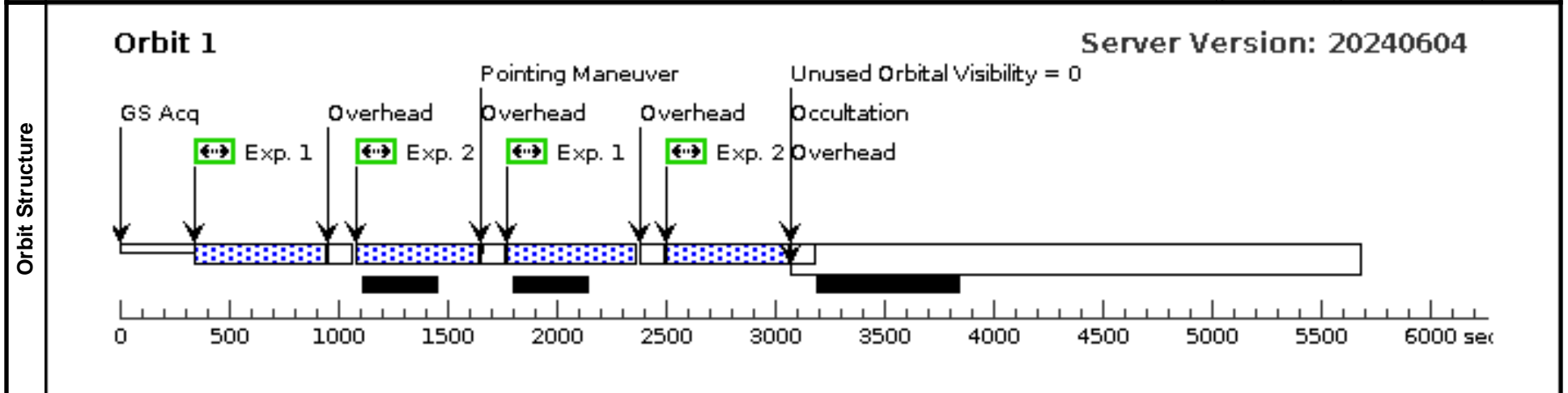
Visit	Proposal 17506, SN2014G (26), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(26)	SN2014G	RA: 10 54 34.1300 (163.6422083d) Dec: +54 17 56.90 (54.29914d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

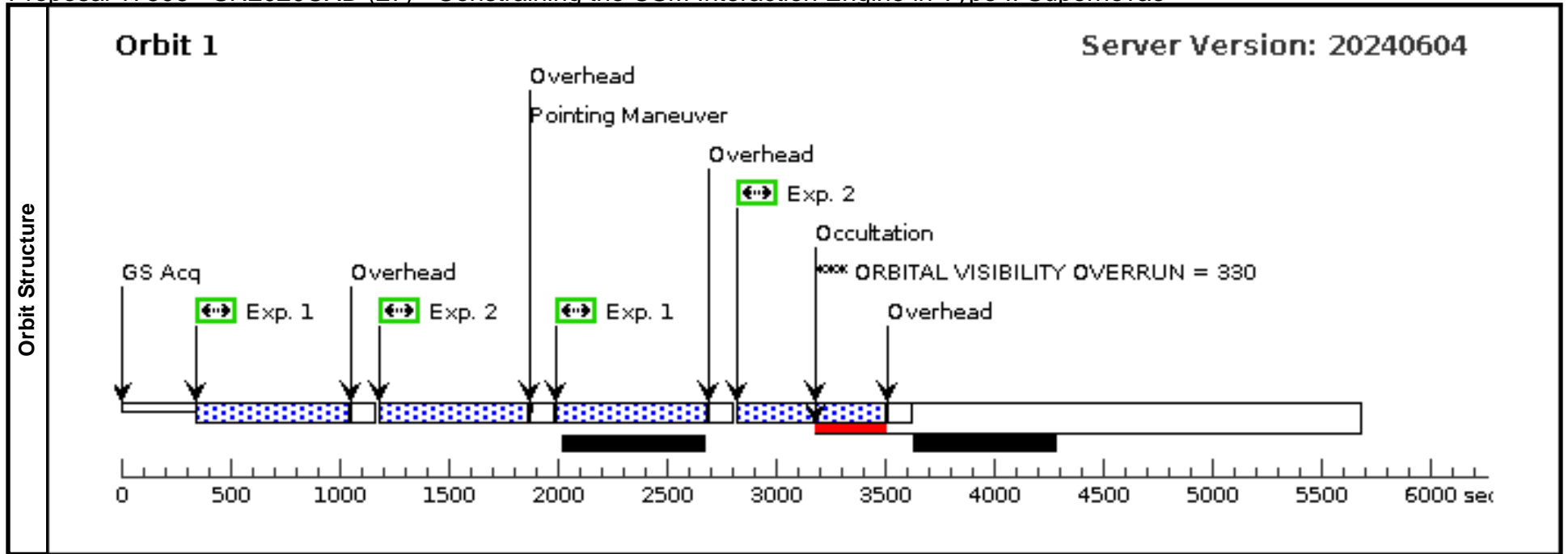
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1		(26) SN2014G	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2014G (26) (1)	570 Secs (1140 Secs)
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(26) SN2014G	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2014G (26) (1)	535 Secs (1070 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2020CXD (27) - Constraining the CSM Interaction Engine in Type II Supernovae

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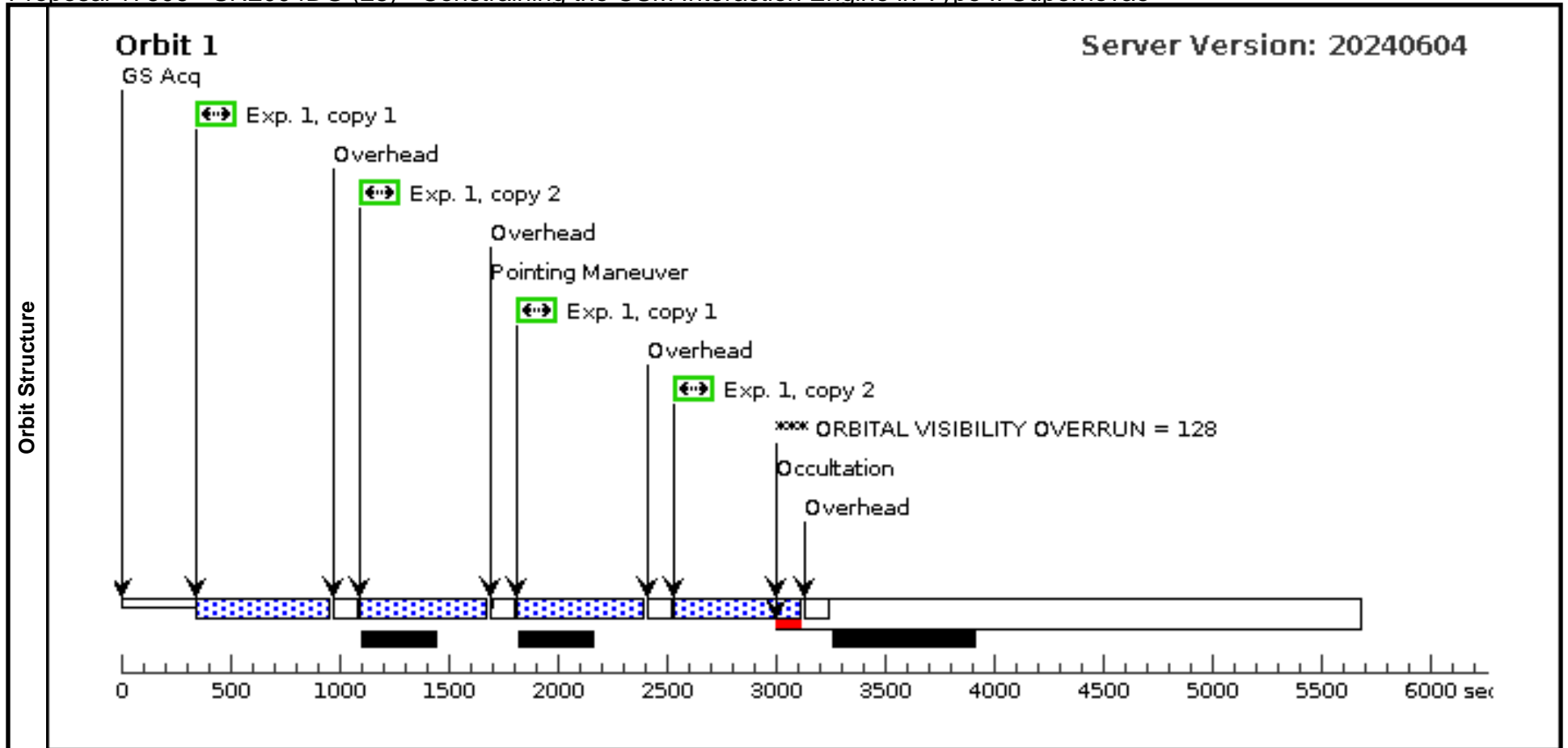
Visit	Proposal 17506, SN2020CXD (27), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2020CXD (27)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern		Secondary Pattern		Exposures				
	(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)	SN2020CXD	RA: 17 26 29.2600 (261.6219167d) Dec: +71 05 38.65 (71.09407d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(27) SN2020CXD	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 i n SN2020CXD (27) (1)	668 Secs (1336 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2		(27) SN2020CXD	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 i n SN2020CXD (27) (1)	655 Secs (1310 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2004DG (28) - Constraining the CSM Interaction Engine in Type II Supernovae

Wed Jun 12 14:01:52 GMT 2024

Visit	Proposal 17506, SN2004DG (28), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2004DG (28)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
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)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous				
	(28)	SN2004DG	RA: 14 59 58.9600 (224.9956667d) Dec: +01 53 25.60 (1.89044d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(28) SN2004DG	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-1 i n SN2004DG (28) (1)	582 Secs X 2 (2328 Secs) [==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)]	[1]



Proposal 17506 - SN2006OV (29) - Constraining the CSM Interaction Engine in Type II Supernovae

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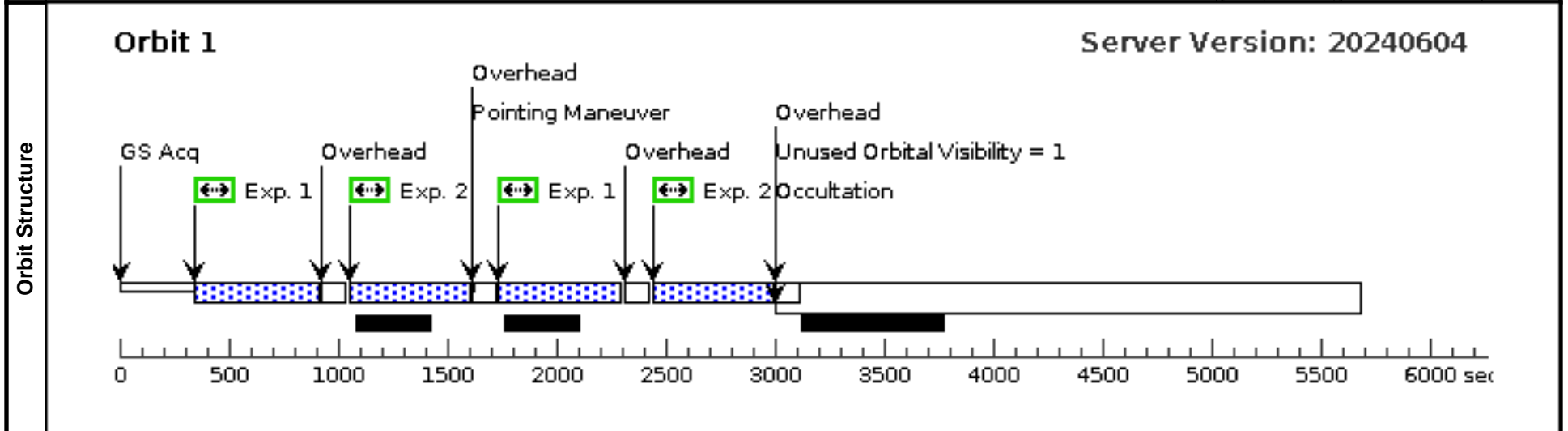
Visit	Proposal 17506, SN2006OV (29), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(29)	SN2006OV	RA: 12 21 55.3000 (185.4804167d) Dec: +04 29 16.70 (4.48797d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

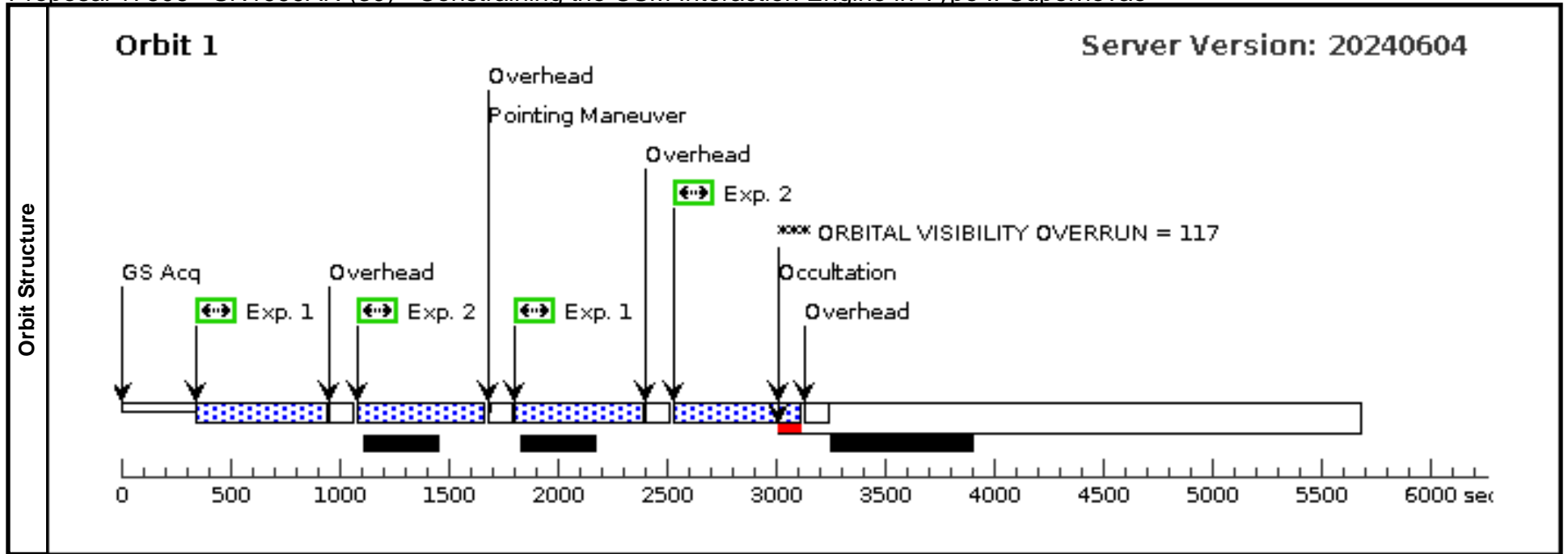
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
1		(29) SN2006OV	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2006OV (29) (1)	540 Secs (1080 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2		(29) SN2006OV	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2006OV (29) (1)	528 Secs (1056 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN1999AN (30) - Constraining the CSM Interaction Engine in Type II Supernovae

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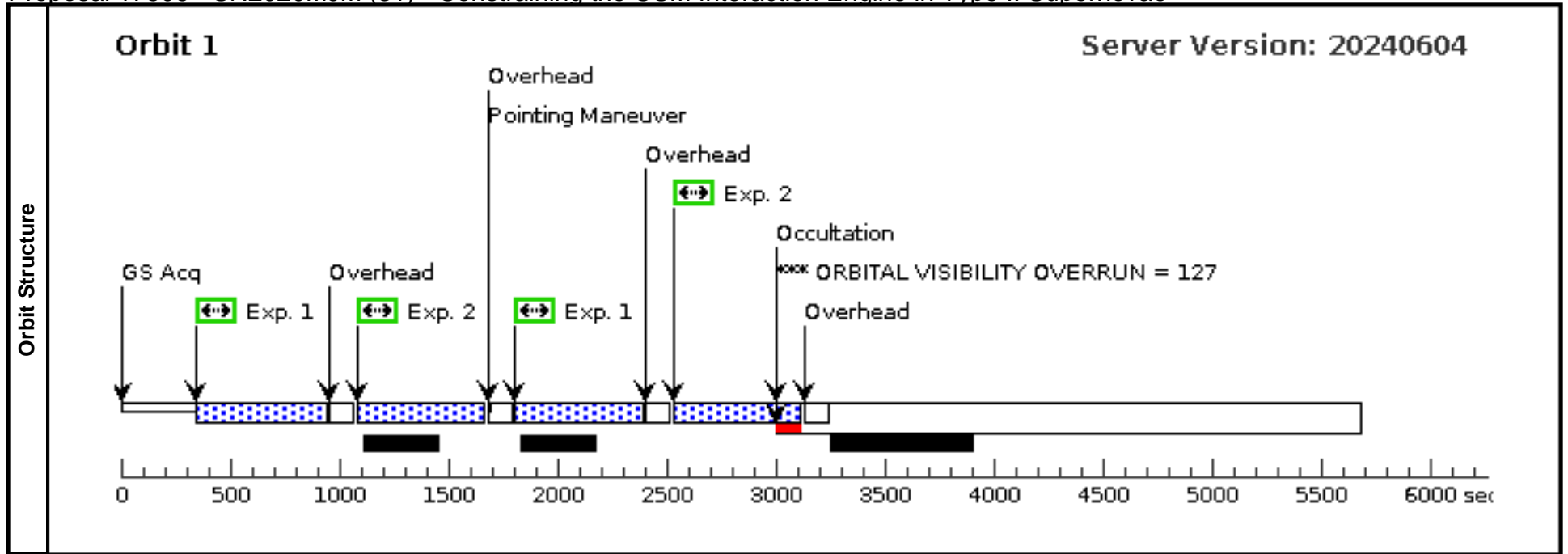
Visit	Proposal 17506, SN1999AN (30), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN1999AN (30)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
Patterns	#	Primary Pattern	Secondary Pattern	Exposures						
	(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)	SN1999AN	RA: 12 01 10.5700 (180.2940417d) Dec: +14 06 12.30 (14.10342d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(30) SN1999AN	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN1999AN (30) (1)	568 Secs (1136 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2		(30) SN1999AN	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN1999AN (30) (1)	564 Secs (1128 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2020MJM (31) - Constraining the CSM Interaction Engine in Type II Supernovae

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Visit	Proposal 17506, SN2020MJM (31), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2020MJM (31)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
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)	SN2020MJM	RA: 14 29 29.3300 (217.3722083d) Dec: -00 01 17.79 (-.02161d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(31) SN2020MJM		WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 i n SN2020MJM (31) (1)	568 Secs (1136 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2	(31) SN2020MJM		WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 i n SN2020MJM (31) (1)	564 Secs (1128 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2003HH (32) - Constraining the CSM Interaction Engine in Type II Supernovae

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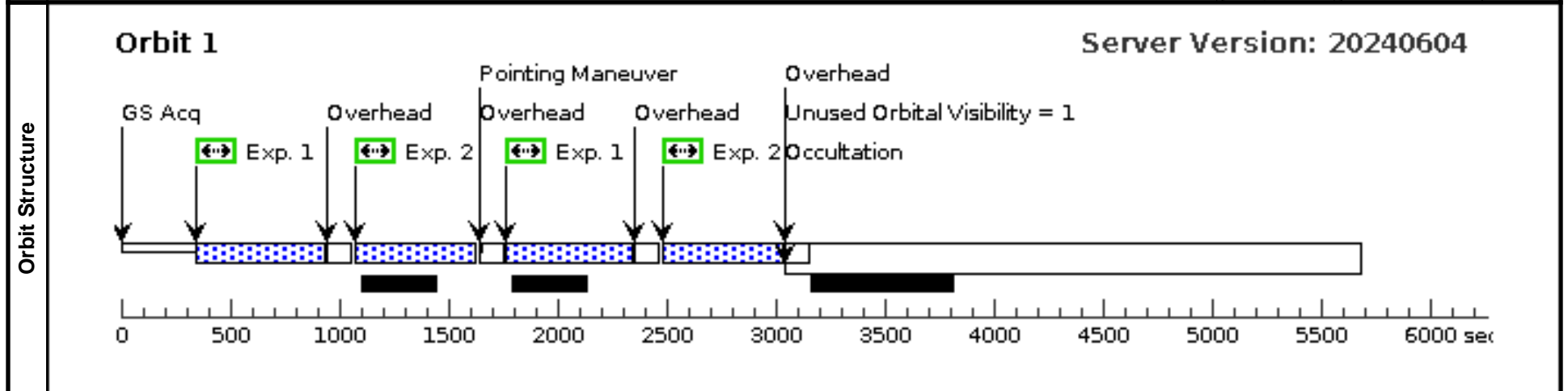
Visit	Proposal 17506, SN2003HH (32), pi		
	Diagnostic Status: No Diagnostics		
	Scientific Instruments: WFC3/UVIS		
	Special Requirements: (none)		

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	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(32)	SN2003HN	RA: 03 44 36.1000 (56.1504167d) Dec: -44 37 49.00 (-44.63028d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(32) SN2003HN	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20			Pattern 1, Exps 1-2 in SN2003HH (32) (1)	560 Secs (1120 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2	(32) SN2003HN	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5			Pattern 1, Exps 1-2 in SN2003HH (32) (1)	530 Secs (1060 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN1999GN (33) - Constraining the CSM Interaction Engine in Type II Supernovae

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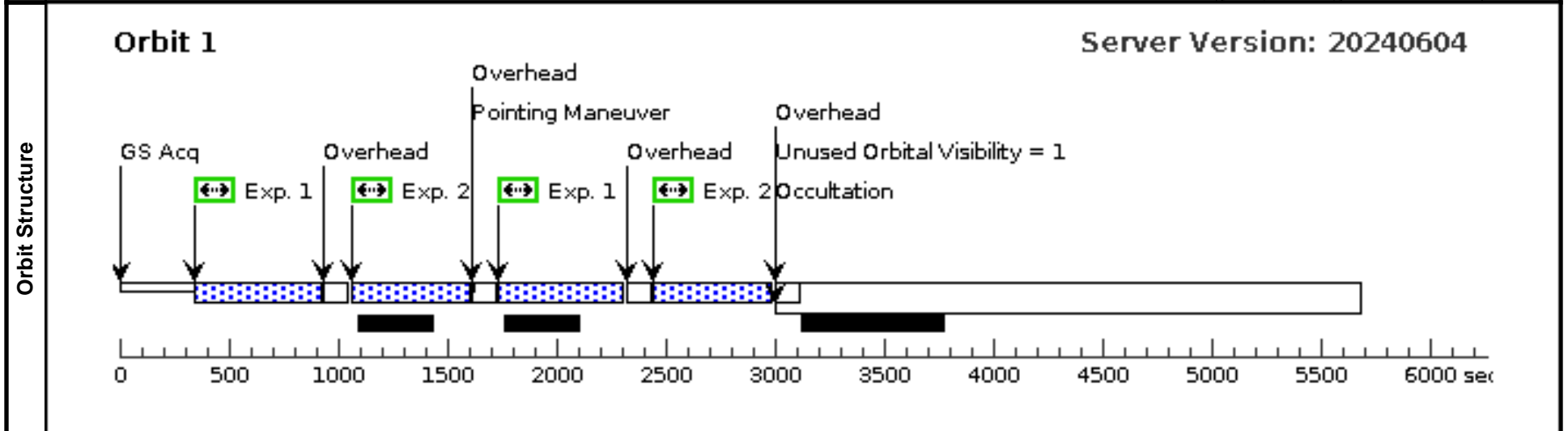
Visit	Proposal 17506, SN1999GN (33), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		

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	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(33)	SN1999GN	RA: 12 21 57.0400 (185.4876667d) Dec: +04 27 45.70 (4.46269d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(33) SN1999GN	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20			Pattern 1, Exps 1-2 in SN1999GN (33) (1)	548 Secs (1096 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]
2	(33) SN1999GN	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5			Pattern 1, Exps 1-2 in SN1999GN (33) (1)	520 Secs (1040 Secs) [==>(Pattern 1)] [==>(Pattern 2)]	[1]	



Proposal 17506 - SN2015AS (34) - Constraining the CSM Interaction Engine in Type II Supernovae

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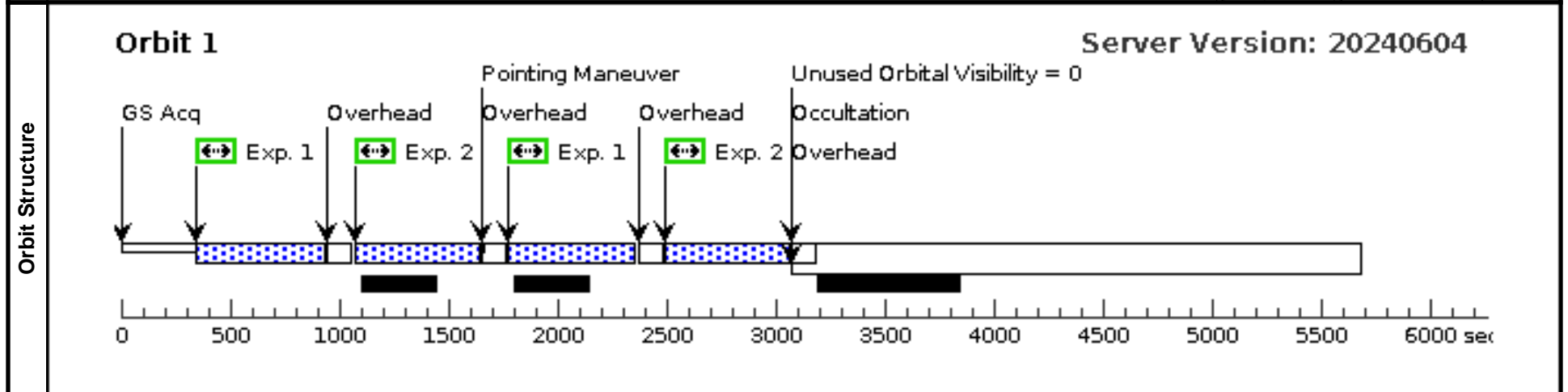
Visit	Proposal 17506, SN2015AS (34), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER 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
	(34)	SN2015AS	RA: 10 08 11.3700 (152.0473750d) Dec: +51 50 40.90 (51.84469d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
		1		(34) SN2015AS	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2015AS (34) (1)	560 Secs (1120 Secs) [=>(Pattern 1)] [=>(Pattern 2)]
2			(34) SN2015AS	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2015AS (34) (1)	545 Secs (1090 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2003B (35) - Constraining the CSM Interaction Engine in Type II Supernovae

Wed Jun 12 14:01:52 GMT 2024

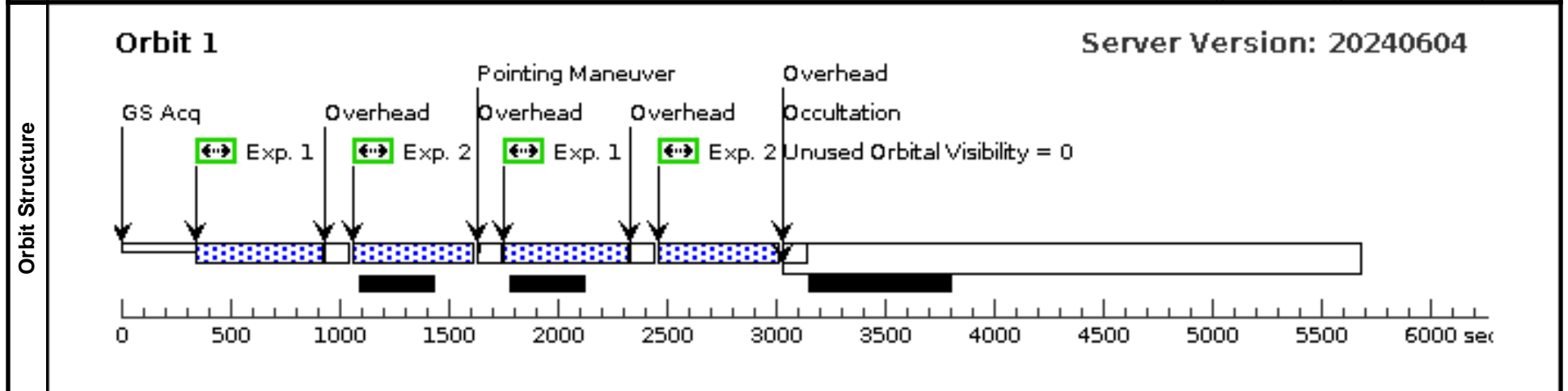
Visit	Proposal 17506, SN2003B (35), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		
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Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Purpose=DITHER Number Of Points=2 Point Spacing=0.145 Line Spacing=	Coordinate Frame=POS-TARG Pattern Orientation=46.84 Angle Between Sides= Center Pattern=false	

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(35)	SN2003B	RA: 02 46 13.7800 (41.5574167d) Dec: -30 13 45.10 (-30.22919d) Equinox: J2000		V=24	Reference Frame: SIMBAD

Comments:
 Category=EXT-STAR
 Description=[SUPERNOVA TYPE II]

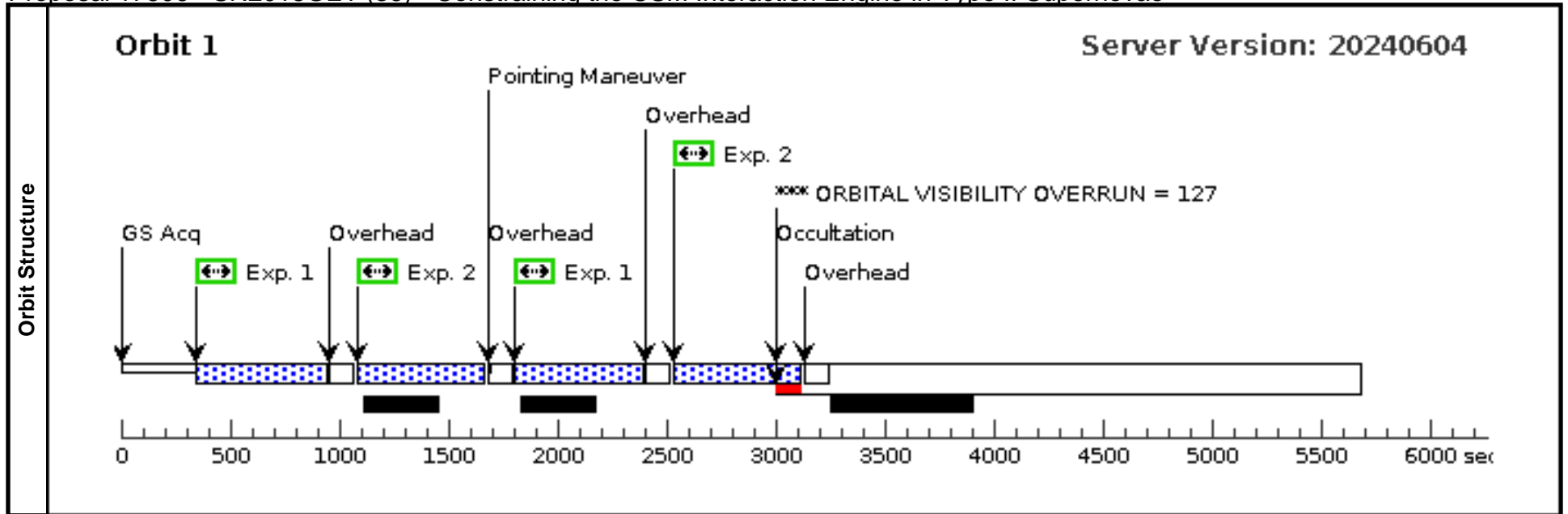
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(35) SN2003B	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20			Pattern 1, Exps 1-2 in SN2003B (35) (1)	550 Secs (1100 Secs)	[1]
2	(35) SN2003B	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5			Pattern 1, Exps 1-2 in SN2003B (35) (1)	533 Secs (1066 Secs)	[1]	



Proposal 17506 - SN2018GET (36) - Constraining the CSM Interaction Engine in Type II Supernovae

Wed Jun 12 14:01:52 GMT 2024

Visit	Proposal 17506, SN2018GET (36), completed Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
	(SN2018GET (36)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN									
Diagnosics										
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)	SN2018GET	RA: 07 34 9.0700 (113.5377917d) Dec: +04 32 57.91 (4.54942d) Equinox: J2000		V=24	Reference Frame: SIMBAD				
Comments: Category=EXT-STAR Description=[SUPERNOVA TYPE II]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(36) SN2018GET	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20			Pattern 1, Exps 1-2 in SN2018GET (36) (1)	568 Secs (1136 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
2	(36) SN2018GET	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5			Pattern 1, Exps 1-2 in SN2018GET (36) (1)	564 Secs (1128 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]	



Proposal 17506 - SN2003Z (37) - Constraining the CSM Interaction Engine in Type II Supernovae

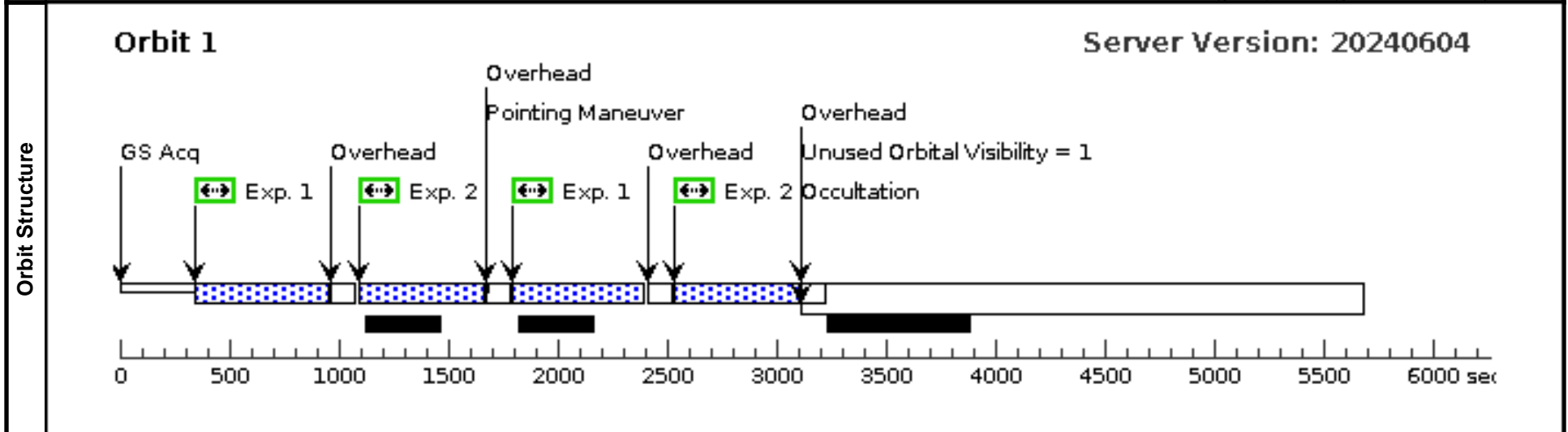
Wed Jun 12 14:01:52 GMT 2024

Visit	Proposal 17506, SN2003Z (37), pi Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/UVIS Special Requirements: (none)		

Patterns	#	Primary Pattern	Secondary Pattern	Exposures
	(1)	Pattern Type=WFC3-UVIS-DITHER-LINE Coordinate Frame=POS-TARG Pattern Orientation=46.84 Purpose=DITHER Angle Between Sides= Number Of Points=2 Center Pattern=false Point Spacing=0.145 Line Spacing=		(1-2)

Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(37)	SN2003Z	RA: 09 07 32.4600 (136.8852500d) Dec: +60 29 17.50 (60.48819d) Equinox: J2000		V=24	Reference Frame: SIMBAD
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE II]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(37) SN2003Z	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2003Z (37) (1)	580 Secs (1160 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(37) SN2003Z	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2003Z (37) (1)	545 Secs (1090 Secs)	
									[=>(Pattern 1)] [=>(Pattern 2)]	[1]



Proposal 17506 - SN2022ACKO (38) - Constraining the CSM Interaction Engine in Type II Supernovae

Wed Jun 12 14:01:52 GMT 2024

Visit	Proposal 17506, SN2022ACKO (38), pi 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
	(38)	SN2022ACKO	RA: 03 19 38.9900 (49.9124583d) Dec: -19 23 42.73 (-19.39520d) Equinox: J2000		V=24	Reference Frame: SIMBAD
	<i>Comments:</i> Category=EXT-STAR Description=[SUPERNOVA TYPE II]					

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(38) SN2022ACKO	WFC3/UVIS, ACCUM, UVIS	F275W	FLASH=20		Pattern 1, Exps 1-2 in SN2022ACKO (38) (1)	550 Secs (1100 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]
	2		(38) SN2022ACKO	WFC3/UVIS, ACCUM, UVIS	F555W	FLASH=5		Pattern 1, Exps 1-2 in SN2022ACKO (38) (1)	527 Secs (1054 Secs) [=>(Pattern 1)] [=>(Pattern 2)]	[1]

