



18377 - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Roman

Cycle: 34, Proposal Category: GO

(Hubble-Roman Science (HRS))

(Availability Mode: SUPPORTED)

INVESTIGATORS

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Proposal 18377 (STScI Edit Number: 1, Created: Wednesday, August 19, 2026, 3:00:31PM Eastern Standard Time) - Overview

Name	Institution
Dr. Peter M. Garnavich (CoI)	University of Notre Dame
Dr. Steve Rodney (CoI)	University of South Carolina
Dr. Renee Hlozek (CoI) (CSA Member)	University of Toronto
Mr. Tanmay Raswant (CoI)	University of Illinois at Urbana - Champaign
Dr. Peter J. Brown (CoI)	Texas A & M University
Dr. Ori Dosovitz Fox (CoI)	Space Telescope Science Institute
Prof. Or Graur (CoI) (ESA Member)	University of Portsmouth
Dr. Louis-Gregory Strolger (CoI)	Space Telescope Science Institute
Dr. Russell E. Ryan Jr. (CoI)	Space Telescope Science Institute
Dr. Patrick Kelly (CoI)	University of Minnesota - Twin Cities
Dr. Stephen Thorp (CoI) (ESA Member)	University of Cambridge, Kavli Institute for Cosmology

VISITS

Visit	Targets used in Visit	Configurations used in Visit	Orbits Used	Last Orbit Planner Run	OP Current with Visit?
01	(1) SN2020ACZG	WFC3/IR	1	19-Aug-2026 16:00:19.0	yes
02	(2) SN2020BPI	WFC3/IR	1	19-Aug-2026 16:00:20.0	yes
03	(3) SN2020DHJ	WFC3/IR	1	19-Aug-2026 16:00:21.0	yes
04	(4) SN2020EES	WFC3/IR	1	19-Aug-2026 16:00:22.0	yes
05	(5) SN2020LIL	WFC3/IR	1	19-Aug-2026 16:00:23.0	yes
06	(6) SN2020UXZ	WFC3/IR	1	19-Aug-2026 16:00:23.0	yes
07	(7) SN2020PST	WFC3/IR	1	19-Aug-2026 16:00:25.0	yes
08	(8) SN2020QIC	WFC3/IR	1	19-Aug-2026 16:00:25.0	yes
09	(9) SN2021HPR	WFC3/IR	1	19-Aug-2026 16:00:26.0	yes
10	(10) SN2020SZR	WFC3/IR	1	19-Aug-2026 16:00:27.0	yes
11	(11) SN2021GHC	WFC3/IR	1	19-Aug-2026 16:00:28.0	yes
12	(12) SN2021IHZ	WFC3/IR	1	19-Aug-2026 16:00:29.0	yes
13	(13) SN2021IOV	WFC3/IR	1	19-Aug-2026 16:00:30.0	yes
14	(14) SN2021MIM	WFC3/IR	1	19-Aug-2026 16:00:31.0	yes

14 Total Orbits Used

ABSTRACT

Type Ia supernovae (SNe Ia) observed in the near-infrared (NIR) are nearly standard candles with substantially reduced sensitivity to dust extinction relative to the optical, making space-based NIR photometry a powerful tool for precision cosmology. HST-GO-15889/16234 (SIRAH) delivered the first large, well-calibrated Hubble-flow ($0.02 < z < 0.075$) SN Ia sample with continuous WFC3/IR photometry and 32 NIR grism spectra, achieving an RMS of 0.080 mag in the F160W Hubble diagram. However, 14 of these SNe Ia are in complex host environments while lacking template imaging. This contamination masquerades as intrinsic SN Ia scatter on the Hubble diagram, preventing a clean measurement of the true NIR dispersion. The same effect also contaminates the 32 WFC3/IR grism spectra, where host continuum dispersed along the SN trace cannot be removed without direct imaging templates. We therefore request 14 orbits of WFC3/IR imaging in F105W, F125W, and F160W of these host-galaxy fields after the SNe have faded. The requested depths achieve $S/N \geq 10$ in a 0.20" aperture, limiting template noise to < 0.01 mag. These observations will deliver host-subtracted photometry for the complete NIR Hubble diagram, clean grism spectrophotometry for accurate SED and explosion modeling, and the well-calibrated low-redshift NIR anchor required by the Roman SN-PIT pipeline. All data will be released immediately through MAST under the Hubble-Roman Science initiative.

OBSERVING DESCRIPTION

(A) Description of Observations

We will obtain WFC3/IR host-galaxy template imaging of 14 SIRAH fields (HST-GO-15889/16234) in F105W, F125W, and F160W, one orbit per field. Each field is imaged at a late epoch (> 365 days past peak), when the supernova has faded, to provide clean templates for difference imaging against the earlier SIRAH science-epoch frames. Exposures reach $SNR > 10$ on the template, keeping its photometric noise contribution to < 0.011 mag.

(B) Special Requirements: ORIENT

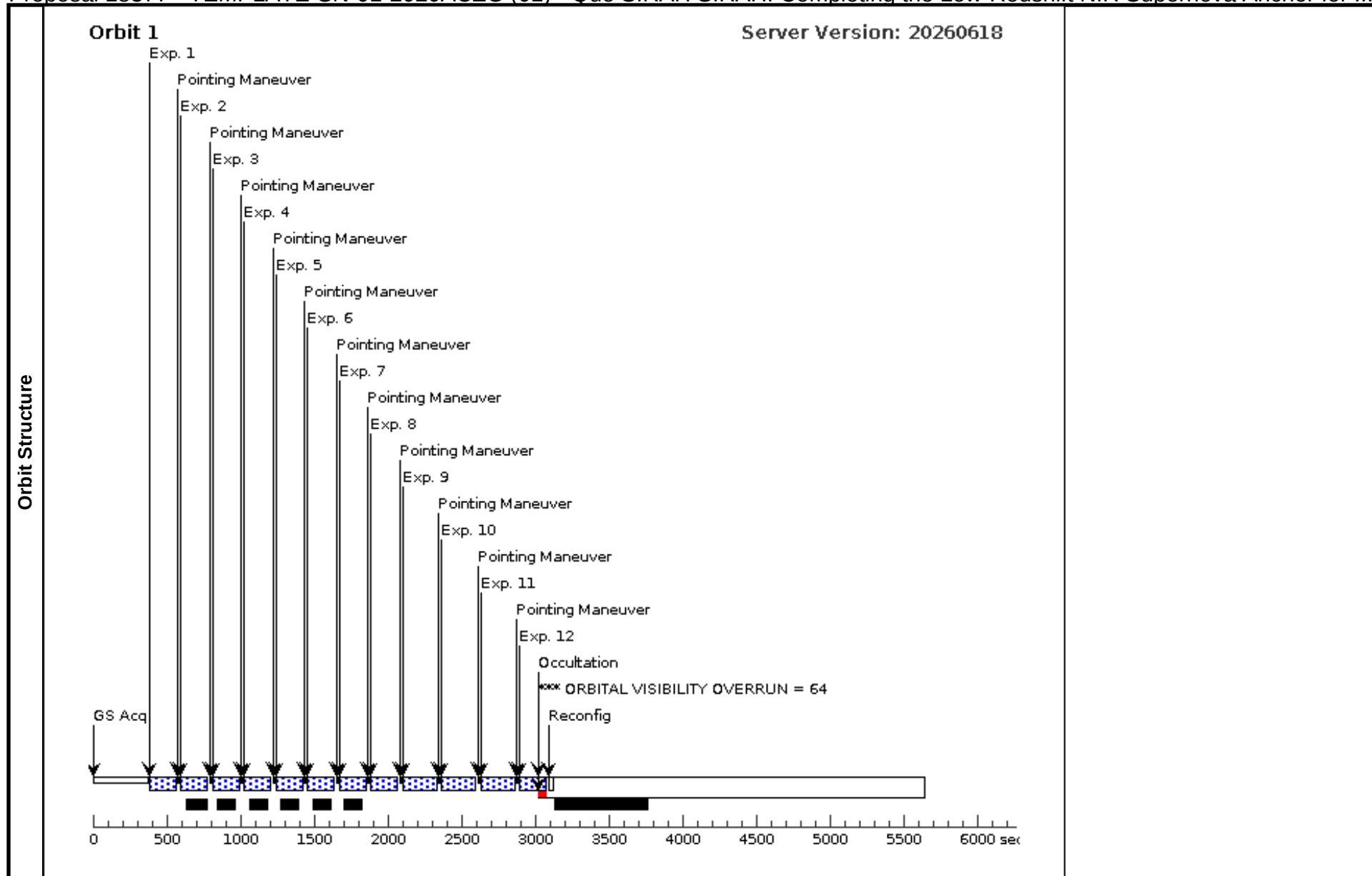
We request an ORIENT tolerance window of ± 5 deg on each field, centered on the position angle of its original SIRAH science-epoch observations. Matching the roll angle between epochs minimizes difference-imaging residuals from PSF variation, geometric distortion, and intra-pixel sensitivity; ± 5 deg is narrow enough to keep these within the template noise budget while preserving schedulability. The central angles are set per field from the archived science-epoch position angles.

Proposal 18377 - TEMPLATE-SN-01-2020ACZG (01) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for ...

Visit	Proposal 18377, TEMPLATE-SN-01-2020ACZG (01), implementation Wed Aug 19 20:00:31 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 231.6D TO 241.6 D				
Diagnostics	(TEMPLATE-SN-01-2020ACZG (01)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(1)	SN2020ACZG	RA: 10 01 6.6800 (150.2778333d) Dec: +54 47 22.30 (54.78953d) Equinox: J2000		V=22.42+/-0.11
Fixed Targets	Comments: Category=GALAXY Description=[SPIRAL] Extended=YES				
	Miscellaneous Reference Frame: ICRS				

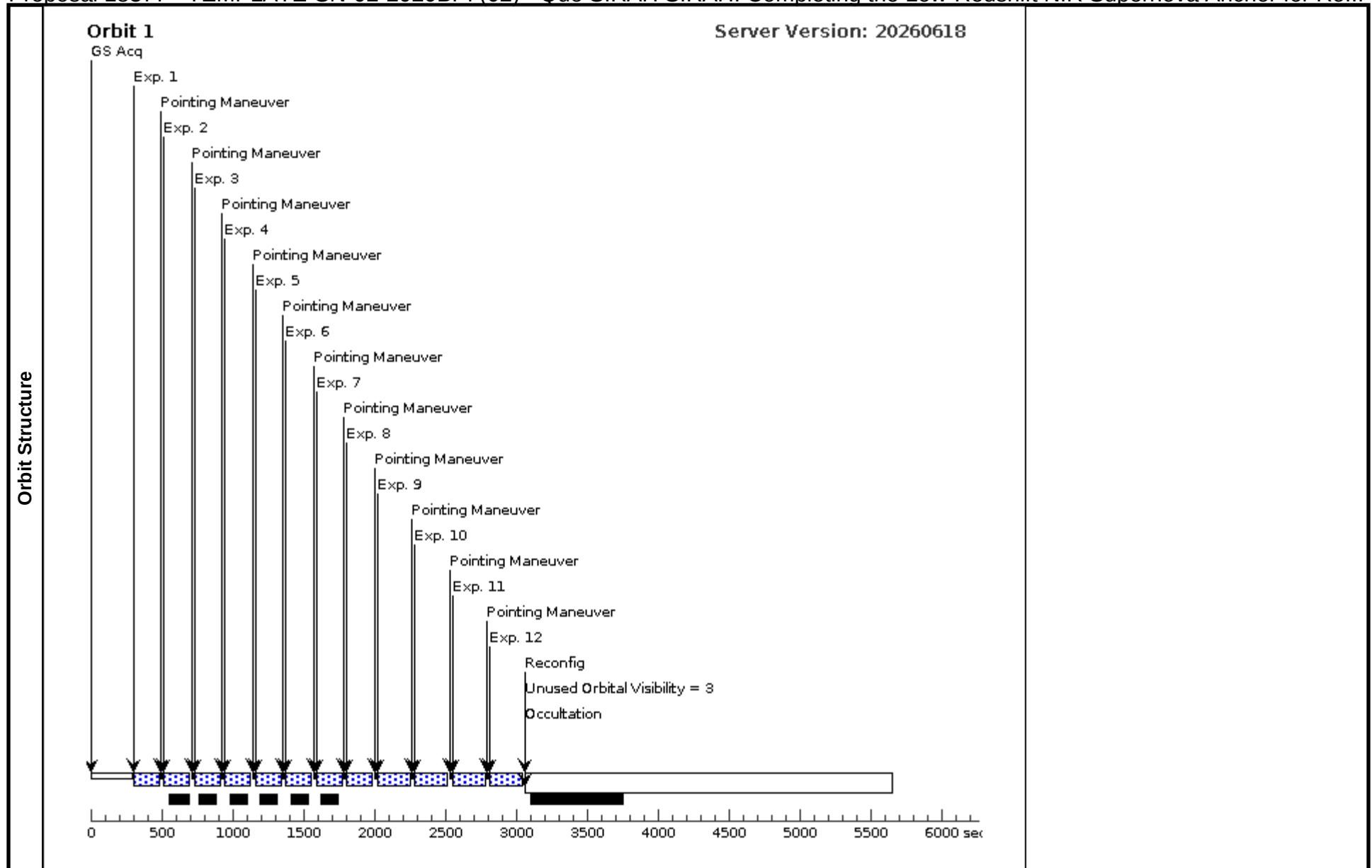
Proposal 18377 - TEMPLATE-SN-01-2020ACZG (01) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for ...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(1) SN2020ACZG	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.00,0.0 0; GS ACQ SCENARI O BASE103		152.933644 Secs (152.934 Secs) [==>]	[1]
	2		(1) SN2020ACZG	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182		152.933644 Secs (152.934 Secs) [==>]	[1]
	3		(1) SN2020ACZG	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485		152.933644 Secs (152.934 Secs) [==>]	[1]
	4		(1) SN2020ACZG	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303		152.933644 Secs (152.934 Secs) [==>]	[1]
	5		(1) SN2020ACZG	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=4; SAMP-SEQ=SPAR S50	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	[1]
	6		(1) SN2020ACZG	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=4; SAMP-SEQ=SPAR S50	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	[1]
	7		(1) SN2020ACZG	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=4; SAMP-SEQ=SPAR S50	SAME POS AS 3		152.933644 Secs (152.934 Secs) [==>]	[1]
	8		(1) SN2020ACZG	WFC3/IR, MULTIACCUM, GRISM1024	F125W	NSAMP=4; SAMP-SEQ=SPAR S50	SAME POS AS 4		152.933644 Secs (152.934 Secs) [==>]	[1]
	9		(1) SN2020ACZG	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	SAME POS AS 1		202.934095 Secs (202.934 Secs) [==>]	[1]
	10		(1) SN2020ACZG	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	SAME POS AS 2		202.934095 Secs (202.934 Secs) [==>]	[1]
	11		(1) SN2020ACZG	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=5; SAMP-SEQ=SPAR S50	SAME POS AS 3		202.934095 Secs (202.934 Secs) [==>]	[1]
	12		(1) SN2020ACZG	WFC3/IR, MULTIACCUM, GRISM1024	F160W	NSAMP=4; SAMP-SEQ=SPAR S50	SAME POS AS 4		152.933644 Secs (152.934 Secs) [==>]	[1]



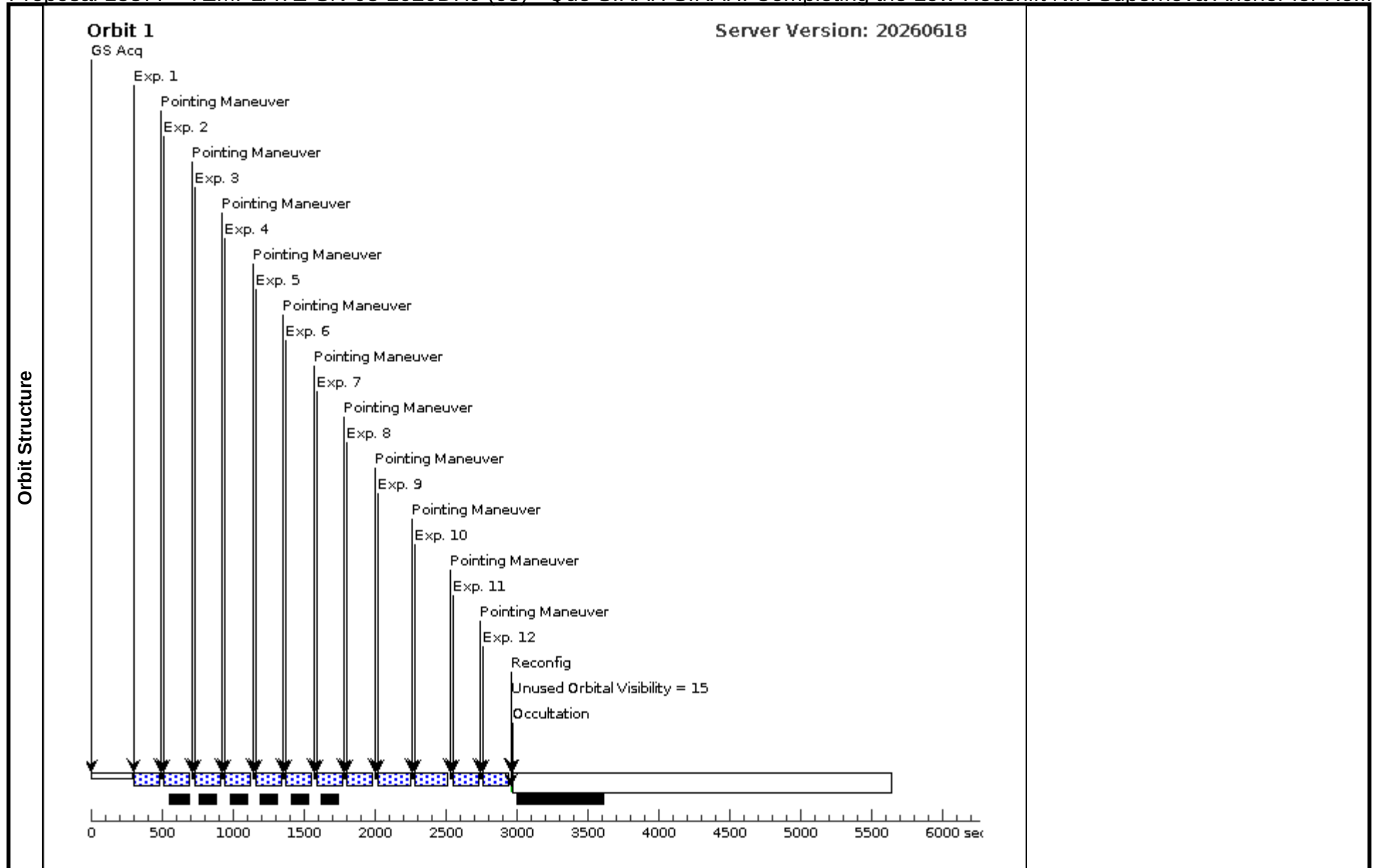
Proposal 18377 - TEMPLATE-SN-02-2020BPI (02) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Ro...

Visit	Proposal 18377, TEMPLATE-SN-02-2020BPI (02), implementation										Wed Aug 19 20:00:31 GMT 2026
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/IR										
	Special Requirements: ORIENT 250D TO 260 D										
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(2)	SN2020BPI	RA: 13 23 29.0200 (200.8709167d) Dec: +62 26 46.40 (62.44622d) Equinox: J2000				V=20.52+/-0.1		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[DISK] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(2) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.00,0.0		152.933644 Secs (152.934 Secs) [==>]		[1]
	2		(2) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182		152.933644 Secs (152.934 Secs) [==>]		[1]
	3		(2) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485		152.933644 Secs (152.934 Secs) [==>]		[1]
	4		(2) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303		152.933644 Secs (152.934 Secs) [==>]		[1]
	5		(2) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]		[1]
	6		(2) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]		[1]
	7		(2) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 3		152.933644 Secs (152.934 Secs) [==>]		[1]
	8		(2) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 4		152.933644 Secs (152.934 Secs) [==>]		[1]
	9		(2) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 1		202.934095 Secs (202.934 Secs) [==>]		[1]
	10		(2) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 2		202.934095 Secs (202.934 Secs) [==>]		[1]
	11		(2) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 3		202.934095 Secs (202.934 Secs) [==>]		[1]
	12		(2) SN2020BPI	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 4		202.934095 Secs (202.934 Secs) [==>]		[1]



Proposal 18377 - TEMPLATE-SN-03-2020DHJ (03) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Ro...

Visit	Proposal 18377, TEMPLATE-SN-03-2020DHJ (03), implementation									Wed Aug 19 20:00:31 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: ORIENT 247.7D TO 257.7 D									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(3)	SN2020DHJ	RA: 14 53 30.3800 (223.3765833d) Dec: +17 17 20.90 (17.28914d) Equinox: J2000			V=20.56+/-0.1		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(3)	SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 9		152.933644 Secs (152.934 Secs) [==>]	[1]
	2	(3)	SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 10		152.933644 Secs (152.934 Secs) [==>]	[1]
	3	(3)	SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 11		152.933644 Secs (152.934 Secs) [==>]	[1]
	4	(3)	SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 12		152.933644 Secs (152.934 Secs) [==>]	[1]
	5	(3)	SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 9		152.933644 Secs (152.934 Secs) [==>]	[1]
	6	(3)	SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 10		152.933644 Secs (152.934 Secs) [==>]	[1]
	7	(3)	SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 11		152.933644 Secs (152.934 Secs) [==>]	[1]
	8	(3)	SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 12		152.933644 Secs (152.934 Secs) [==>]	[1]
	9	(3)	SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	POS TARG 0.00,0.0 0		202.934095 Secs (202.934 Secs) [==>]	[1]
	10	(3)	SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	POS TARG 0.542,0. 182		202.934095 Secs (202.934 Secs) [==>]	[1]
	11	(3)	SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0. 485		152.933644 Secs (152.934 Secs) [==>]	[1]
	12	(3)	SN2020DHJ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0 .303		152.933644 Secs (152.934 Secs) [==>]	[1]

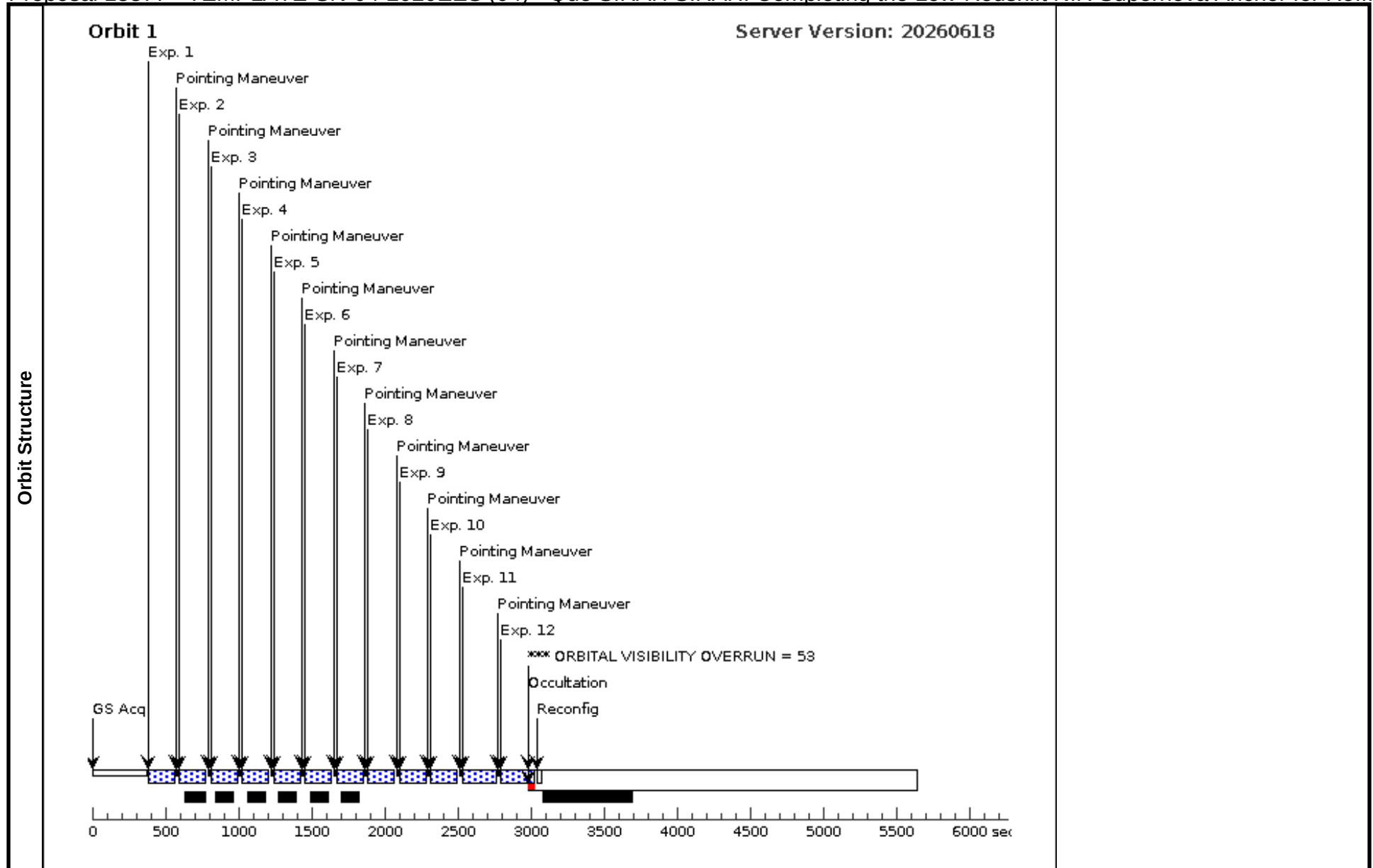


Proposal 18377 - TEMPLATE-SN-04-2020EES (04) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Ro...

Visit	Proposal 18377, TEMPLATE-SN-04-2020EES (04), implementation Wed Aug 19 20:00:32 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 190.4D TO 220.4 D				
Diagnostics	(TEMPLATE-SN-04-2020EES (04)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(4)	SN2020EES	RA: 13 27 15.1900 (201.8132917d) Dec: +32 02 1.00 (32.03361d) Equinox: J2000		V=18.74+/-0.1
Fixed Targets	Miscellaneous Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[SPIRAL] Extended=YES				

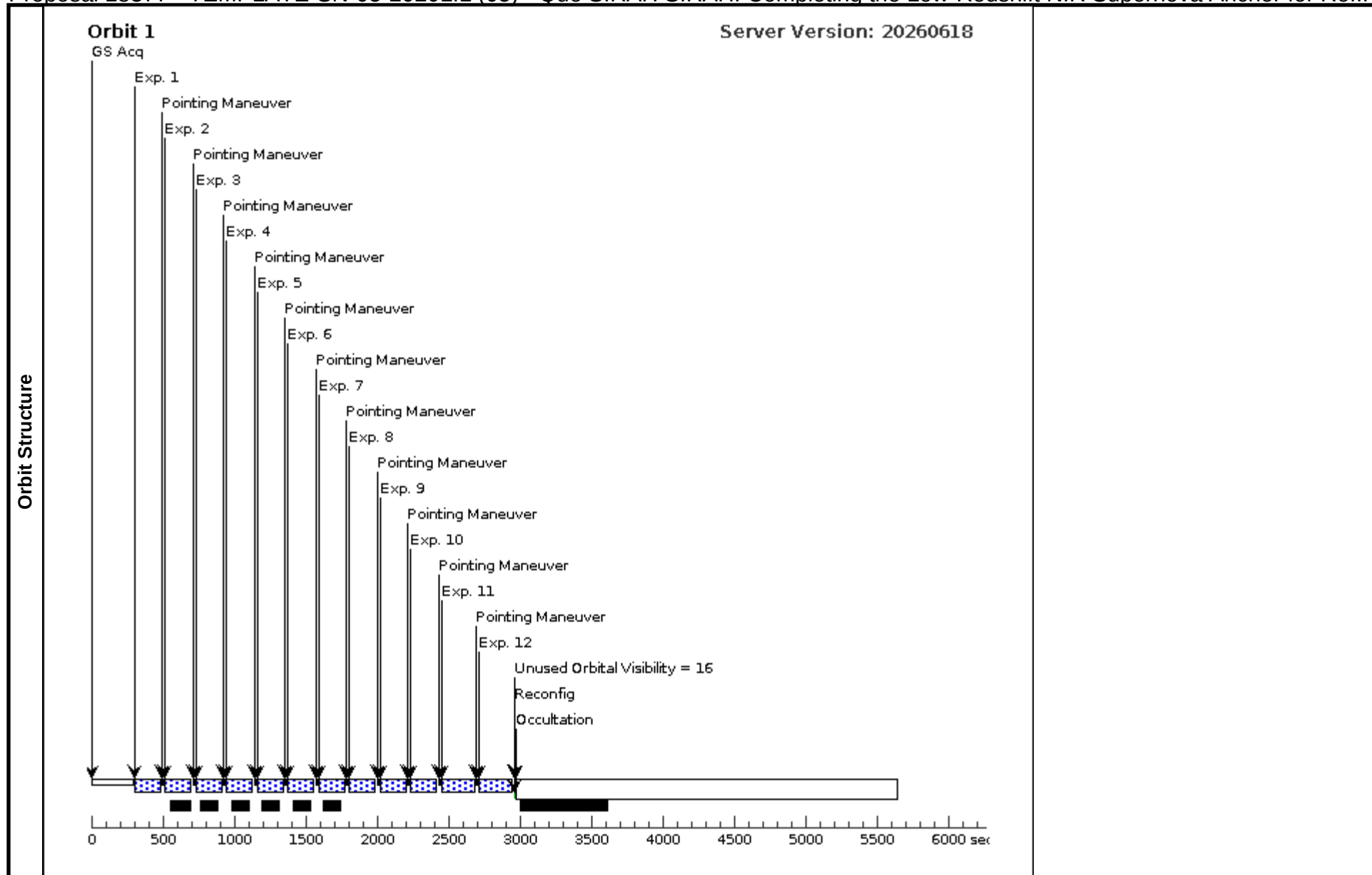
Proposal 18377 - TEMPLATE-SN-04-2020EES (04) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Ro...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(4) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.00,0.0 0; GS ACQ SCENARI O BASE103		152.933644 Secs (152.934 Secs) [==>]	[1]
	2		(4) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182		152.933644 Secs (152.934 Secs) [==>]	[1]
	3		(4) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485		152.933644 Secs (152.934 Secs) [==>]	[1]
	4		(4) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303		152.933644 Secs (152.934 Secs) [==>]	[1]
	5		(4) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	[1]
	6		(4) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	[1]
	7		(4) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 3		152.933644 Secs (152.934 Secs) [==>]	[1]
	8		(4) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 4		152.933644 Secs (152.934 Secs) [==>]	[1]
	9		(4) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	[1]
	10		(4) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	[1]
	11		(4) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 3		202.934095 Secs (202.934 Secs) [==>]	[1]
	12		(4) SN2020EES	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 4		202.934095 Secs (202.934 Secs) [==>]	[1]



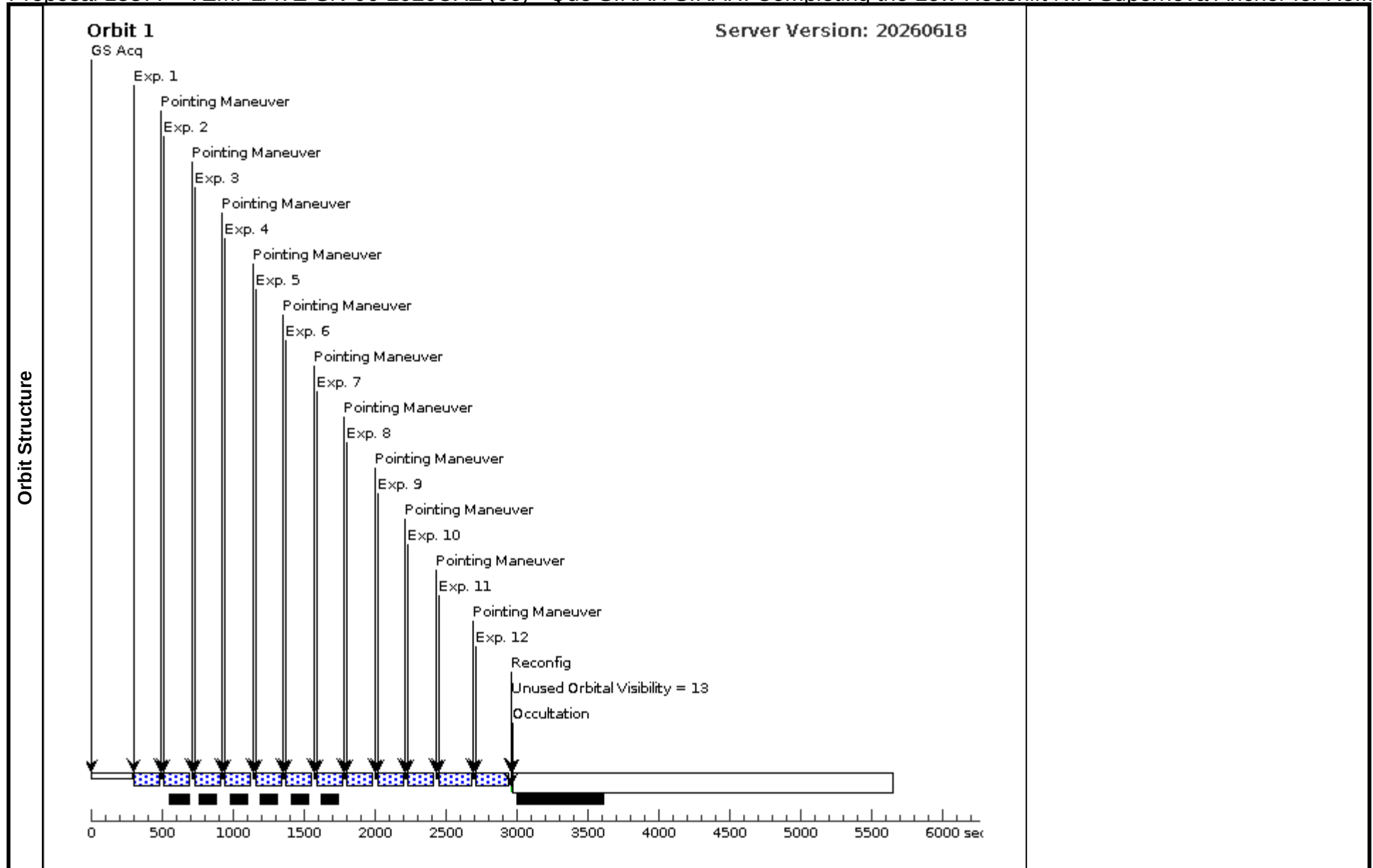
Proposal 18377 - TEMPLATE-SN-05-2020LIL (05) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Ro...

Visit	Proposal 18377, TEMPLATE-SN-05-2020LIL (05), implementation										Wed Aug 19 20:00:32 GMT 2026	
	Diagnostic Status: No Diagnostics											
	Scientific Instruments: WFC3/IR											
	Special Requirements: ORIENT 287.8D TO 297.8 D											
Fixed Targets	#	Name	Target Coordinates		Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(5)	SN2020LIL	RA: 14 37 59.6600 (219.4985833d) Dec: +09 23 18.70 (9.38853d) Equinox: J2000				V=18.33+/-0.1		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[SPIRAL] Extended=YES											
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit	
	1	(5) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.00,0.0 0			152.933644 Secs (152.934 Secs) [==>]		[1]	
	2	(5) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182			152.933644 Secs (152.934 Secs) [==>]		[1]	
	3	(5) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485			152.933644 Secs (152.934 Secs) [==>]		[1]	
	4	(5) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303			152.933644 Secs (152.934 Secs) [==>]		[1]	
	5	(5) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1			152.933644 Secs (152.934 Secs) [==>]		[1]	
	6	(5) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2			152.933644 Secs (152.934 Secs) [==>]		[1]	
	7	(5) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 3			152.933644 Secs (152.934 Secs) [==>]		[1]	
	8	(5) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 4			152.933644 Secs (152.934 Secs) [==>]		[1]	
	9	(5) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1			152.933644 Secs (152.934 Secs) [==>]		[1]	
	10	(5) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2			152.933644 Secs (152.934 Secs) [==>]		[1]	
	11	(5) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 3			202.934095 Secs (202.934 Secs) [==>]		[1]	
	12	(5) SN2020LIL	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 4			202.934095 Secs (202.934 Secs) [==>]		[1]	



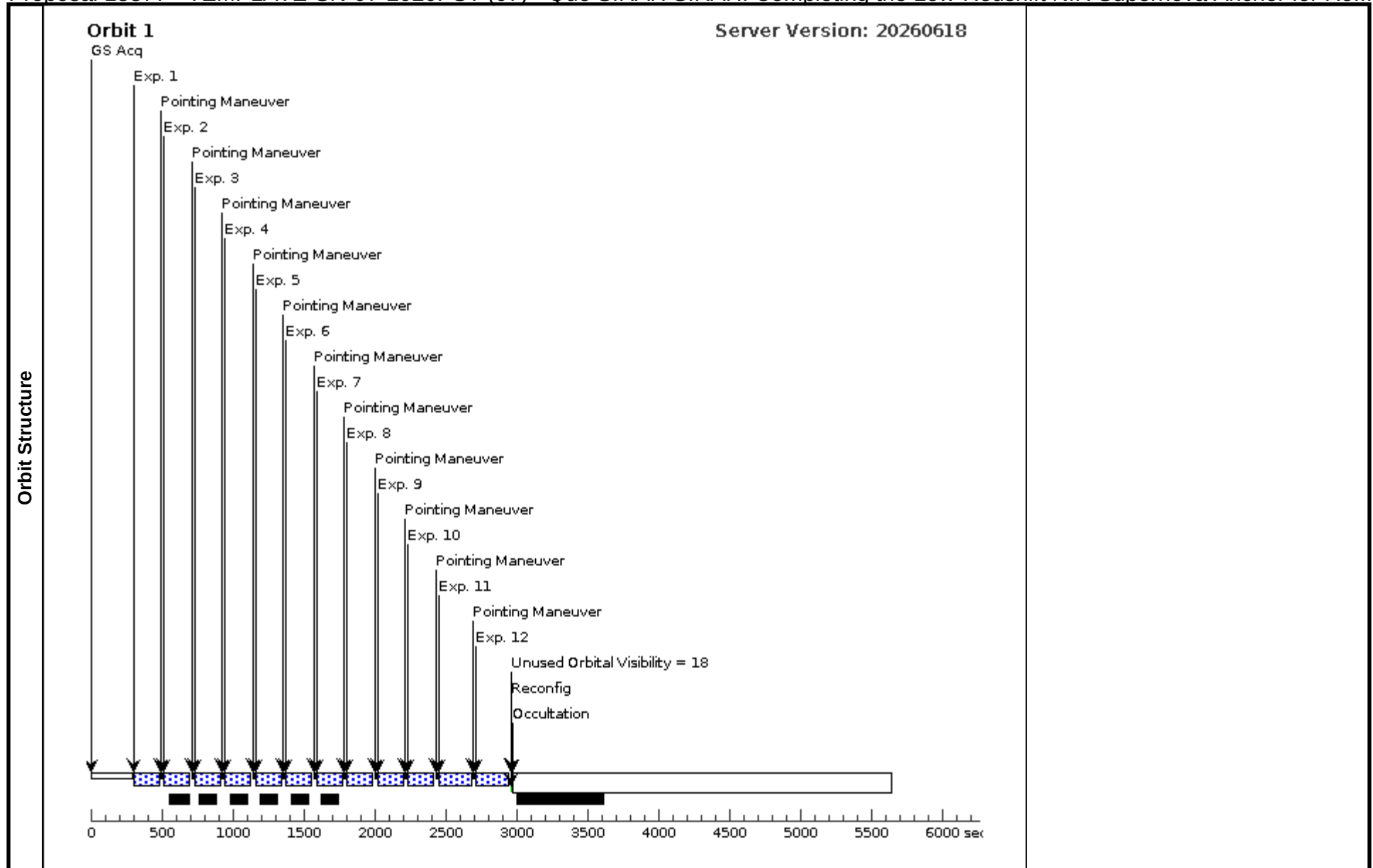
Proposal 18377 - TEMPLATE-SN-06-2020UXZ (06) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Ro...

Visit	Proposal 18377, TEMPLATE-SN-06-2020UXZ (06), implementation									Wed Aug 19 20:00:32 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: ORIENT 165.2D TO 215.2 D									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(6)	SN2020UXZ	RA: 01 24 7.6704 (21.0319600d) Dec: +12 55 37.29 (12.92702d) Equinox: J2000			V=17.15+/-0.1		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(6)	SN2020UXZ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.00,0.0 0		152.933644 Secs (152.934 Secs) [==>]	[1]
	2	(6)	SN2020UXZ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182		152.933644 Secs (152.934 Secs) [==>]	[1]
	3	(6)	SN2020UXZ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485		152.933644 Secs (152.934 Secs) [==>]	[1]
	4	(6)	SN2020UXZ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303		152.933644 Secs (152.934 Secs) [==>]	[1]
	5	(6)	SN2020UXZ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	[1]
	6	(6)	SN2020UXZ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	[1]
	7	(6)	SN2020UXZ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 3		152.933644 Secs (152.934 Secs) [==>]	[1]
	8	(6)	SN2020UXZ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 4		152.933644 Secs (152.934 Secs) [==>]	[1]
	9	(6)	SN2020UXZ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	[1]
	10	(6)	SN2020UXZ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	[1]
	11	(6)	SN2020UXZ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 3		202.934095 Secs (202.934 Secs) [==>]	[1]
	12	(6)	SN2020UXZ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 4		202.934095 Secs (202.934 Secs) [==>]	[1]



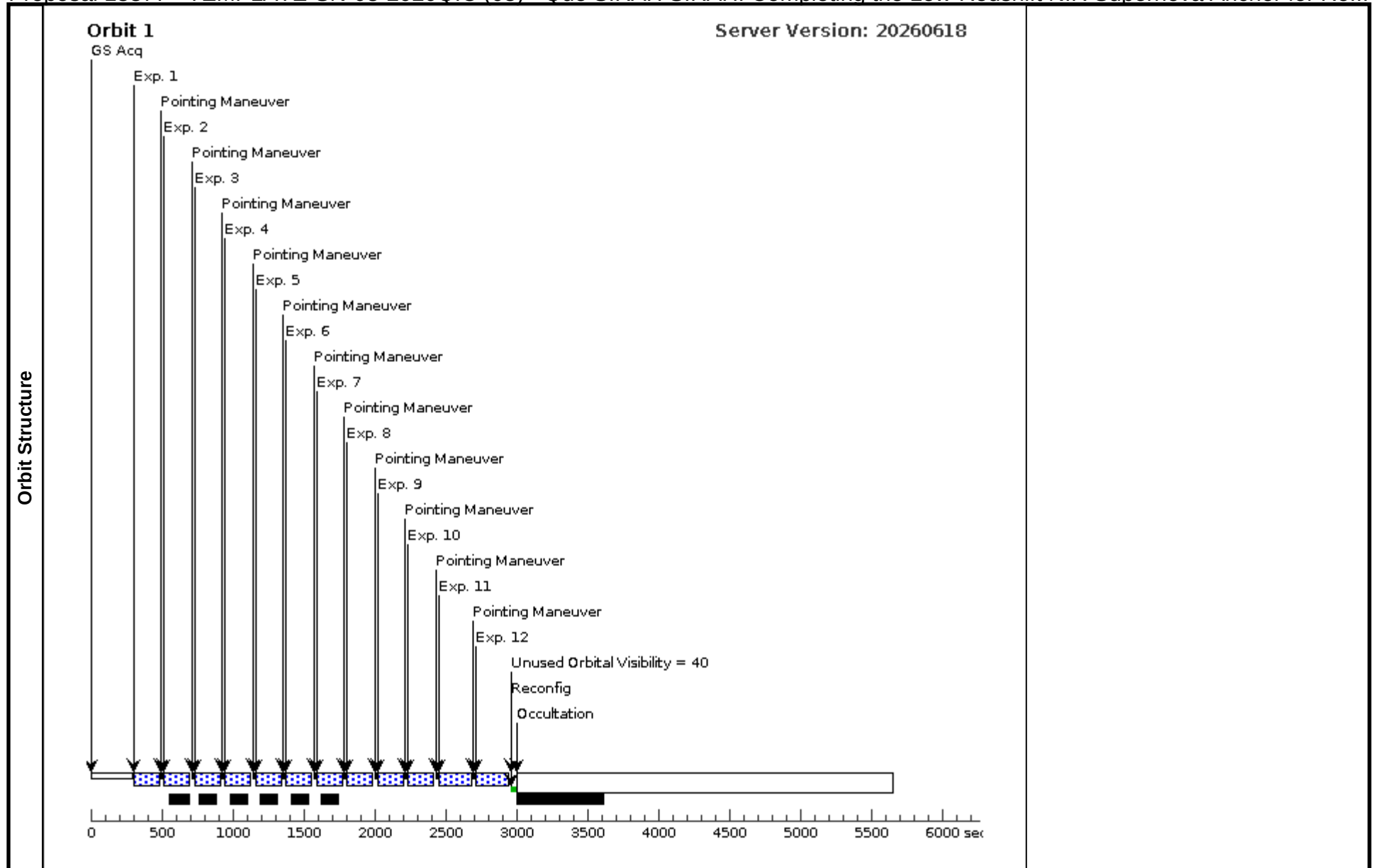
Proposal 18377 - TEMPLATE-SN-07-2020PST (07) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Ro...

Visit	Proposal 18377, TEMPLATE-SN-07-2020PST (07), implementation									Wed Aug 19 20:00:32 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: ORIENT 250D TO 260 D									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(7)	SN2020PST	RA: 01 13 12.0400 (18.3001667d) Dec: +02 17 1.80 (2.28383d) Equinox: J2000			V=20.73+/-0.1		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(7) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.00,0.0		152.933644 Secs (152.934 Secs) [==>]	 [1]
	2		(7) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182		152.933644 Secs (152.934 Secs) [==>]	 [1]
	3		(7) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485		152.933644 Secs (152.934 Secs) [==>]	 [1]
	4		(7) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303		152.933644 Secs (152.934 Secs) [==>]	 [1]
	5		(7) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	 [1]
	6		(7) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	 [1]
	7		(7) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 3		152.933644 Secs (152.934 Secs) [==>]	 [1]
	8		(7) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 4		152.933644 Secs (152.934 Secs) [==>]	 [1]
	9		(7) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	 [1]
	10		(7) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	 [1]
	11		(7) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 3		202.934095 Secs (202.934 Secs) [==>]	 [1]
	12		(7) SN2020PST	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 4		202.934095 Secs (202.934 Secs) [==>]	 [1]



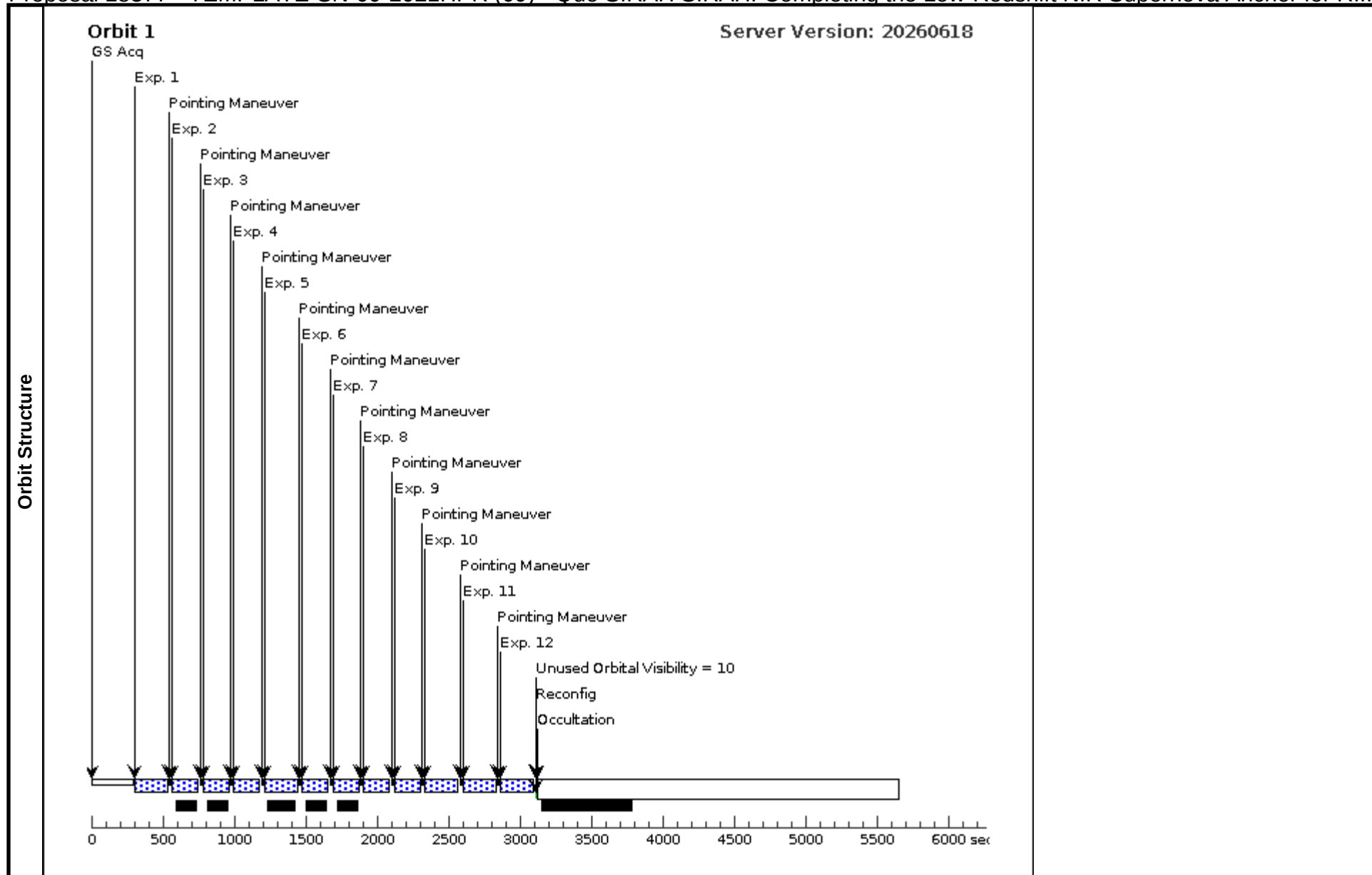
Proposal 18377 - TEMPLATE-SN-08-2020QIC (08) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Ro...

Visit	Proposal 18377, TEMPLATE-SN-08-2020QIC (08), implementation								Wed Aug 19 20:00:32 GMT 2026	
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: ORIENT 213.9D TO 223.9 D									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(8)	SN2020QIC	RA: 00 15 5.6000 (3.7733333d) Dec: +43 20 35.80 (43.34328d) Equinox: J2000			V=22.51+/-0.1		Reference Frame: ICRS		
Comments: Category=GALAXY Description=[SPIRAL] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(8) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.00,0.0 0			152.933644 Secs (152.934 Secs) [==>]	[1]
	2	(8) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182			152.933644 Secs (152.934 Secs) [==>]	[1]
	3	(8) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485			152.933644 Secs (152.934 Secs) [==>]	[1]
	4	(8) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303			152.933644 Secs (152.934 Secs) [==>]	[1]
	5	(8) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1			152.933644 Secs (152.934 Secs) [==>]	[1]
	6	(8) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2			152.933644 Secs (152.934 Secs) [==>]	[1]
	7	(8) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 3			152.933644 Secs (152.934 Secs) [==>]	[1]
	8	(8) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 4			152.933644 Secs (152.934 Secs) [==>]	[1]
	9	(8) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1			152.933644 Secs (152.934 Secs) [==>]	[1]
	10	(8) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2			152.933644 Secs (152.934 Secs) [==>]	[1]
	11	(8) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 3			202.934095 Secs (202.934 Secs) [==>]	[1]
	12	(8) SN2020QIC	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 4			202.934095 Secs (202.934 Secs) [==>]	[1]



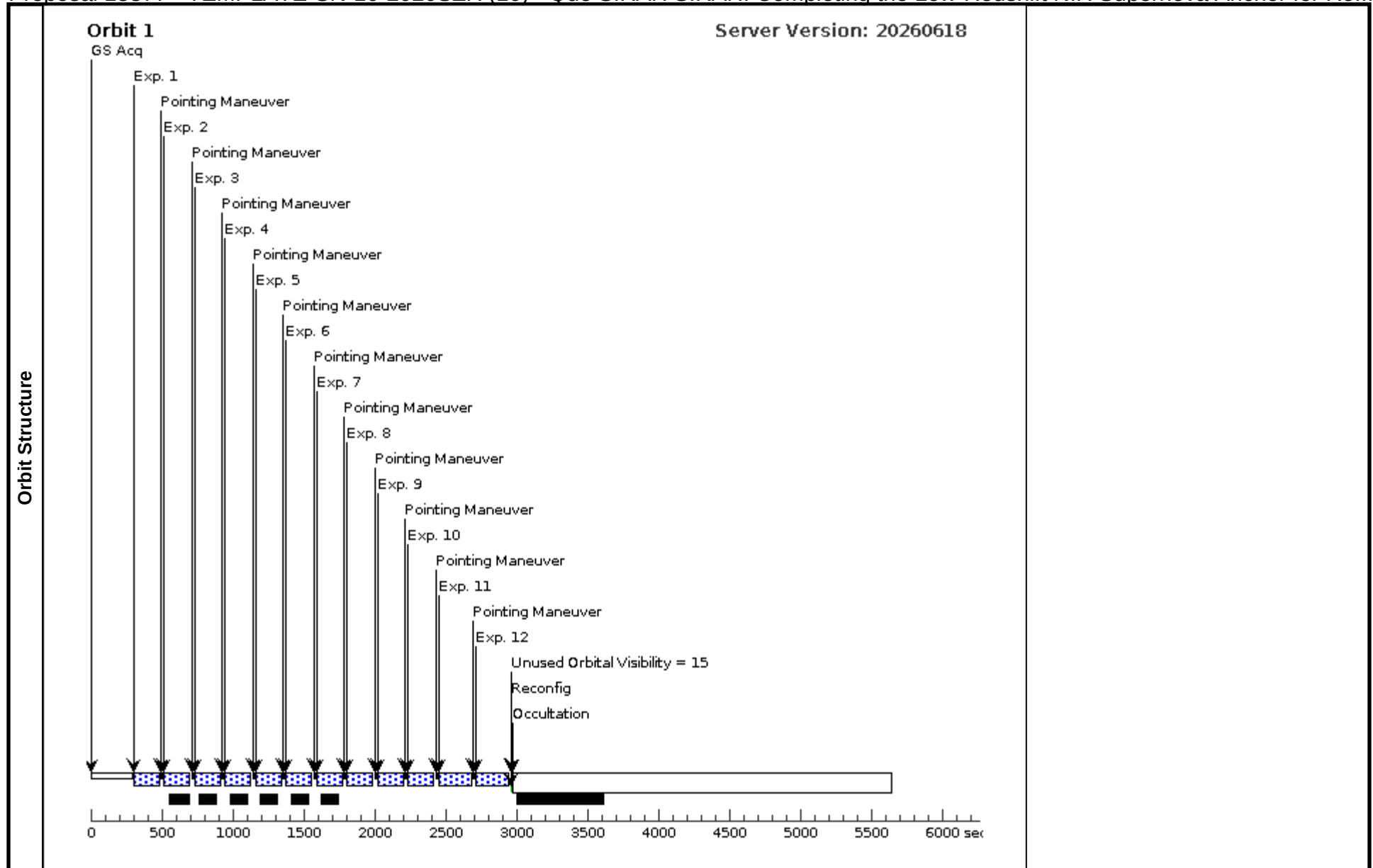
Proposal 18377 - TEMPLATE-SN-09-2021HPR (09) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for R...

Visit	Proposal 18377, TEMPLATE-SN-09-2021HPR (09), implementation								Wed Aug 19 20:00:32 GMT 2026	
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: ORIENT 117.9D TO 127.9 D									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(9)	SN2021HPR	RA: 10 16 33.5197 (154.1396654d) Dec: +73 24 8.35 (73.40232d) Equinox: J2000			V=17.21+/-0.1		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[ELLIPTICAL] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	(9) SN2021HPR		WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=5	POS TARG 0.00,0.0 0		202.934095 Secs (202.934 Secs) [==>]	[1]
	2	(9) SN2021HPR		WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182		152.933644 Secs (152.934 Secs) [==>]	[1]
	3	(9) SN2021HPR		WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485		152.933644 Secs (152.934 Secs) [==>]	[1]
	4	(9) SN2021HPR		WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303		152.933644 Secs (152.934 Secs) [==>]	[1]
	5	(9) SN2021HPR		WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 1		202.934095 Secs (202.934 Secs) [==>]	[1]
	6	(9) SN2021HPR		WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	[1]
	7	(9) SN2021HPR		WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 3		152.933644 Secs (152.934 Secs) [==>]	[1]
	8	(9) SN2021HPR		WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 4		152.933644 Secs (152.934 Secs) [==>]	[1]
	9	(9) SN2021HPR		WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	[1]
	10	(9) SN2021HPR		WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 2		202.934095 Secs (202.934 Secs) [==>]	[1]
	11	(9) SN2021HPR		WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 3		202.934095 Secs (202.934 Secs) [==>]	[1]
	12	(9) SN2021HPR		WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 4		202.934095 Secs (202.934 Secs) [==>]	[1]



Proposal 18377 - TEMPLATE-SN-10-2020SZR (10) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Ro...

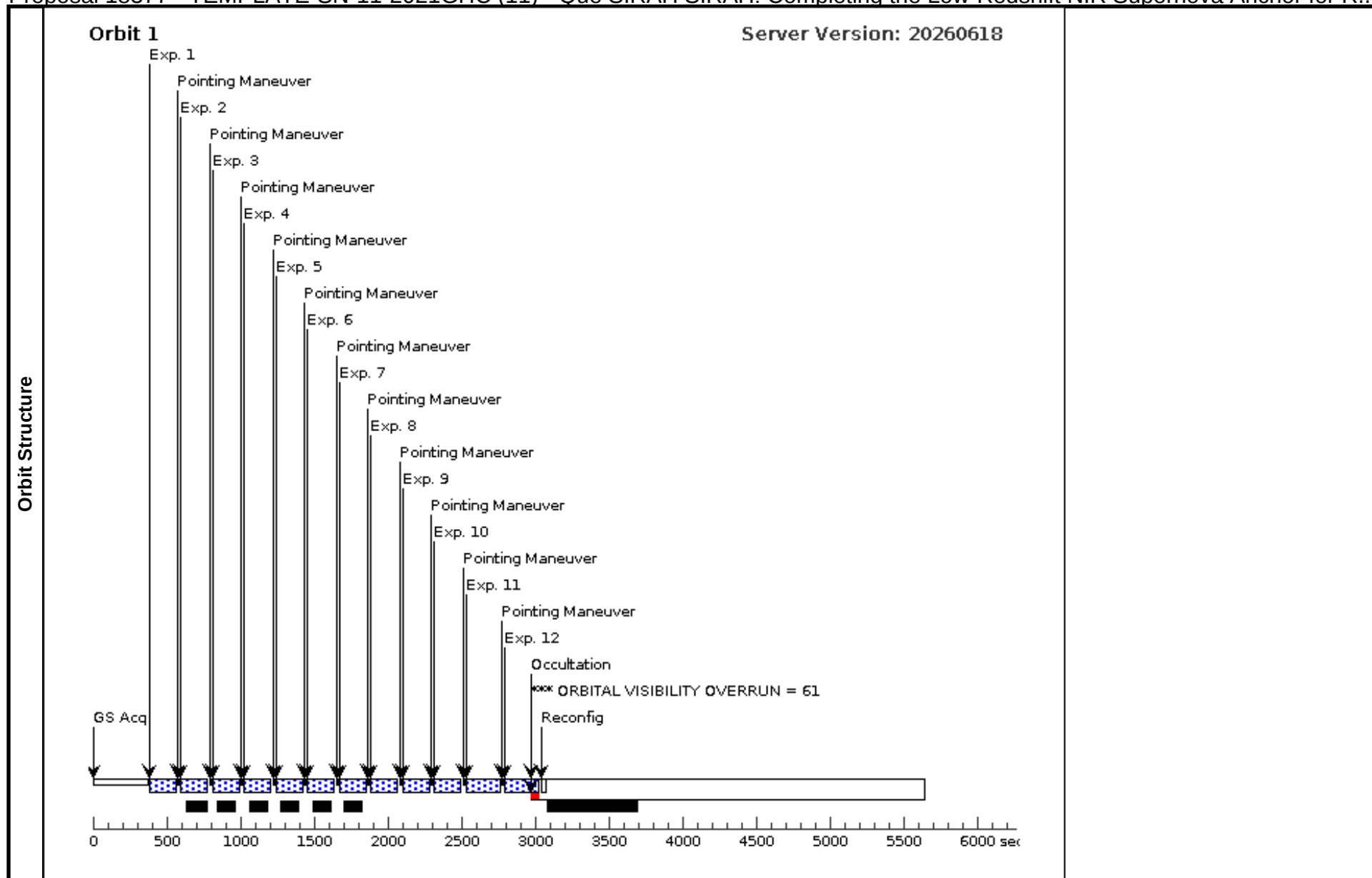
Visit	Proposal 18377, TEMPLATE-SN-10-2020SZR (10), implementation								Wed Aug 19 20:00:32 GMT 2026		
	Diagnostic Status: No Diagnostics										
	Scientific Instruments: WFC3/IR										
	Special Requirements: ORIENT 194.3D TO 204.3 D										
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous			
	(10)	SN2020SZR	RA: 23 09 33.1000 (347.3879167d) Dec: +15 39 33.40 (15.65928d) Equinox: J2000			V=18.6+/-0.1		Reference Frame: ICRS			
	Comments: Category=GALAXY Description=[SPIRAL]										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1		(10) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.00,0.0 0		152.933644 Secs (152.934 Secs) [==>]		[1]
	2		(10) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485		152.933644 Secs (152.934 Secs) [==>]		[1]
	3		(10) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182		152.933644 Secs (152.934 Secs) [==>]		[1]
	4		(10) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303		152.933644 Secs (152.934 Secs) [==>]		[1]
	5		(10) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]		[1]
	6		(10) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]		[1]
	7		(10) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 3		152.933644 Secs (152.934 Secs) [==>]		[1]
	8		(10) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 4		152.933644 Secs (152.934 Secs) [==>]		[1]
	9		(10) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]		[1]
	10		(10) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]		[1]
	11		(10) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 3		202.934095 Secs (202.934 Secs) [==>]		[1]
	12		(10) SN2020SZR	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 4		202.934095 Secs (202.934 Secs) [==>]		[1]



Visit	Proposal 18377, TEMPLATE-SN-11-2021GHC (11), implementation					Wed Aug 19 20:00:32 GMT 2026
	Diagnostic Status: Warning					
	Scientific Instruments: WFC3/IR					
	Special Requirements: ORIENT 277.2D TO 287.2 D					
Diagnosics	(TEMPLATE-SN-11-2021GHC (11)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN					
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	SN2021GHC	RA: 09 56 32.9900 (149.1374583d) Dec: +00 45 8.20 (.75228d) Equinox: J2000		V=23.3+/-0.1	Reference Frame: ICRS
	Comments: Category=GALAXY Description=[SPIRAL] Extended=YES					

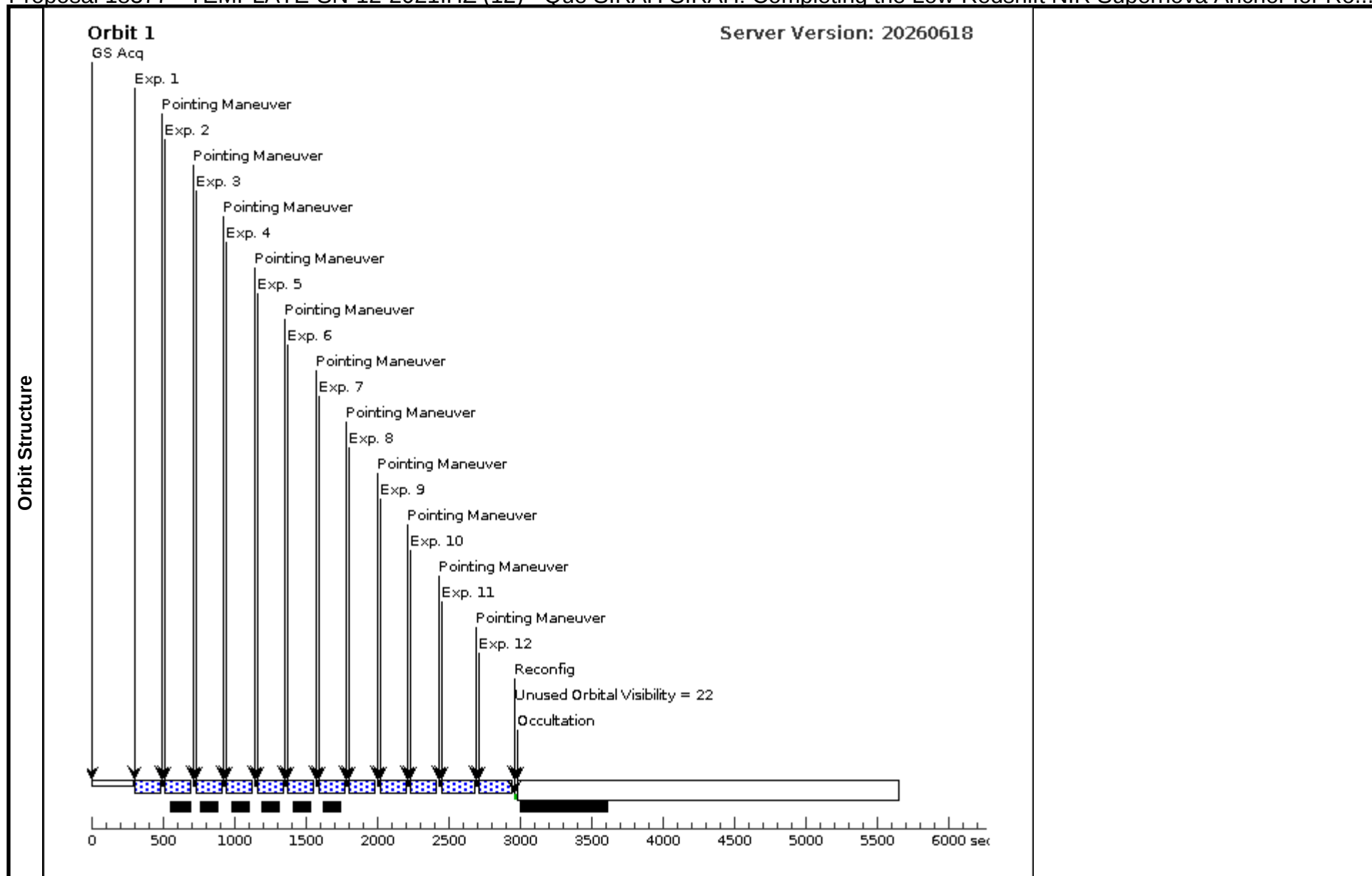
Proposal 18377 - TEMPLATE-SN-11-2021GHC (11) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for R...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(11) SN2021GHC	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.00,0.0 0; GS ACQ SCENARI O BASE103		152.933644 Secs (152.934 Secs) [==>]	[1]
	2		(11) SN2021GHC	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182		152.933644 Secs (152.934 Secs) [==>]	[1]
	3		(11) SN2021GHC	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485		152.933644 Secs (152.934 Secs) [==>]	[1]
	4		(11) SN2021GHC	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303		152.933644 Secs (152.934 Secs) [==>]	[1]
	5		(11) SN2021GHC	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	[1]
	6		(11) SN2021GHC	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	[1]
	7		(11) SN2021GHC	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 3		152.933644 Secs (152.934 Secs) [==>]	[1]
	8		(11) SN2021GHC	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 4		152.933644 Secs (152.934 Secs) [==>]	[1]
	9		(11) SN2021GHC	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	[1]
	10		(11) SN2021GHC	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	[1]
	11		(11) SN2021GHC	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 3		202.934095 Secs (202.934 Secs) [==>]	[1]
	12		(11) SN2021GHC	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 4		202.934095 Secs (202.934 Secs) [==>]	[1]



Proposal 18377 - TEMPLATE-SN-12-2021IHZ (12) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Ro...

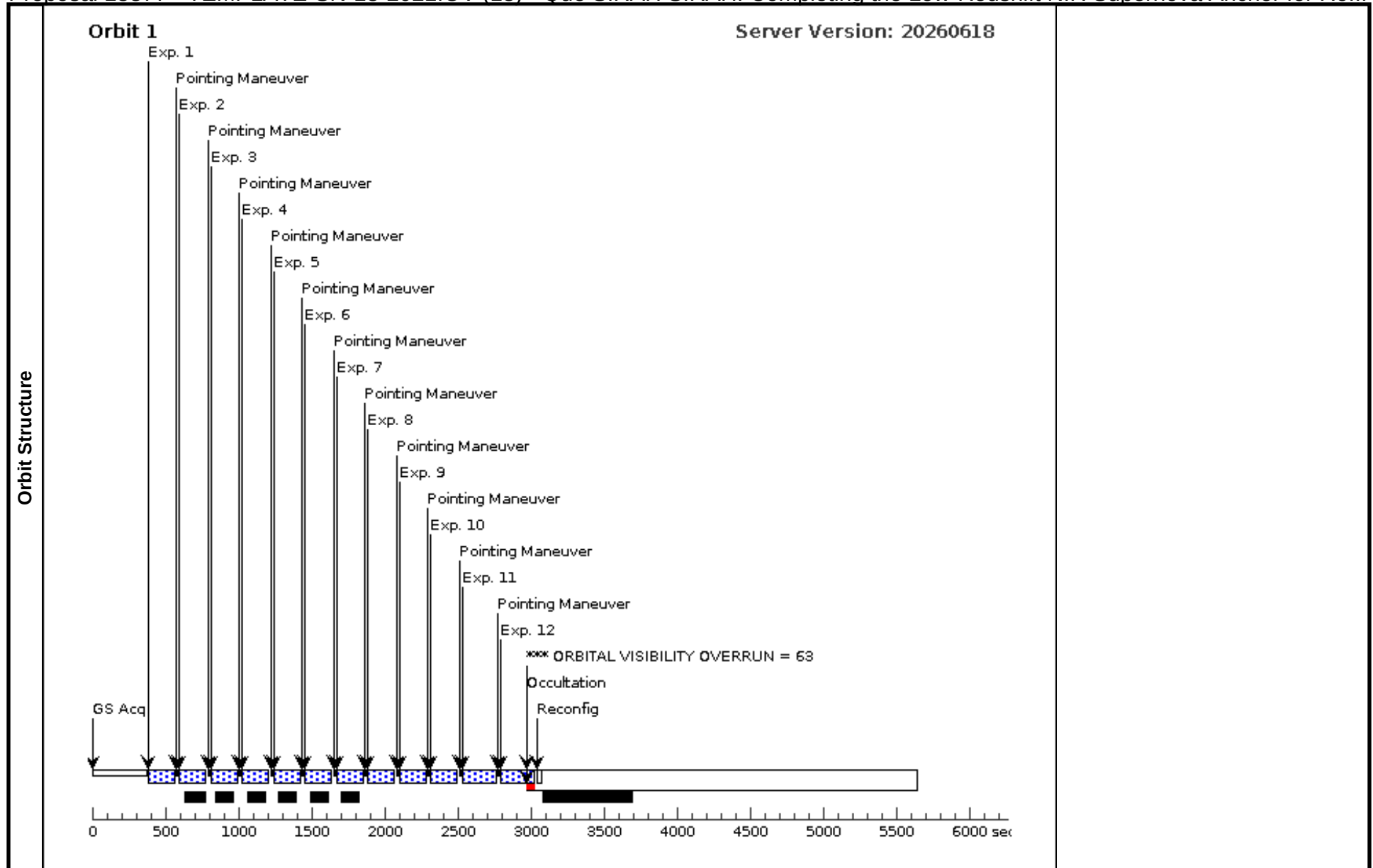
Visit	Proposal 18377, TEMPLATE-SN-12-2021IHZ (12), implementation								Wed Aug 19 20:00:32 GMT 2026	
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: ORIENT 200D TO 210 D									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(12)	SN2021IHZ	RA: 15 13 27.3200 (228.3638333d) Dec: +25 12 24.00 (25.20667d) Equinox: J2000			V=20.57+/-0.1		Reference Frame: ICRS		
Comments: Category=GALAXY Description=[SPIRAL] Extended=YES										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(12) SN2021IHZ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.00,0.0 0		152.933644 Secs (152.934 Secs) [==>]	[1]
	2		(12) SN2021IHZ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182		152.933644 Secs (152.934 Secs) [==>]	[1]
	3		(12) SN2021IHZ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485		152.933644 Secs (152.934 Secs) [==>]	[1]
	4		(12) SN2021IHZ	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303		152.933644 Secs (152.934 Secs) [==>]	[1]
	5		(12) SN2021IHZ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	[1]
	6		(12) SN2021IHZ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	[1]
	7		(12) SN2021IHZ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 3		152.933644 Secs (152.934 Secs) [==>]	[1]
	8		(12) SN2021IHZ	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 4		152.933644 Secs (152.934 Secs) [==>]	[1]
	9		(12) SN2021IHZ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	[1]
	10		(12) SN2021IHZ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	[1]
	11		(12) SN2021IHZ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 3		202.934095 Secs (202.934 Secs) [==>]	[1]
	12		(12) SN2021IHZ	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 4		202.934095 Secs (202.934 Secs) [==>]	[1]



Visit	Proposal 18377, TEMPLATE-SN-13-2021IOV (13), implementation Wed Aug 19 20:00:32 GMT 2026				
	Diagnostic Status: Warning Scientific Instruments: WFC3/IR Special Requirements: ORIENT 268.4D TO 278.4 D				
Diagnostics	(TEMPLATE-SN-13-2021IOV (13)) Warning (Orbit Planner): ORBITAL VISIBILITY OVERRUN				
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes
	(13)	SN2021IOV	RA: 09 26 38.8400 (141.6618333d) Dec: -07 05 13.70 (-7.08714d) Equinox: J2000		V=19.93+/-0.1
	Miscellaneous Reference Frame: ICRS				
	Comments: Category=GALAXY Description=[SPIRAL] Extended=YES				

Proposal 18377 - TEMPLATE-SN-13-2021IOV (13) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Ro...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(13) SN2021IOV	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.00,0.0 0; GS ACQ SCENARI O BASE103		152.933644 Secs (152.934 Secs) [==>]	[1]
	2		(13) SN2021IOV	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182		152.933644 Secs (152.934 Secs) [==>]	[1]
	3		(13) SN2021IOV	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485		152.933644 Secs (152.934 Secs) [==>]	[1]
	4		(13) SN2021IOV	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303		152.933644 Secs (152.934 Secs) [==>]	[1]
	5		(13) SN2021IOV	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	[1]
	6		(13) SN2021IOV	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	[1]
	7		(13) SN2021IOV	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 3		152.933644 Secs (152.934 Secs) [==>]	[1]
	8		(13) SN2021IOV	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 4		152.933644 Secs (152.934 Secs) [==>]	[1]
	9		(13) SN2021IOV	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	[1]
	10		(13) SN2021IOV	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	[1]
	11		(13) SN2021IOV	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 3		202.934095 Secs (202.934 Secs) [==>]	[1]
	12		(13) SN2021IOV	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 4		202.934095 Secs (202.934 Secs) [==>]	[1]



Proposal 18377 - TEMPLATE-SN-14-2021MIM (14) - Que SIRAH SIRAH: Completing the Low-Redshift NIR Supernova Anchor for Ro...

Visit	Proposal 18377, TEMPLATE-SN-14-2021MIM (14), implementation									Wed Aug 19 20:00:32 GMT 2026
	Diagnostic Status: No Diagnostics									
	Scientific Instruments: WFC3/IR									
	Special Requirements: (none)									
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections		Fluxes		Miscellaneous		
	(14)	SN2021MIM	RA: 15 40 21.3600 (235.0890000d) Dec: +07 16 53.50 (7.28153d) Equinox: J2000			V=20.68+/-0.1		Reference Frame: ICRS		
	Comments: Category=GALAXY Description=[SPIRAL] Extended=YES									
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(14) SN2021MIM	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.00,0.0 0		152.933644 Secs (152.934 Secs) [==>]	 [1]
	2		(14) SN2021MIM	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.542,0.182		152.933644 Secs (152.934 Secs) [==>]	 [1]
	3		(14) SN2021MIM	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG 0.339,0.485		152.933644 Secs (152.934 Secs) [==>]	 [1]
	4		(14) SN2021MIM	WFC3/IR, MULTIACCUM, GRISM1024	F105W	SAMP-SEQ=SPARS 50; NSAMP=4	POS TARG -0.203,0.303		152.933644 Secs (152.934 Secs) [==>]	 [1]
	5		(14) SN2021MIM	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	 [1]
	6		(14) SN2021MIM	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	 [1]
	7		(14) SN2021MIM	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 3		152.933644 Secs (152.934 Secs) [==>]	 [1]
	8		(14) SN2021MIM	WFC3/IR, MULTIACCUM, GRISM1024	F125W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 4		152.933644 Secs (152.934 Secs) [==>]	 [1]
	9		(14) SN2021MIM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 1		152.933644 Secs (152.934 Secs) [==>]	 [1]
	10		(14) SN2021MIM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=4	SAME POS AS 2		152.933644 Secs (152.934 Secs) [==>]	 [1]
	11		(14) SN2021MIM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 3		202.934095 Secs (202.934 Secs) [==>]	 [1]
	12		(14) SN2021MIM	WFC3/IR, MULTIACCUM, GRISM1024	F160W	SAMP-SEQ=SPARS 50; NSAMP=5	SAME POS AS 4		202.934095 Secs (202.934 Secs) [==>]	 [1]

