12102 - Through a Lens, Darkly - New Constraints on the Fundamental Components of the Cosmos

Cycle: 18, Proposal Category: GO

(Treasury)

(Availability Mode: SUPPORTED)

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VISITS

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
A0	(1) MS2137-2353 (3) MS2137-2353-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 21:38:53.0	yes
A2	(1) MS2137-2353 (2) MS2137-2353-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 21:39:06.0	yes
A3	(1) MS2137-2353 (3) MS2137-2353-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 21:39:17.0	yes
A4	(1) MS2137-2353 (2) MS2137-2353-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 21:39:28.0	yes
A5	(1) MS2137-2353 (3) MS2137-2353-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 21:39:38.0	yes
A6	(1) MS2137-2353 (2) MS2137-2353-ACSPAR1	ACS/WFC WFC3/UVIS	2	03-Jul-2012 21:39:54.0	yes

Visit	*Targets used in Visit*	*Configurations used in Visit*	*Orbits Used*	*Last Orbit Planner Run*	*OP Current with Visit?*
A8	(1) MS2137-2353 (3) MS2137-2353-WFC3PAR1	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 21:40:06.0	yes
A9	(1) MS2137-2353 (2) MS2137-2353-ACSPAR1	ACS/WFC WFC3/IR	1	03-Jul-2012 21:40:17.0	yes
B0	(1) MS2137-2353 (5) MS2137-2353-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 21:40:26.0	yes
B1	(1) MS2137-2353 (4) MS2137-2353-ACSPAR2	ACS/WFC WFC3/IR	1	03-Jul-2012 21:40:40.0	yes
B3	(1) MS2137-2353 (4) MS2137-2353-ACSPAR2	ACS/WFC WFC3/UVIS	2	03-Jul-2012 21:40:55.0	yes
B5	(1) MS2137-2353 (5) MS2137-2353-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 21:41:07.0	yes
B6	(1) MS2137-2353 (4) MS2137-2353-ACSPAR2	ACS/WFC WFC3/IR WFC3/UVIS	2	03-Jul-2012 21:41:23.0	yes
B7	(1) MS2137-2353 (5) MS2137-2353-WFC3PAR2	ACS/WFC WFC3/IR WFC3/UVIS	1	03-Jul-2012 21:41:34.0	yes
B8	(1) MS2137-2353 (4) MS2137-2353-ACSPAR2	ACS/WFC WFC3/IR	1	03-Jul-2012 21:41:44.0	yes

18 Total Orbits Used

ABSTRACT

As the most massive objects in the universe, galaxy clusters represent important signposts in our story of structure evolution, and are the ultimate telescopic lenses, placing gravitationally lensed galaxies from the earliest epochs in comfortable reach for careful study. We take full advantage of

the refurbished ACS and WFC3 cameras to deliver deep 14-filter images of 25 carefully chosen clusters. These will enable us to address timely and substantive questions about dark matter, dark energy, and galaxy evolution well beyond z=7. These X-ray clusters are chosen to be free of lensing bias and to span a wide range of redshift and mass. By combining strong and weak lensing, we will obtain the definitive mass profile of relaxed clusters to confront the distinctive prediction of the standard LambdaCDM model. Detailed maps of internal structure will be enabled by ~1,000 new multiply-imaged lensed sources to AB=26, all with precise (2% x (1+z)) photometric redshift measurements, thanks to WFC3's UV and IR coverage. A supernovae search in parallel (with low magnification uncertainties) will extend the Hubble diagram of SN1a to z>1.5, testing the constancy of dark energy with time and probing progenitor evolution. Our homogeneous panchromatic deep imaging of this cluster sample will constitute a vast legacy archive for studies of the formation and evolution of structure.

OBSERVING DESCRIPTION

There are two special requirements: orientation and cadence. Four epochs must be executed at the same orientation. Each epoch will be between 10 and 14 days, depending on the roll angle availability for the given target. There will be two orientations selected, which will be approximately 20-30 degrees apart.

Visit

Proposal 12102, Visit A0, completed Wed Jul 04 01:41:55 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; ORIENT 0.0D TO 359 D

Comments: Visits A0-A2 represent epoch 1 (at orient 1) and should be taken concurrently

Diagnostics

(Visit A0) Warning (Orbit Planner): VISIBILITY OVERRUN

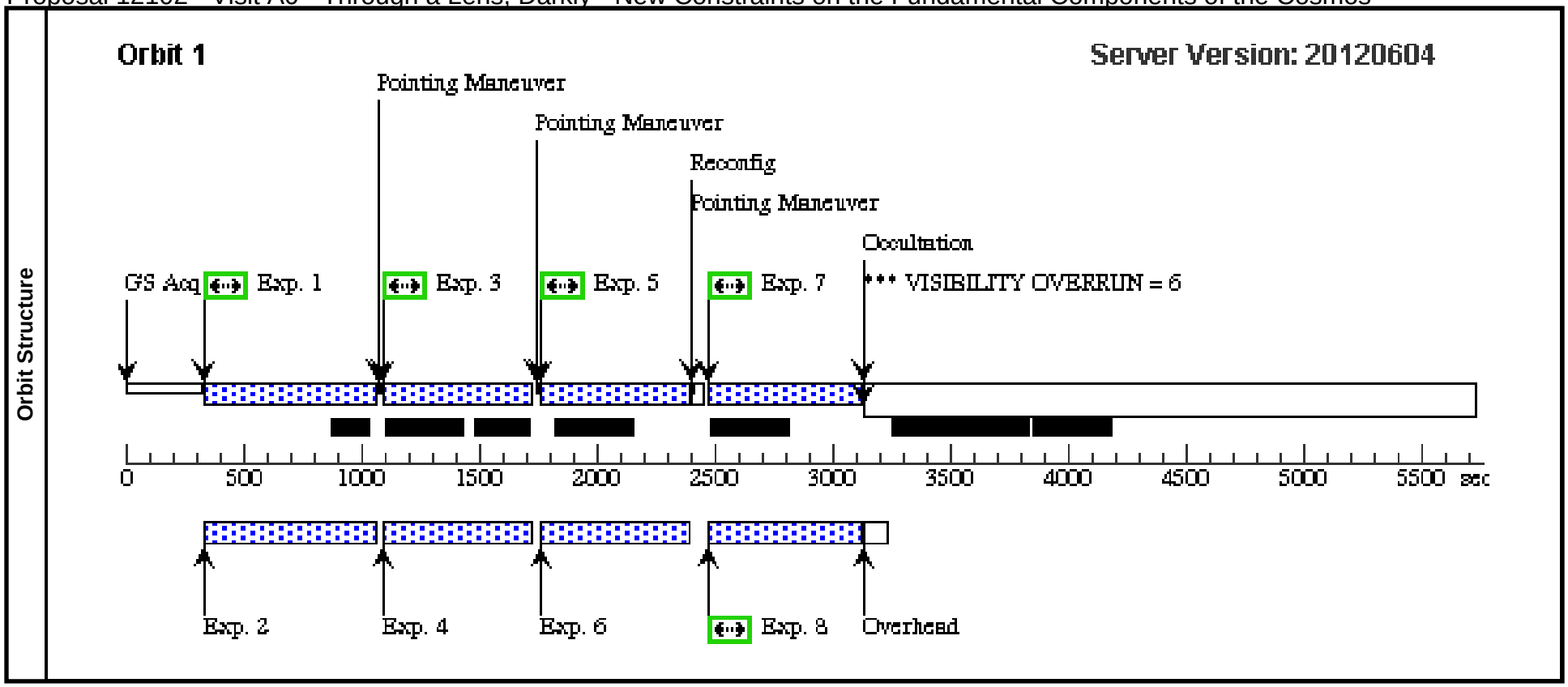
(Visit A0) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(3)	MS2137-2353-WFC3PAR1	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit A0	525 Secs *[==>525 Secs]*	 ***[1]***
2		(3) MS2137-2353-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS100; NSAMP=8		Prime + Parallel Group 1-2 in Visit A0	*[==>]*	***[1]***
3		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.0741,0.1295	Prime + Parallel Group 3-4 in Visit A0	507 Secs *[==>507.0 Secs]*	 ***[1]***
4		(3) MS2137-2353-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A0	*[==>]*	***[1]***
5		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.1729,-0.0848	Prime + Parallel Group 5-6 in Visit A0	551 Secs *[==>451.0 Secs]*	 ***[1]***
6		(3) MS2137-2353-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A0	*[==>]*	***[1]***
7		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.247,0.2423	Prime + Parallel Group 7-8 in Visit A0	564 Secs *[==>528 Secs]*	 ***[1]***
8		(3) MS2137-2353-WFC3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A0	400 Secs *[==>622 Secs]*	 ***[1]***


Orbit Structure
Orbit 1
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Reconfig
Pointing Maneuver
Occultation
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
*** VISIBILITY OVERRUN = 6
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Overhead

Visit

Proposal 12102, Visit A2, completed Wed Jul 04 01:41:57 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS A0; SEQ A0,A2 WITHIN 1.2 Orbits

Comments: Visits A0-A2 represent epoch 1 (at orient 1) and should be taken concurrently

Diagnostics

(Visit A2) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

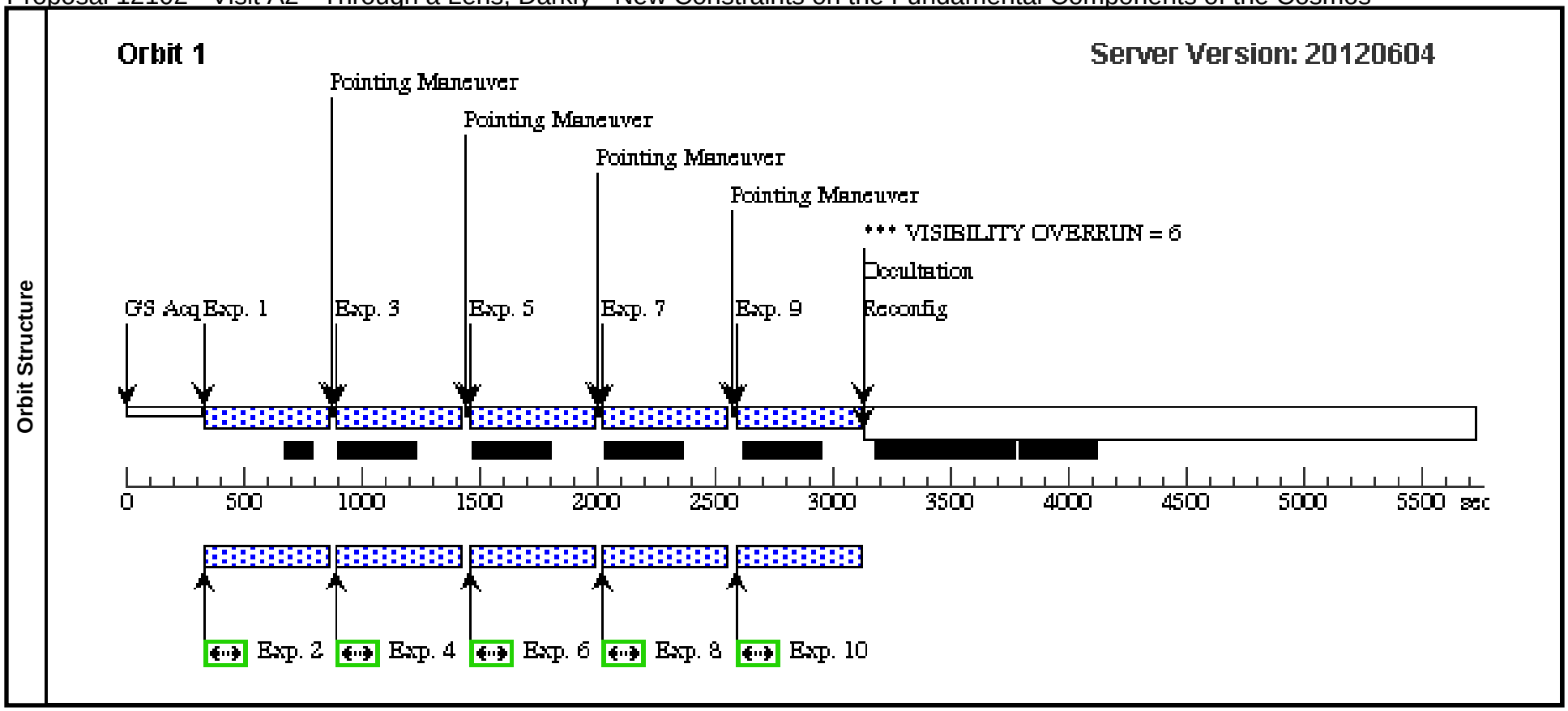
(Visit A2) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(2)	MS2137-2353-ACSPAR1	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit A2	*[==>]*	***[1]***
2		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A2	525 Secs *[==>325.0 Secs]*	***[1]***
3		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0.20325, -0.18165	Prime + Parallel Group 3-4 in Visit A2	*[==>]*	***[1]***
4		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A2	607 Secs *[==>407.0 Secs]*	***[1]***
5		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0.47425, 0.6055	Prime + Parallel Group 5-6 in Visit A2	*[==>]*	***[1]***
6		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A2	582 Secs *[==>407.0 Secs]*	***[1]***
7		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG -0.271,0.42385	Prime + Parallel Group 7-8 in Visit A2	*[==>]*	***[1]***
8		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit A2	587 Secs *[==>407.0 Secs]*	***[1]***
9		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0.47425, 0.6055	Prime + Parallel Group 9-10 in Visit A2	*[==>]*	***[1]***
10		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit A2	587 Secs *[==>383.0 Secs]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
*** VISIBILITY OVERRUN = 6
Occultation
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
Exp. 9
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Exp. 10

Visit

Proposal 12102, Visit A3, completed Wed Jul 04 01:41:58 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS A0; AFTER A0 BY 19 D TO 21 D

Comments: Visits A3-A4 represent epoch 2 (at orient 1) and should be taken concurrently

Diagnostics

(Visit A3) Warning (Orbit Planner): VISIBILITY OVERRUN

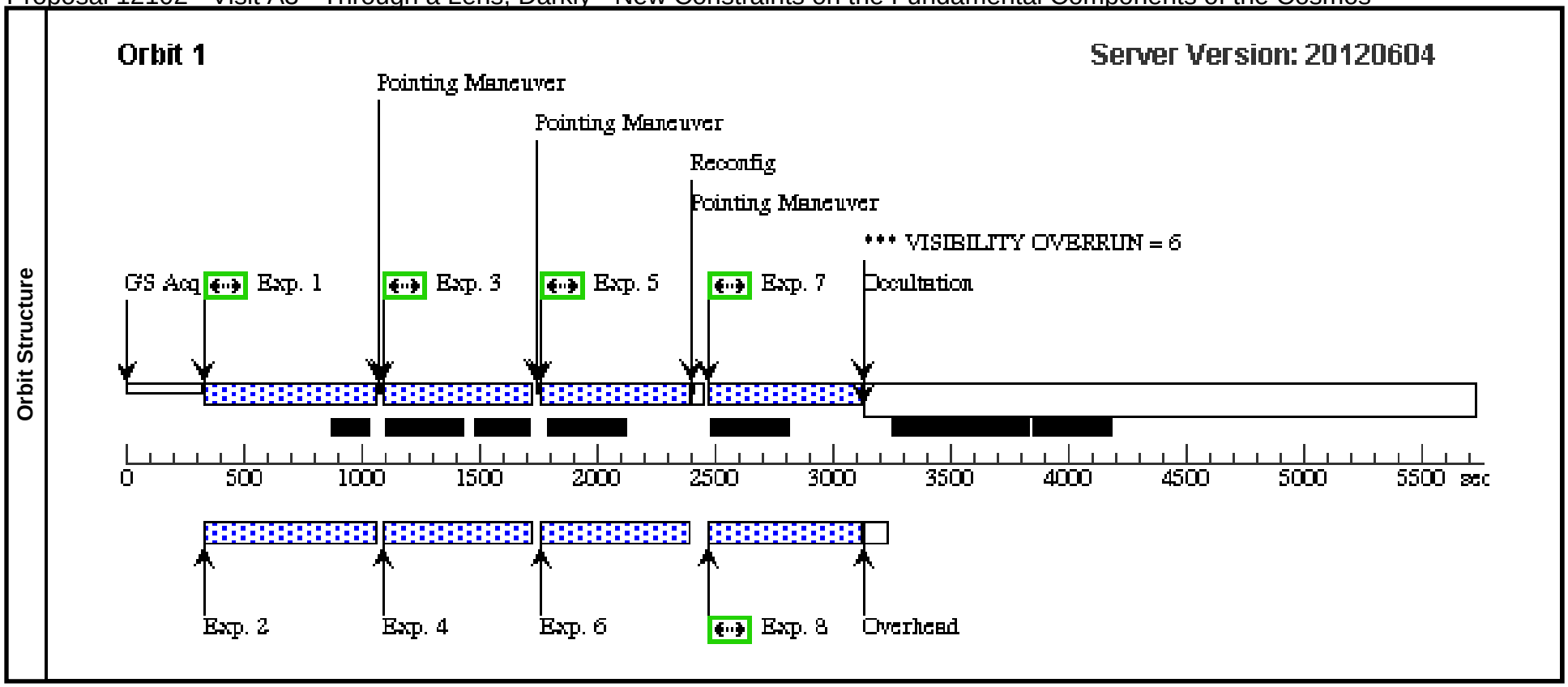
(Visit A3) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(3)	MS2137-2353-WFC3PAR1	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F475W		POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit A3	525 Secs *[==>525 Secs]*	 ***[1]***
2		(3) MS2137-2353-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS100; NSAMP=8		Prime + Parallel Group 1-2 in Visit A3	*[==>]*	***[1]***
3		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F475W		POS TARG 0.3211,0.7917	Prime + Parallel Group 3-4 in Visit A3	507 Secs *[==>507.0 Secs]*	 ***[1]***
4		(3) MS2137-2353-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A3	*[==>]*	***[1]***
5		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 1.0868,0.5573	Prime + Parallel Group 5-6 in Visit A3	551 Secs *[==>481 Secs]*	 ***[1]***
6		(3) MS2137-2353-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A3	*[==>]*	***[1]***
7		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG -0.3211,-0.1742	Prime + Parallel Group 7-8 in Visit A3	564 Secs *[==>528 Secs]*	 ***[1]***
8		(3) MS2137-2353-WFC3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A3	400 Secs *[==>622 Secs]*	 ***[1]***


Orbit Structure
Orbit 1
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Reconfig
Pointing Maneuver
*** VISIBILITY OVERRUN = 6
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Overhead

Visit

Proposal 12102, Visit A4, completed Wed Jul 04 01:41:59 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS A0; SEQ A3,A4 WITHIN 1.2 Orbits

Comments: Visits A3-A4 represent epoch 2 (at orient 1) and should be taken concurrently

Diagnostics

(Visit A4) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

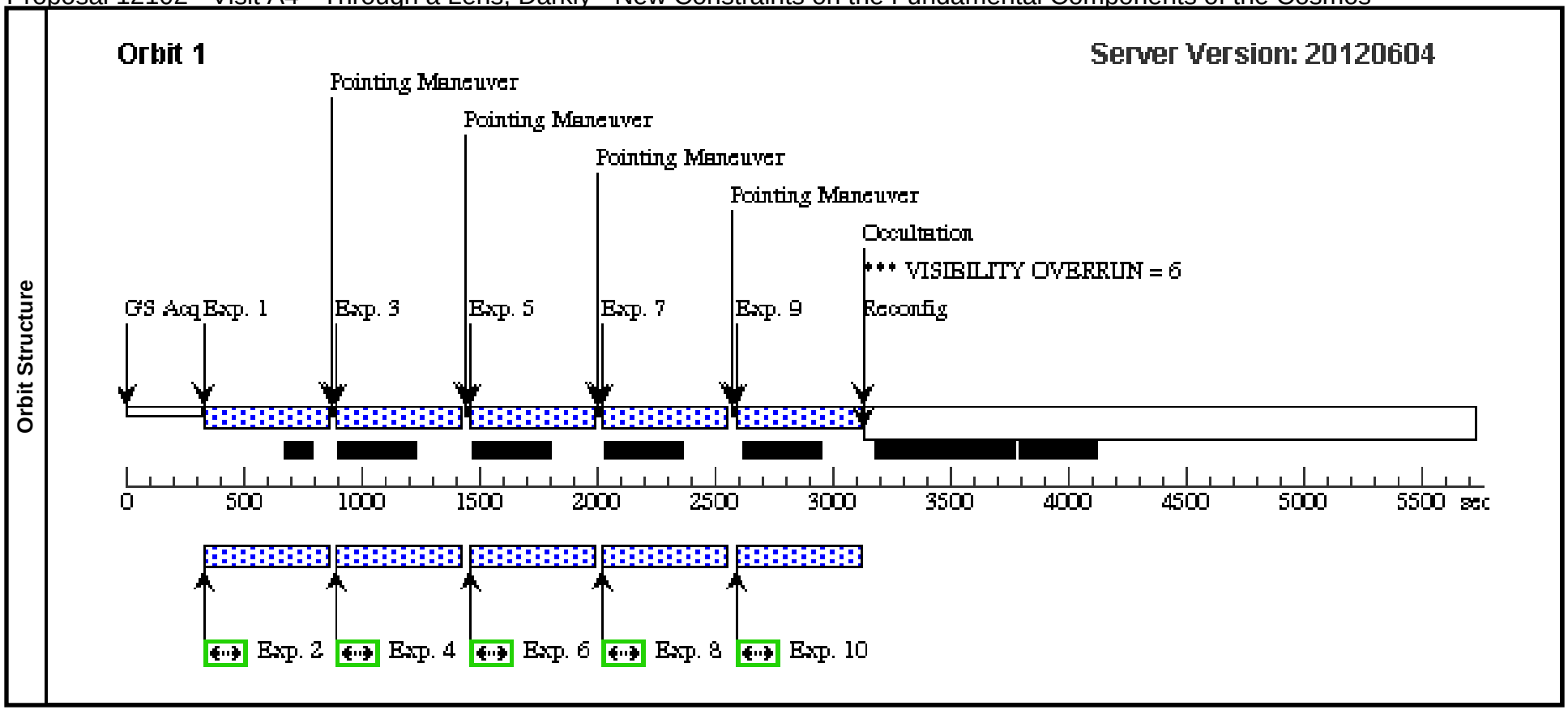
(Visit A4) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(2)	MS2137-2353-ACSPAR1	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit A4	*[==>]*	***[1]***
2		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A4	525 Secs *[==>325.0 Secs]*	***[1]***
3		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG -1.15175,0.42385	Prime + Parallel Group 3-4 in Visit A4	*[==>]*	***[1]***
4		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A4	607 Secs *[==>407 Secs]*	***[1]***
5		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG -0.813,-0.30275	Prime + Parallel Group 5-6 in Visit A4	*[==>]*	***[1]***
6		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A4	582 Secs *[==>407 Secs]*	***[1]***
7		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0.33875,-0.1211	Prime + Parallel Group 7-8 in Visit A4	*[==>]*	***[1]***
8		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit A4	587 Secs *[==>407.0 Secs]*	***[1]***
9		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG -0.813,-0.30275	Prime + Parallel Group 9-10 in Visit A4	*[==>]*	***[1]***
10		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit A4	587 Secs *[==>383.0 Secs]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Occultation
*** VISIBILITY OVERRUN = 6
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
Exp. 9
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Exp. 10

Visit

Proposal 12102, Visit A5, completed Wed Jul 04 01:42:01 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS A0; AFTER A0 BY 39 D TO 41 D

Comments: Visits A5-A7 represent epoch 3 (at orient 1) and should be taken concurrently

Diagnostics

(Visit A5) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

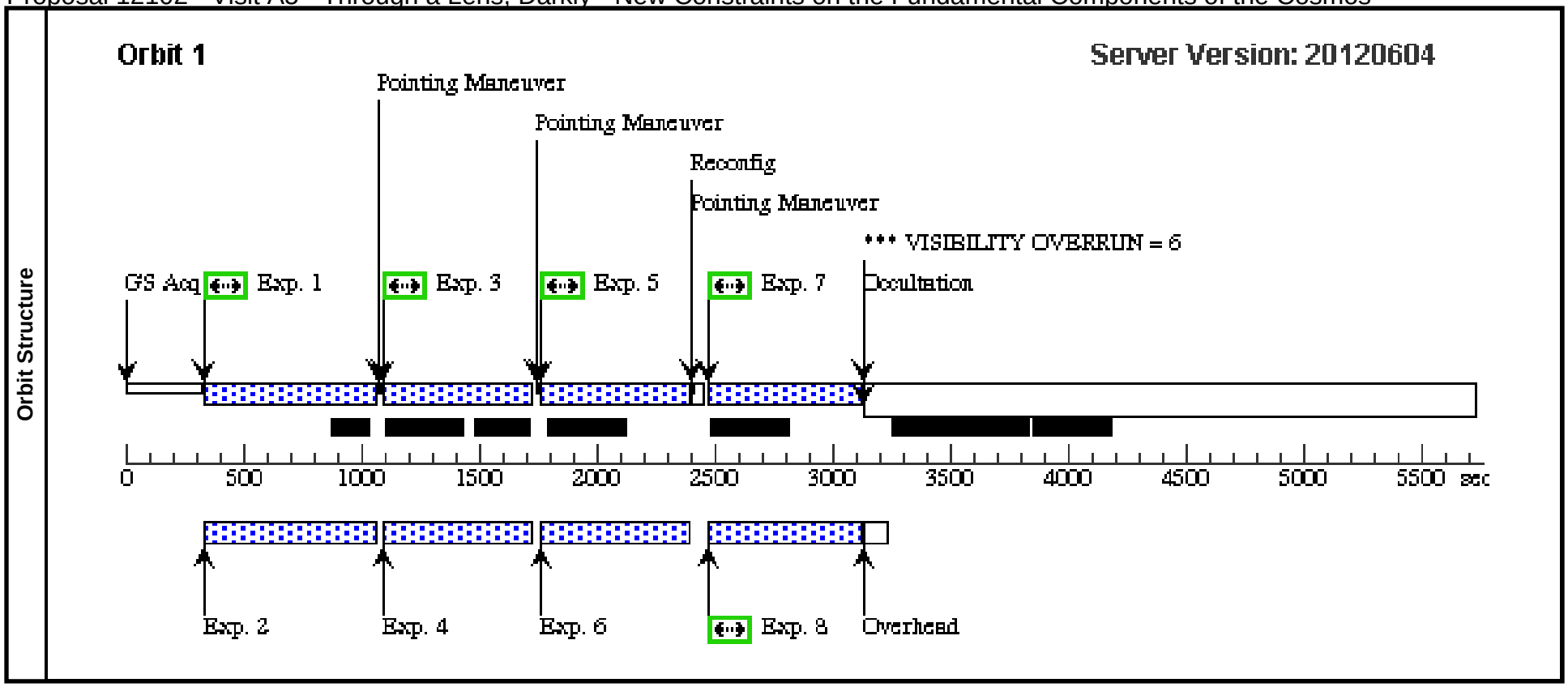
(Visit A5) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(3)	MS2137-2353-WFC3PAR1	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit A5	525 Secs *[==>525 Secs]*	 ***[1]***
2		(3) MS2137-2353-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS100; NSAMP=8		Prime + Parallel Group 1-2 in Visit A5	*[==>]*	***[1]***
3		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG 0.3211,0.7917	Prime + Parallel Group 3-4 in Visit A5	507 Secs *[==>507.0 Secs]*	 ***[1]***
4		(3) MS2137-2353-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A5	*[==>]*	***[1]***
5		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 1.0868,0.5573	Prime + Parallel Group 5-6 in Visit A5	551 Secs *[==>485 Secs]*	 ***[1]***
6		(3) MS2137-2353-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A5	*[==>]*	***[1]***
7		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG -0.3211,-0.1742	Prime + Parallel Group 7-8 in Visit A5	564 Secs *[==>528 Secs]*	 ***[1]***
8		(3) MS2137-2353-WFC3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A5	400 Secs *[==>622 Secs]*	 ***[1]***


Orbit Structure
Orbit 1
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Reconfig
Pointing Maneuver
*** VISIBILITY OVERRUN = 6
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
Occultation
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Overhead

Visit

Proposal 12102, Visit A6, completed Wed Jul 04 01:42:02 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS A0; SEQ A5,A6 WITHIN 1.2 Orbits

Comments: Visits A5-A7 represent epoch 3 (at orient 1) and should be taken concurrently

Diagnostics

(Visit A6) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit A6) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

(Visit A6) Warning (Orbit Planner): VISIBILITY OVERRUN

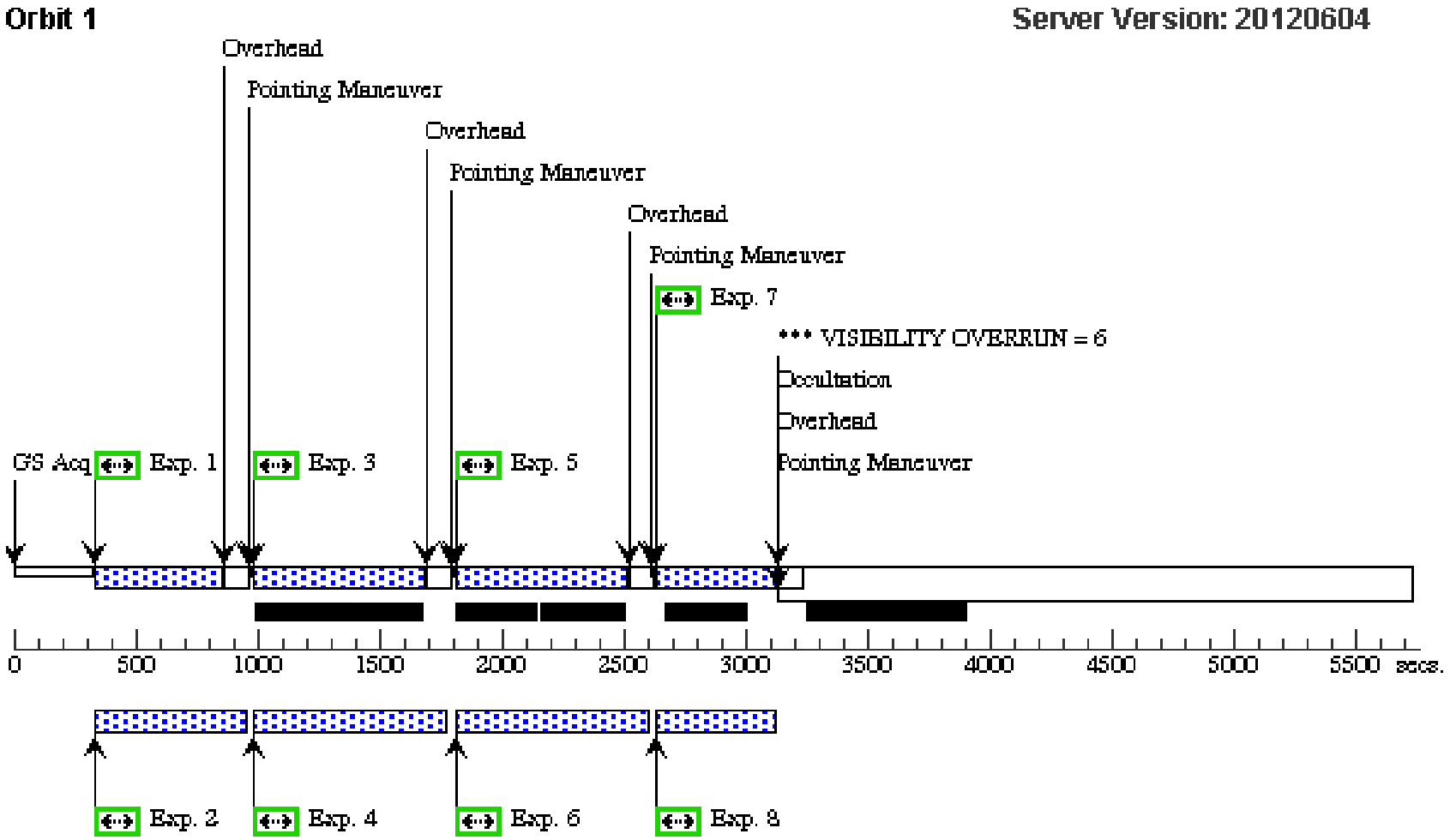
Fixed Targets

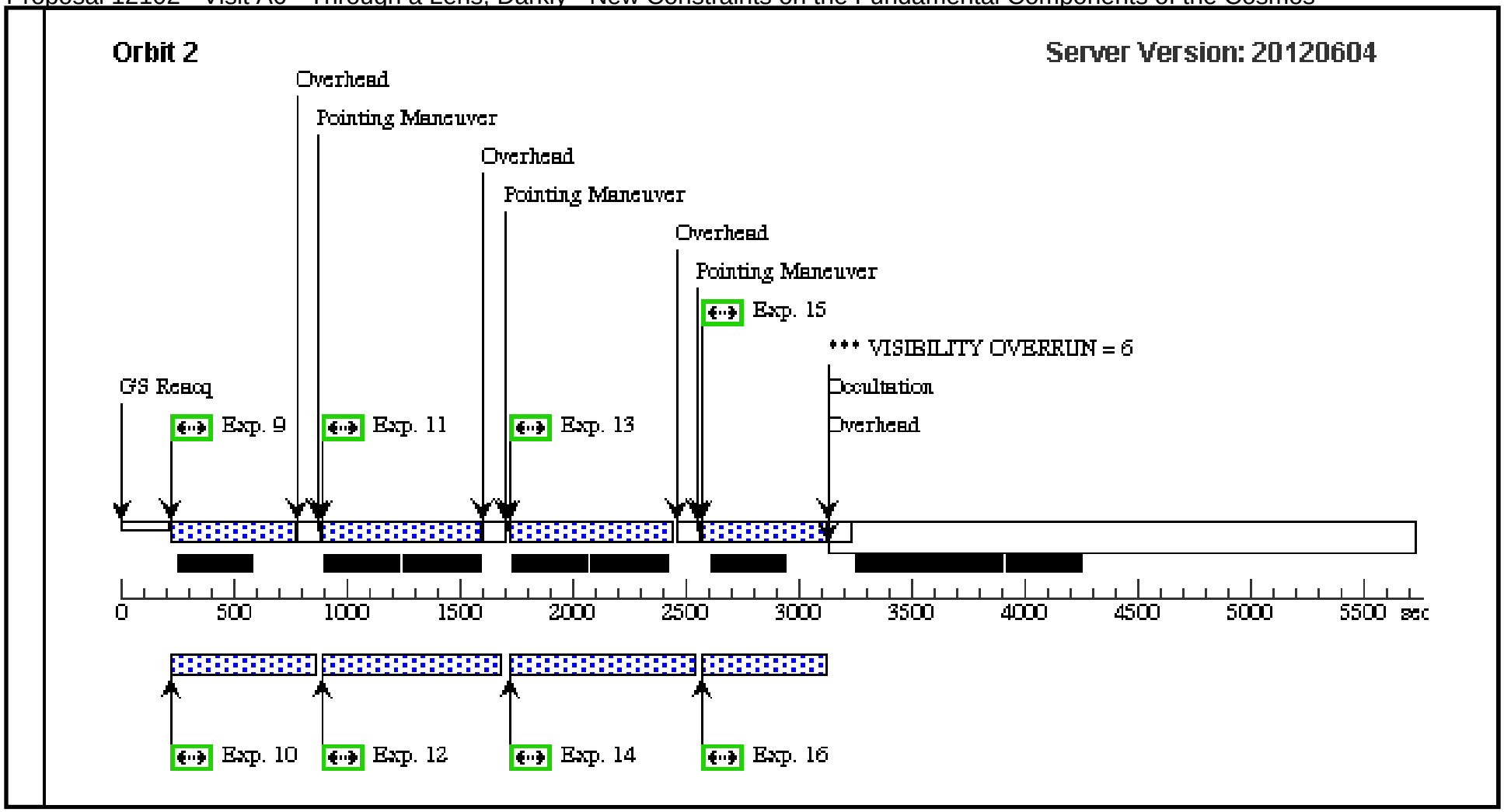
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(2)	MS2137-2353-ACSPAR1	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group up 1-2 in Visit A6	600 Secs *[==>490 Secs]*	 ***[1]***
2		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 1-2 in Visit A6	600 Secs *[==>410 Secs]*	 ***[1]***
3		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0.0594,-0.0552	Prime + Parallel Group up 3-4 in Visit A6	600 Secs *[==>699.0 Secs]*	 ***[1]***
4		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 3-4 in Visit A6	600 Secs *[==>669.0 Secs]*	 ***[1]***
5		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0.1188,0.06735	Prime + Parallel Group up 5-6 in Visit A6	600 Secs *[==>699.0 Secs]*	 ***[1]***
6		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 5-6 in Visit A6	600 Secs *[==>669 Secs]*	 ***[1]***
7		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG -0.0594,0.15395	Prime + Parallel Group up 7-8 in Visit A6	600 Secs *[==>490.0 Secs]*	 ***[1]***
8		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group up 7-8 in Visit A6	600 Secs *[==>339.0 Secs]*	 ***[1]***
9		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0,0	Prime + Parallel Group up 9-10 in Visit A6	600 Secs *[==>548 Secs]*	 ***[2]***
10		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 9-10 in Visit A6	600 Secs *[==>492 Secs]*	 ***[2]***
11		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F225W	CR-SPLIT=NO	POS TARG 0.0594,-0.0552	Prime + Parallel Group up 11-12 in Visit A6	600 Secs *[==>699.0 Secs]*	 ***[2]***
12		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 11-12 in Visit A6	600 Secs *[==>669.0 Secs]*	 ***[2]***
13		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG 0.1188,0.06735	Prime + Parallel Group up 13-14 in Visit A6	600 Secs *[==>699.0 Secs]*	 ***[2]***
14		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 13-14 in Visit A6	600 Secs *[==>695.0 Secs]*	 ***[2]***
15		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG -0.0594,0.15395	Prime + Parallel Group up 15-16 in Visit A6	600 Secs *[==>548.5 Secs]*	 ***[2]***
16		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group up 15-16 in Visit A6	600 Secs *[==>398 Secs]*	 ***[2]***

Orbit Structure




Orbit 2
Server Version: 20120604
Overhead
Pointing Maneuver
Overhead
Pointing Maneuver
Overhead
Pointing Maneuver
Exp. 15
*** VISIBILITY OVERRUN = 6
GS Reacq
Exp. 9
Exp. 11
Exp. 13
Occultation
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 10
Exp. 12
Exp. 14
Exp. 16

Visit

Proposal 12102, Visit A8, completed Wed Jul 04 01:42:04 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS A0; AFTER A0 BY 59 D TO 61 D

Comments: Visits A8-A9 represent epoch 4 (at orient 1) and should be taken concurrently

Diagnostics

(Visit A8) Warning (Orbit Planner): VISIBILITY OVERRUN

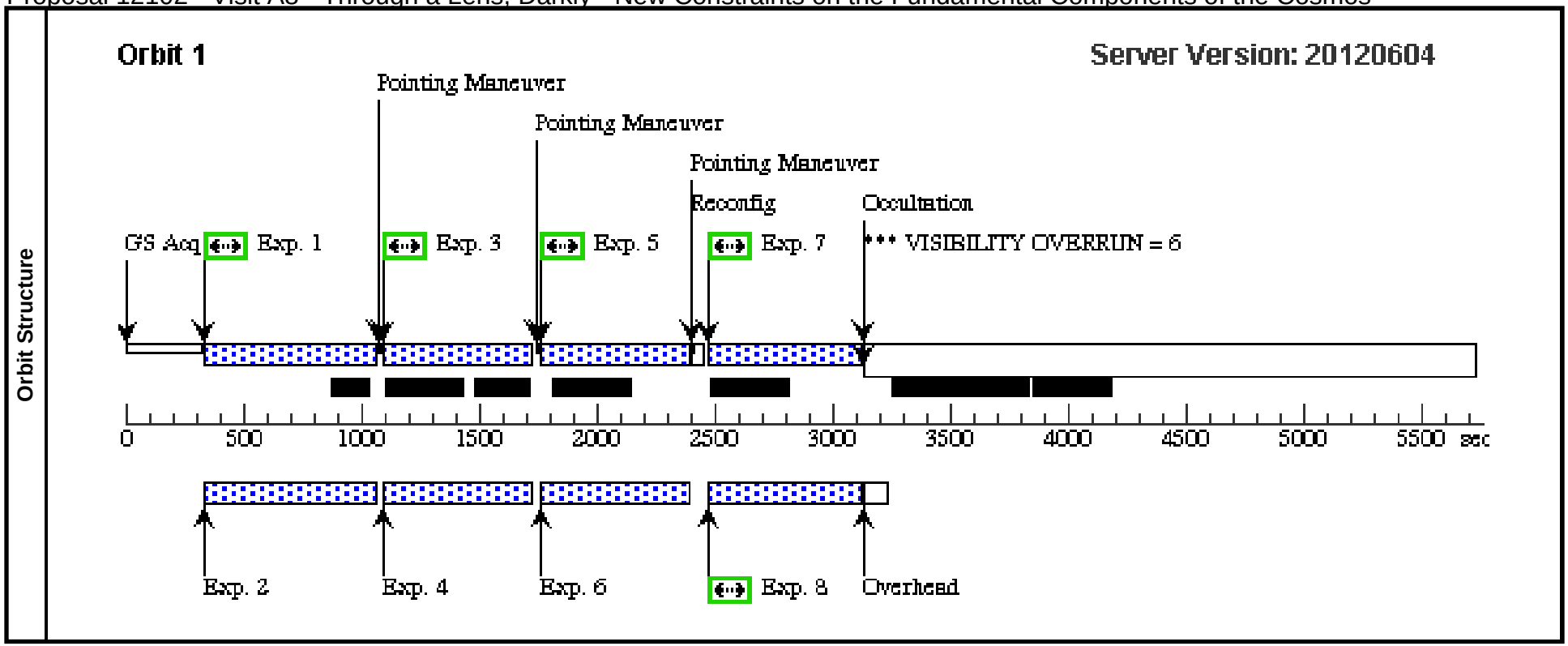
(Visit A8) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(3)	MS2137-2353-WFC3PAR1	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit A8	525 Secs *[==>525 Secs]*	 ***[1]***
2		(3) MS2137-2353-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS100; NSAMP=8		Prime + Parallel Group 1-2 in Visit A8	*[==>]*	***[1]***
3		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 0.3211,0.7917	Prime + Parallel Group 3-4 in Visit A8	507 Secs *[==>507.0 Secs]*	 ***[1]***
4		(3) MS2137-2353-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS50; NSAMP=13		Prime + Parallel Group 3-4 in Visit A8	*[==>]*	***[1]***
5		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 1.0868,0.5573	Prime + Parallel Group 5-6 in Visit A8	551 Secs *[==>461 Secs]*	 ***[1]***
6		(3) MS2137-2353-WFC3PAR1	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=7		Prime + Parallel Group 5-6 in Visit A8	*[==>]*	***[1]***
7		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG -0.3211,-0.1742	Prime + Parallel Group 7-8 in Visit A8	564 Secs *[==>528 Secs]*	 ***[1]***
8		(3) MS2137-2353-WFC3PAR1	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit A8	400 Secs *[==>622 Secs]*	 ***[1]***


Orbit Structure
Orbit 1
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Reconfig
Occultation
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
*** VISIBILITY OVERRUN = 6
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Overhead

Visit

Proposal 12102, Visit A9, completed Wed Jul 04 01:42:05 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS A0; SEQ A8,A9 WITHIN 1.2 Orbits

Comments: Visits A8-A9 represent epoch 4 (at orient 1) and should be taken concurrently

Diagnostics

(Visit A9) Warning (Orbit Planner): VISIBILITY OVERRUN

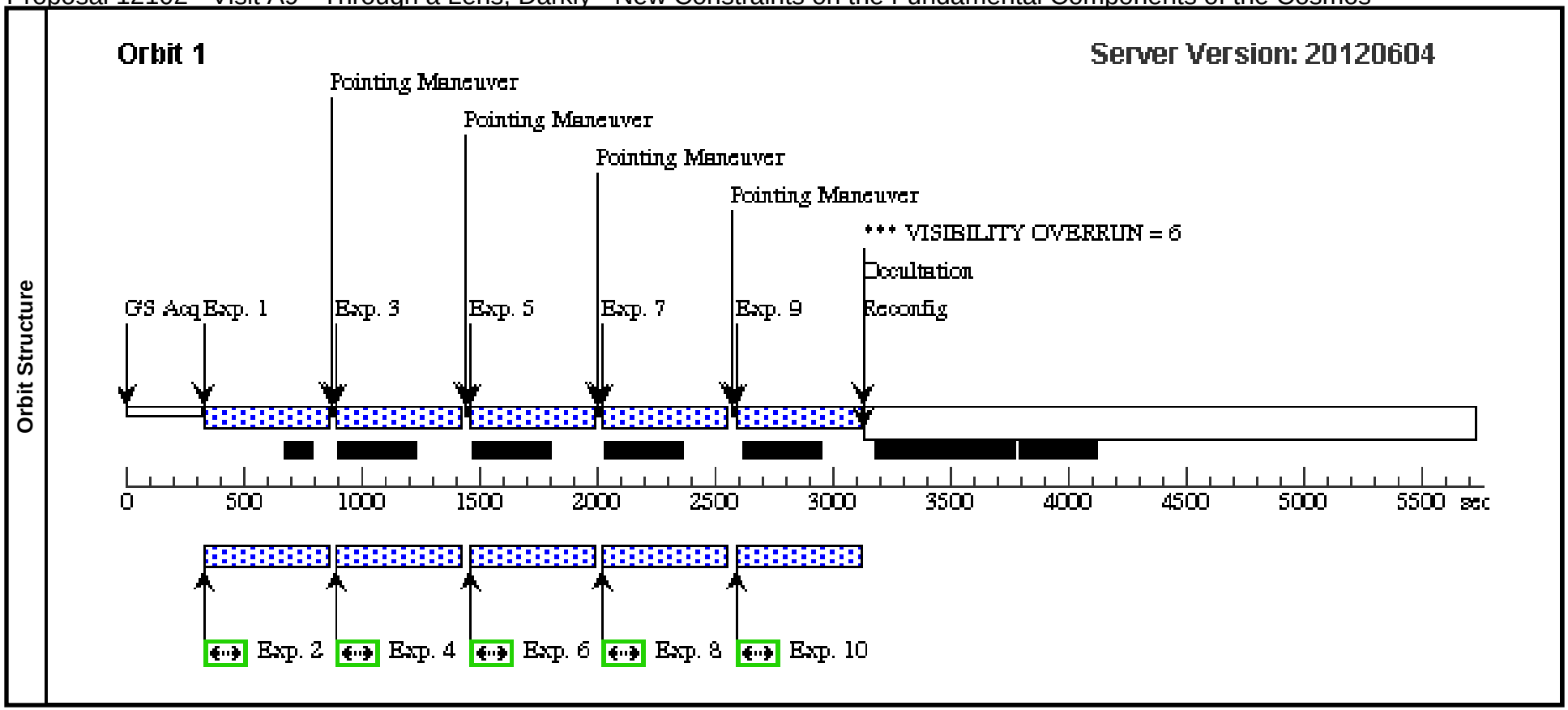
(Visit A9) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(2)	MS2137-2353-ACSPAR1	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit A9	*[==>]*	***[1]***
2		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit A9	525 Secs *[==>325.0 Secs]*	***[1]***
3		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG -1.15175,0.42385	Prime + Parallel Group 3-4 in Visit A9	*[==>]*	***[1]***
4		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit A9	607 Secs *[==>407 Secs]*	***[1]***
5		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG -0.813,-0.30275	Prime + Parallel Group 5-6 in Visit A9	*[==>]*	***[1]***
6		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit A9	582 Secs *[==>407 Secs]*	***[1]***
7		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0.33875,-0.1211	Prime + Parallel Group 7-8 in Visit A9	*[==>]*	***[1]***
8		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit A9	587 Secs *[==>407.0 Secs]*	***[1]***
9		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F110W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG -0.813,-0.30275	Prime + Parallel Group 9-10 in Visit A9	*[==>]*	***[1]***
10		(2) MS2137-2353-ACSPAR1	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit A9	587 Secs *[==>383.0 Secs]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
*** VISIBILITY OVERRUN = 6
Occultation
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
Exp. 9
Reconfig
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2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Exp. 10

Visit

Proposal 12102, Visit B0, completed Wed Jul 04 01:42:06 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; ORIENT 29D TO 31D FROM A0

Comments: Visits B0-B1 represent epoch 1 (at orient 2) and should be taken concurrently

Diagnostics

(Visit B0) Warning (Orbit Planner): VISIBILITY OVERRUN

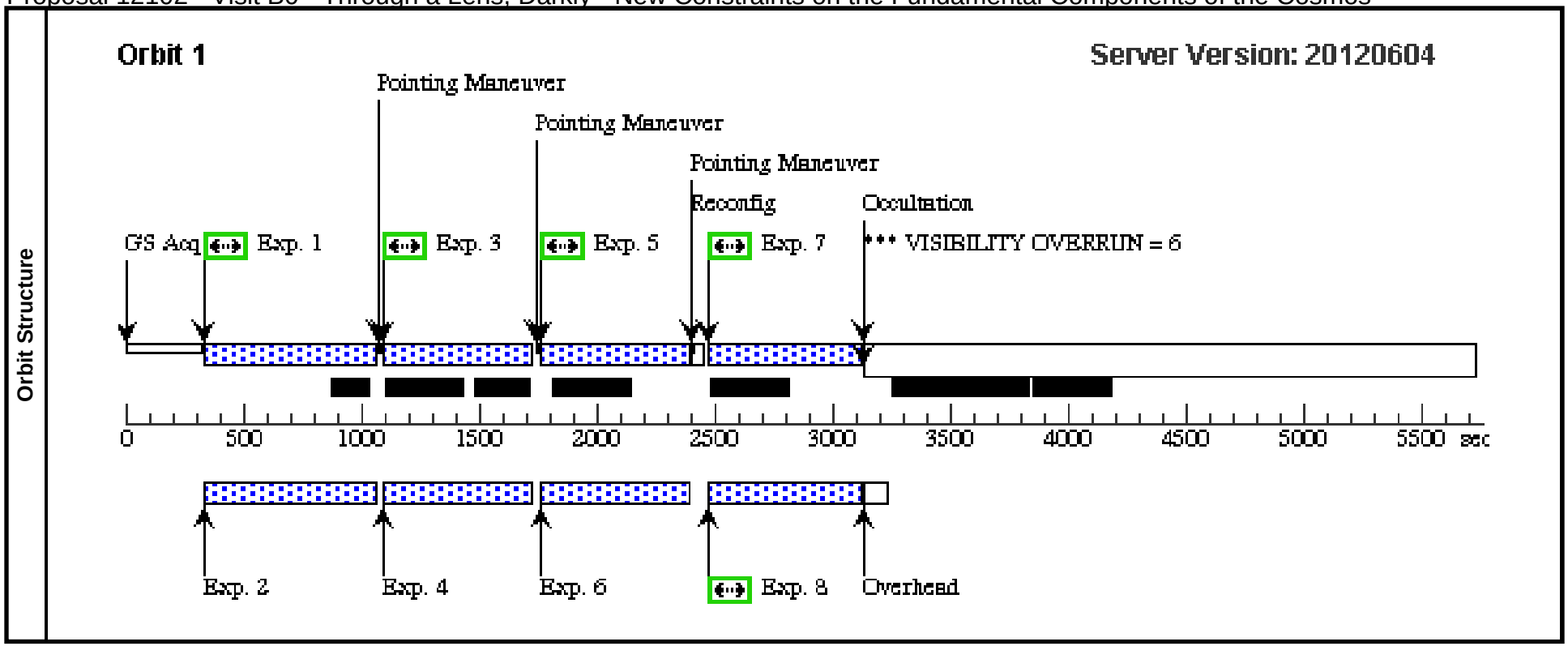
(Visit B0) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(5)	MS2137-2353-WFC3PAR2	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit B0	525 Secs *[==>525 Secs]*	 ***[1]***
2		(5) MS2137-2353-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS100; NSAMP=8		Prime + Parallel Group 1-2 in Visit B0	*[==>]*	***[1]***
3		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F814W		POS TARG 0.0741,0.1295	Prime + Parallel Group 3-4 in Visit B0	507 Secs *[==>507.0 Secs]*	 ***[1]***
4		(5) MS2137-2353-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B0	*[==>]*	***[1]***
5		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0.1729,-0.0848	Prime + Parallel Group 5-6 in Visit B0	551 Secs *[==>463 Secs]*	 ***[1]***
6		(5) MS2137-2353-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B0	*[==>]*	***[1]***
7		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F775W		POS TARG 0.247,0.2423	Prime + Parallel Group 7-8 in Visit B0	564 Secs *[==>528 Secs]*	 ***[1]***
8		(5) MS2137-2353-WFC3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B0	400 Secs *[==>622 Secs]*	 ***[1]***


Orbit Structure
Orbit 1
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Reconfig
Occultation
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
*** VISIBILITY OVERRUN = 6
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Overhead

Visit

Proposal 12102, Visit B1, completed Wed Jul 04 01:42:07 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS B0; SEQ B0,B1 WITHIN 1.2 Orbits

Comments: Visits B0-B1 represent epoch 1 (at orient 2) and should be taken concurrently

Diagnostics

(Visit B1) Warning (Orbit Planner): VISIBILITY OVERRUN

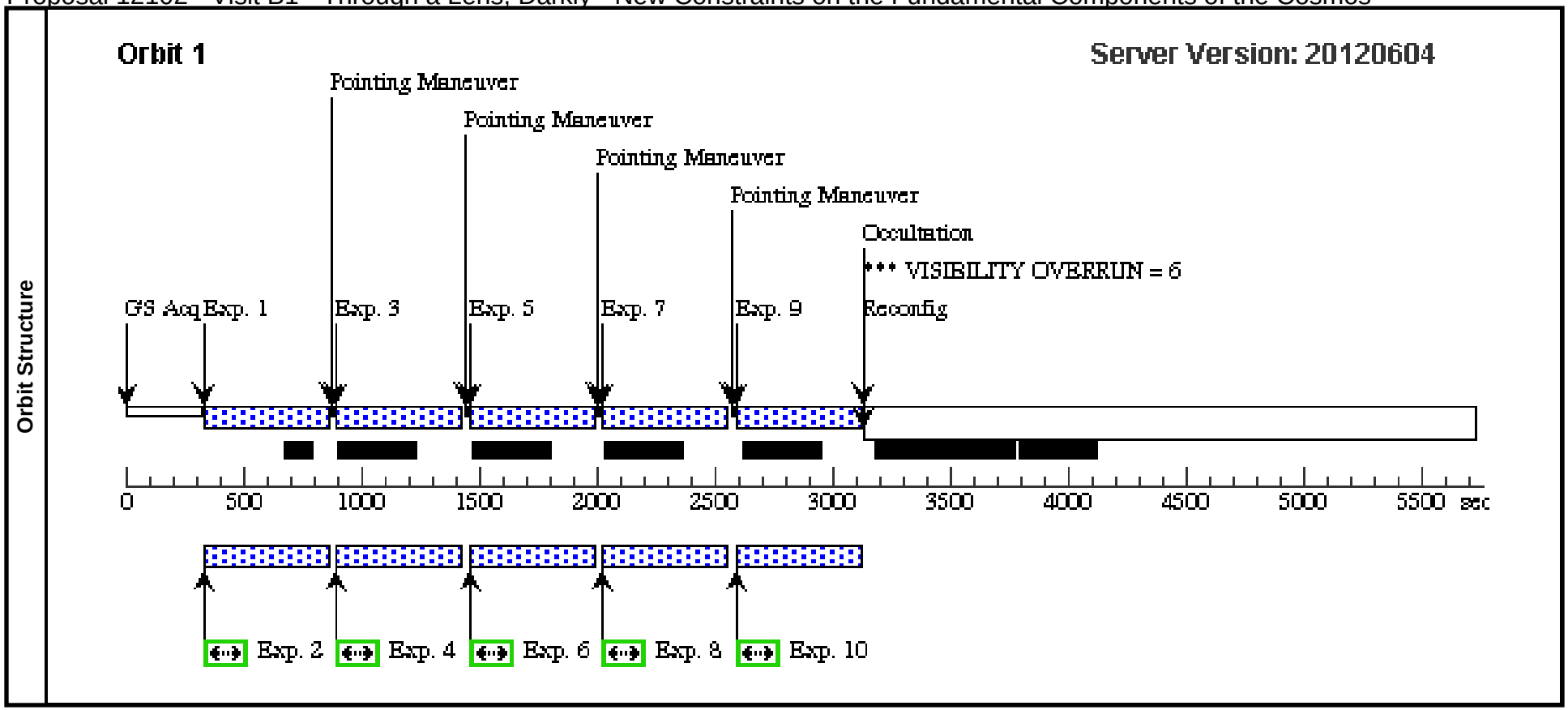
(Visit B1) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(4)	MS2137-2353-ACSPAR2	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit B1	*[==>]*	***[1]***
2		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit B1	525 Secs *[==>325.0 Secs]*	***[1]***
3		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0.20325, -0.18165	Prime + Parallel Group 3-4 in Visit B1	*[==>]*	***[1]***
4		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit B1	607 Secs *[==>407 Secs]*	***[1]***
5		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0.47425, 0.6055	Prime + Parallel Group 5-6 in Visit B1	*[==>]*	***[1]***
6		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit B1	582 Secs *[==>407 Secs]*	***[1]***
7		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG -0.271,0.42385	Prime + Parallel Group 7-8 in Visit B1	*[==>]*	***[1]***
8		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit B1	587 Secs *[==>407.0 Secs]*	***[1]***
9		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0.47425, 0.6055	Prime + Parallel Group 9-10 in Visit B1	*[==>]*	***[1]***
10		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit B1	587 Secs *[==>383 Secs]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Occultation
*** VISIBILITY OVERRUN = 6
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
Exp. 9
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Exp. 10

Visit

Proposal 12102, Visit B3, completed Wed Jul 04 01:42:08 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS B0; AFTER B0 BY 19 D TO 21 D

Comments: Visits B2-B4 represent epoch 2 (at orient 2) and should be taken concurrently

Diagnostics

(Visit B3) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit B3) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

(Visit B3) Warning (Orbit Planner): VISIBILITY OVERRUN

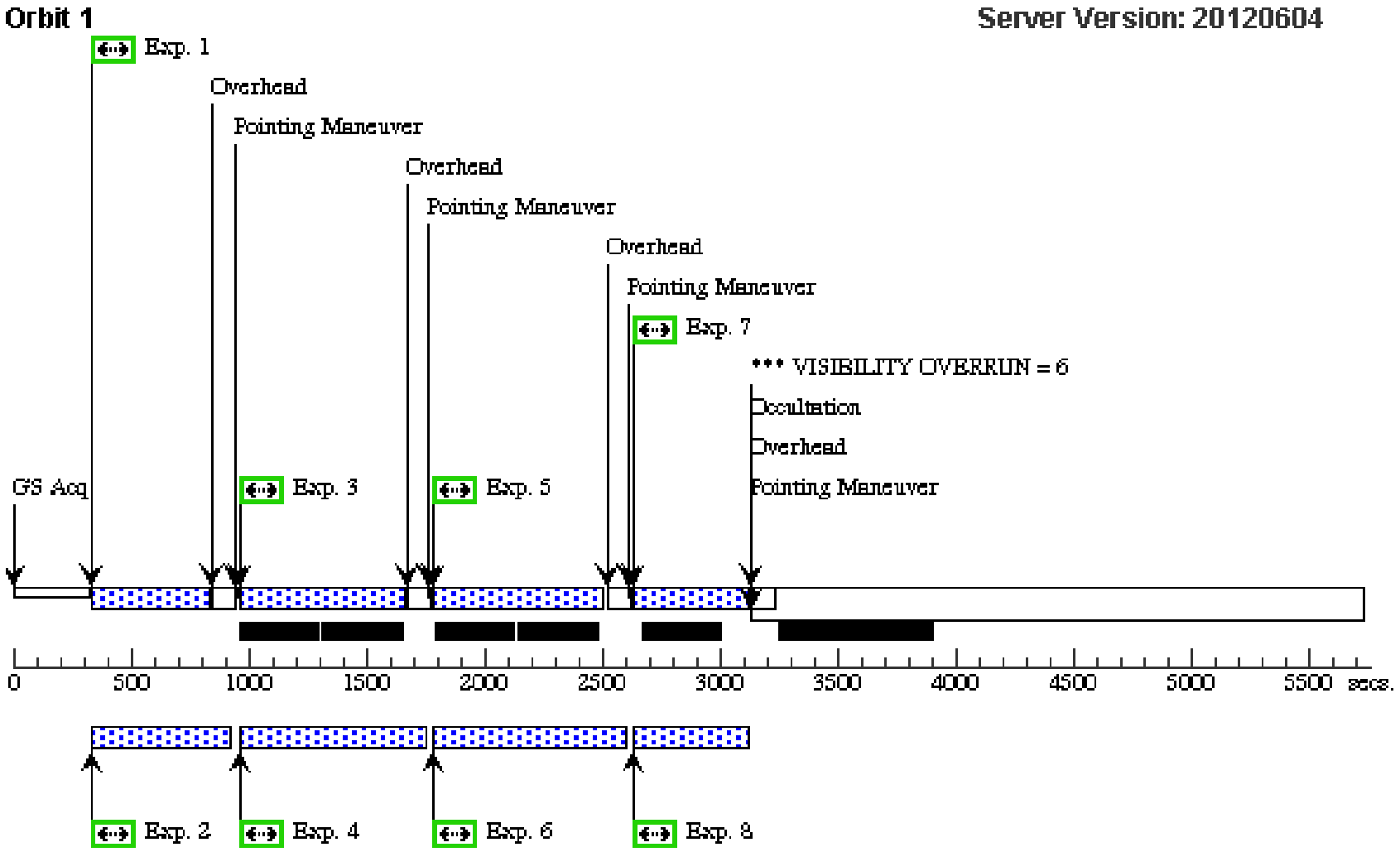
Fixed Targets

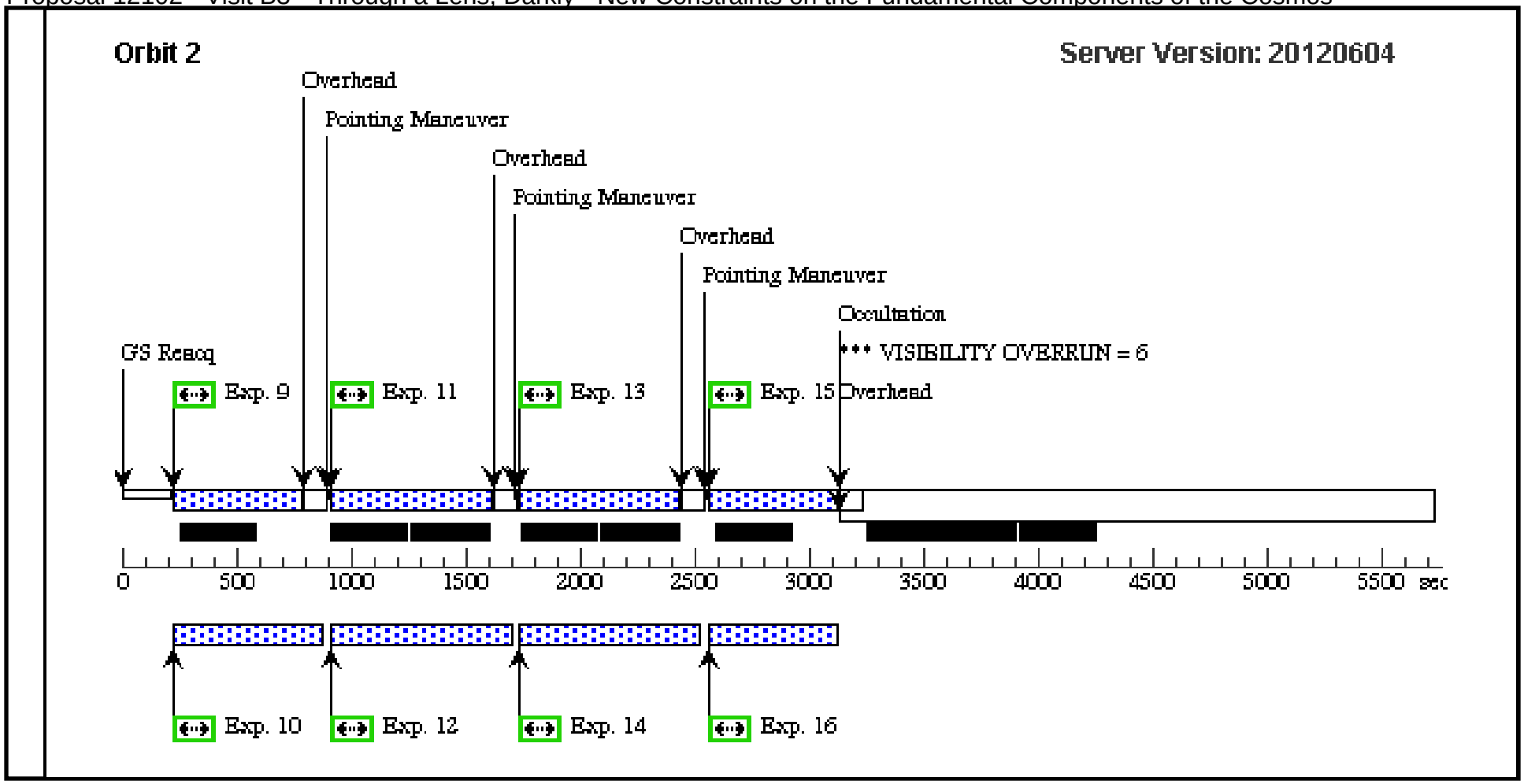
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(4)	MS2137-2353-ACSPAR2	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group up 1-2 in Visit B3	600 Secs *[==>467 Secs]*	 ***[1]***
2		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 1-2 in Visit B3	600 Secs *[==>387 Secs]*	 ***[1]***
3		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F390W	CR-SPLIT=NO	POS TARG 0.0594,-0.0552	Prime + Parallel Group up 3-4 in Visit B3	600 Secs *[==>699.0 Secs]*	 ***[1]***
4		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 3-4 in Visit B3	600 Secs *[==>669 Secs]*	 ***[1]***
5		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0.1188,0.06735	Prime + Parallel Group up 5-6 in Visit B3	600 Secs *[==>699.0 Secs]*	 ***[1]***
6		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 5-6 in Visit B3	600 Secs *[==>692 Secs]*	 ***[1]***
7		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG -0.0594,0.15395	Prime + Parallel Group up 7-8 in Visit B3	600 Secs *[==>490 Secs]*	 ***[1]***
8		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group up 7-8 in Visit B3	600 Secs *[==>339.0 Secs]*	 ***[1]***
9		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0,0	Prime + Parallel Group up 9-10 in Visit B3	600 Secs *[==>561 Secs]*	 ***[2]***
10		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 9-10 in Visit B3	600 Secs *[==>505 Secs]*	 ***[2]***
11		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0.0594,-0.0552	Prime + Parallel Group up 11-12 in Visit B3	600 Secs *[==>699.0 Secs]*	 ***[2]***
12		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 11-12 in Visit B3	600 Secs *[==>669.0 Secs]*	 ***[2]***
13		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG 0.1188,0.06735	Prime + Parallel Group up 13-14 in Visit B3	600 Secs *[==>699.0 Secs]*	 ***[2]***
14		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 13-14 in Visit B3	600 Secs *[==>669.0 Secs]*	 ***[2]***
15		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F275W	CR-SPLIT=NO	POS TARG -0.0594,0.15395	Prime + Parallel Group up 15-16 in Visit B3	600 Secs *[==>561.5 Secs]*	 ***[2]***
16		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group up 15-16 in Visit B3	600 Secs *[==>411 Secs]*	 ***[2]***

Orbit Structure




Orbit 2
Server Version: 20120604
Overhead
Pointing Maneuver
Overhead
Pointing Maneuver
Overhead
Pointing Maneuver
Occultation
*** VISIBILITY OVERRUN = 6
GS Reacq
Exp. 9
Exp. 11
Exp. 13
Exp. 15
Overhead
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 10
Exp. 12
Exp. 14
Exp. 16

Visit

Proposal 12102, Visit B5, completed Wed Jul 04 01:42:10 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS B0; AFTER B0 BY 39 D TO 41 D

Comments: Visits B5-B6 represent epoch 3 (at orient 2) and should be taken concurrently

Diagnostics

(Visit B5) Warning (Orbit Planner): VISIBILITY OVERRUN

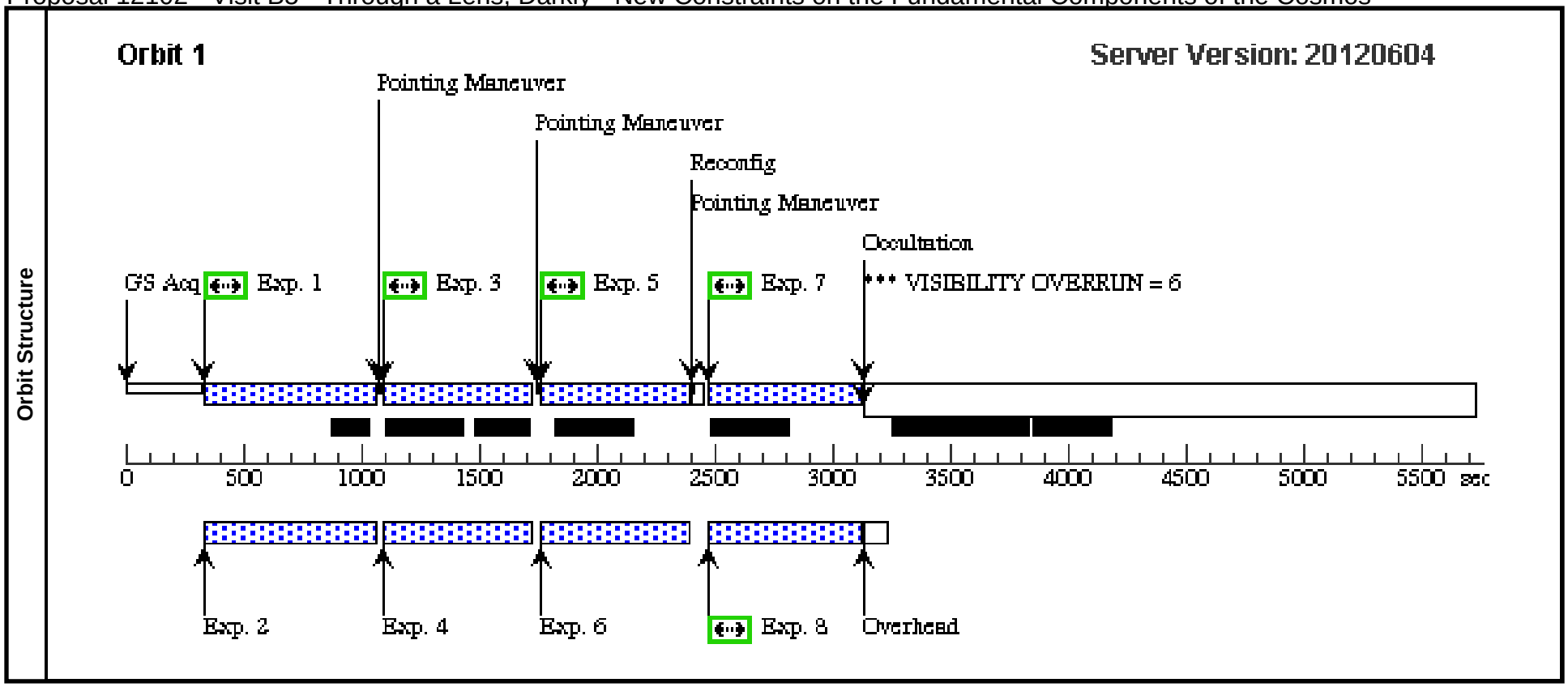
(Visit B5) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(5)	MS2137-2353-WFC3PAR2	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit B5	525 Secs *[==>525 Secs]*	 ***[1]***
2		(5) MS2137-2353-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS100; NSAMP=8		Prime + Parallel Group 1-2 in Visit B5	*[==>]*	***[1]***
3		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F625W		POS TARG 0.3211,0.7917	Prime + Parallel Group 3-4 in Visit B5	507 Secs *[==>507.0 Secs]*	 ***[1]***
4		(5) MS2137-2353-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B5	*[==>]*	***[1]***
5		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG 1.0868,0.5573	Prime + Parallel Group 5-6 in Visit B5	551 Secs *[==>453 Secs]*	 ***[1]***
6		(5) MS2137-2353-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B5	*[==>]*	***[1]***
7		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F435W		POS TARG -0.3211,-0.1742	Prime + Parallel Group 7-8 in Visit B5	564 Secs *[==>528 Secs]*	 ***[1]***
8		(5) MS2137-2353-WFC3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B5	400 Secs *[==>622 Secs]*	 ***[1]***


Orbit Structure
Orbit 1
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Reconfig
Pointing Maneuver
Occultation
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
*** VISIBILITY OVERRUN = 6
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Overhead

Visit

Proposal 12102, Visit B6, completed Wed Jul 04 01:42:11 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS B0; SEQ B5,B6 WITHIN 1.2 Orbits

Comments: Visits B5-B6 represent epoch 3 (at orient 2) and should be taken concurrently

Diagnostics

(Visit B6) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit B6) Warning (Orbit Planner): VISIBILITY OVERRUN

(Visit B6) Warning (Orbit Planner): PARALLELS SIGNIFICANTLY EXTEND ALIGNMENT TIME

(Visit B6) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

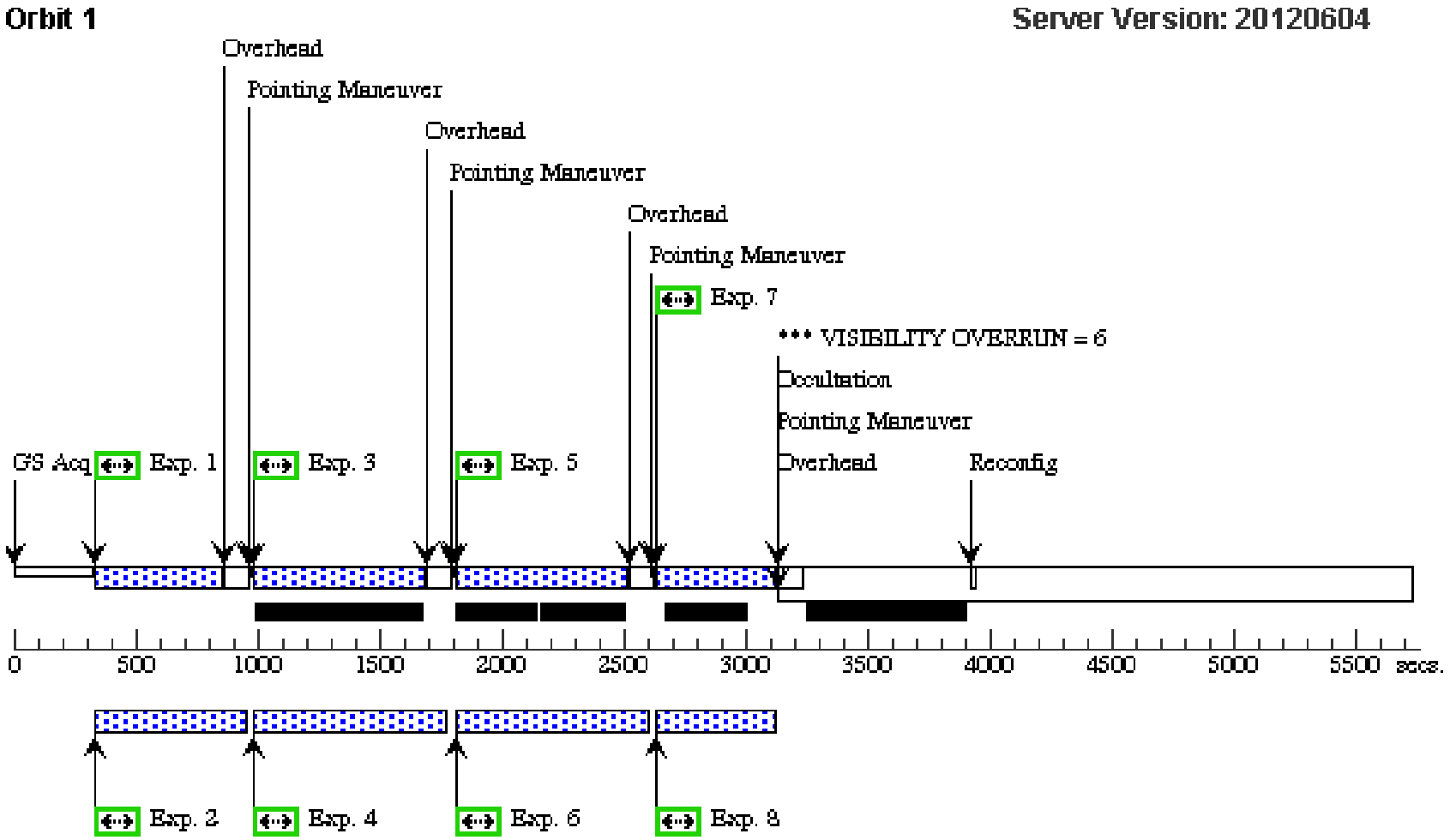
Fixed Targets

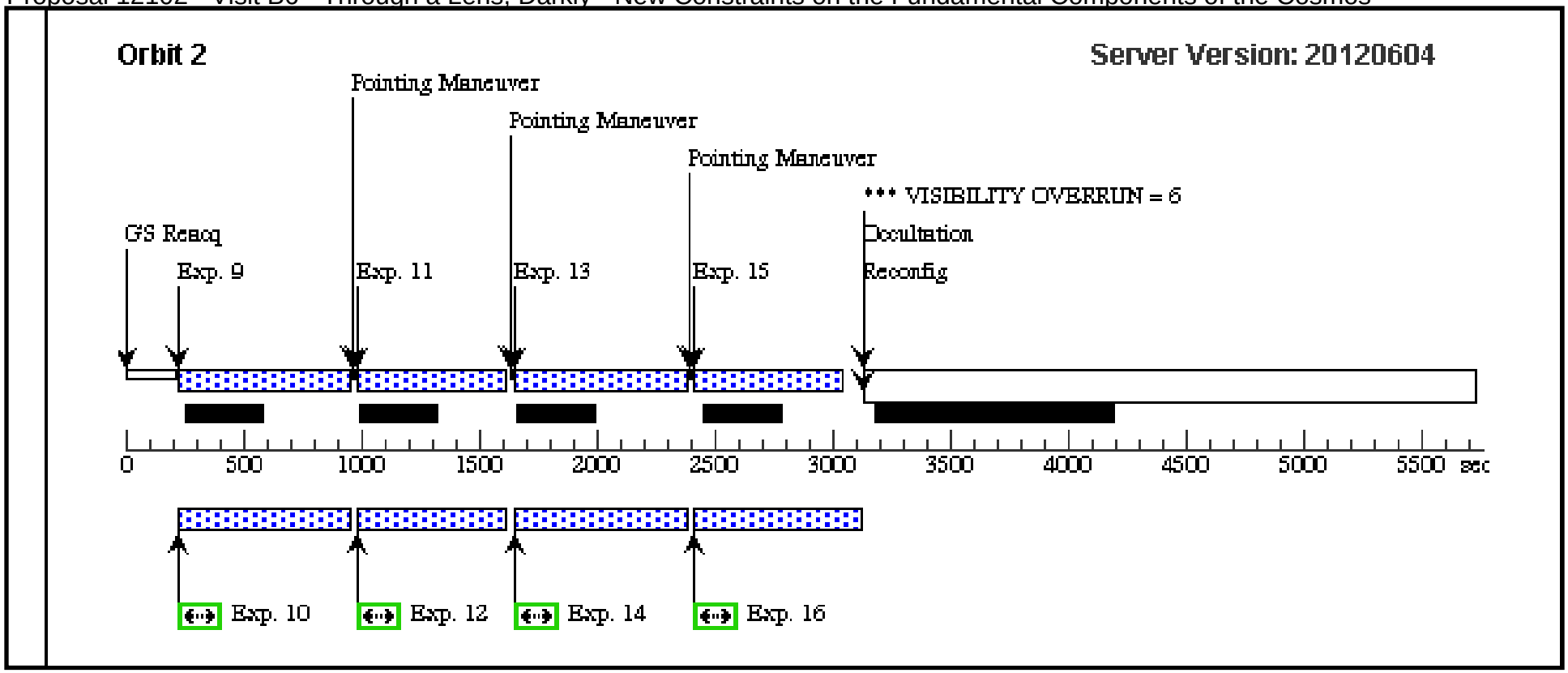
#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(4)	MS2137-2353-ACSPAR2	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group up 1-2 in Visit B6	600 Secs *[==>490.0 Secs]*	***[1]***
2		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 1-2 in Visit B6	600 Secs *[==>410.0 Secs]*	***[1]***
3		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.0594,-0.0552	Prime + Parallel Group up 3-4 in Visit B6	600 Secs *[==>699.0 Secs]*	***[1]***
4		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 3-4 in Visit B6	600 Secs *[==>669 Secs]*	***[1]***
5		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG 0.1188,0.06735	Prime + Parallel Group up 5-6 in Visit B6	600 Secs *[==>699.0 Secs]*	***[1]***
6		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 5-6 in Visit B6	600 Secs *[==>669 Secs]*	***[1]***
7		(1) MS2137-2353	WFC3/UVIS, ACCUM, UVIS-FIX	F336W	CR-SPLIT=NO	POS TARG -0.0594,0.15395	Prime + Parallel Group up 7-8 in Visit B6	600 Secs *[==>490.0 Secs]*	***[1]***
8		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group up 7-8 in Visit B6	600 Secs *[==>339.0 Secs]*	***[1]***
9		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=SPARS100; NSAMP=8	POS TARG 0,0	Prime + Parallel Group up 9-10 in Visit B6	*[==>]*	***[2]***
10		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 9-10 in Visit B6	525 Secs *[==>581.0 Secs]*	***[2]***
11		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F140W	SAMP-SEQ=SPARS100; NSAMP=7	POS TARG -1.15175,0.42385	Prime + Parallel Group up 11-12 in Visit B6	*[==>]*	***[2]***
12		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 11-12 in Visit B6	607 Secs *[==>507.0 Secs]*	***[2]***
13		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS100; NSAMP=8	POS TARG -0.813,-0.30275	Prime + Parallel Group up 13-14 in Visit B6	*[==>]*	***[2]***
14		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group up 13-14 in Visit B6	481 Secs *[==>607 Secs]*	***[2]***
15		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F105W	SAMP-SEQ=SPARS100; NSAMP=7	POS TARG 0.33875,-0.1211	Prime + Parallel Group up 15-16 in Visit B6	*[==>]*	***[2]***
16		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group up 15-16 in Visit B6	576 Secs *[==>559 Secs]*	***[2]***

Orbit Structure




Orbit 2
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
*** VISIBILITY OVERRUN = 6
GS Reacq
Occultation
Exp. 9
Exp. 11
Exp. 13
Exp. 15
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 10
Exp. 12
Exp. 14
Exp. 16

Visit

Proposal 12102, Visit B7, completed Wed Jul 04 01:42:13 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, WFC3/UVIS, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS B0; AFTER B0 BY 59 D TO 61 D

Comments: Visits B7-B8 represent epoch 4 (at orient 2) and should be taken concurrently

Diagnostics

(Visit B7) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

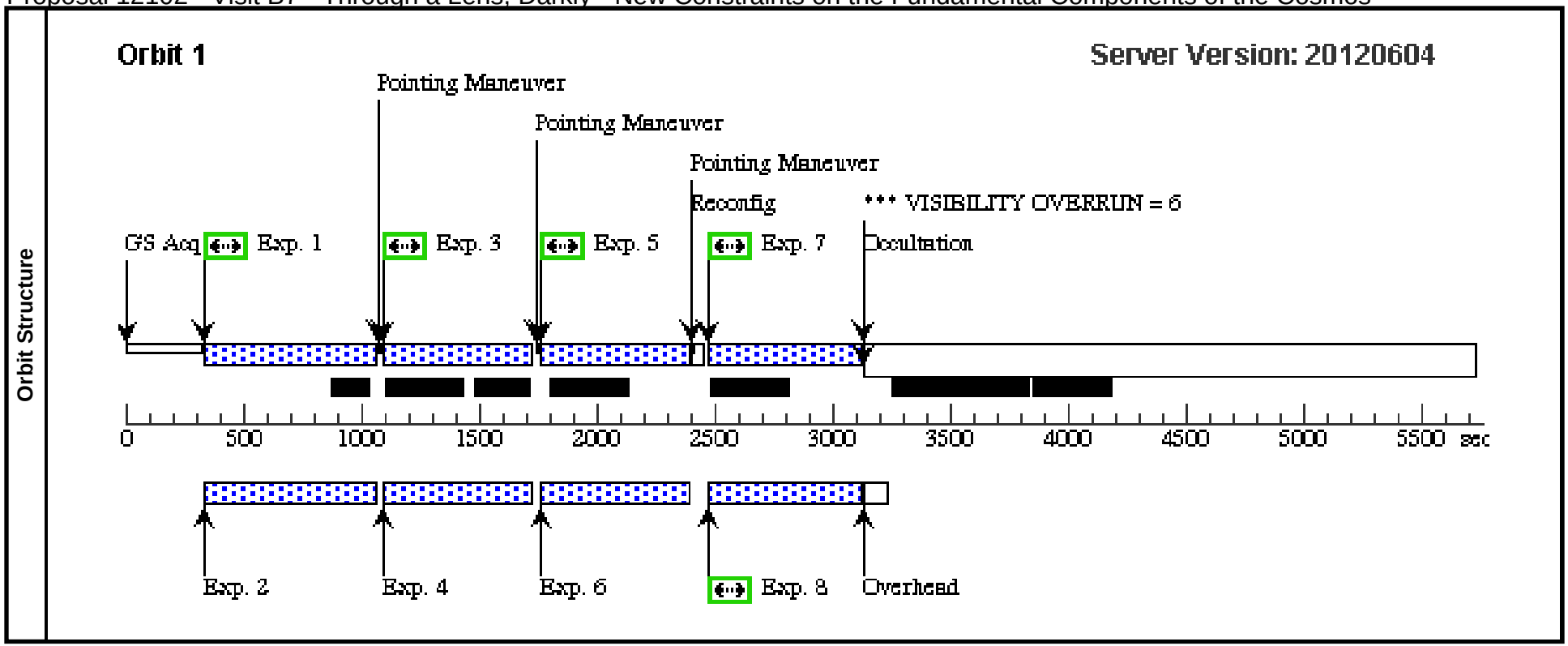
(Visit B7) Warning (Orbit Planner): VISIBILITY OVERRUN

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(5)	MS2137-2353-WFC3PAR2	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit B7	525 Secs *[==>525 Secs]*	 ***[1]***
2		(5) MS2137-2353-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS100; NSAMP=8		Prime + Parallel Group 1-2 in Visit B7	*[==>]*	***[1]***
3		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F850LP		POS TARG 0.3211,0.7917	Prime + Parallel Group 3-4 in Visit B7	507 Secs *[==>507.0 Secs]*	 ***[1]***
4		(5) MS2137-2353-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS50; NSAMP=13		Prime + Parallel Group 3-4 in Visit B7	*[==>]*	***[1]***
5		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F475W		POS TARG 1.0868,0.5573	Prime + Parallel Group 5-6 in Visit B7	551 Secs *[==>470 Secs]*	 ***[1]***
6		(5) MS2137-2353-WFC3PAR2	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=7		Prime + Parallel Group 5-6 in Visit B7	*[==>]*	***[1]***
7		(1) MS2137-2353	ACS/WFC, ACCUM, WFC-FIX	F475W		POS TARG -0.3211,-0.1742	Prime + Parallel Group 7-8 in Visit B7	564 Secs *[==>528 Secs]*	 ***[1]***
8		(5) MS2137-2353-WFC3PAR2	WFC3/UVIS, ACCUM, UVIS-FIX	F350LP	CR-SPLIT=NO		Prime + Parallel Group 7-8 in Visit B7	400 Secs *[==>622 Secs]*	 ***[1]***


Orbit Structure
Orbit 1
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Reconfig
*** VISIBILITY OVERRUN = 6
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
Occultation
0
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1000
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2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Overhead

Visit

Proposal 12102, Visit B8, completed Wed Jul 04 01:42:14 GMT 2012

Diagnostic Status: Warning

Scientific Instruments: WFC3/IR, ACS/WFC

Special Requirements: SCHED 70%; SAME ORIENT AS B0; SEQ B7,B8 WITHIN 1.2 Orbits

Comments: Visits B7-B8 represent epoch 4 (at orient 2) and should be taken concurrently

Diagnostics

(Visit B8) Warning (Orbit Planner): VISIBILITY OVERRUN

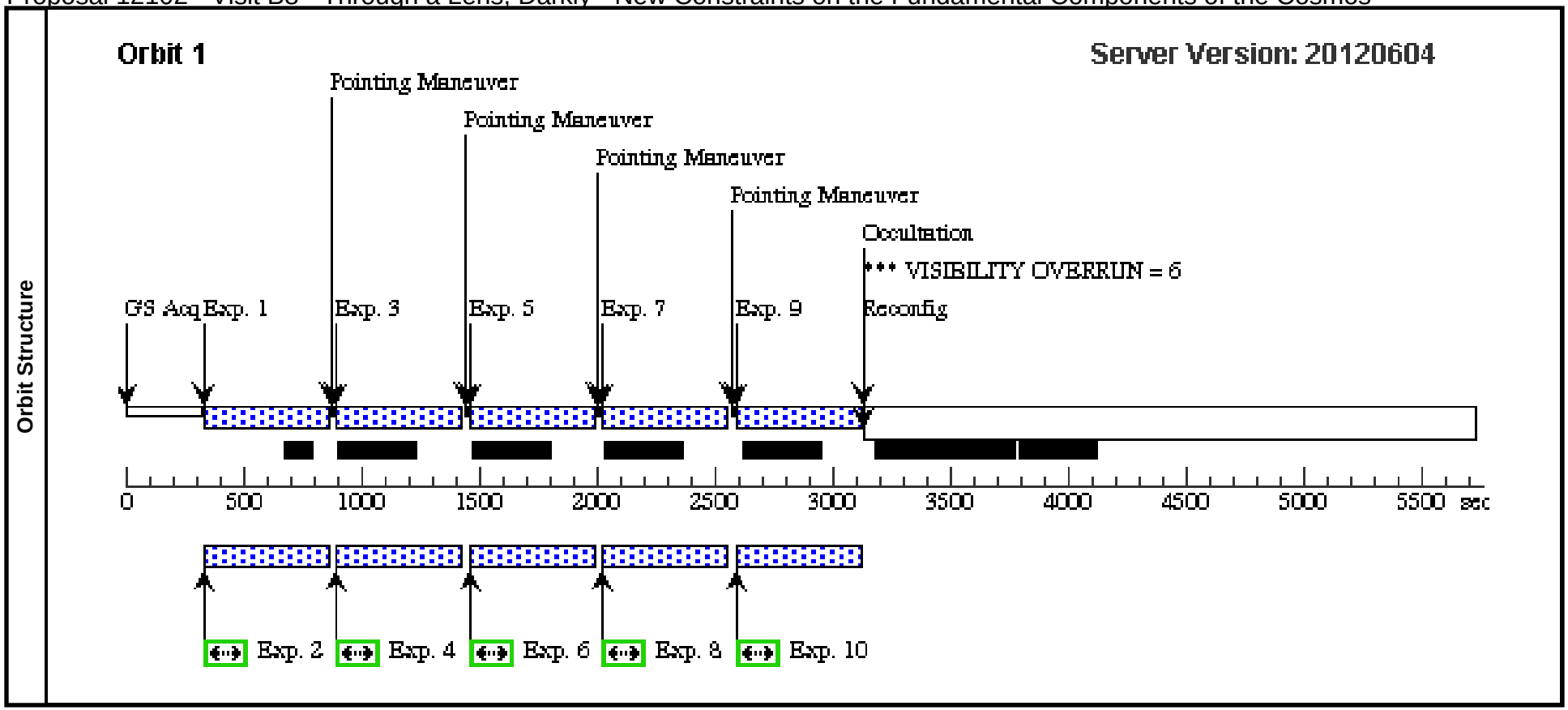
(Visit B8) Warning (Form): The proposal is part of a large program (100 orbits or more in one cycle) and so should use Schedulability 100.

Fixed Targets

#	Name	Target Coordinates	Targ. Coord. Corrections	Fluxes	Miscellaneous
(1)	MS2137-2353	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS
(4)	MS2137-2353-ACSPAR2	RA: 21 40 15.1700 (325.0632083d) Dec: -23 39 40.20 (-23.66117d) Equinox: J2000		V=15	Reference Frame: ICRS

Exposures

#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time/[Actual Dur.]	Orbit
1		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0,0; GS ACQ SCENARIO BASE1B3	Prime + Parallel Group 1-2 in Visit B8	*[==>]*	***[1]***
2		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 1-2 in Visit B8	525 Secs *[==>325.0 Secs]*	***[1]***
3		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG -1.15175,0.42385	Prime + Parallel Group 3-4 in Visit B8	*[==>]*	***[1]***
4		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 3-4 in Visit B8	607 Secs *[==>407 Secs]*	***[1]***
5		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F160W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG -0.813,-0.30275	Prime + Parallel Group 5-6 in Visit B8	*[==>]*	***[1]***
6		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 5-6 in Visit B8	582 Secs *[==>407 Secs]*	***[1]***
7		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG 0.33875,-0.1211	Prime + Parallel Group 7-8 in Visit B8	*[==>]*	***[1]***
8		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F850LP			Prime + Parallel Group 7-8 in Visit B8	587 Secs *[==>407.0 Secs]*	***[1]***
9		(1) MS2137-2353	WFC3/IR, MULTIACCUM, IR-FIX	F125W	SAMP-SEQ=SPARS100; NSAMP=6	POS TARG -0.813,-0.30275	Prime + Parallel Group 9-10 in Visit B8	*[==>]*	***[1]***
10		(4) MS2137-2353-ACSPAR2	ACS/WFC, ACCUM, WFC-FIX	F775W			Prime + Parallel Group 9-10 in Visit B8	587 Secs *[==>383 Secs]*	***[1]***


Orbit Structure
Orbit 1
Server Version: 20120604
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Pointing Maneuver
Occultation
*** VISIBILITY OVERRUN = 6
GS Acq
Exp. 1
Exp. 3
Exp. 5
Exp. 7
Exp. 9
Reconfig
0
500
1000
1500
2000
2500
3000
3500
4000
4500
5000
5500
sec
Exp. 2
Exp. 4
Exp. 6
Exp. 8
Exp. 10