



18116 - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST

Imaging and Dynamical Modeling

Cycle: 33, Proposal Category: GO

(Availability Mode: SUPPORTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
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Mr. Changseok Kim (CoI)	Seoul National University

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	(3) J0101+422	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:04:46.0	yes
02	(4) J0140+234	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:04:48.0	yes
03	(25) MRK-1014	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:04:49.0	yes
04	(5) J0939+375	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:04:51.0	yes
05	(6) PG0947+396	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:04:53.0	yes

Proposal 18116 (STScI Edit Number: 0, Created: Thursday, August 14, 2025, 3:05:22PM 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	(7) J1026+523	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:04:55.0	yes
07	(8) PG1100+772	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:04:56.0	yes
08	(9) J1120+423	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:04:58.0	yes
09	(10) PG1121+422	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:00.0	yes
10	(11) PG1202+281	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:02.0	yes
11	(12) J1217+333	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:03.0	yes
12	(13) VIIIZW218	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:05.0	yes
13	(14) PG1322+659	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:07.0	yes
14	(15) J1415+483	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:08.0	yes
15	(16) PG1427+480	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:10.0	yes
16	(18) J1456+380	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:12.0	yes
17	(19) J1526+275	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:13.0	yes
18	(20) J1540+355	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:15.0	yes
19	(21) PG1612+261	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:17.0	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>
20	(22) J1619+501	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:18.0	yes
21	(23) PG2349-014	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:20.0	yes
22	(24) PG1440+356	WFC3/IR WFC3/UVIS	2	14-Aug-2025 16:05:21.0	yes

44 Total Orbits Used

ABSTRACT

Accurate constraints of the black hole mass-bulge velocity dispersion ($M_{\text{BH}}\text{-}\sigma_*$) relation for active galactic nuclei (AGNs) are essential for understanding the cosmic evolution of BH-host connection. However, the accuracy of AGN single-epoch BH mass estimates critically depends on the empirical broad-line region radius (R)-luminosity (L) relation. Recent reverberation mapping (RM) studies suggest that the R-L relation may have a shallower slope, leading to the potential overestimation of single-epoch BH masses for high-luminosity AGNs. This highlights the need to better understand the offset in the R-L relation, including precise host galaxy subtraction to minimize biases. Even with the RM M_{BH} measurements, the AGN $M_{\text{BH}}\text{-}\sigma_*$ relation remains elusive, exhibiting a shallower slope compared to that of quiescent galaxies due to the lack of $> 10^8$ solar-mass BHs.

Here, we propose HST WFC3 UVIS/IR imaging for a sample of moderate to high-luminosity reverberation-mapped AGNs. Our sample includes 10 AGNs with the most accurate BH mass measurements obtained from dynamical modeling of RM data. This dataset significantly expands the current sample to 10^9 solar masses, allowing for a more robust constraint on the AGN BH-host relation. We will use these observations to (1) accurately remove host galaxy starlight, calibrate the broad-line region R-L relation, and update single-epoch BH mass estimates, and (2) characterize host galaxy structural properties, which are essential for understanding the intrinsic scatter of the $M_{\text{BH}}\text{-}\sigma_*$ and $M_{\text{BH}}\text{-}M_{\text{bulge}}$ relation.

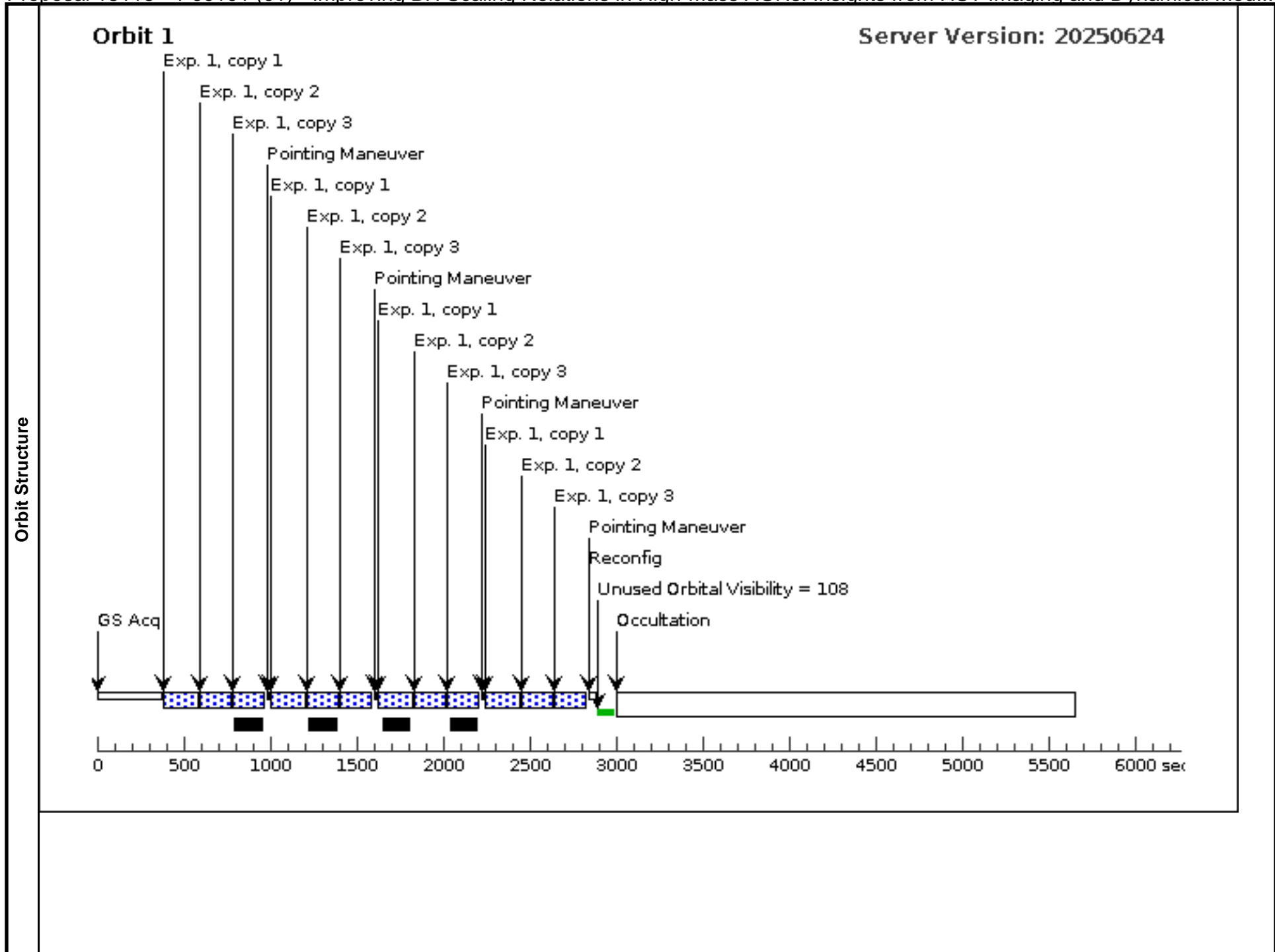
OBSERVING DESCRIPTION

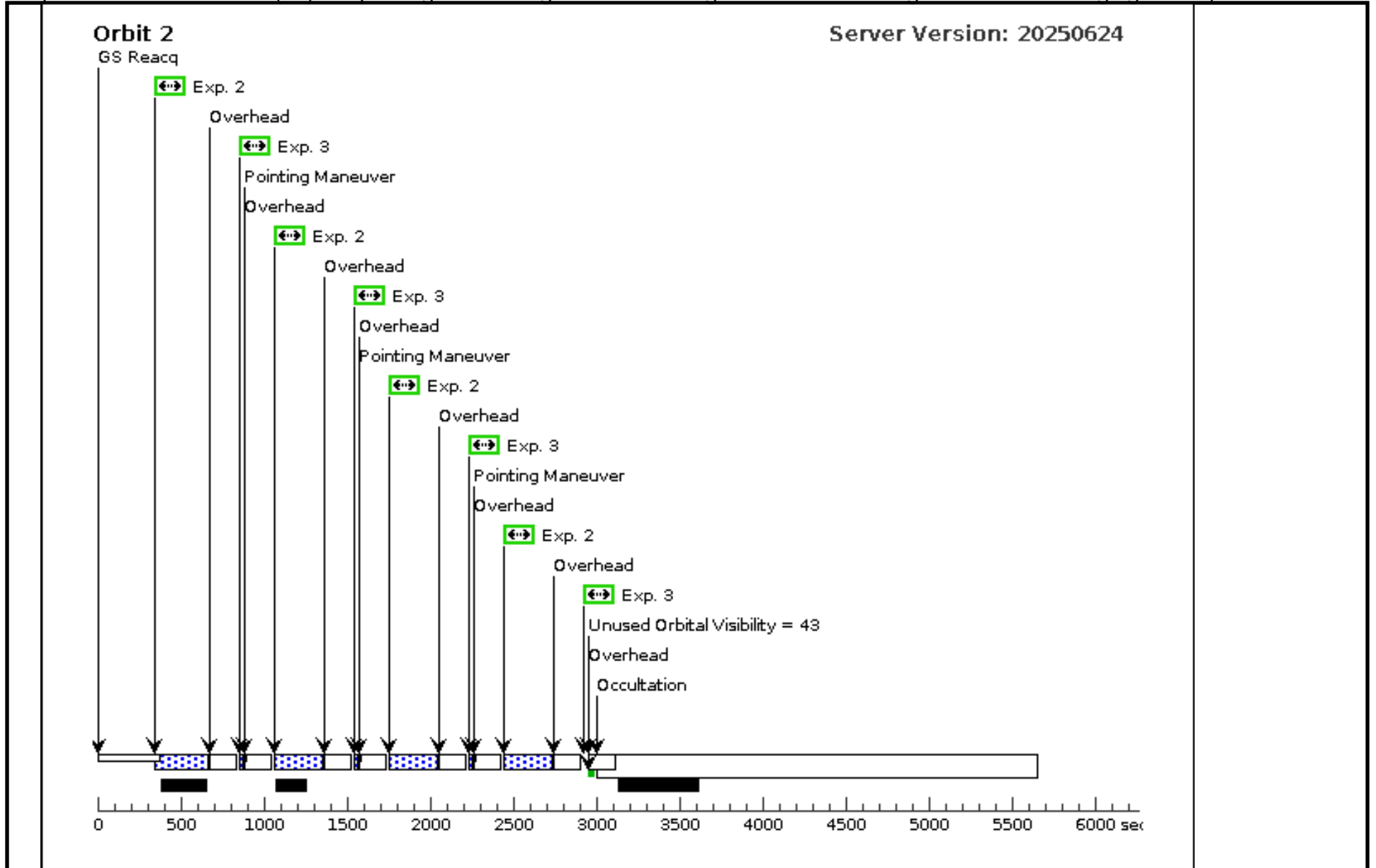
WFC3 UVIS/IR observation for a sample of quasars.

Visit	Proposal 18116, 1-J0101 (01) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	
	(3)	J0101+422	RA: 01 01 31.1691 (15.3798713d) Dec: +42 29 35.59 (42.49322d) Equinox: J2000	Proper Motion RA: -0.02 mas/yr Proper Motion Dec: -0.026000066100095864 mas/yr Parallax: 1.61E-5" Epoch of Position: 2000	V=16.3	Reference Frame: ICRS	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[QUASAR]</i></p>							

Proposal 18116 - 1-J0101 (01) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical Mod...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(3) J0101+422	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 1-J0101 (01) (1)	174.282148 Secs X 3 (2091.386 Secs)	
									[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)]	[1]
	2		(3) J0101+422	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 1-J0101 (01) (2)	290 Secs (1160 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
3		(3) J0101+422	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 1-J0101 (01) (2)	20 Secs (80 Secs)		
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	

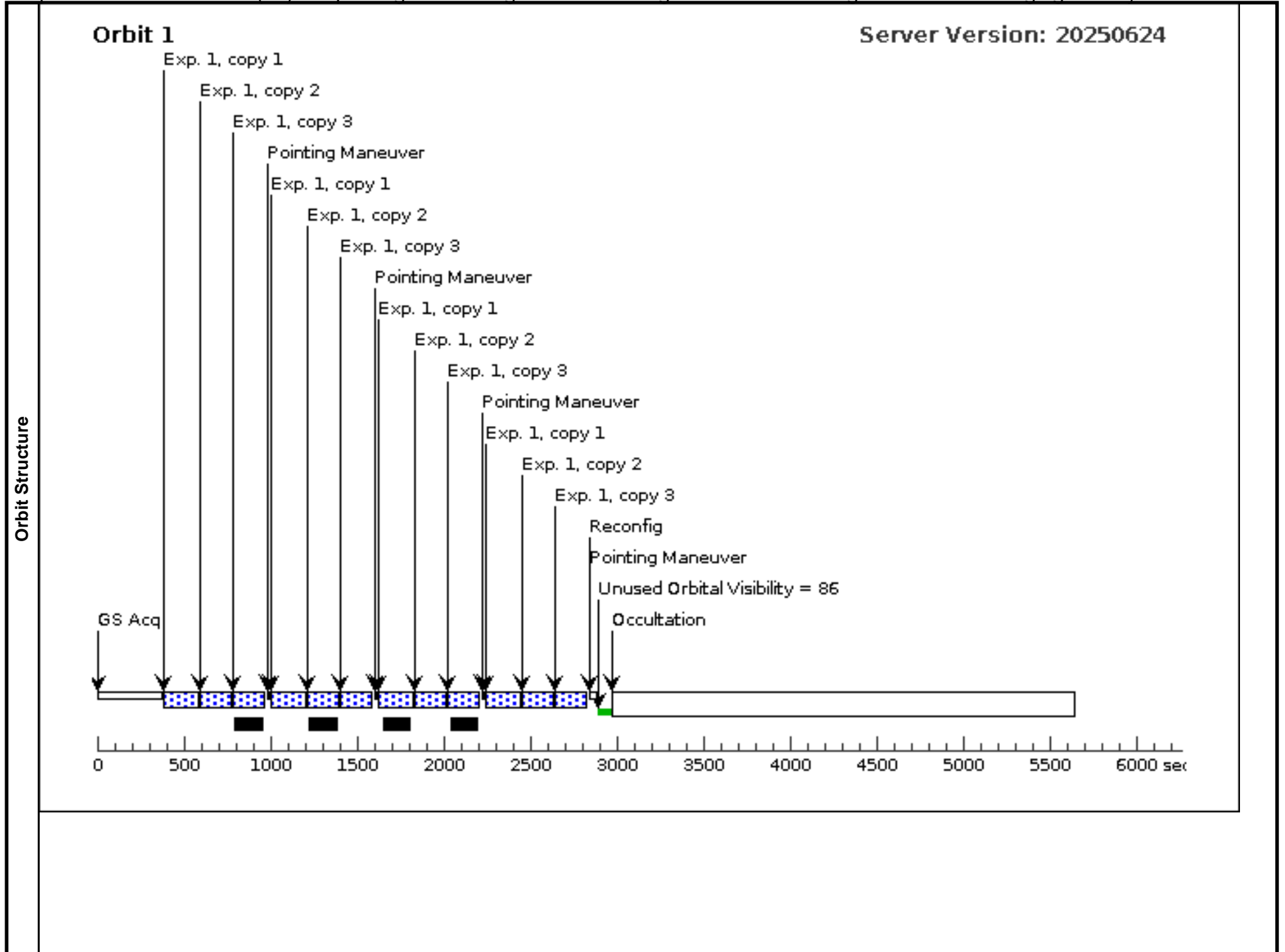


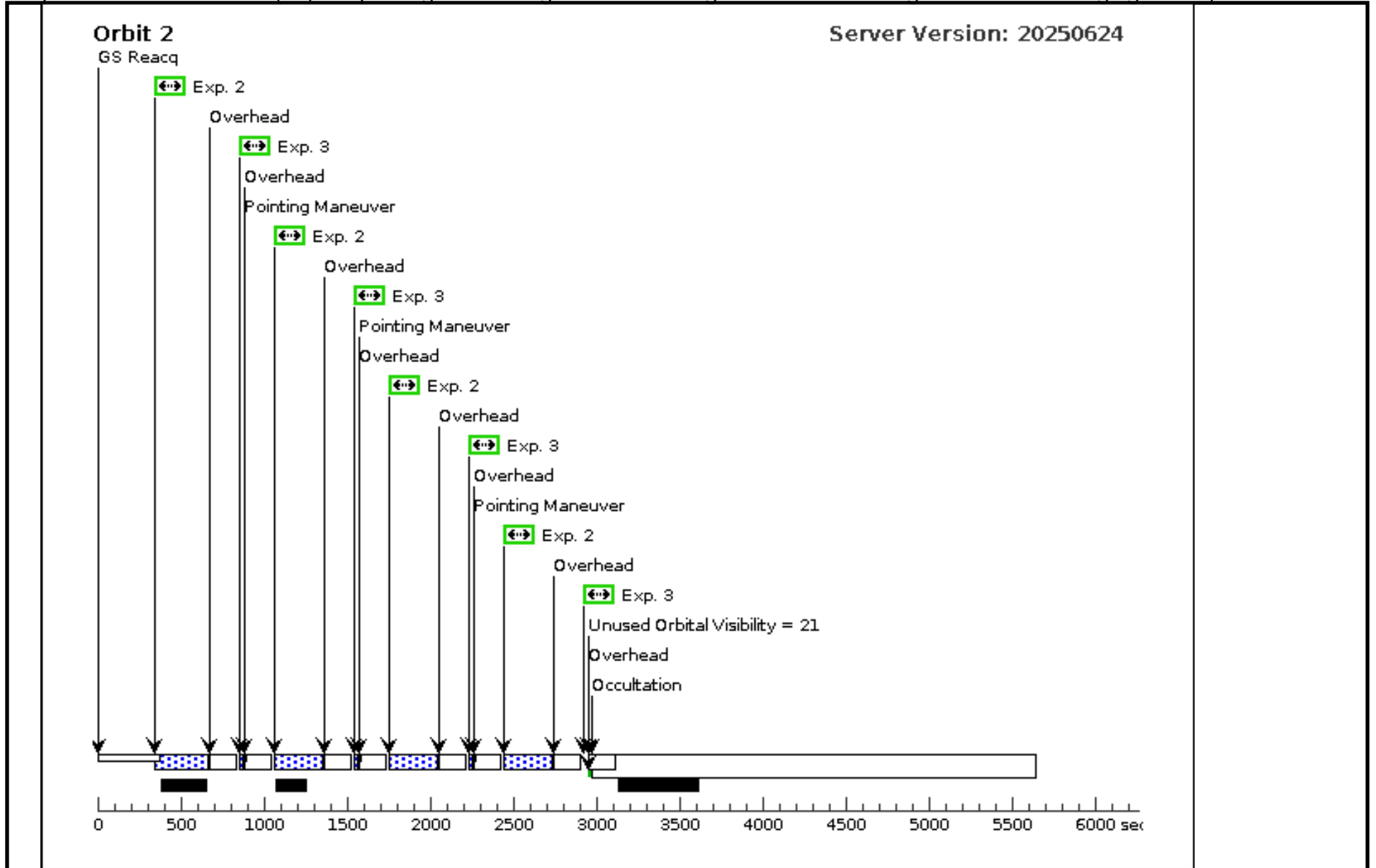


Visit	Proposal 18116, 2-J0140 (02) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(4)	J0140+234	RA: 01 40 35.0153 (25.1458971d) Dec: +23 44 51.11 (23.74753d) Equinox: J2000	Proper Motion RA: 0.027 mas/yr Proper Motion Dec: -0.19399992652324727 mas/yr Parallax: 8.86E-5" Epoch of Position: 2000	V=17.0	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[QUASAR]</i></p>						

Proposal 18116 - 2-J0140 (02) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical Mod...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(4) J0140+234	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 2-J0140 (02) (1)	174.282148 Secs X 3 (2091.386 Secs)	
								[==>(Pattern 1, Copy 1)]	[1]
								[==>(Pattern 1, Copy 2)]	
								[==>(Pattern 1, Copy 3)]	
								[==>(Pattern 2, Copy 1)]	
								[==>(Pattern 2, Copy 2)]	
								[==>(Pattern 2, Copy 3)]	
								[==>(Pattern 3, Copy 1)]	
								[==>(Pattern 3, Copy 2)]	
								[==>(Pattern 3, Copy 3)]	
								[==>(Pattern 4, Copy 1)]	
								[==>(Pattern 4, Copy 2)]	
							[==>(Pattern 4, Copy 3)]		
2	(4) J0140+234	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 2-J0140 (02) (2)	290 Secs (1160 Secs)		
							[==>(Pattern 1)]	[2]	
							[==>(Pattern 2)]		
							[==>(Pattern 3)]		
							[==>(Pattern 4)]		
3	(4) J0140+234	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 2-J0140 (02) (2)	20 Secs (80 Secs)		
							[==>(Pattern 1)]	[2]	
							[==>(Pattern 2)]		
							[==>(Pattern 3)]		
							[==>(Pattern 4)]		

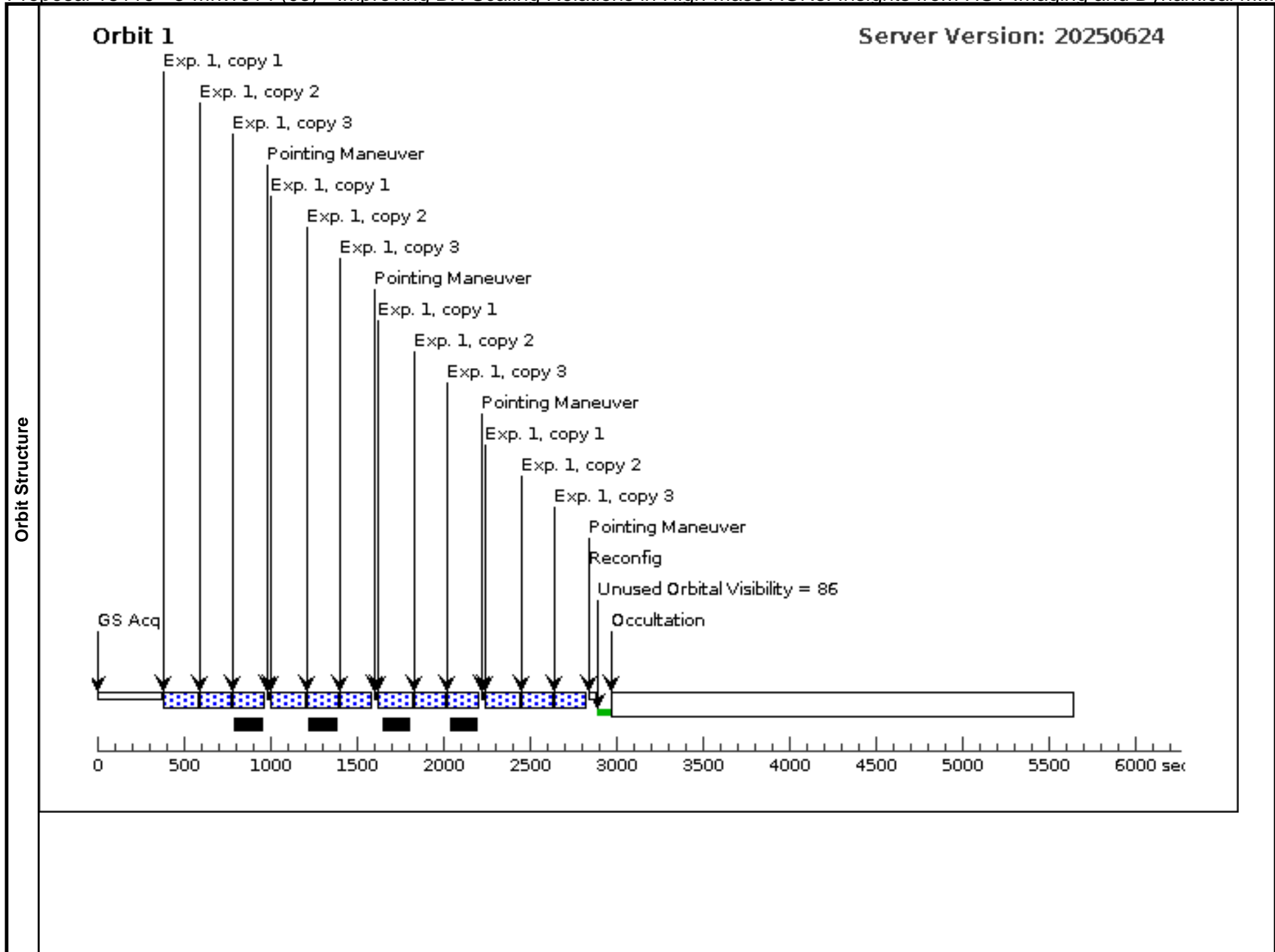


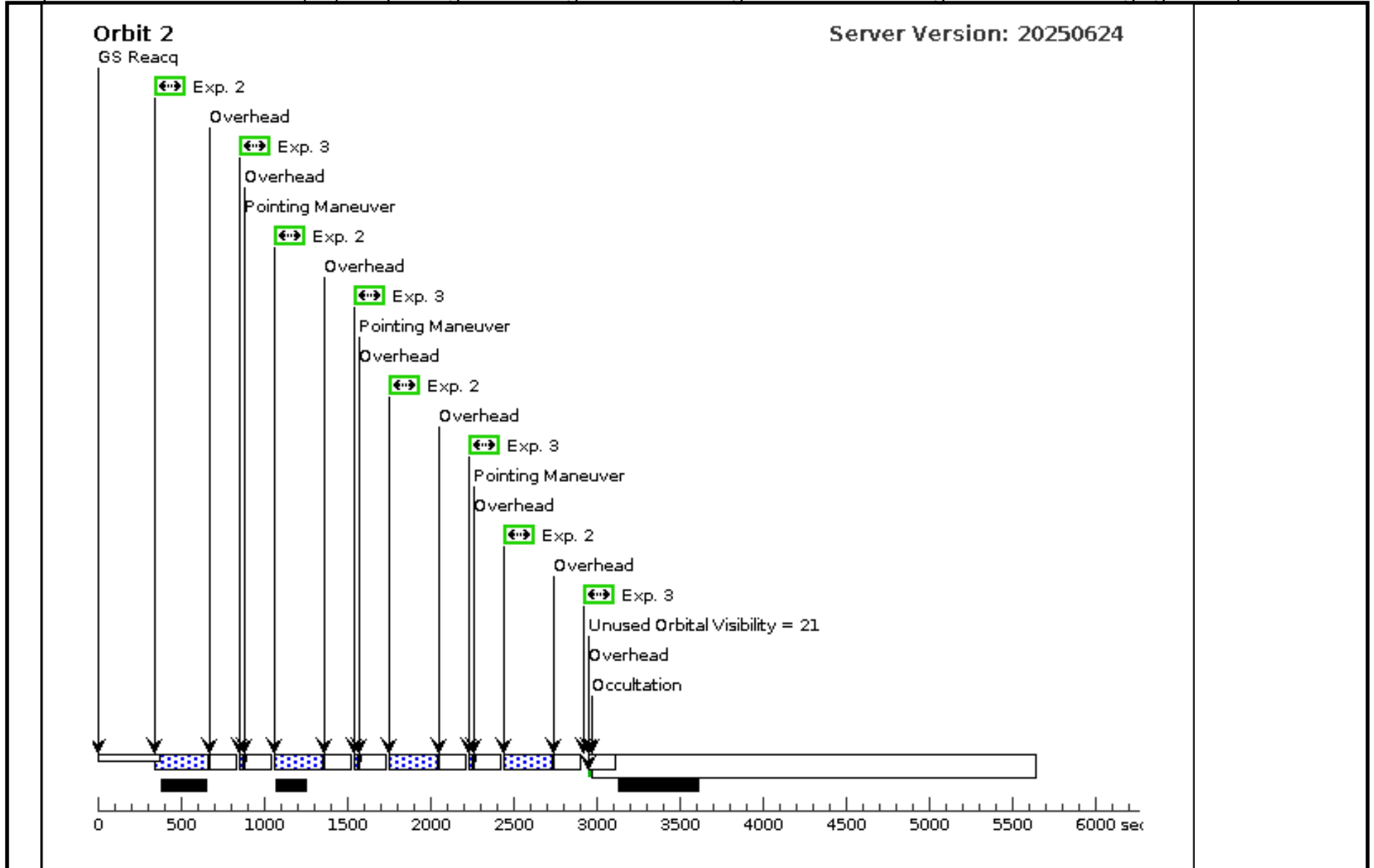


Visit	Proposal 18116, 3-Mrk1014 (03) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)		
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	
	(25)	MRK-1014	RA: 01 59 50.2535 (29.9593896d) Dec: +00 23 40.86 (.39468d) Equinox: J2000	Proper Motion RA: -0.842 mas/yr Proper Motion Dec: 0.225 mas/yr Parallax: 3.0270000000000004E-4" Epoch of Position: 2000	V=15.87	Reference Frame: ICRS	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i> <i>Extended=YES</i></p>							

Proposal 18116 - 3-Mrk1014 (03) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical M...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(25) MRK-1014	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 3-Mrk1014 (03) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(25) MRK-1014	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 3-Mrk1014 (03) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(25) MRK-1014	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 3-Mrk1014 (03) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

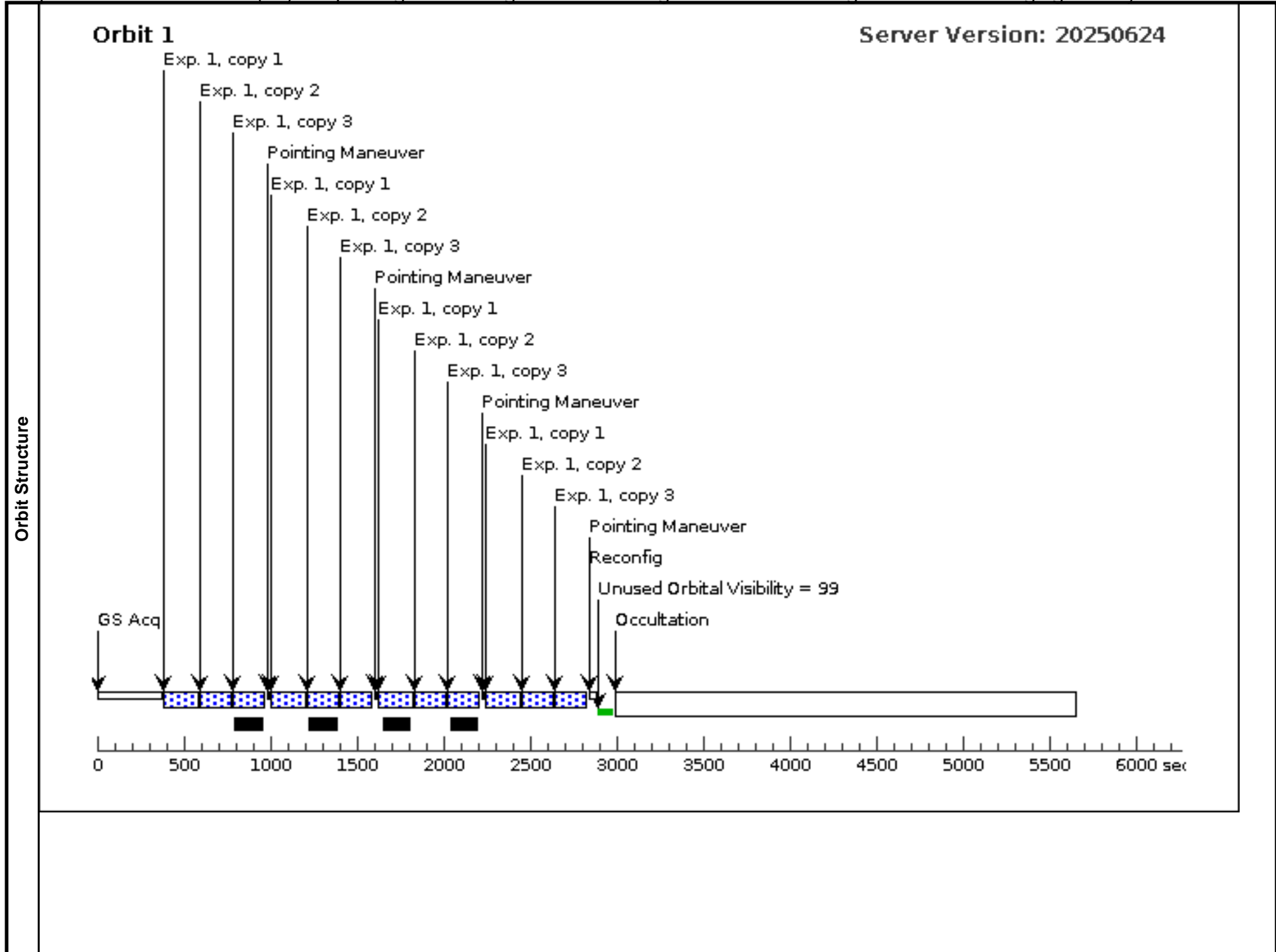


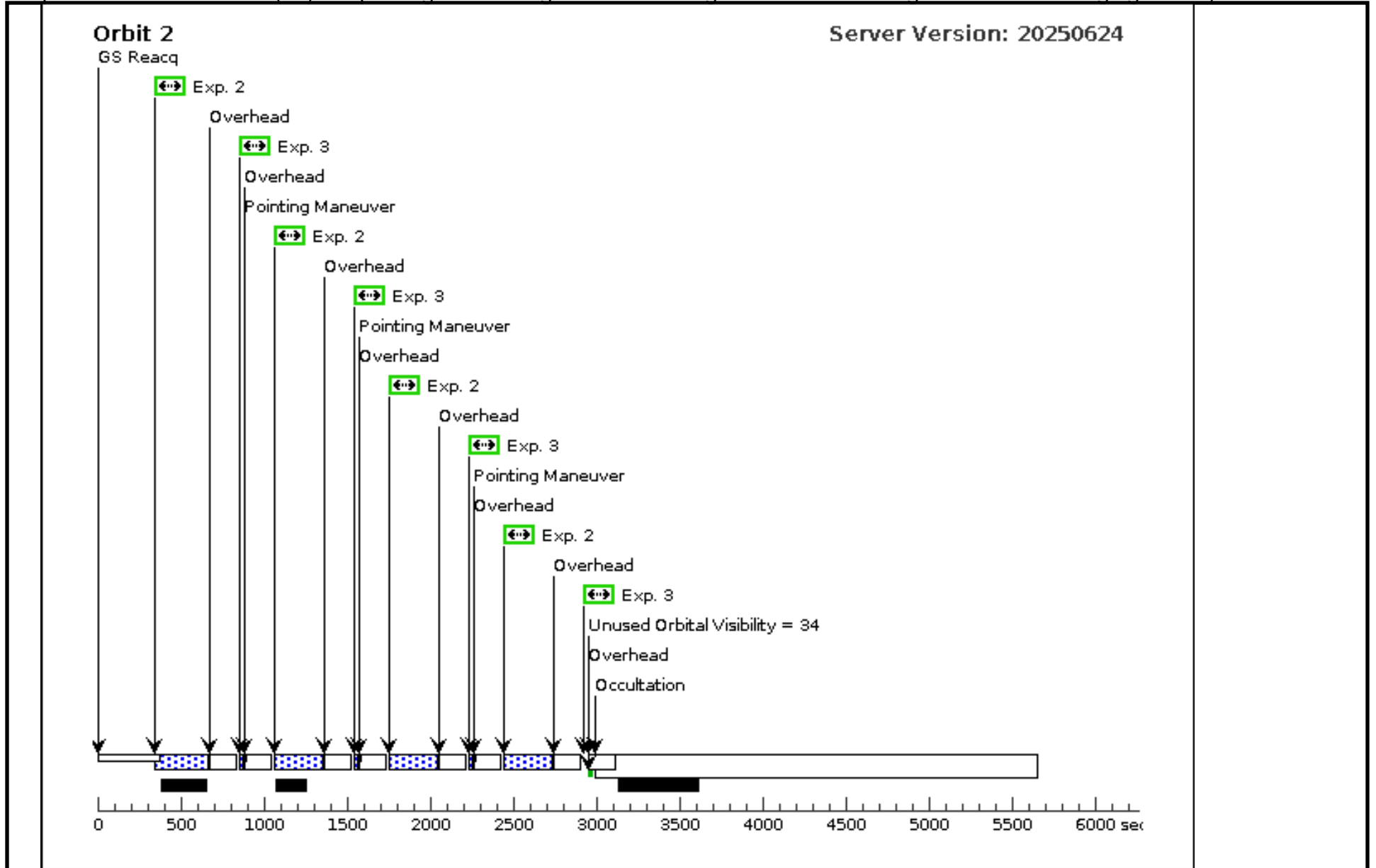


Visit	Proposal 18116, 4-J0939 (04) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(5)	J0939+375	RA: 09 39 39.7025 (144.9154271d) Dec: +37 57 5.92 (37.95164d) Equinox: J2000	Proper Motion RA: 0.017 mas/yr Proper Motion Dec: 0.14 mas/yr Parallax: 1.587999999999998E-4" Epoch of Position: 2000	V=17.87	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i></p>						

Proposal 18116 - 4-J0939 (04) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical Mod...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(5) J0939+375	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 i n 4-J0939 (04) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(5) J0939+375	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 i n 4-J0939 (04) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(5) J0939+375	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 i n 4-J0939 (04) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

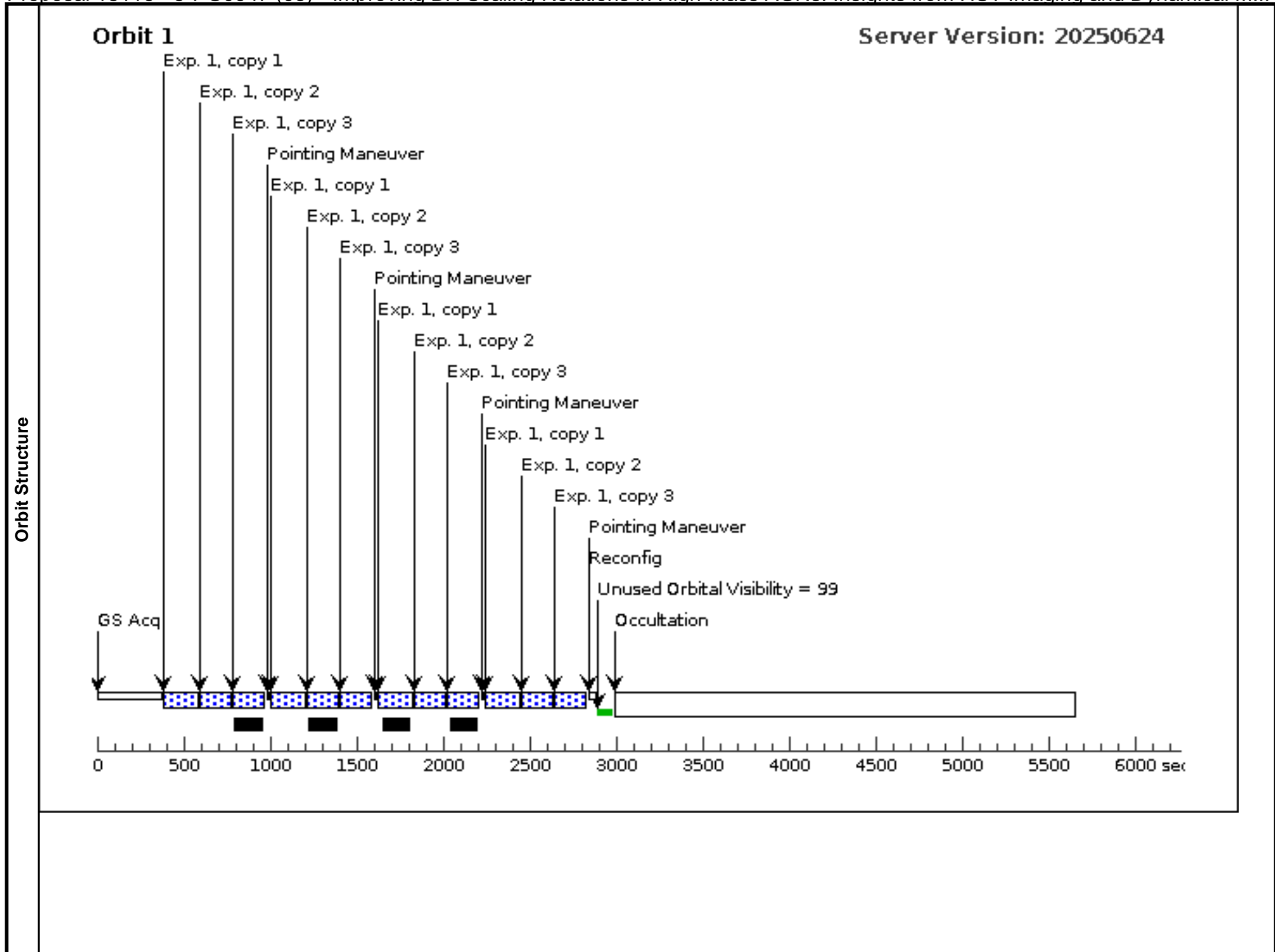


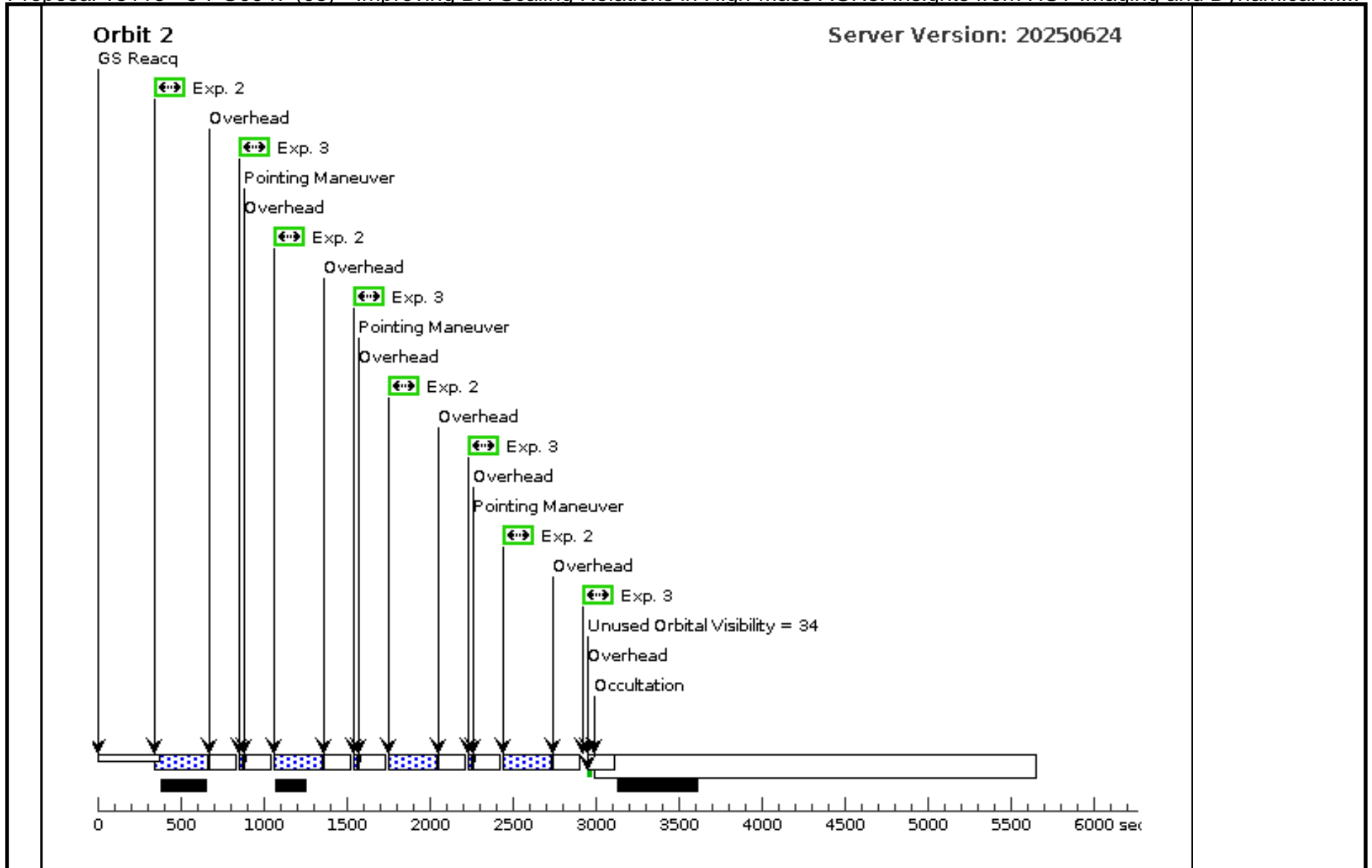


Visit	Proposal 18116, 5-PG0947 (05) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(6)	PG0947+396	RA: 09 50 48.3803 (147.7015846d) Dec: +39 26 50.47 (39.44735d) Equinox: J2000	Proper Motion RA: 0.038 mas/yr Proper Motion Dec: 0.012 mas/yr Parallax: 4.4E-6" Epoch of Position: 2000	V=16.73	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i> <i>Extended=YES</i></p>						

Proposal 18116 - 5-PG0947 (05) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical M...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(6) PG0947+396	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 5-PG0947 (05) (1)	174.282148 Secs X 3 (2091.386 Secs)	
								[==>(Pattern 1, Copy 1)]	[1]
								[==>(Pattern 1, Copy 2)]	
								[==>(Pattern 1, Copy 3)]	
								[==>(Pattern 2, Copy 1)]	
								[==>(Pattern 2, Copy 2)]	
								[==>(Pattern 2, Copy 3)]	
								[==>(Pattern 3, Copy 1)]	
								[==>(Pattern 3, Copy 2)]	
							[==>(Pattern 3, Copy 3)]		
							[==>(Pattern 4, Copy 1)]		
							[==>(Pattern 4, Copy 2)]		
							[==>(Pattern 4, Copy 3)]		
2	(6) PG0947+396	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20			Pattern 2, Exps 2-3 in 5-PG0947 (05) (2)	290 Secs (1160 Secs)	
								[==>(Pattern 1)]	[2]
								[==>(Pattern 2)]	
								[==>(Pattern 3)]	
								[==>(Pattern 4)]	
3	(6) PG0947+396	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20			Pattern 2, Exps 2-3 in 5-PG0947 (05) (2)	20 Secs (80 Secs)	
								[==>(Pattern 1)]	[2]
								[==>(Pattern 2)]	
								[==>(Pattern 3)]	
								[==>(Pattern 4)]	

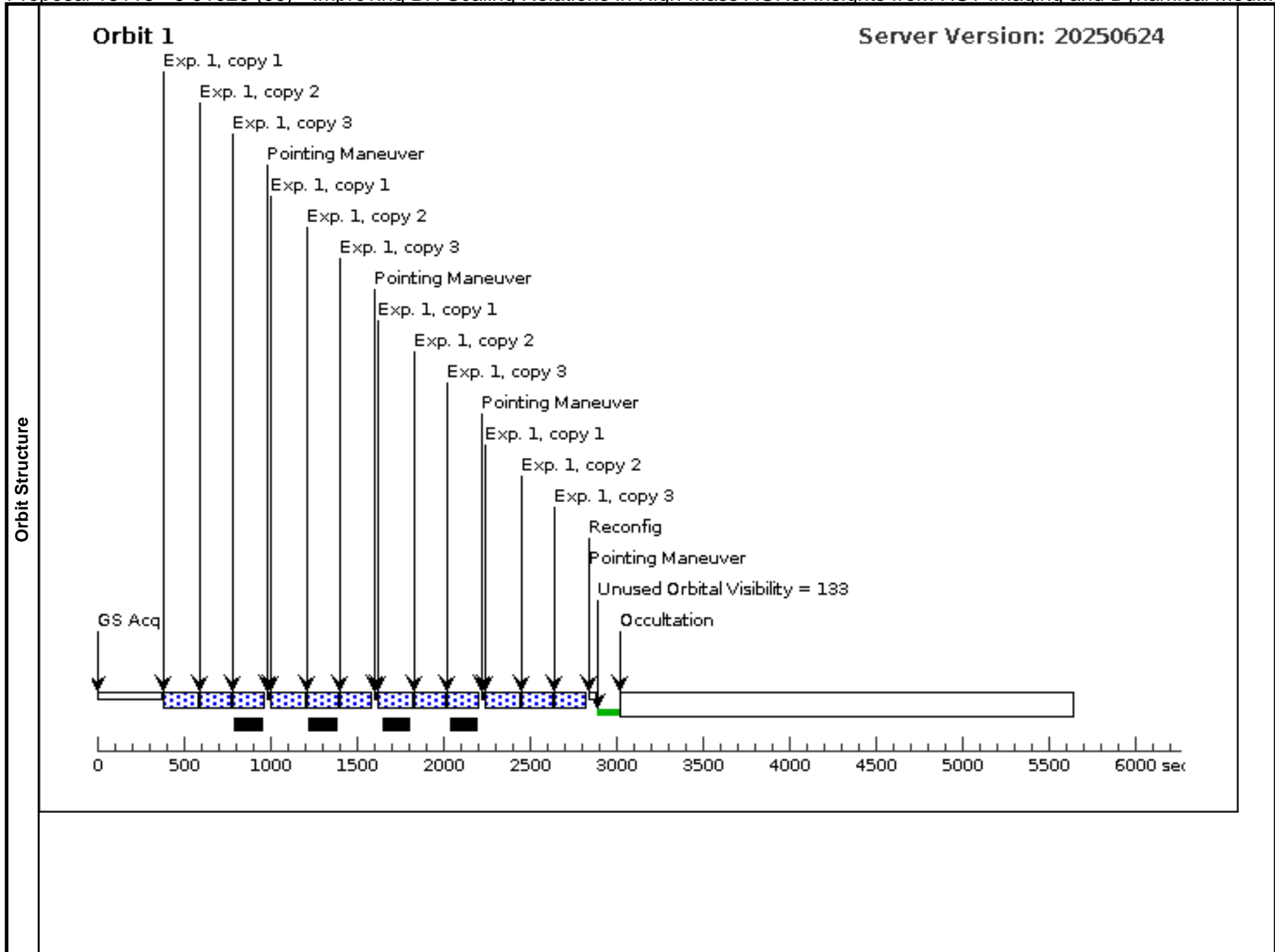


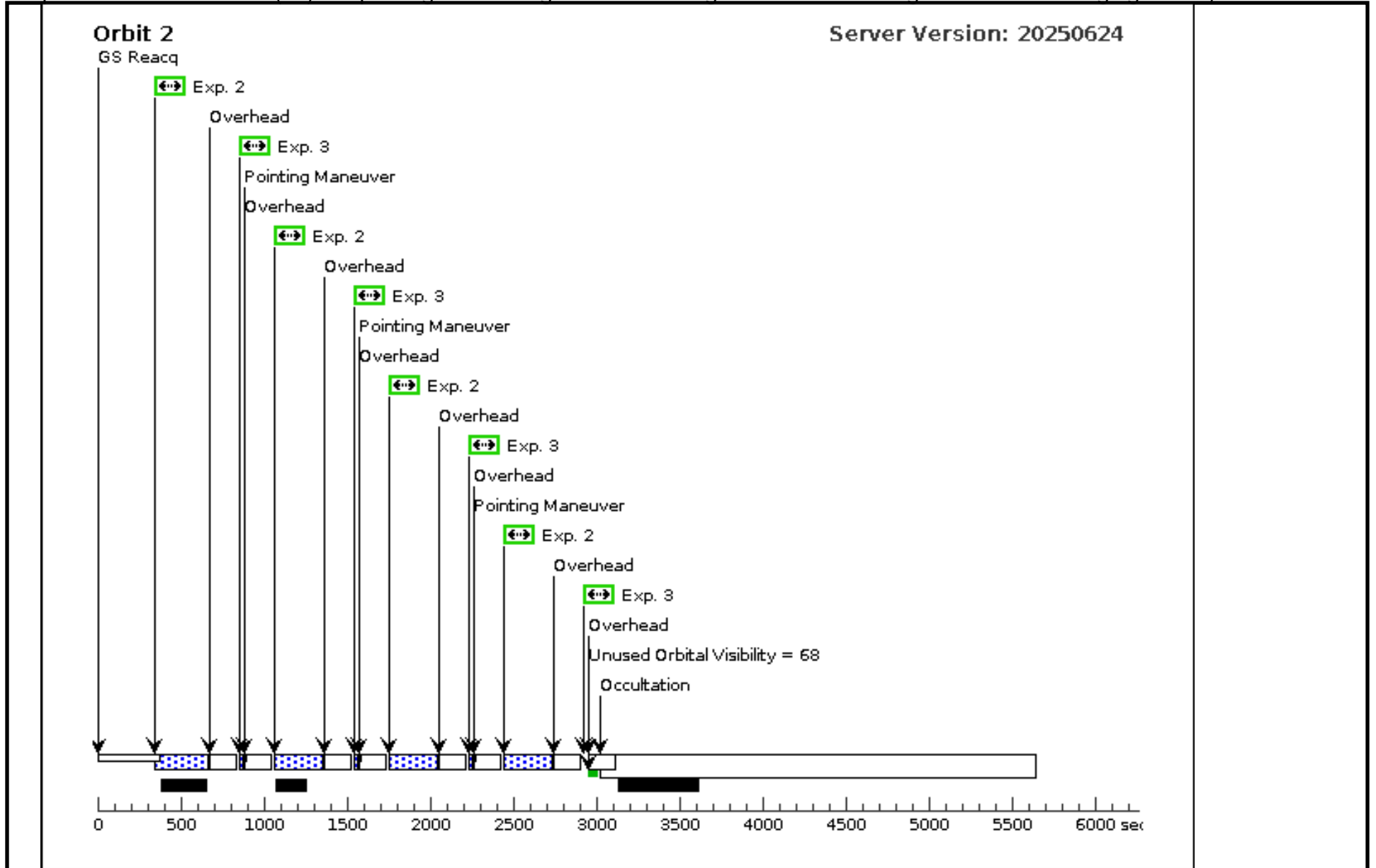


Visit	Proposal 18116, 6-J1026 (06) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern		Secondary Pattern	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false			(1)
(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false			(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(7)	J1026+523	RA: 10 26 13.9069 (156.5579454d) Dec: +52 37 51.30 (52.63092d) Equinox: J2000	Proper Motion RA: -0.068 mas/yr Proper Motion Dec: -0.17800002751755528 mas/yr Epoch of Position: 2000	V=17.8	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i></p>						

Proposal 18116 - 6-J1026 (06) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical Mod...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(7) J1026+523	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 6-J1026 (06) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(7) J1026+523	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 6-J1026 (06) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(7) J1026+523	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 6-J1026 (06) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

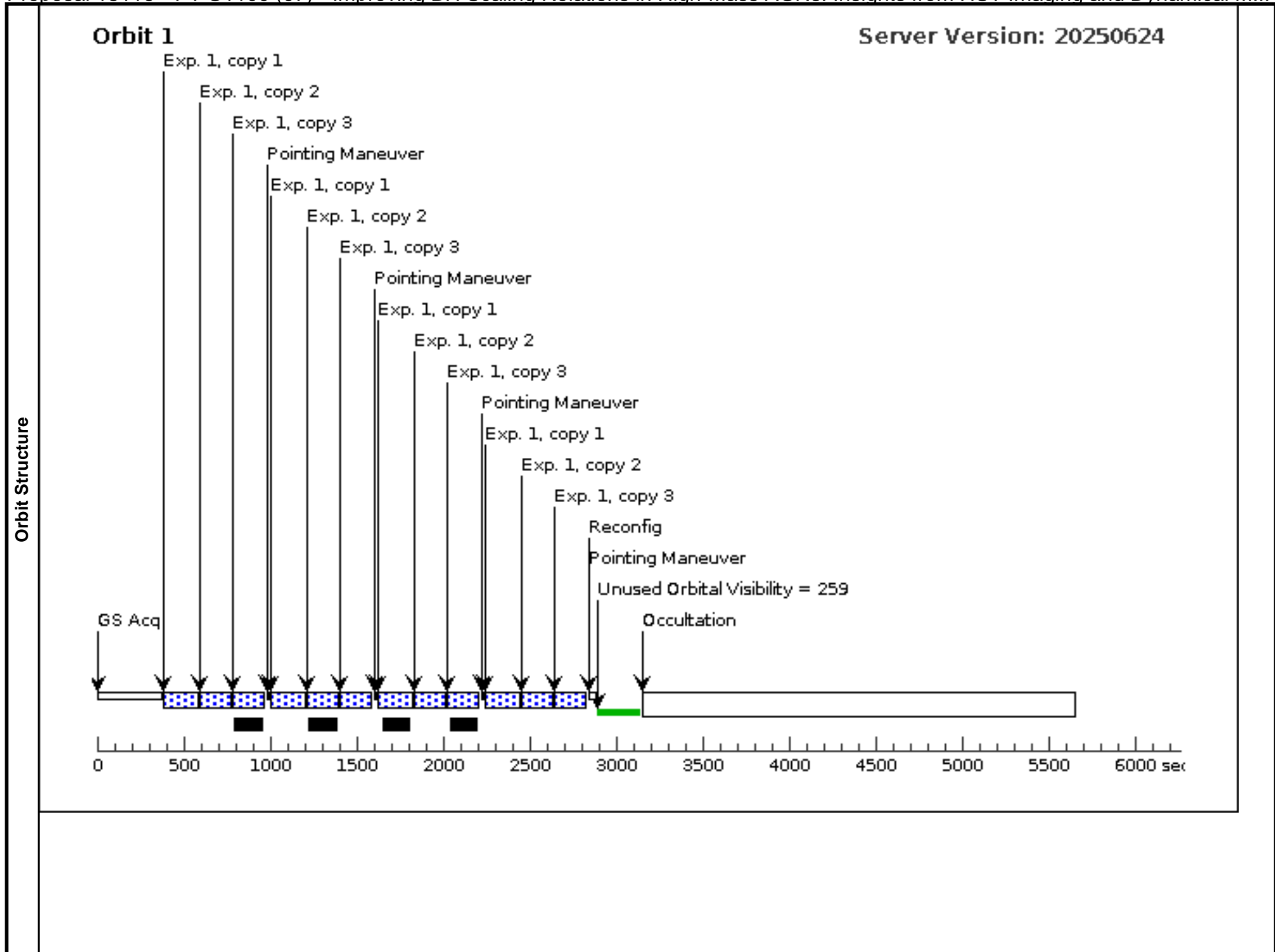


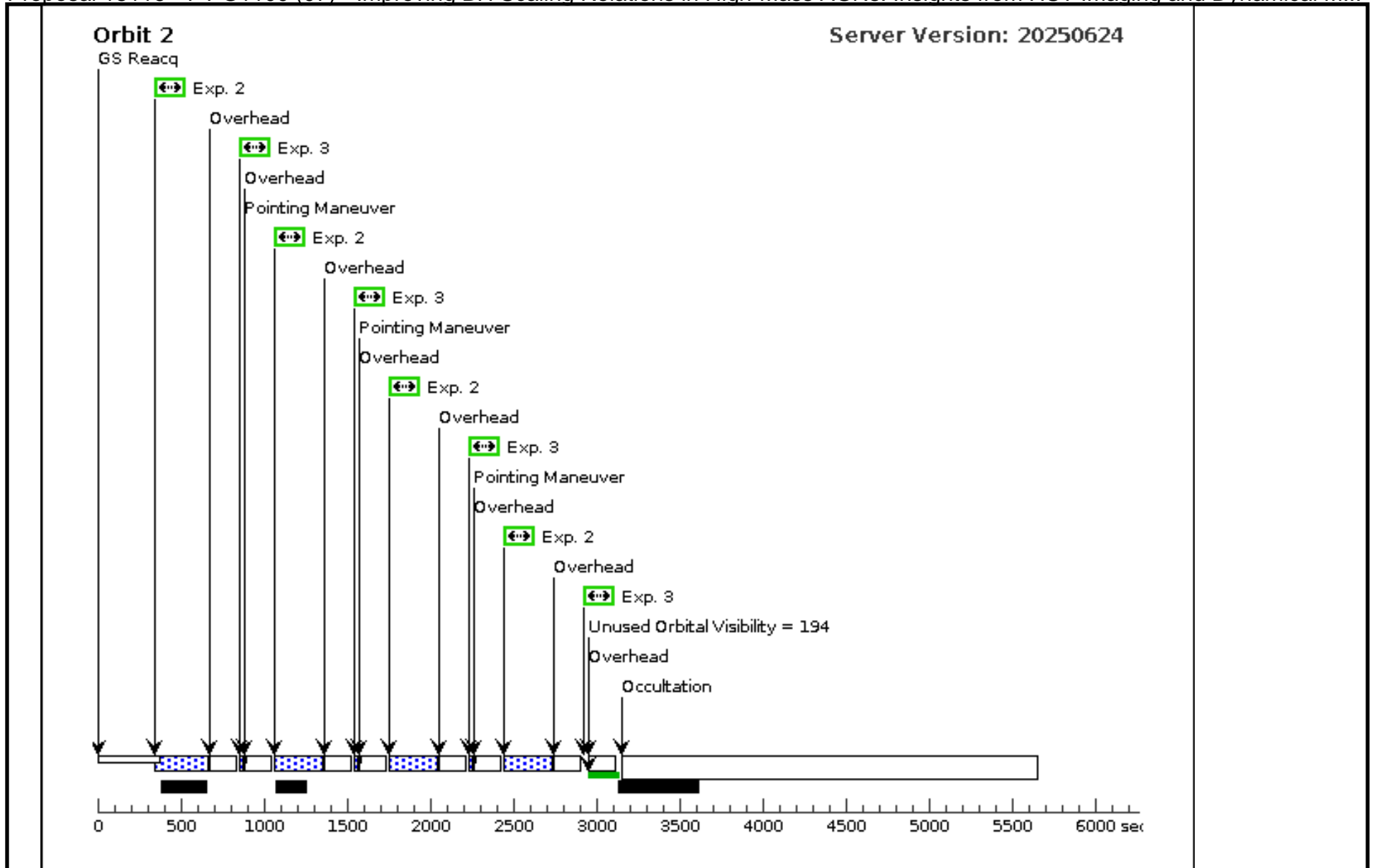


Visit	Proposal 18116, 7-PG1100 (07) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(8)	PG1100+772	RA: 11 04 13.8611 (166.0577546d) Dec: +76 58 58.19 (76.98283d) Equinox: J2000	Proper Motion RA: 0.017 mas/yr Proper Motion Dec: 0.005 mas/yr Epoch of Position: 2000	V=15.72	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i></p>						

Proposal 18116 - 7-PG1100 (07) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical M...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(8) PG1100+772	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 7-PG1100 (07) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(8) PG1100+772	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 7-PG1100 (07) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(8) PG1100+772	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 7-PG1100 (07) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

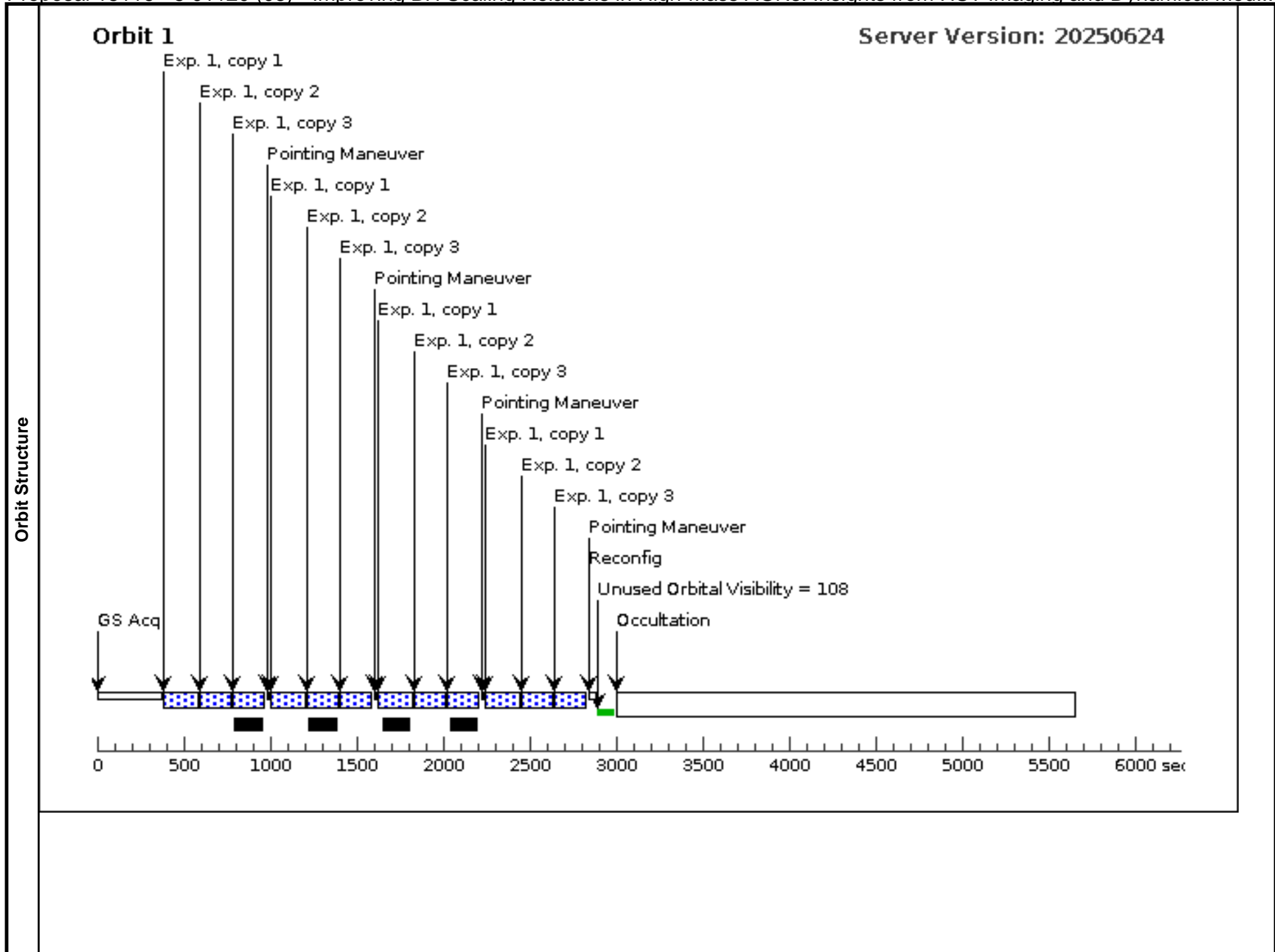


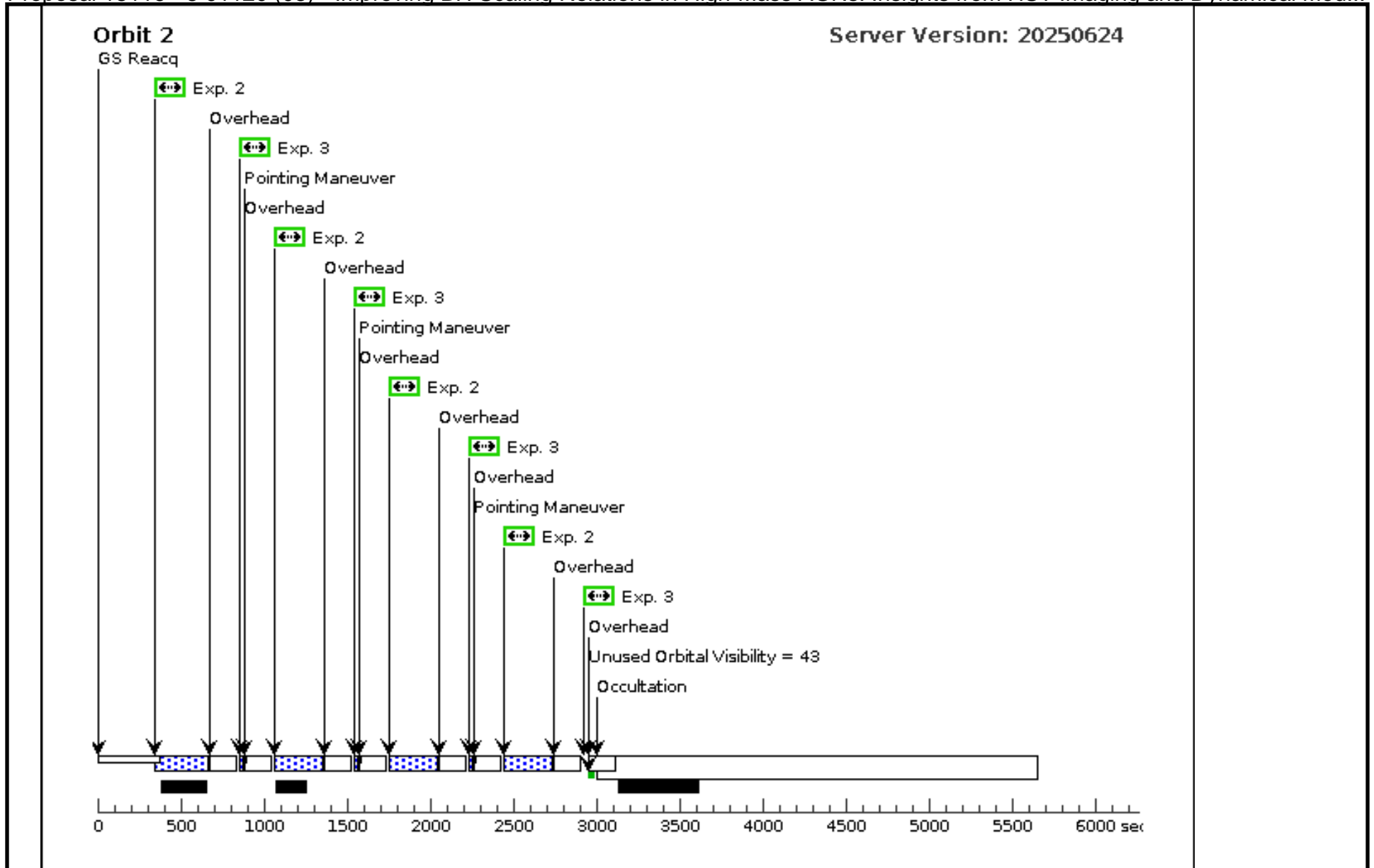


Visit	Proposal 18116, 8-J1120 (08) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(9)	J1120+423	RA: 11 20 7.4313 (170.0309638d) Dec: +42 35 51.39 (42.59761d) Equinox: J2000	Proper Motion RA: 0.084 mas/yr Proper Motion Dec: 0.002 mas/yr Epoch of Position: 2000	V=17.69	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i></p>						

Proposal 18116 - 8-J1120 (08) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical Mod...

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1		(9) J1120+423	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 i n 8-J1120 (08) (1)	174.282148 Secs X 3 (2091.386 Secs)	
									[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)]	[1]
	2		(9) J1120+423	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 i n 8-J1120 (08) (2)	290 Secs (1160 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	
3		(9) J1120+423	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 i n 8-J1120 (08) (2)	20 Secs (80 Secs)		
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]	

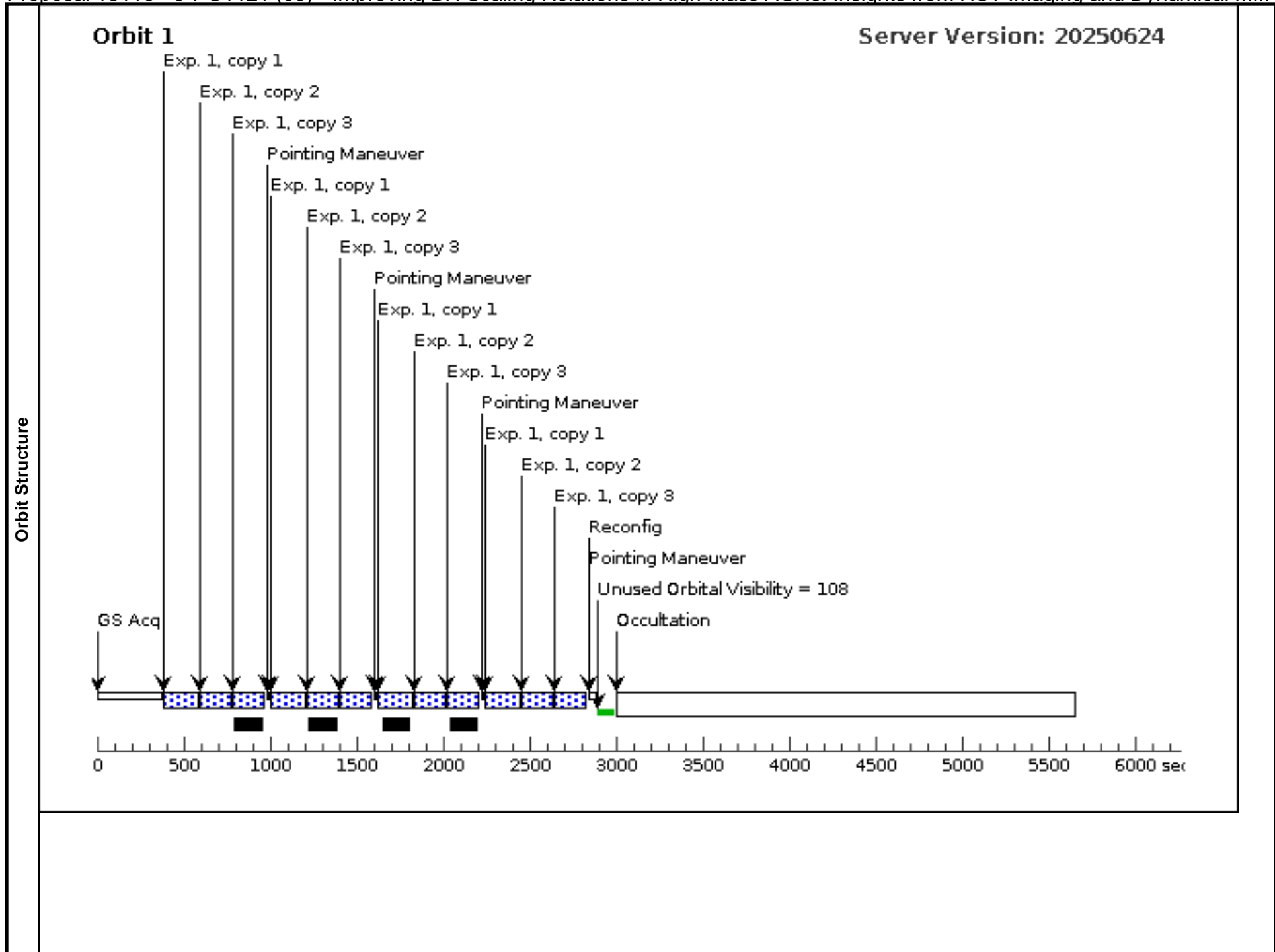


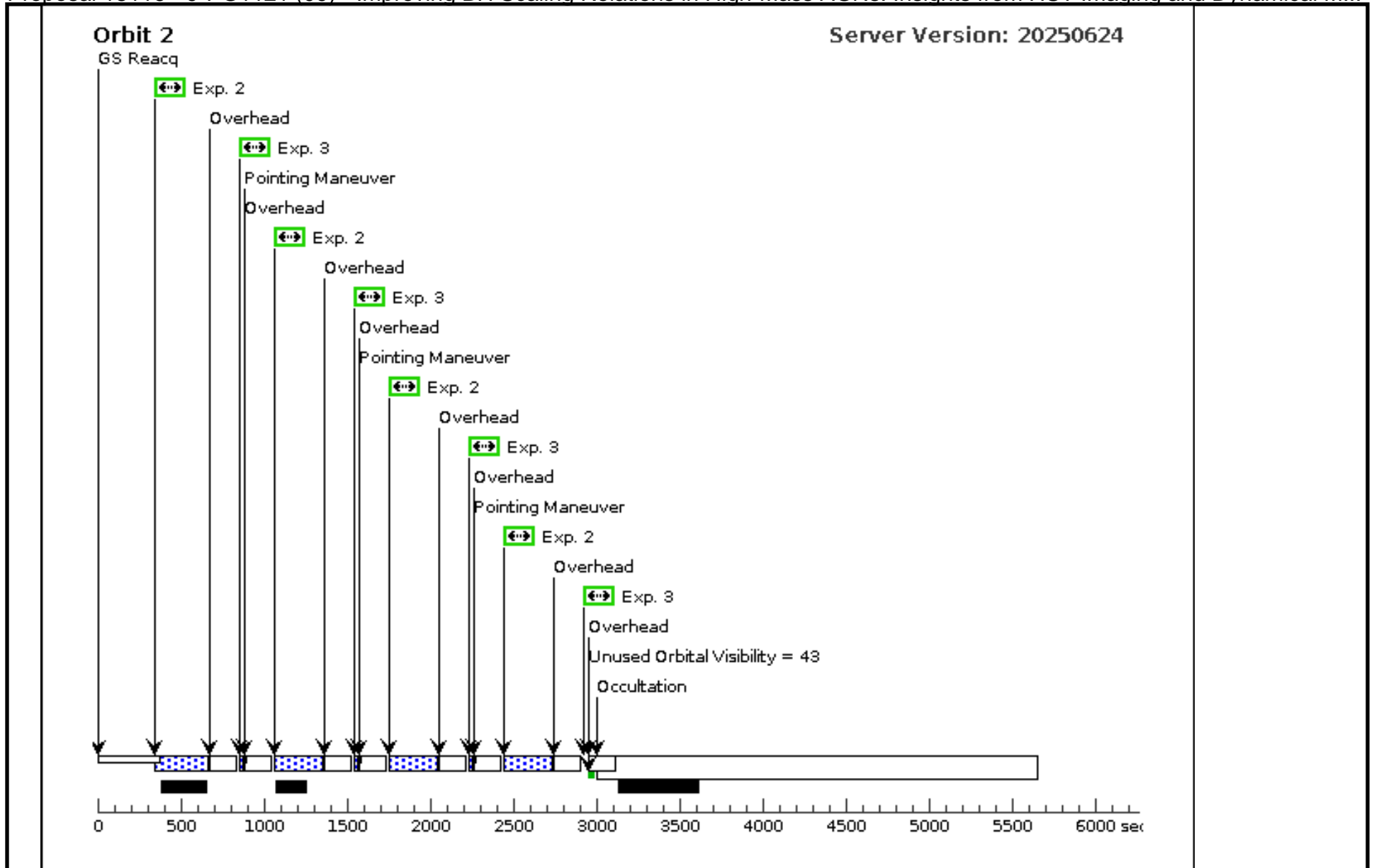


Visit	Proposal 18116, 9-PG1121 (09) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(10)	PG1121+422	RA: 11 24 39.1798 (171.1632492d) Dec: +42 01 45.01 (42.02917d) Equinox: J2000	Proper Motion RA: 0.1199999999999998 mas/yr Proper Motion Dec: 0.032 mas/yr Parallax: 8.75E-5" Epoch of Position: 2000	V=16.28	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[QUASAR]</i></p>						

Proposal 18116 - 9-PG1121 (09) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical M...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(10) PG1121+422	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 9-PG1121 (09) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(10) PG1121+422	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 9-PG1121 (09) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(10) PG1121+422	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 9-PG1121 (09) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

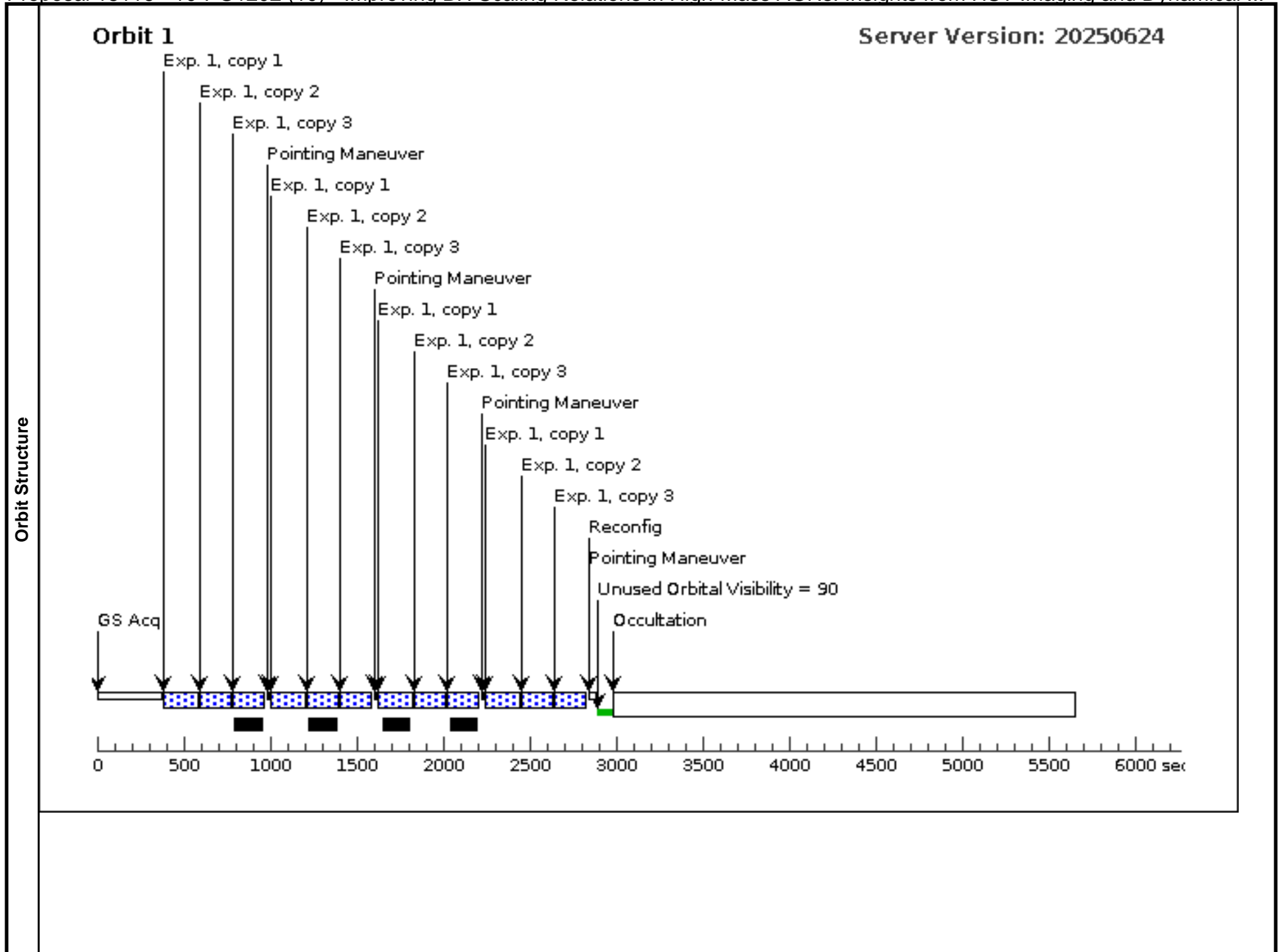


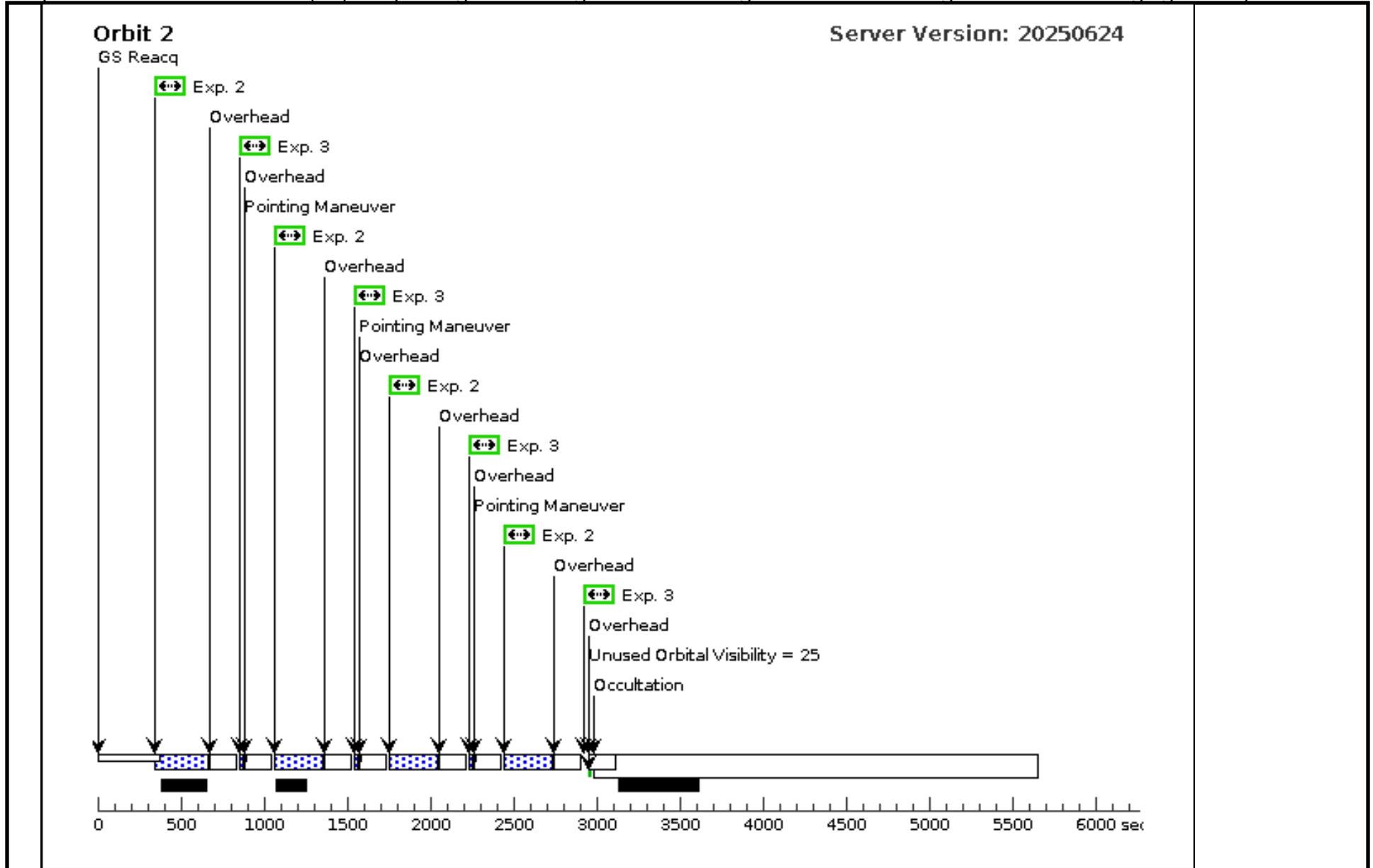


Visit	Proposal 18116, 10-PG1202 (10) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(11)	PG1202+281	RA: 12 04 42.1097 (181.1754571d) Dec: +27 54 11.87 (27.90330d) Equinox: J2000	Proper Motion RA: 0.083 mas/yr Proper Motion Dec: -0.1030000212737359 mas/yr Parallax: 2.249999999999998E-5" Epoch of Position: 2000	V=15.6	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i> <i>Extended=YES</i></p>						

Proposal 18116 - 10-PG1202 (10) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(11) PG1202+281	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 10-PG1202 (10) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(11) PG1202+281	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 10-PG1202 (10) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(11) PG1202+281	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 10-PG1202 (10) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

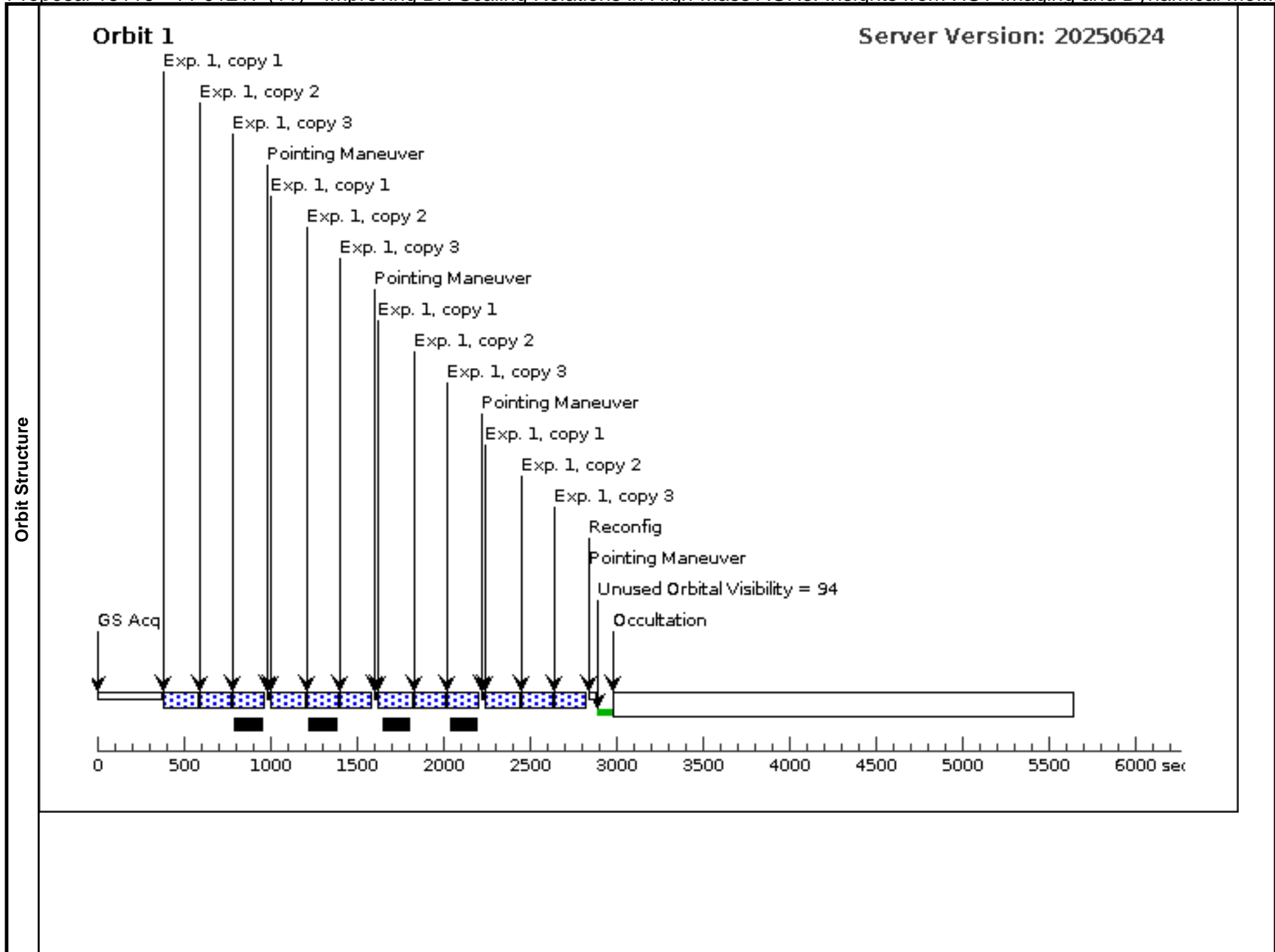


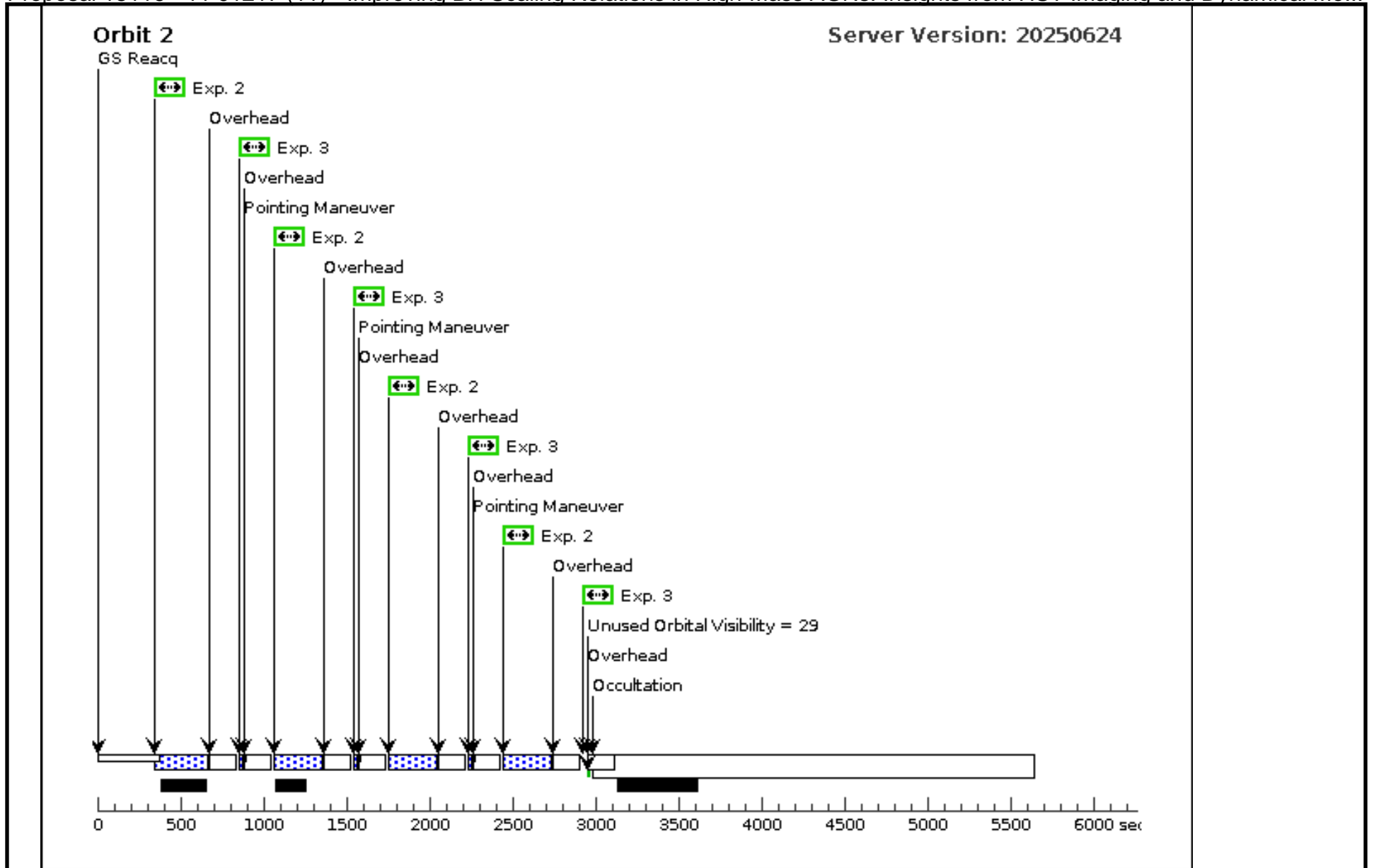


Visit	Proposal 18116, 11-J1217 (11) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(12)	J1217+333	RA: 12 17 52.1640 (184.4673500d) Dec: +33 34 47.28 (33.57980d) Equinox: J2000	Proper Motion RA: 0.11099999999999999999 mas/yr Proper Motion Dec: -0.07200005711638369 mas/yr Parallax: 1.175E-4" Epoch of Position: 2000	V=17.25	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p>Category=GALAXY Description=[QUASAR] Extended=YES</p>						

Proposal 18116 - 11-J1217 (11) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical Mo...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(12) J1217+333	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 i n 11-J1217 (11) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(12) J1217+333	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 i n 11-J1217 (11) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(12) J1217+333	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 i n 11-J1217 (11) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]





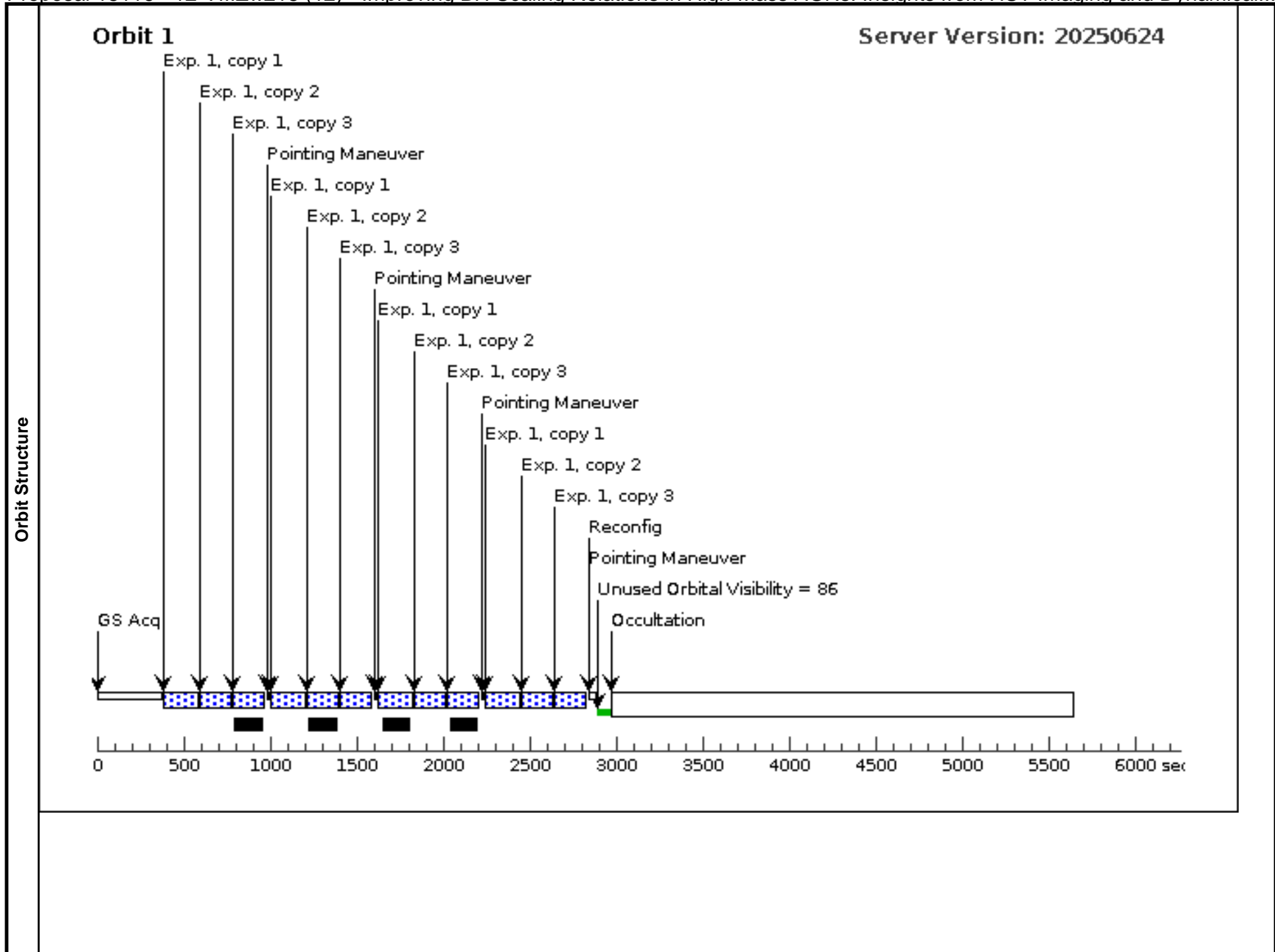
Proposal 18116 - 12-VIIIz218 (12) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical...

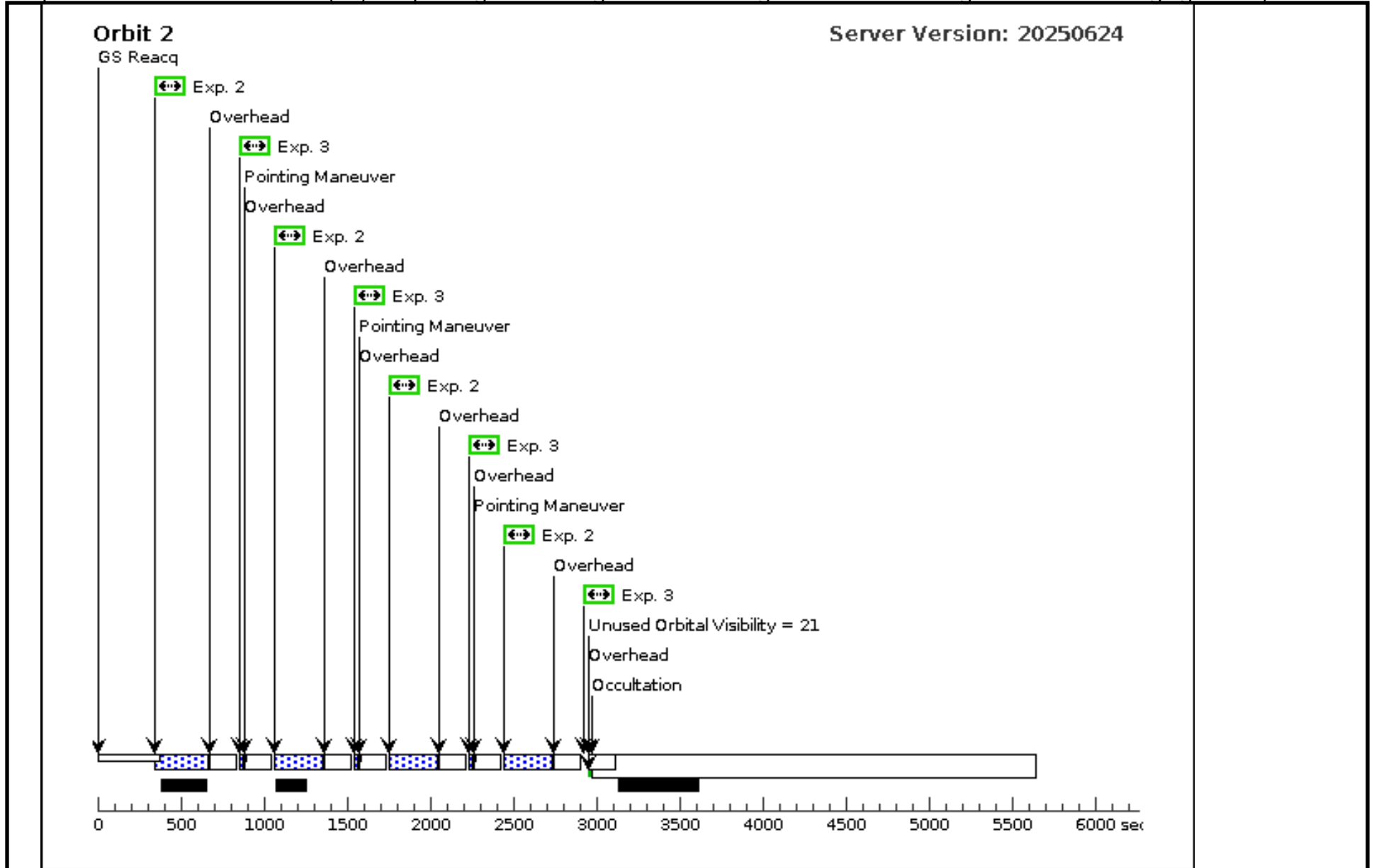
Thu Aug 14 20:05:23 GMT 2025

Visit	Proposal 18116, 12-VIIIz218 (12) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)		
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(13)	VIIIz218	RA: 12 53 37.7126 (193.4071358d) Dec: +21 26 18.22 (21.43839d) Equinox: J2000	Proper Motion RA: -0.052 mas/yr Proper Motion Dec: 0.055 mas/yr Parallax: 4.4E-5" Epoch of Position: 2000	V=16.36	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i></p>						

Proposal 18116 - 12-VIIIz218 (12) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(13) VIIIz218	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 12-VIIIz218 (12) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(13) VIIIz218	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 12-VIIIz218 (12) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(13) VIIIz218	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 12-VIIIz218 (12) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

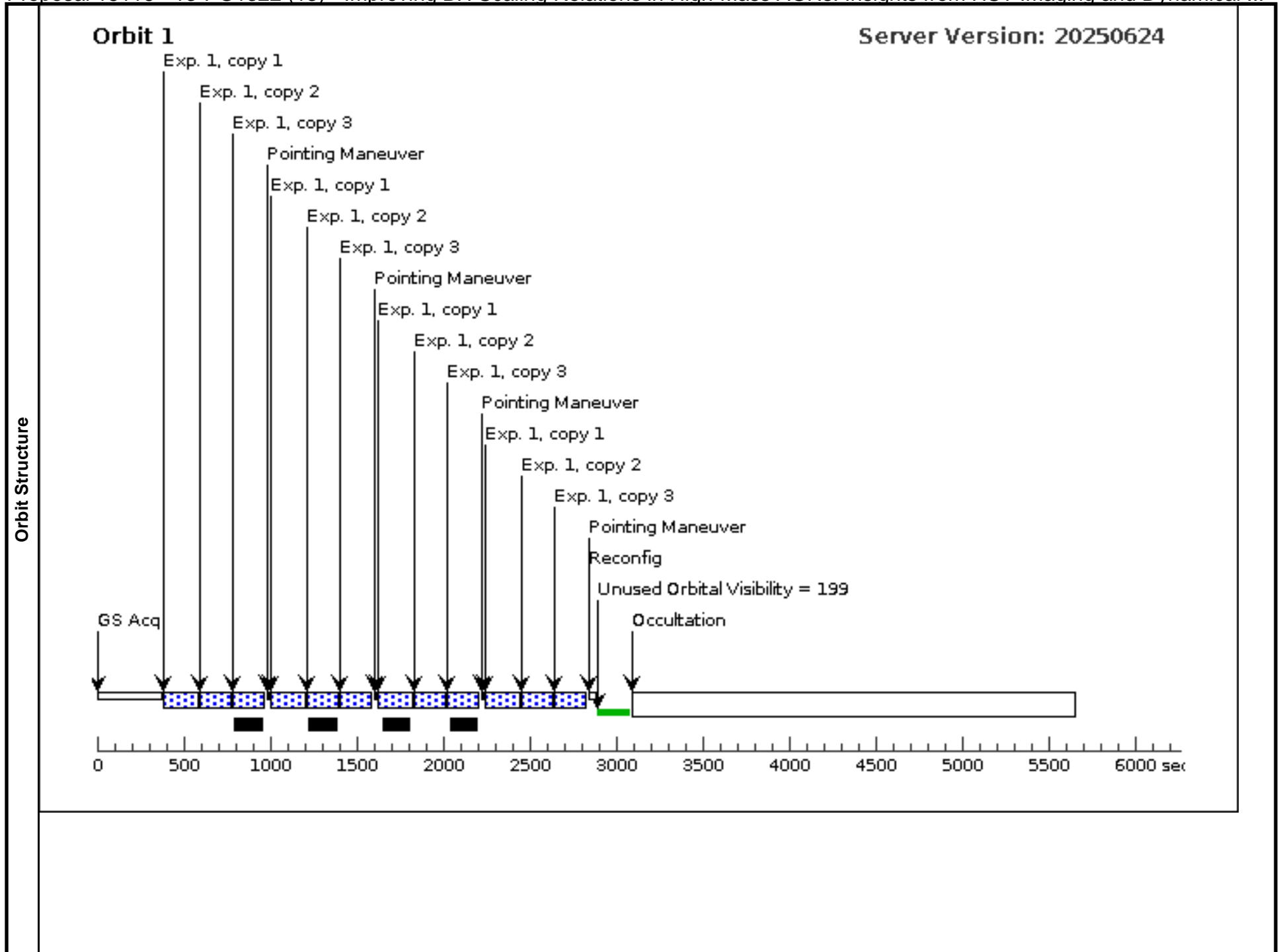


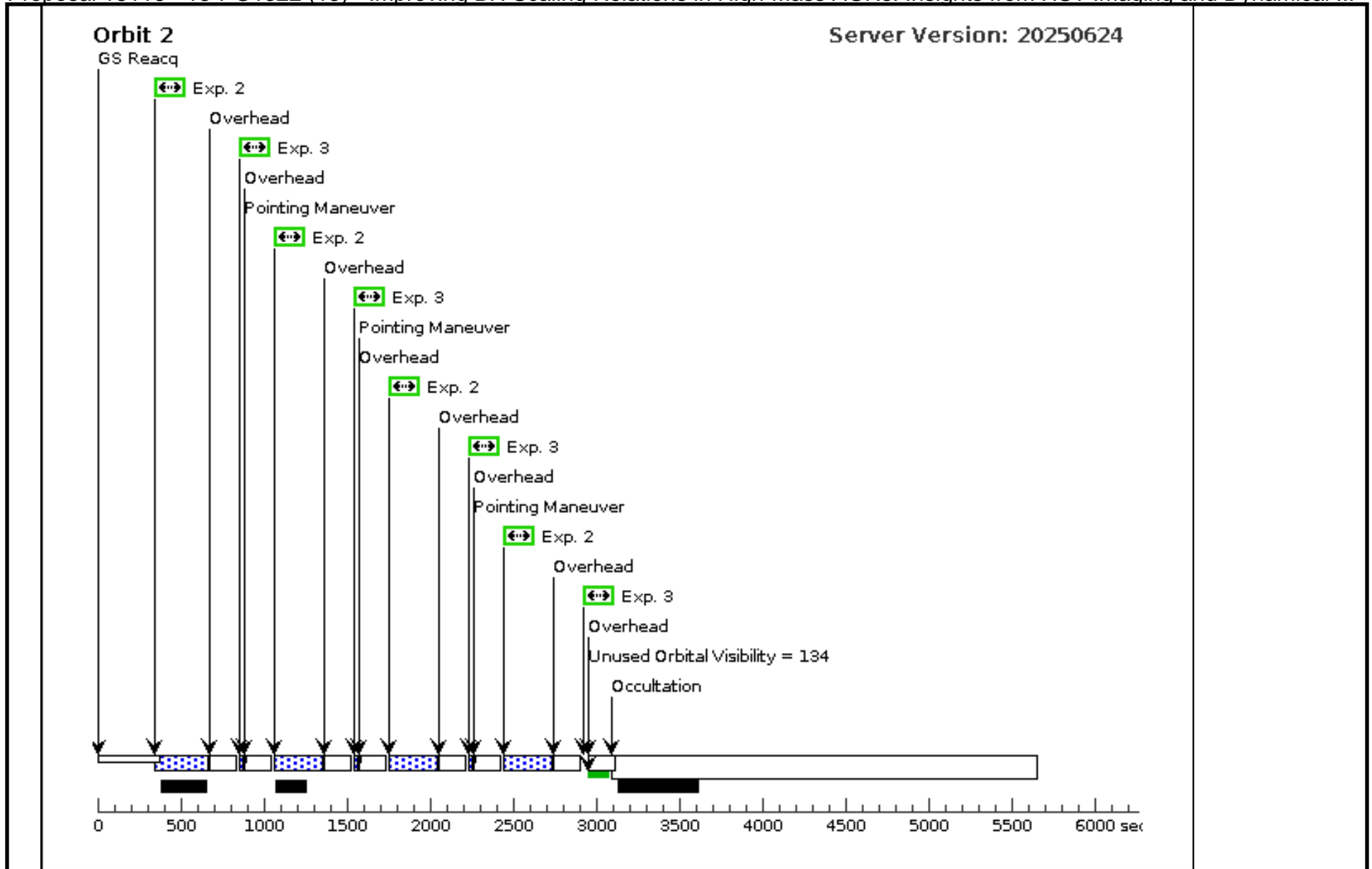


Visit	Proposal 18116, 13-PG1322 (13) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(14)	PG1322+659	RA: 13 23 49.5182 (200.9563258d) Dec: +65 41 48.16 (65.69671d) Equinox: J2000	Proper Motion RA: 0.08 mas/yr Proper Motion Dec: -0.016999956642393954 mas/yr Epoch of Position: 2000	V=15.84	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i></p>						

Proposal 18116 - 13-PG1322 (13) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(14) PG1322+659	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 13-PG1322 (13) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(14) PG1322+659	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 13-PG1322 (13) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(14) PG1322+659	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 13-PG1322 (13) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

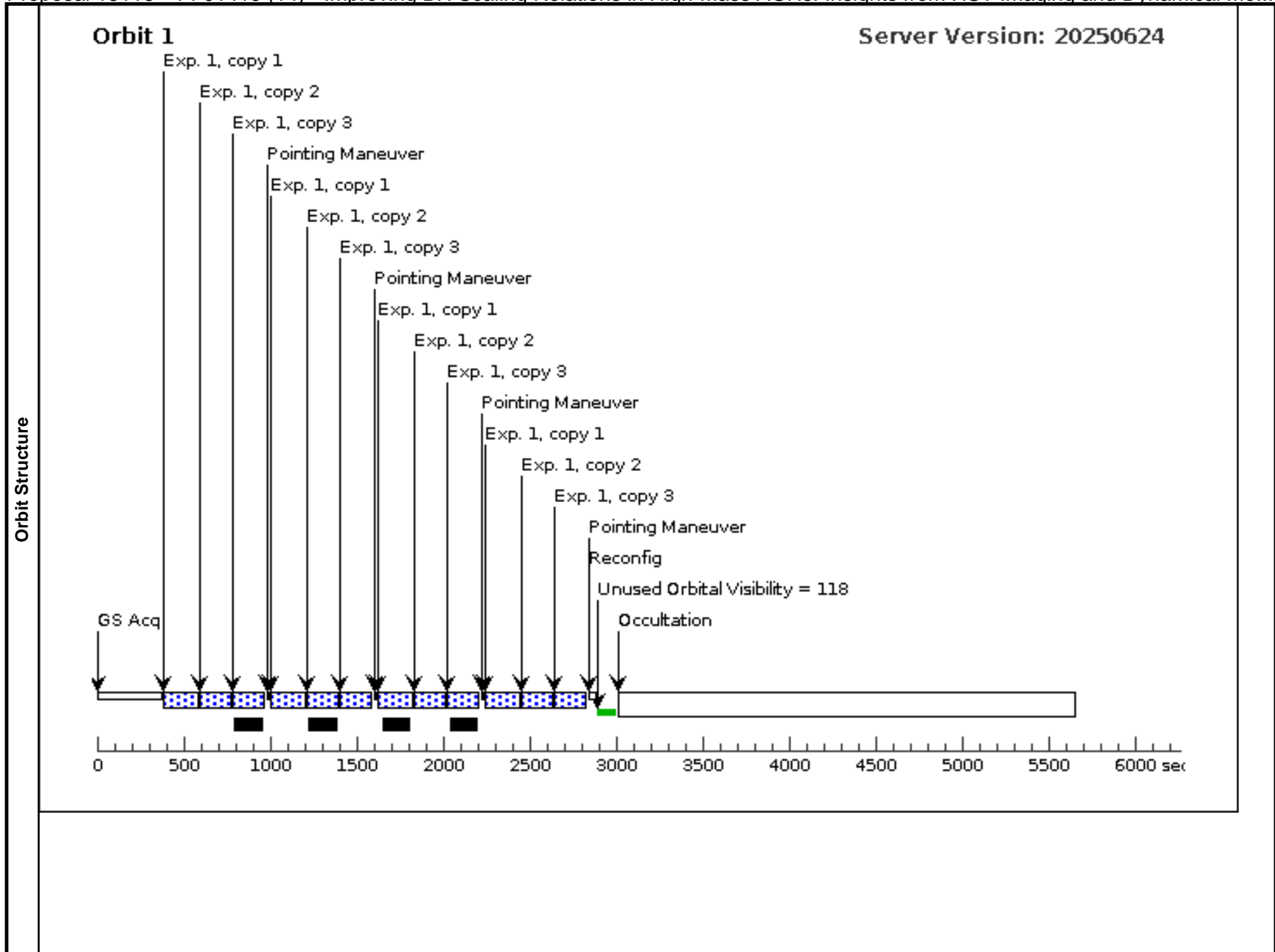


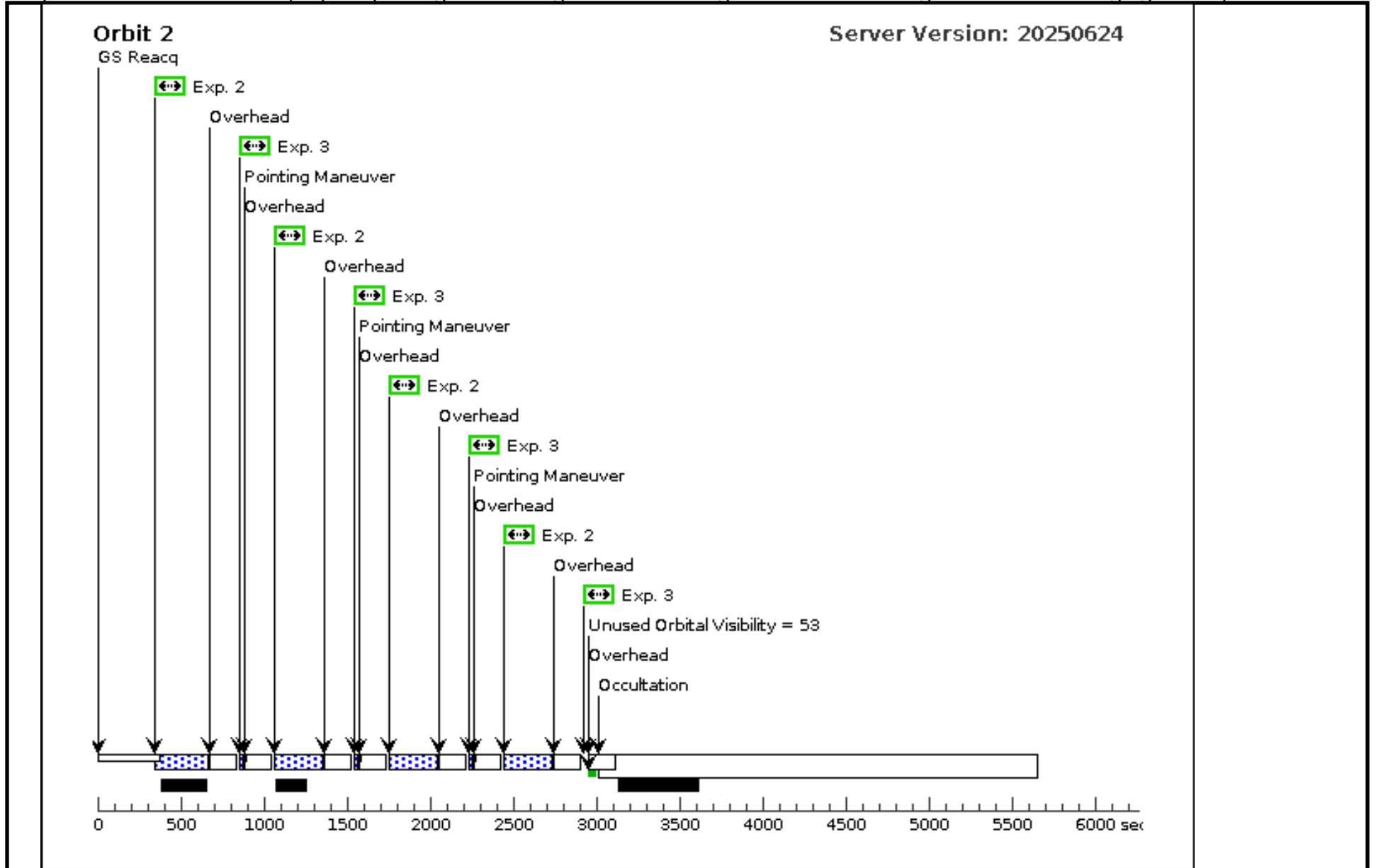


Visit	Proposal 18116, 14-J1415 (14) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(15)	J1415+483	RA: 14 15 35.9425 (213.8997604d) Dec: +48 35 43.59 (48.59544d) Equinox: J2000	Proper Motion RA: -0.053 mas/yr Proper Motion Dec: -0.06999994184297975 mas/yr Epoch of Position: 2000	V=18.12	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i></p>						

Proposal 18116 - 14-J1415 (14) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical Mo...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(15) J1415+483	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 14-J1415 (14) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(15) J1415+483	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 14-J1415 (14) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(15) J1415+483	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 14-J1415 (14) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

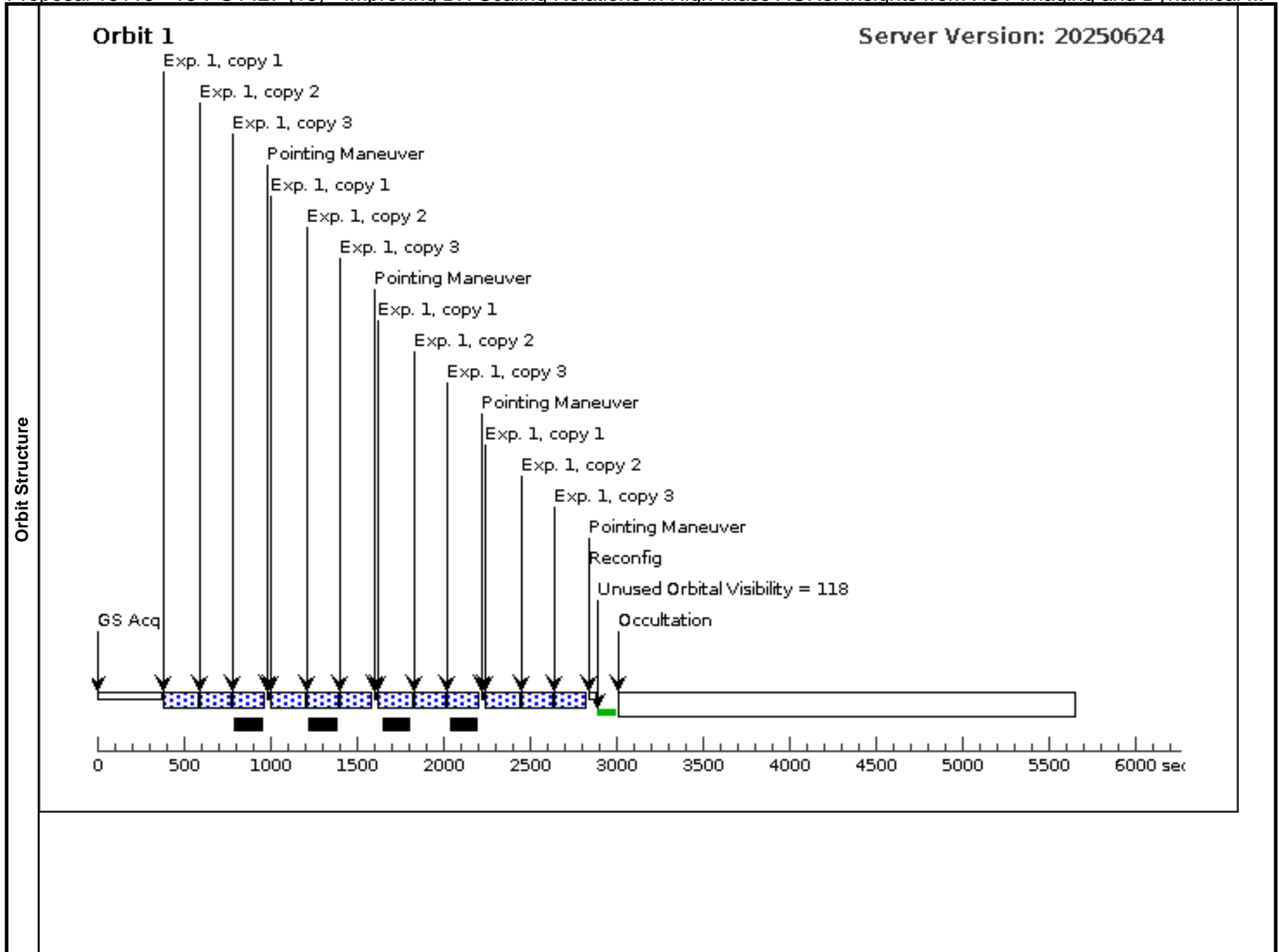


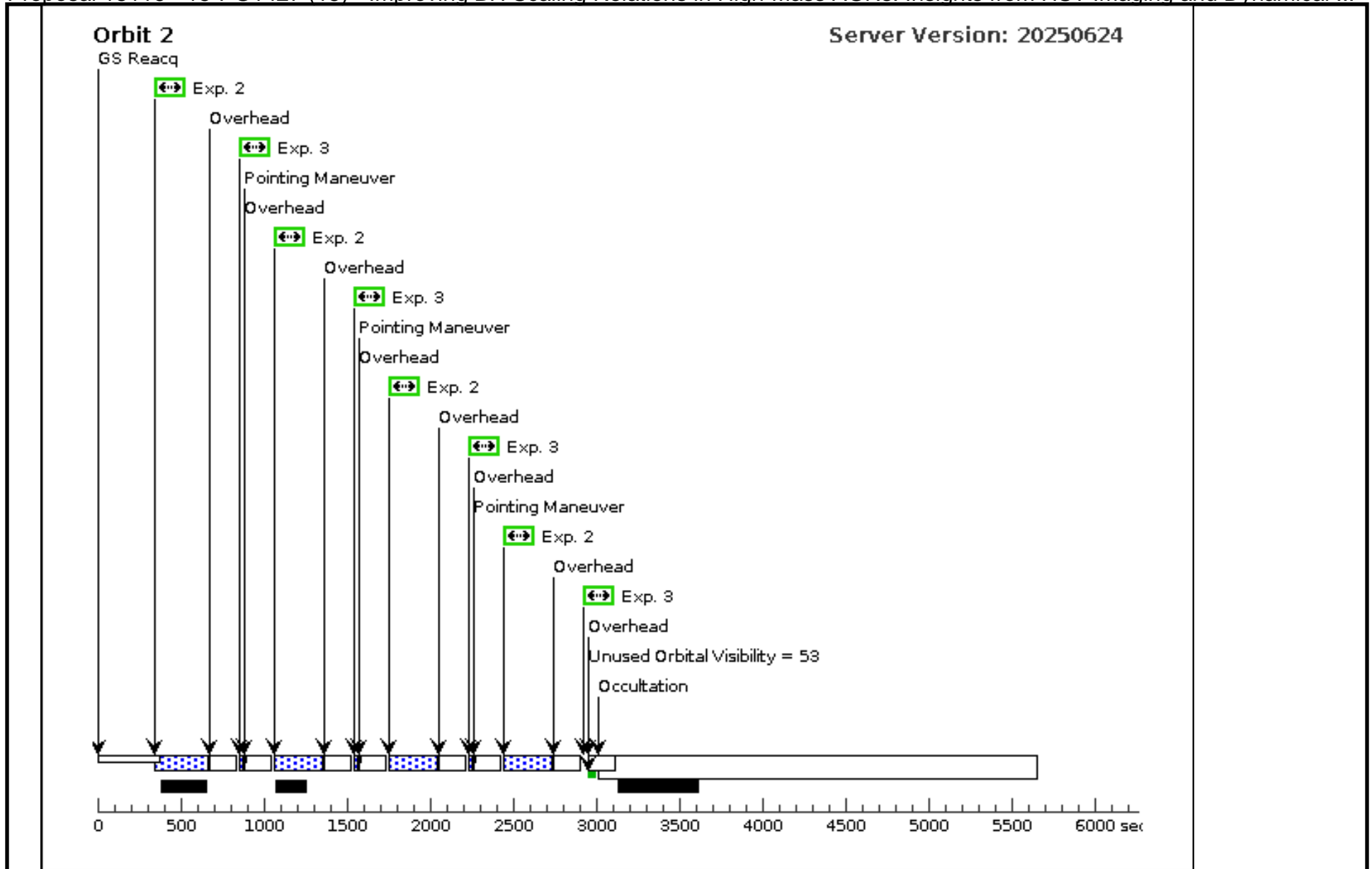


Visit	Proposal 18116, 15-PG1427 (15) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern		Secondary Pattern	
(1)		Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false			(1)
(2)		Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false			(2-3)
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(16)	PG1427+480	RA: 14 29 43.0740 (217.4294750d) Dec: +47 47 26.22 (47.79062d) Equinox: J2000	Proper Motion RA: 0.046 mas/yr Proper Motion Dec: -0.015999899005691987 mas/yr Epoch of Position: 2000	V=16.97	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i></p>						

Proposal 18116 - 15-PG1427 (15) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(16) PG1427+480	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 15-PG1427 (15) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(16) PG1427+480	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 15-PG1427 (15) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(16) PG1427+480	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 15-PG1427 (15) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

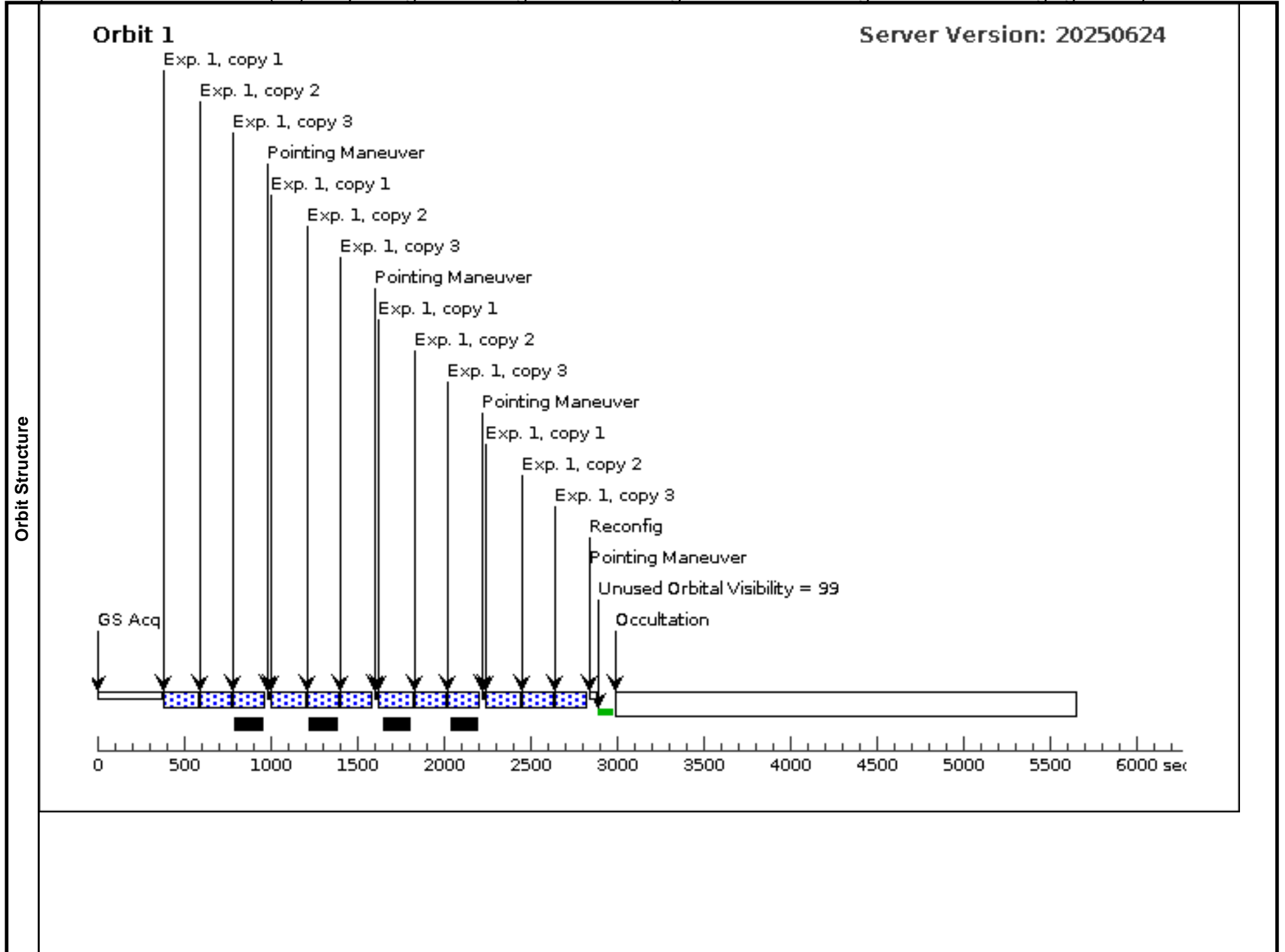


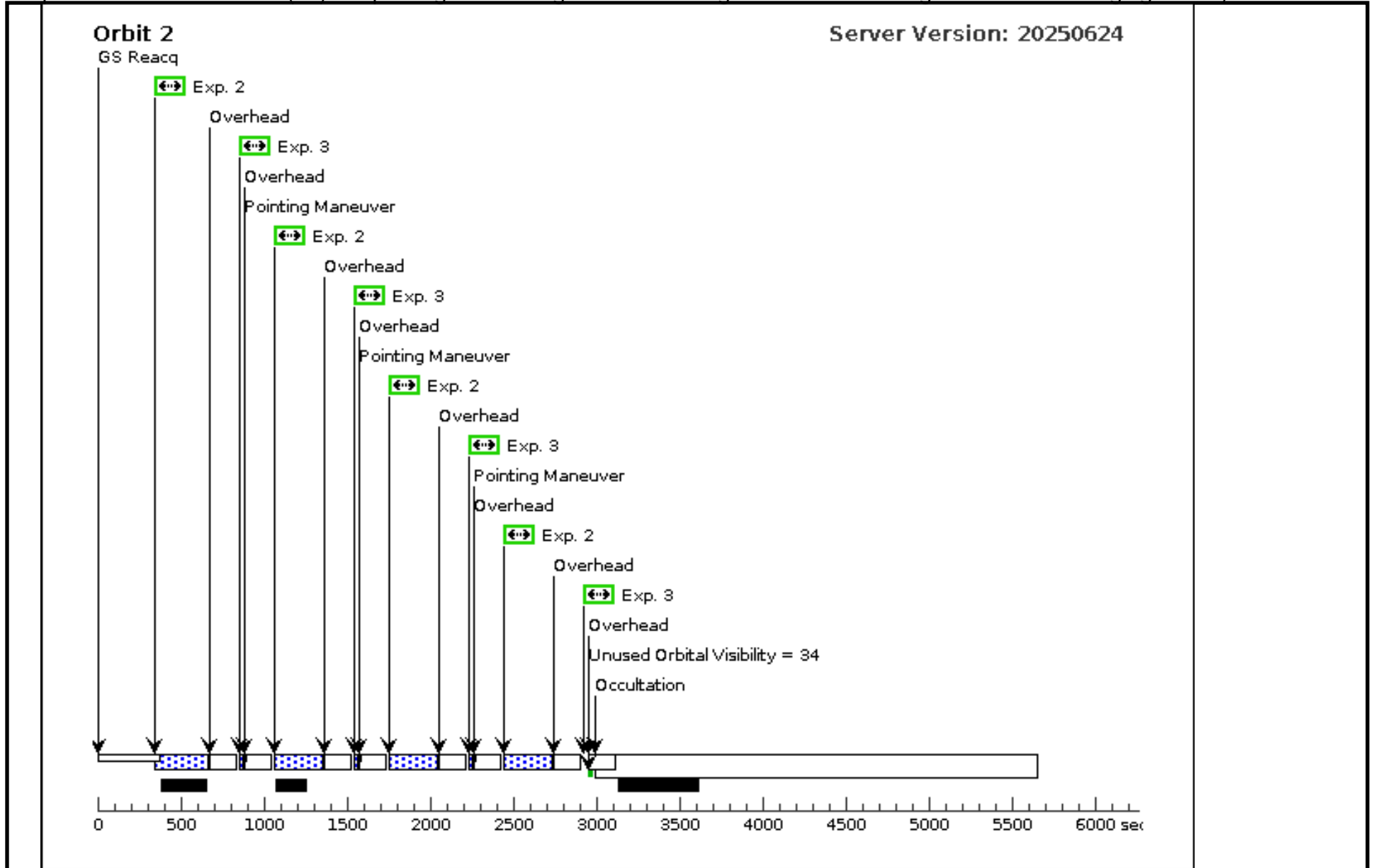


Visit	Proposal 18116, 16-J1456 (16) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)						
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
		(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)			
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous	
	(18)	J1456+380	RA: 14 56 8.6296 (224.0359567d) Dec: +38 00 38.60 (38.01072d) Equinox: J2000	Proper Motion RA: 0.029 mas/yr Proper Motion Dec: 0.1 mas/yr Epoch of Position: 2000	V=17.8	Reference Frame: ICRS	
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i></p>							

Proposal 18116 - 16-J1456 (16) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical Mo...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(18) J1456+380	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 16-J1456 (16) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(18) J1456+380	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 16-J1456 (16) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(18) J1456+380	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 16-J1456 (16) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

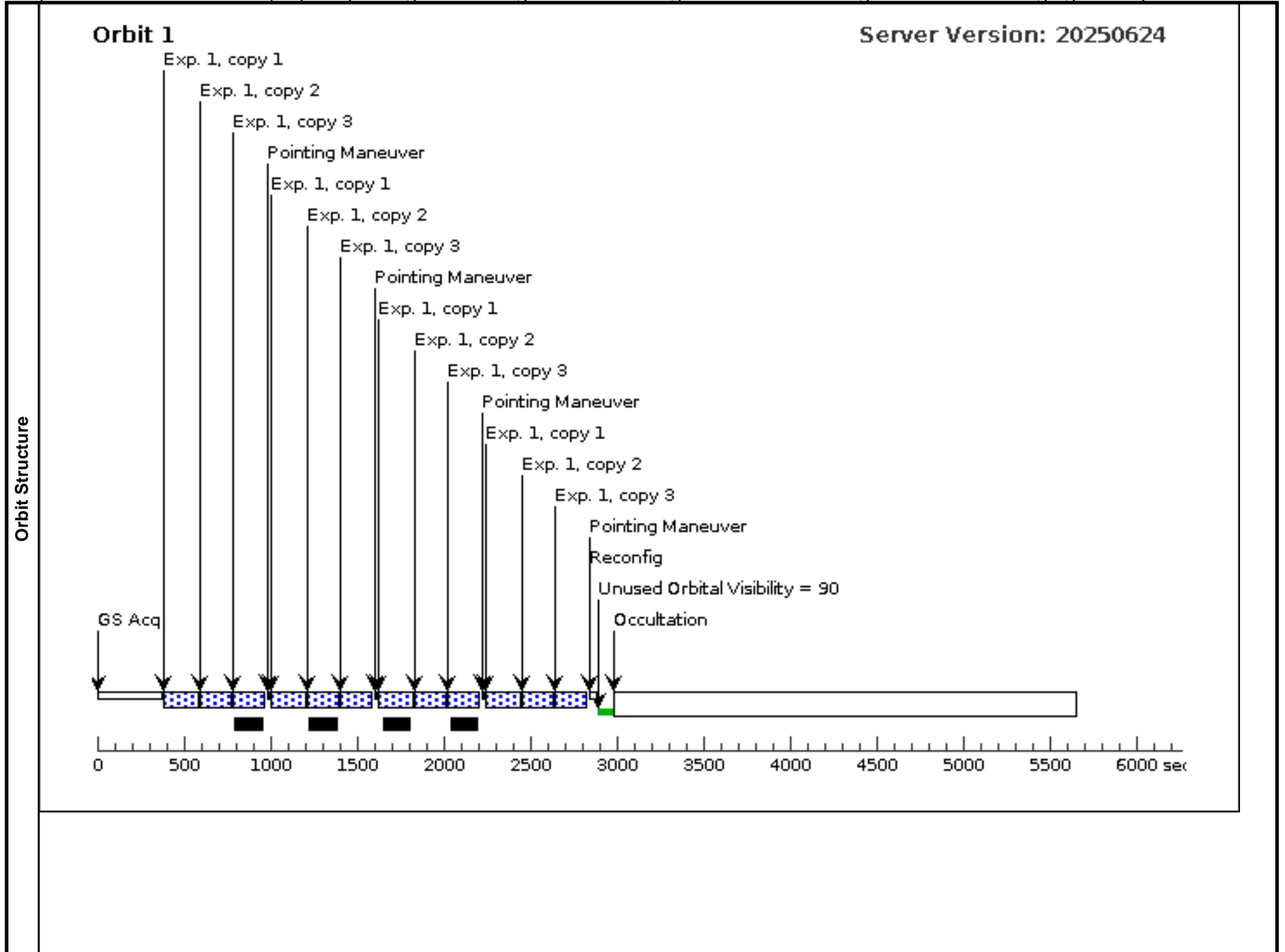


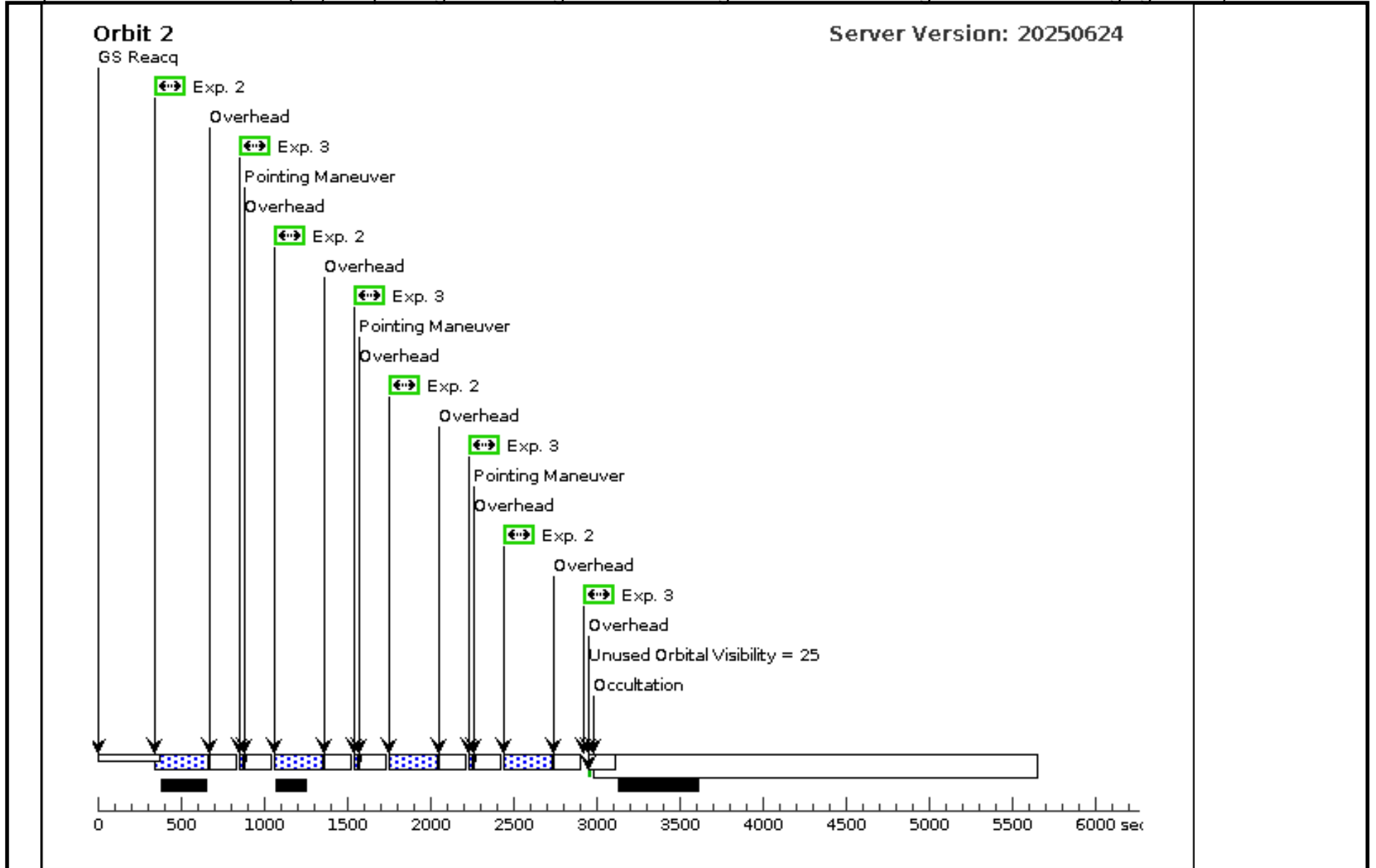


Visit	Proposal 18116, 17-J1526 (17) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(19)	J1526+275	RA: 15 26 24.0303 (231.6001262d) Dec: +27 54 52.14 (27.91448d) Equinox: J2000	Proper Motion RA: 0.045 mas/yr Proper Motion Dec: 0.11500000000000002 mas/yr Epoch of Position: 2000	V=16.89	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[QUASAR]</i></p>						

Proposal 18116 - 17-J1526 (17) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical Mo...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(19) J1526+275	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 17-J1526 (17) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(19) J1526+275	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 17-J1526 (17) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(19) J1526+275	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 17-J1526 (17) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

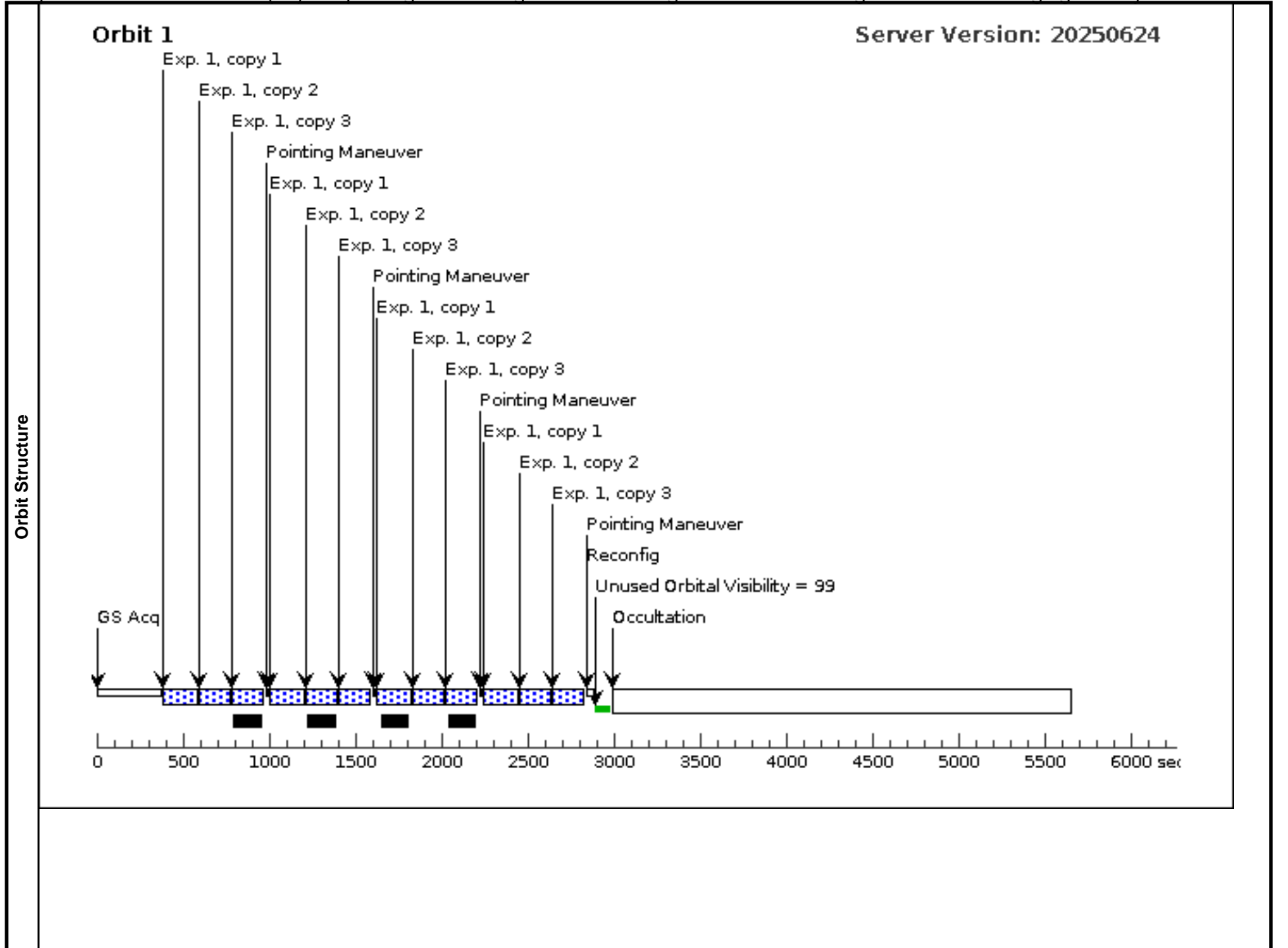


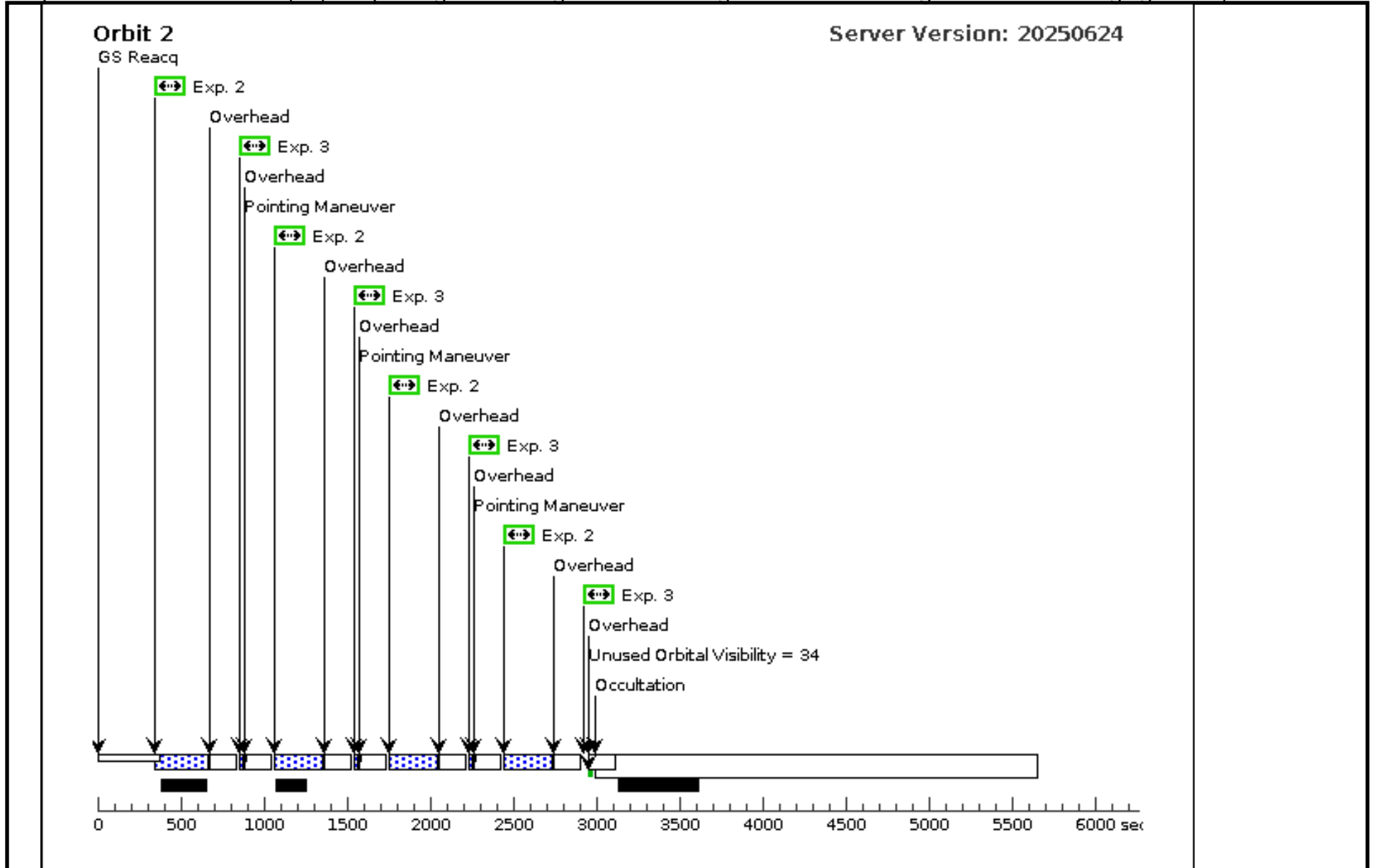


Visit	Proposal 18116, 18-J1540 (18) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(20)	J1540+355	RA: 15 40 4.2498 (235.0177075d) Dec: +35 50 50.13 (35.84726d) Equinox: J2000	Proper Motion RA: 0.041 mas/yr Proper Motion Dec: -0.07600008302688366 mas/yr Parallax: 1.9900000000000003E-5" Epoch of Position: 2000	V=17.42	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[QUASAR]</i></p>						

Proposal 18116 - 18-J1540 (18) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical Mo...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(20) J1540+355	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 18-J1540 (18) (1)	174.282148 Secs X 3 (2091.386 Secs)	
								[==>(Pattern 1, Copy 1)] [==>(Pattern 1, Copy 2)] [==>(Pattern 1, Copy 3)] [==>(Pattern 2, Copy 1)] [==>(Pattern 2, Copy 2)] [==>(Pattern 2, Copy 3)] [==>(Pattern 3, Copy 1)] [==>(Pattern 3, Copy 2)] [==>(Pattern 3, Copy 3)] [==>(Pattern 4, Copy 1)] [==>(Pattern 4, Copy 2)] [==>(Pattern 4, Copy 3)]	[1]
	2	(20) J1540+355	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 18-J1540 (18) (2)	290 Secs (1160 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]
	3	(20) J1540+355	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 18-J1540 (18) (2)	20 Secs (80 Secs)	
								[==>(Pattern 1)] [==>(Pattern 2)] [==>(Pattern 3)] [==>(Pattern 4)]	[2]

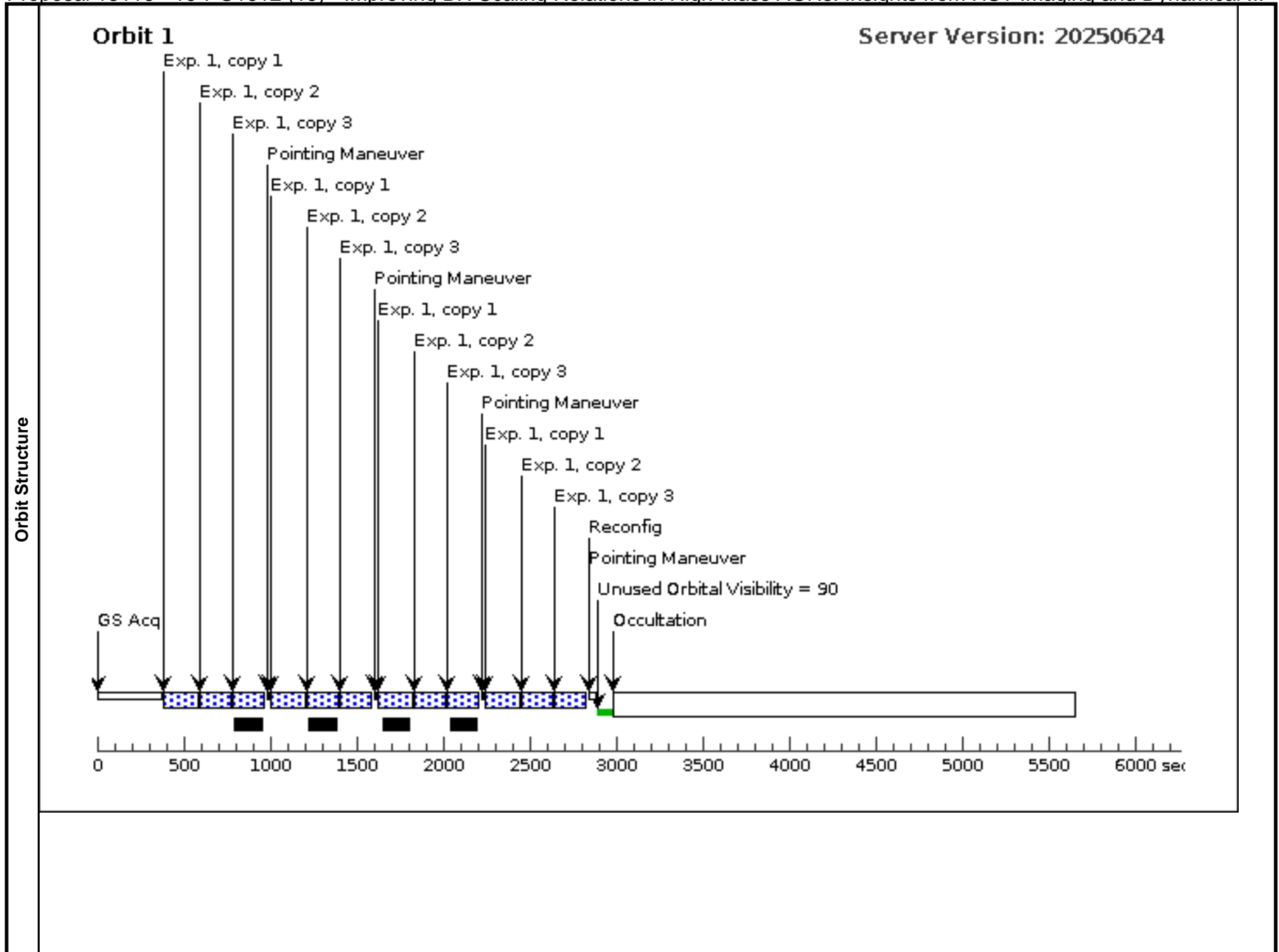


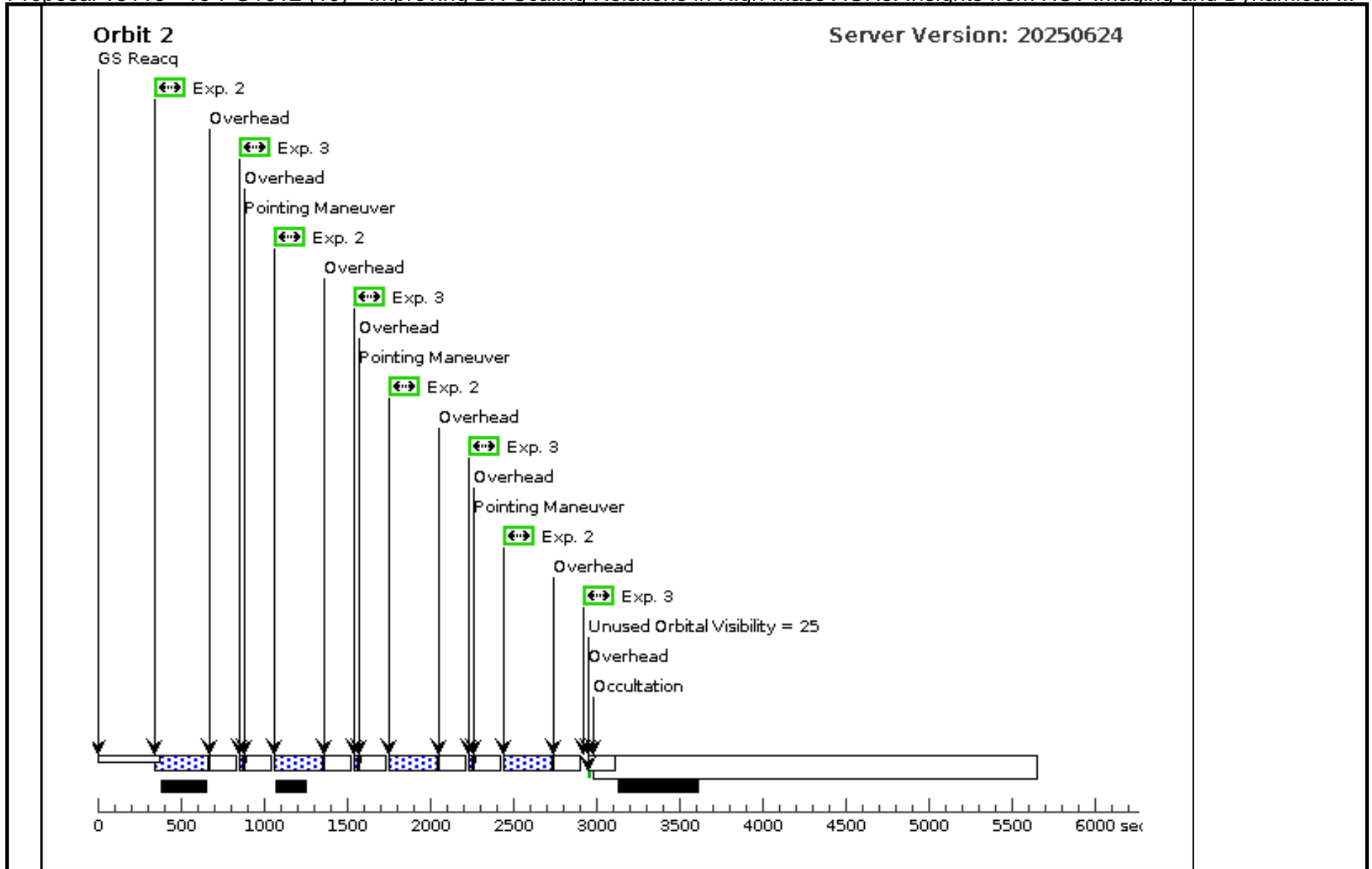


Visit	Proposal 18116, 19-PG1612 (19) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(21)	PG1612+261	RA: 16 14 13.2050 (243.5550208d) Dec: +26 04 16.22 (26.07117d) Equinox: J2000	Proper Motion RA: -0.01 mas/yr Proper Motion Dec: 0.092 mas/yr Epoch of Position: 2000	V=16.5	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i></p>						

Proposal 18116 - 19-PG1612 (19) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(21) PG1612+261	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 19-PG1612 (19) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(21) PG1612+261	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 19-PG1612 (19) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(21) PG1612+261	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 19-PG1612 (19) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

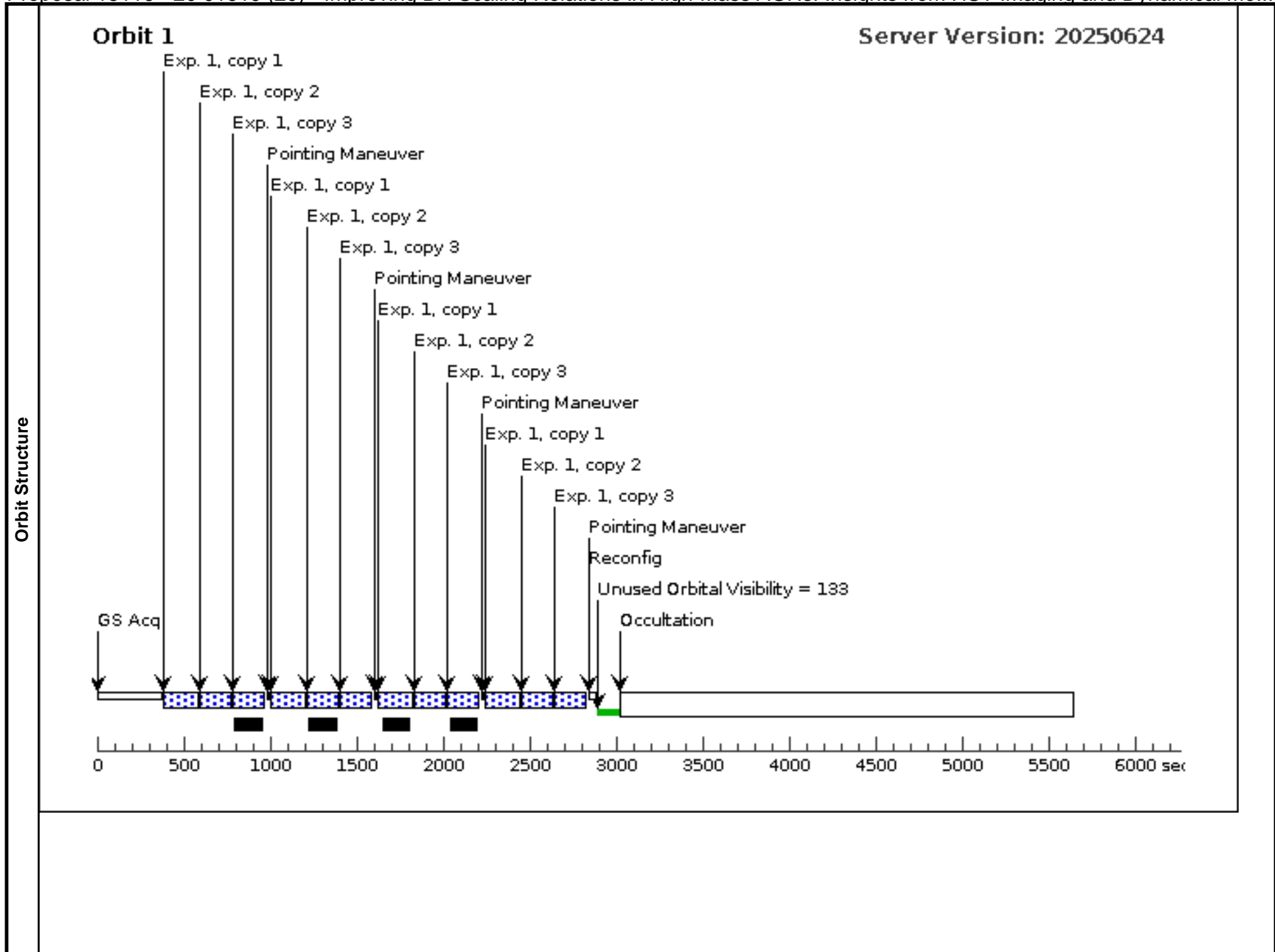


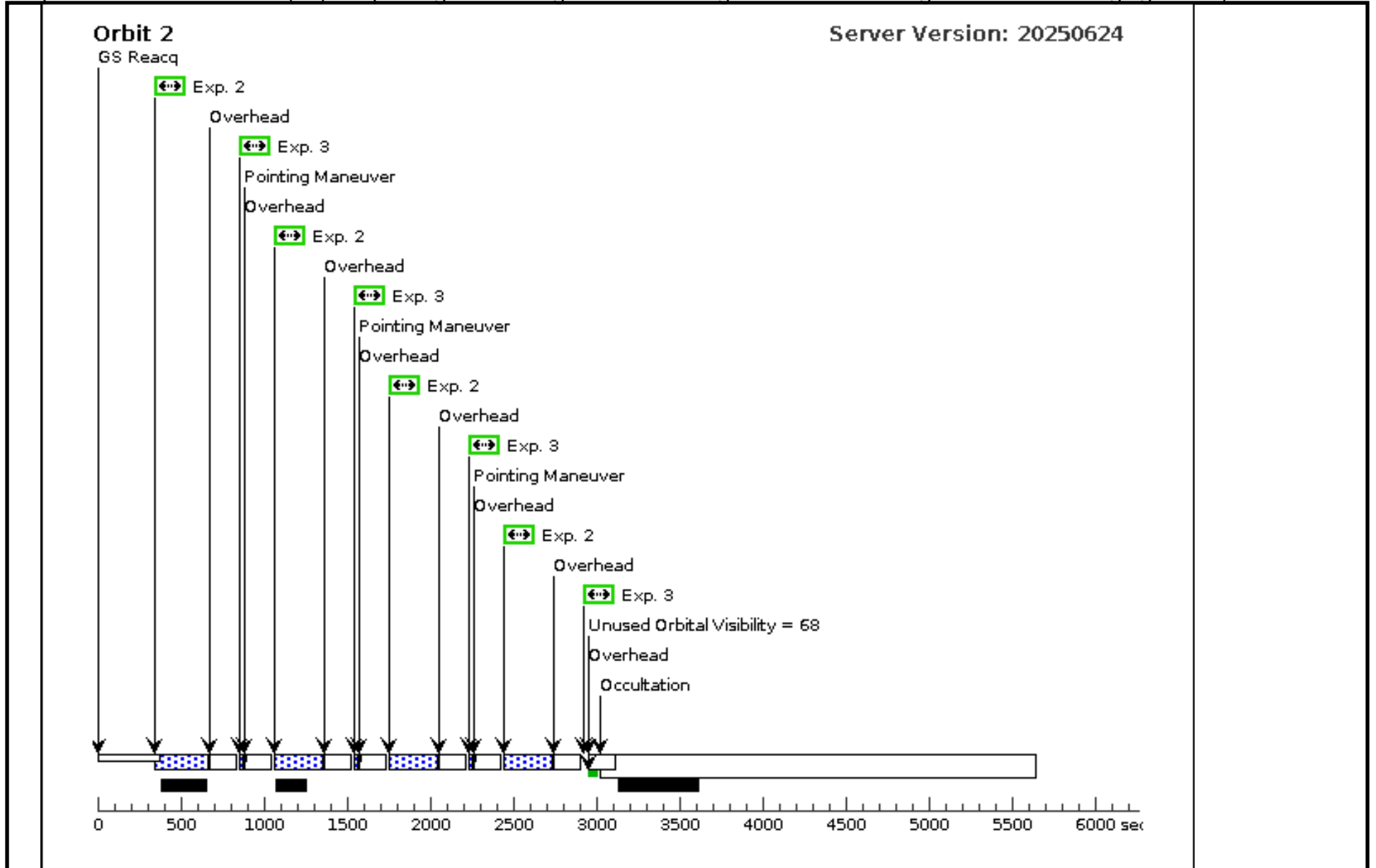


Visit	Proposal 18116, 20-J1619 (20) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(22)	J1619+501	RA: 16 19 11.2461 (244.7968587d) Dec: +50 11 9.18 (50.18588d) Equinox: J2000	Proper Motion RA: 0.037 mas/yr Proper Motion Dec: 0.049 mas/yr Epoch of Position: 2000	V=17.75	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i> <i>Description=[QUASAR]</i></p>						

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#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(22) J1619+501	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 20-J1619 (20) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(22) J1619+501	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 20-J1619 (20) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(22) J1619+501	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F689M	FLASH=20		Pattern 2, Exps 2-3 in 20-J1619 (20) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

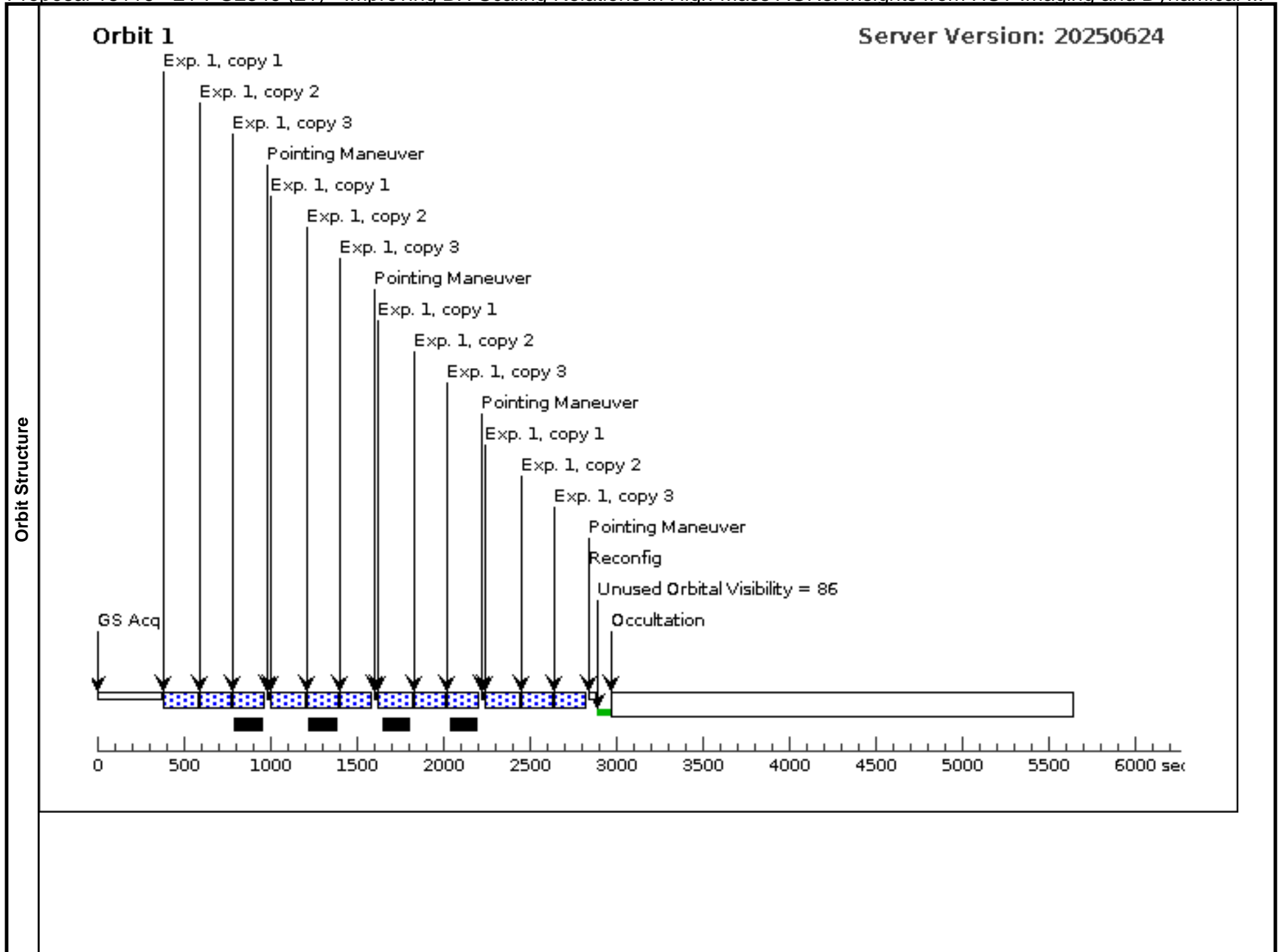


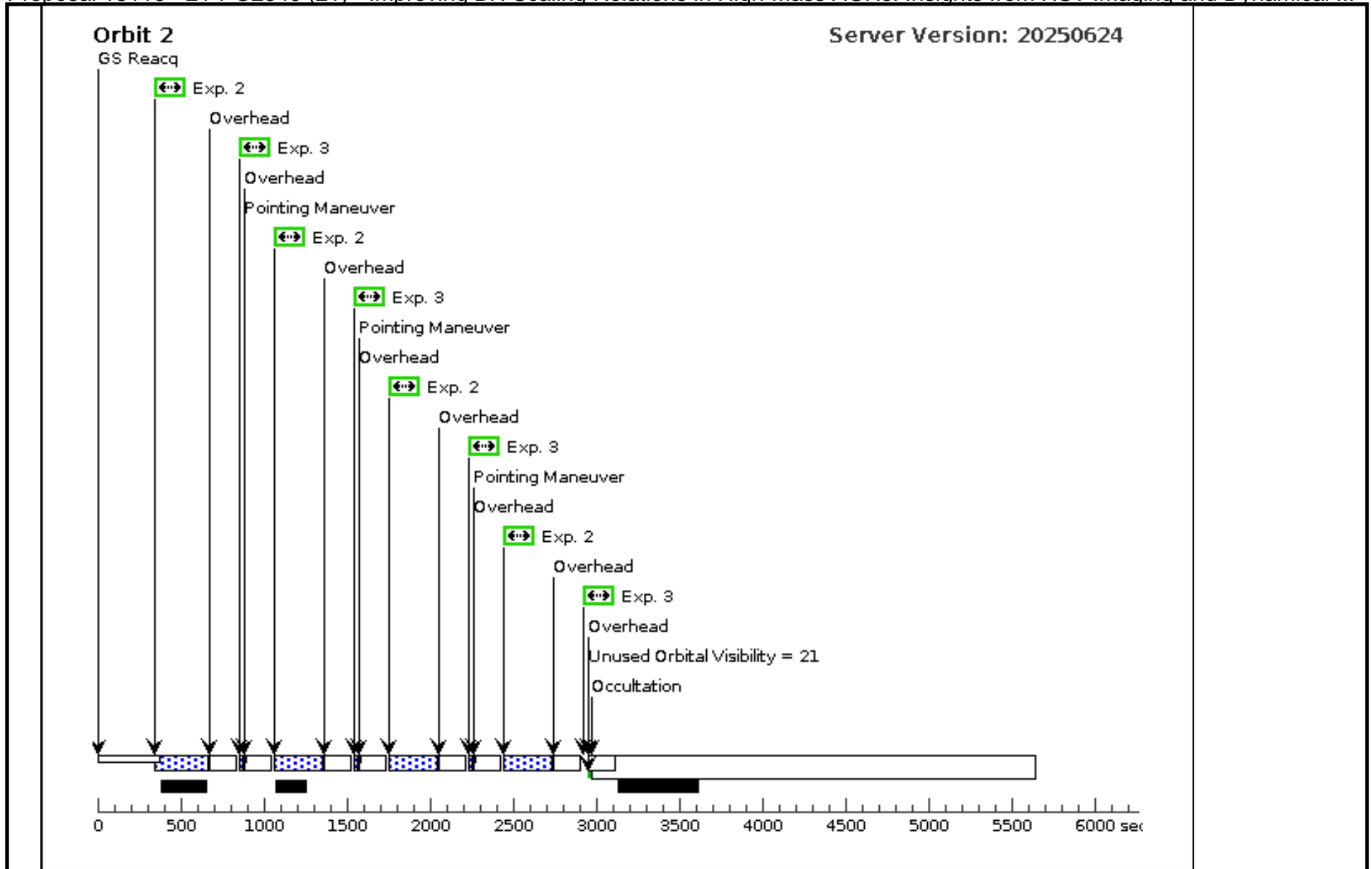


Visit	Proposal 18116, 21-PG2349 (21) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
	Patterns	#	Primary Pattern	Secondary Pattern	Exposures	
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(23)	PG2349-014	RA: 23 51 56.1225 (357.9838438d) Dec: -01 09 13.32 (-1.15370d) Equinox: J2000	Proper Motion RA: 0.12199999999999998 mas/yr Proper Motion Dec: 0.01399999999999999 mas/yr Epoch of Position: 2000	V=16.59	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p>Category=GALAXY Description=[QUASAR] Extended=YES</p>						

Proposal 18116 - 21-PG2349 (21) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(23) PG2349-014	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 21-PG2349 (21) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(23) PG2349-014	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 21-PG2349 (21) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(23) PG2349-014	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 21-PG2349 (21) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]





Visit	Proposal 18116, 22-PG1440 (22) Diagnostic Status: No Diagnostics Scientific Instruments: WFC3/IR, WFC3/UVIS Special Requirements: (none)					
Patterns	#	Primary Pattern	Secondary Pattern	Exposures		
	(1)	Pattern Type=WFC3-IR-DITHER-BOX-MIN Purpose=DITHER Number Of Points=4 Point Spacing=0.572 Line Spacing=0.365	Coordinate Frame=POS-TARG Pattern Orientation=18.528 Angle Between Sides=74.653 Center Pattern=false		(1)	
	(2)	Pattern Type=WFC3-UVIS-DITHER-BOX Purpose=DITHER Number Of Points=4 Point Spacing=0.173 Line Spacing=0.112	Coordinate Frame=POS-TARG Pattern Orientation=23.884 Angle Between Sides=81.785 Center Pattern=false		(2-3)	
Fixed Targets	#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
	(24)	PG1440+356	RA: 14 42 7.4714 (220.5311308d) Dec: +35 26 22.94 (35.43971d) Equinox: J2000	Proper Motion RA: 0.054 mas/yr Proper Motion Dec: -0.015000046005297918 mas/yr Epoch of Position: 2000	V=14.58	Reference Frame: ICRS
<p><i>Comments: This object was generated by the targetselector and retrieved from the SIMBAD database.</i></p> <p><i>SIMBAD listed proper motion for this target. When retrieving targets with PM from SIMBAD, APT requests the coordinates be calculated with an epoch of the year 2000. Do not modify this epoch. Always review coordinates using the Target Confirmation tool, which graphically displays the PM.</i></p> <p><i>Category=GALAXY</i></p> <p><i>Description=[QUASAR]</i></p>						

Proposal 18116 - 22-PG1440 (22) - Improving BH Scaling Relations in High-Mass AGNs: Insights from HST Imaging and Dynamical ...

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
Exposures	1	(24) PG1440+356	WFC3/IR, MULTIACCUM, IRSUB512	F160W	NSAMP=12; SAMP-SEQ=STEP2 5		Pattern 1, Exps 1-1 in 22-PG1440 (22) (1)	174.282148 Secs X 3 (2091.386 Secs) [=>(Pattern 1, Copy 1)] [=>(Pattern 1, Copy 2)] [=>(Pattern 1, Copy 3)] [=>(Pattern 2, Copy 1)] [=>(Pattern 2, Copy 2)] [=>(Pattern 2, Copy 3)] [=>(Pattern 3, Copy 1)] [=>(Pattern 3, Copy 2)] [=>(Pattern 3, Copy 3)] [=>(Pattern 4, Copy 1)] [=>(Pattern 4, Copy 2)] [=>(Pattern 4, Copy 3)]	[1]
	2	(24) PG1440+356	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 22-PG1440 (22) (2)	290 Secs (1160 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]
	3	(24) PG1440+356	WFC3/UVIS, ACCUM, UVIS1-2K2A-SUB	F621M	FLASH=20		Pattern 2, Exps 2-3 in 22-PG1440 (22) (2)	20 Secs (80 Secs) [=>(Pattern 1)] [=>(Pattern 2)] [=>(Pattern 3)] [=>(Pattern 4)]	[2]

