



17673 - WFC3 UVIS CTI Monitor (EPER)

Cycle: 32, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>
Anne O'Connor (PI) (Contact)	Space Telescope Science Institute
Isabel Rivera (CoI) (Contact)	Space Telescope Science Institute
Frederick Dauphin (CoI) (Contact)	Space Telescope Science Institute

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	DARK TUNGSTEN	WFC3/UVIS	1	26-Nov-2024 16:02:11.0	yes
02	DARK TUNGSTEN	WFC3/UVIS	1	26-Nov-2024 16:02:11.0	yes
03	DARK TUNGSTEN	WFC3/UVIS	1	26-Nov-2024 16:02:12.0	yes
04	DARK TUNGSTEN	WFC3/UVIS	1	26-Nov-2024 16:02:12.0	yes
05	DARK TUNGSTEN	WFC3/UVIS	1	26-Nov-2024 16:02:13.0	yes
06	DARK TUNGSTEN	WFC3/UVIS	1	26-Nov-2024 16:02:13.0	yes
07	DARK TUNGSTEN	WFC3/UVIS	1	26-Nov-2024 16:02:13.0	yes

Proposal 17673 (STScI Edit Number: 2, Created: Tuesday, November 26, 2024, 4:02:16PM 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>
08	DARK TUNGSTEN	WFC3/UVIS	1	26-Nov-2024 16:02:14.0	yes
09	DARK TUNGSTEN	WFC3/UVIS	1	26-Nov-2024 16:02:14.0	yes
10	DARK TUNGSTEN	WFC3/UVIS	1	26-Nov-2024 16:02:15.0	yes
11	DARK TUNGSTEN	WFC3/UVIS	1	26-Nov-2024 16:02:15.0	yes
12	DARK TUNGSTEN	WFC3/UVIS	1	26-Nov-2024 16:02:15.0	yes

12 Total Orbits Used

ABSTRACT

This proposal measures CTI (Charge Transfer Inefficiency) for WFC3/UVIS, making use of the EPER mode, Extended Pixel Edge Response. EPER is not unique to WFC3 (also used on ACS) and measures trailing charge in detector overscan regions increased by extended pixels. The EPER program has many cycles worth of similar comparison, including proposals 11924, 12347, 12691, 13082, 12565, 14011, 14377, 14540, 14989, 15575, 15720, 16400, 17008, 17353

OBSERVING DESCRIPTION

In this 12 orbit program we take pairs of internal flat fields at varying levels of illumination. We take "biases" for this proposals as 1/2 second darks; WFC3/UVIS flight software is unable to take 0 second exposures in the non-standard EPER mode. Every visit pair includes two half-second darks, three F390M internal tungsten flats, and two F438W internal flats. The proposal lasts a full year, made up of 8 week visit pair increments .

The analysis is done with a pipeline to remove noise, calibrate images, and look for trends in CTI data, based on the work of Roberto (ISR 2007-13),

Proposal 17673 (STScI Edit Number: 2, Created: Tuesday, November 26, 2024, 4:02:16PM Eastern Standard Time) - Overview
automated by Bourque & Kozhurina-Platais (TIR 2012-03), and furthered by Khandrika (ISR 2020-06).

----- Additional Comments -----

Formerly, EPER programs took monthly instead of bi-monthly data.

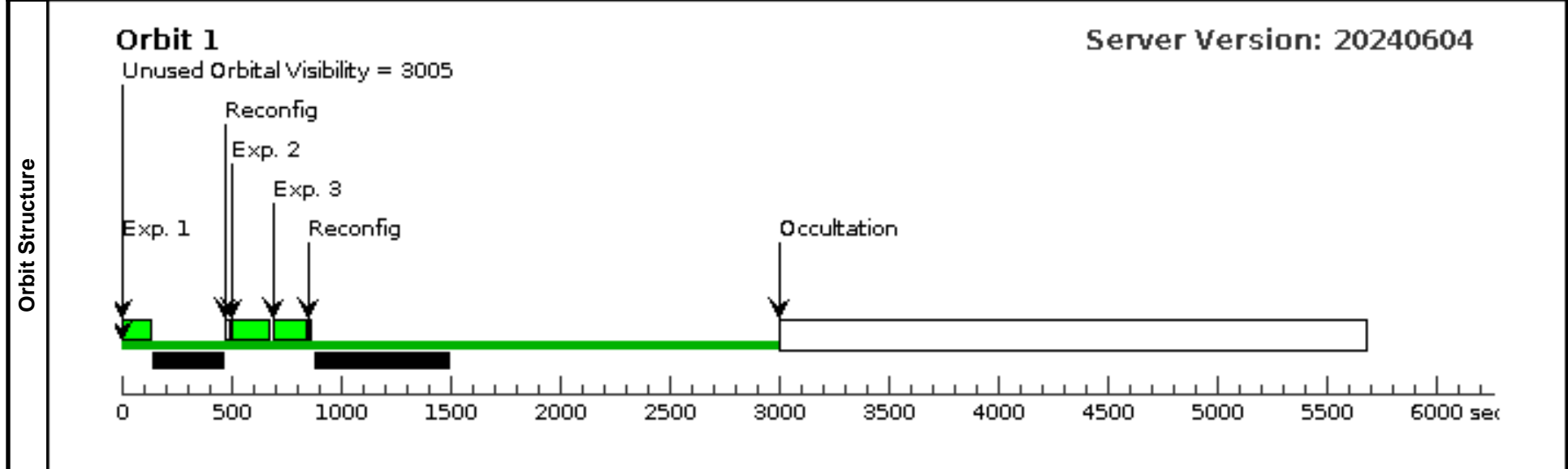
Proposal 17673 - Visit 01 - WFC3 UVIS CTI Monitor (EPER)

Tue Nov 26 21:02:16 GMT 2024

Visit	<p>Proposal 17673, Visit 01, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 02-NOV-2024:00:00:00 AND 01-DEC-2024:00:00:00; GROUP 01,02 WITHIN 1D</p>
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Diagnostics	<p>(Visit 01) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(Visit 01) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(9.2 (01.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(22.9 (01.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER				0.5 Secs (0.5 Secs)
									[==>]	[1]
2	9.2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER				9.2 Secs (9.2 Secs)	
									[==>]	[1]
3	22.9	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER				22.9 Secs (22.9 Secs)	
									[==>]	[1]



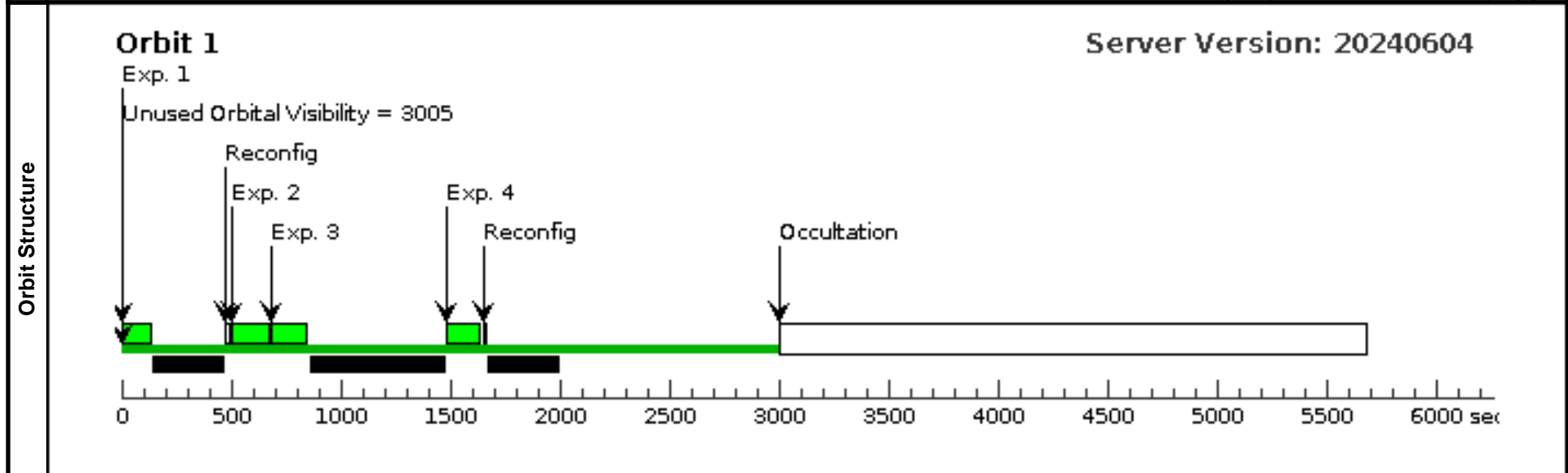
Proposal 17673 - Visit 02 - WFC3 UVIS CTI Monitor (EPER)

Tue Nov 26 21:02:16 GMT 2024

Visit	<p>Proposal 17673, Visit 02, completed</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: (none)</p>
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Diagnostics	(Visit 02) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB VISIT
	(Visit 02) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED
	(Visit 02) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED
	(6.4 (02.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(7.6 (02.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser	
(22.7 (02.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER			0.5 Secs (0.5 Secs)	
									[==>]	[1]
	2	6.4	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390W	CTE=EPER			6.4 Secs (6.4 Secs)	
								[==>]	[1]	
	3	7.6	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F438W	CTE=EPER			7.6 Secs (7.6 Secs)	
								[==>]	[1]	
	4	22.7	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F438W	CTE=EPER			22.7 Secs (22.7 Secs)	
								[==>]	[1]	



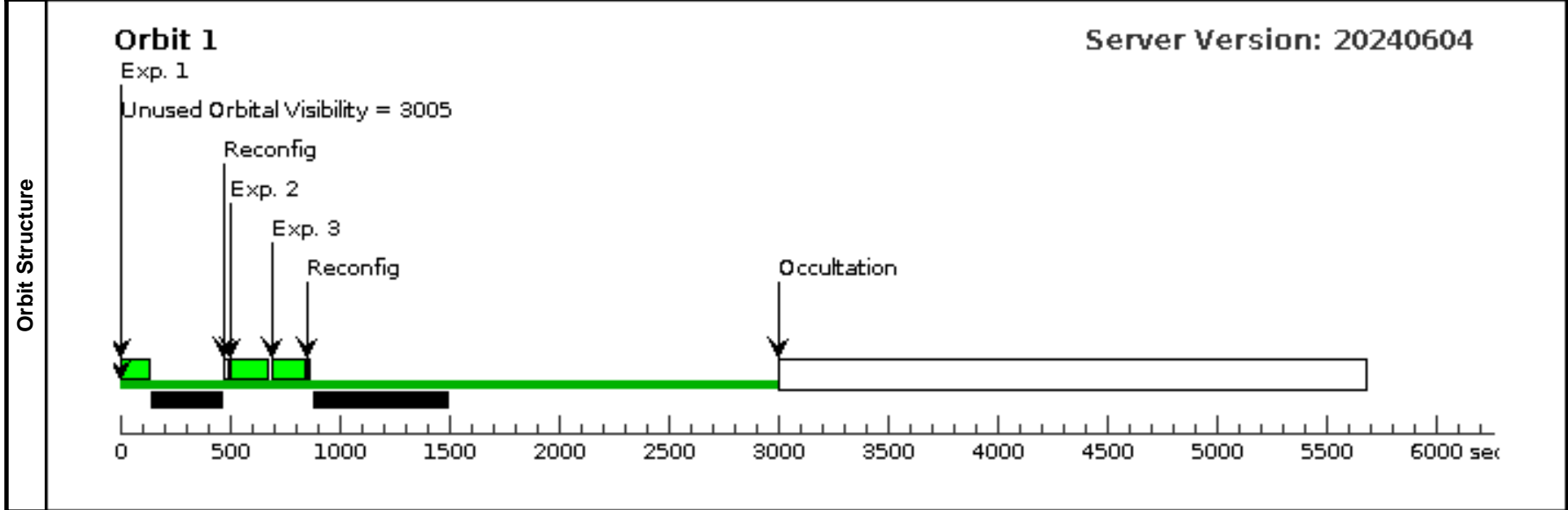
Proposal 17673 - Visit 03 - WFC3 UVIS CTI Monitor (EPER)

Tue Nov 26 21:02:16 GMT 2024

Visit	<p>Proposal 17673, Visit 03, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-JAN-2025:00:00:00 AND 01-FEB-2025:00:00:00: GROUP 03,04 WITHIN 1D</p>
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Diagnostics	<p>(Visit 03) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(Visit 03) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(9.2 (03.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(22.9 (03.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	0.5	DARK		WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER			0.5 Secs (0.5 Secs) [==>]
2	9.2	TUNGSTEN		WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER			9.2 Secs (9.2 Secs) [==>]	[1]
3	22.9	TUNGSTEN		WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER			22.9 Secs (22.9 Secs) [==>]	[1]



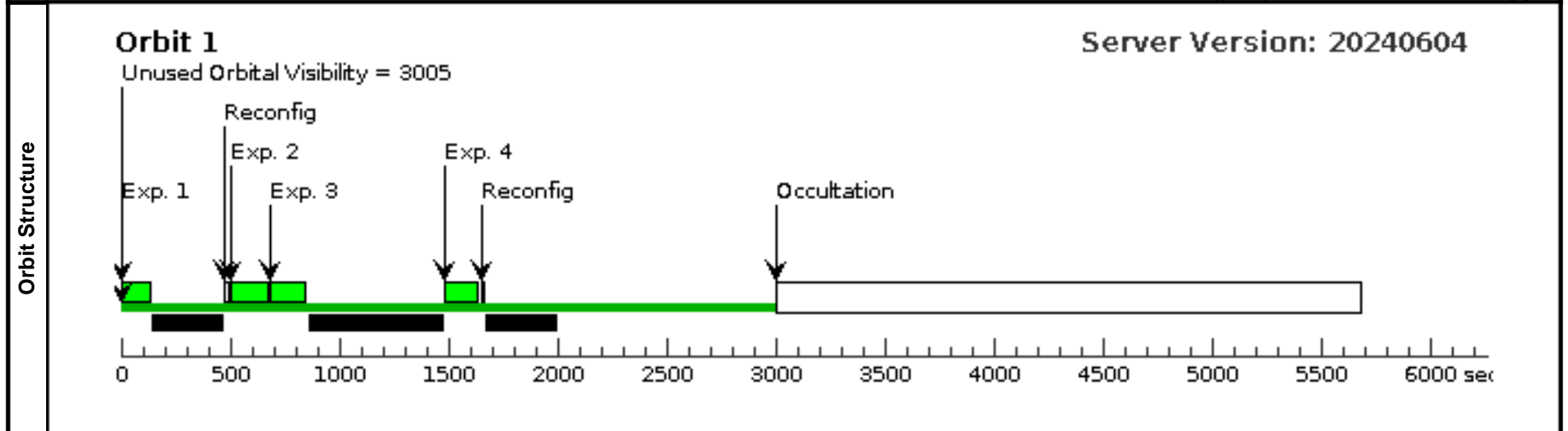
Proposal 17673 - Visit 04 - WFC3 UVIS CTI Monitor (EPER)

Tue Nov 26 21:02:16 GMT 2024

Visit	<p>Proposal 17673, Visit 04, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: (none)</p>
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Diagnostics	<p>(Visit 04) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB VISIT</p> <p>(Visit 04) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(Visit 04) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(6.4 (04.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(7.6 (04.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(22.7 (04.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER				0.5 Secs (0.5 Secs)
									[==>]	[1]
2	6.4	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390W	CTE=EPER				6.4 Secs (6.4 Secs)	
									[==>]	[1]
3	7.6	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F438W	CTE=EPER				7.6 Secs (7.6 Secs)	
									[==>]	[1]
4	22.7	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F438W	CTE=EPER				22.7 Secs (22.7 Secs)	
									[==>]	[1]



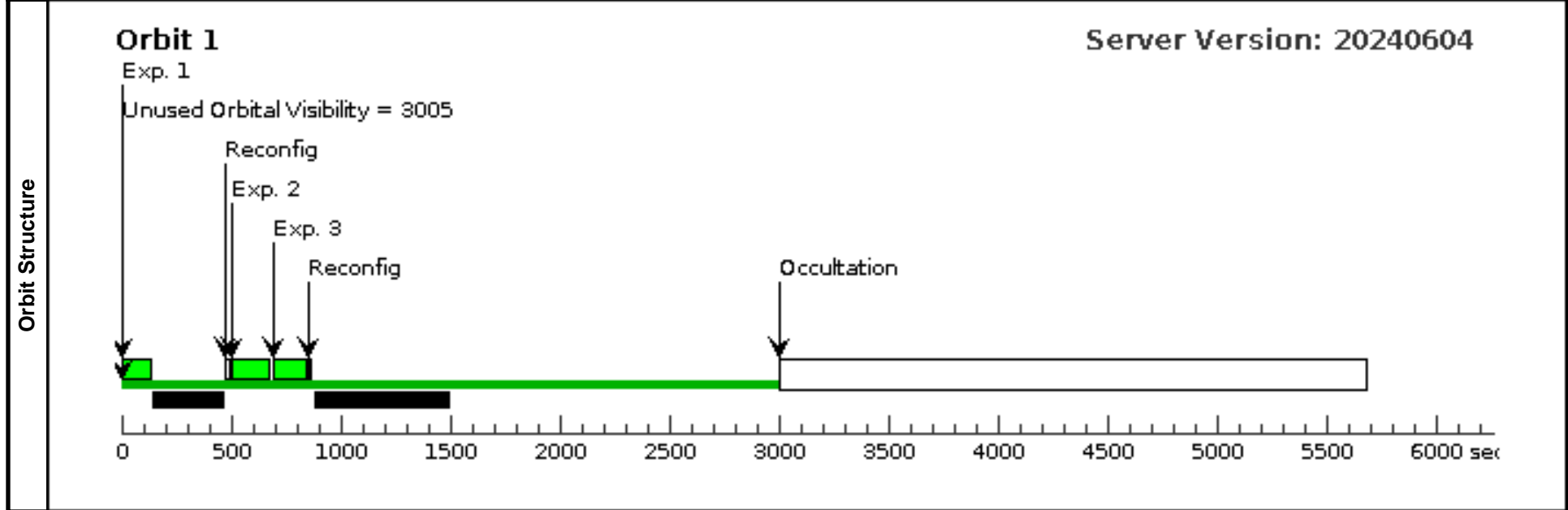
Proposal 17673 - Visit 05 - WFC3 UVIS CTI Monitor (EPER)

Tue Nov 26 21:02:16 GMT 2024

Visit	Proposal 17673, Visit 05, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-MAR-2025:00:00:00 AND 01-APR-2025:00:00:00; GROUP 05.06 WITHIN 1D
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Diagnostics	(Visit 05) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (Visit 05) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (9.2 (05.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (22.9 (05.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
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Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER				0.5 Secs (0.5 Secs) [==>]
2	9.2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER				9.2 Secs (9.2 Secs) [==>]	[1]
3	22.9	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER				22.9 Secs (22.9 Secs) [==>]	[1]



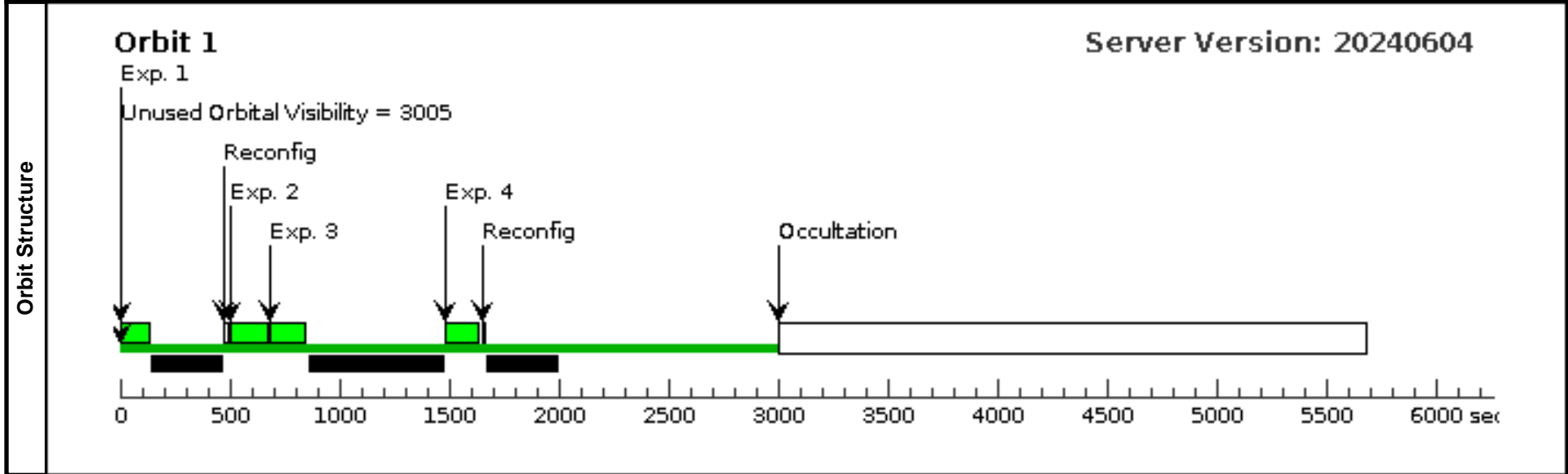
Proposal 17673 - Visit 06 - WFC3 UVIS CTI Monitor (EPER)

Tue Nov 26 21:02:16 GMT 2024

Visit	Proposal 17673, Visit 06, scheduling									
	Diagnostic Status: Warning									
	Scientific Instruments: WFC3/UVIS									
	Special Requirements: (none)									

Diagnostics	(Visit 06) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB VISIT									
	(Visit 06) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED									
	(Visit 06) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED									
	(6.4 (06.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
	(7.6 (06.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER			0.5 Secs (0.5 Secs)	
									[==>]	[1]
	2	6.4	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390W	CTE=EPER			6.4 Secs (6.4 Secs)	
									[==>]	[1]
3	7.6	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F438W	CTE=EPER			7.6 Secs (7.6 Secs)		
								[==>]	[1]	
4	22.7	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F438W	CTE=EPER			22.7 Secs (22.7 Secs)		
								[==>]	[1]	



Proposal 17673 - Visit 07 - WFC3 UVIS CTI Monitor (EPER)

Tue Nov 26 21:02:16 GMT 2024

Visit	Proposal 17673, Visit 07, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-MAY-2025:00:00:00 AND 01-JUN-2025:00:00:00; GROUP 07.08 WITHIN 1D										
	Diagnosics (Visit 07) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (Visit 07) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED (9.2 (07.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser (22.9 (07.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser										
Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]		Orbit
	1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER			0.5 Secs (0.5 Secs)		
										[==>]	[1]
	2	9.2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER			9.2 Secs (9.2 Secs)		
										[==>]	[1]
	3	22.9	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER			22.9 Secs (22.9 Secs)		
									[==>]	[1]	
Orbit Structure	Orbit 1 Server Version: 20240604 Unused Orbital Visibility = 3005										
	<p>The diagram shows the orbital structure for Orbit 1. The x-axis represents time in seconds, ranging from 0 to 6000. Key events are marked with arrows: Exp. 1 (0-0.5s), Reconfig (0.5-0.6s), Exp. 2 (0.6-9.2s), Reconfig (9.2-9.3s), Exp. 3 (9.3-22.9s), Reconfig (22.9-23.0s), and Occultation (3000-5700s). A green bar at the bottom indicates the total orbital visibility, which ends at 3000 seconds. Black bars below the green bar indicate periods of non-visibility. The text 'Unused Orbital Visibility = 3005' is shown at the top left.</p>										

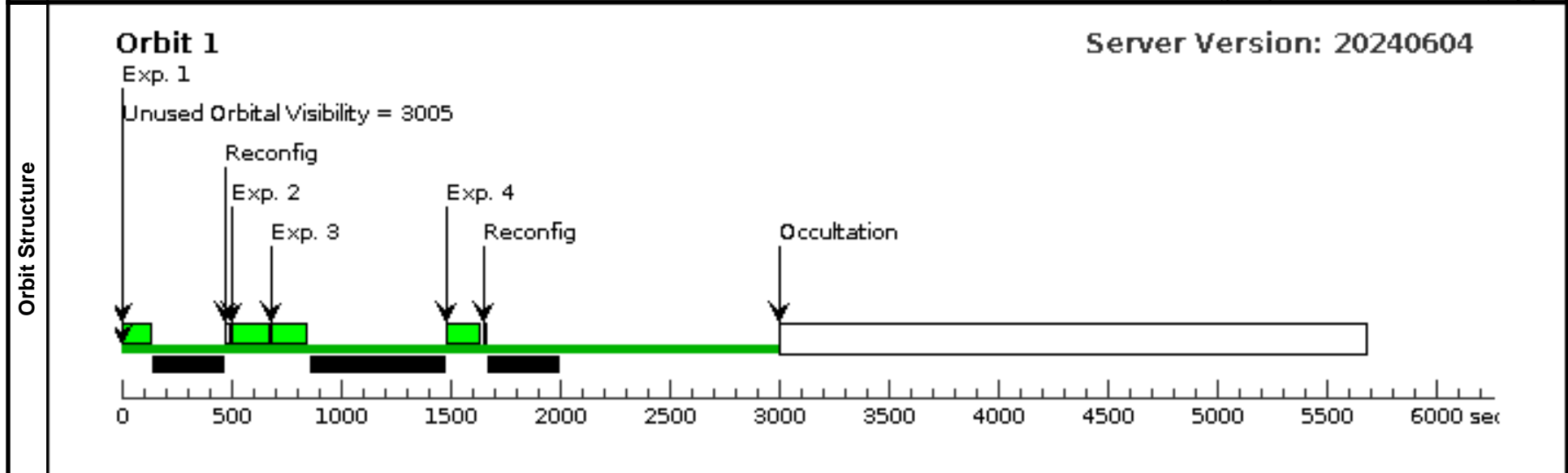
Proposal 17673 - Visit 08 - WFC3 UVIS CTI Monitor (EPER)

Tue Nov 26 21:02:16 GMT 2024

Visit	Proposal 17673, Visit 08, scheduling									
	Diagnostic Status: Warning									
	Scientific Instruments: WFC3/UVIS									
	Special Requirements: (none)									

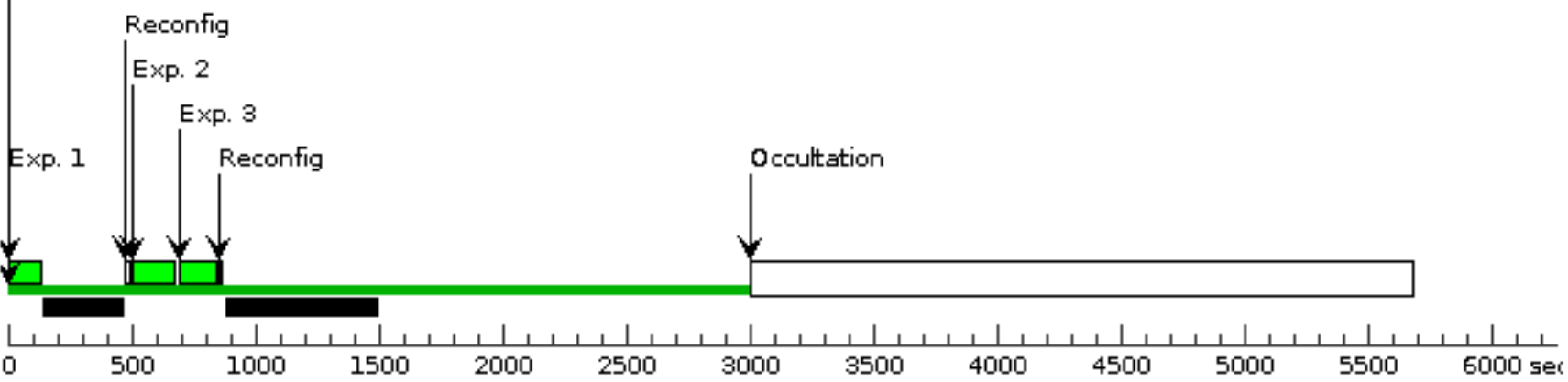
Diagnostics	(Visit 08) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB VISIT									
	(Visit 08) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED									
	(Visit 08) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED									
	(6.4 (08.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
	(7.6 (08.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER			0.5 Secs (0.5 Secs)	
									[==>]	[1]
	2	6.4	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390W	CTE=EPER			6.4 Secs (6.4 Secs)	
									[==>]	[1]
3	7.6	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F438W	CTE=EPER			7.6 Secs (7.6 Secs)		
								[==>]	[1]	
4	22.7	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F438W	CTE=EPER			22.7 Secs (22.7 Secs)		
								[==>]	[1]	



Proposal 17673 - Visit 09 - WFC3 UVIS CTI Monitor (EPER)

Tue Nov 26 21:02:16 GMT 2024

Visit	<p>Proposal 17673, Visit 09, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-JUL-2025:00:00:00 AND 01-AUG-2025:00:00:00; GROUP 09.10 WITHIN 1D</p>																																																																															
Diagnostics	<p>(Visit 09) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(Visit 09) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(9.2 (09.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(22.9 (09.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																																																																															
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.5</td> <td>DARK</td> <td>WFC3/UVIS, ACCUM, UVIS</td> <td>DEF</td> <td>CTE=EPER</td> <td></td> <td></td> <td>0.5 Secs (0.5 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>9.2</td> <td>TUNGSTEN</td> <td>WFC3/UVIS, ACCUM, UVIS</td> <td>F390M</td> <td>CTE=EPER</td> <td></td> <td></td> <td>9.2 Secs (9.2 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>22.9</td> <td>TUNGSTEN</td> <td>WFC3/UVIS, ACCUM, UVIS</td> <td>F390M</td> <td>CTE=EPER</td> <td></td> <td></td> <td>22.9 Secs (22.9 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> </tbody> </table>										#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER			0.5 Secs (0.5 Secs)										[==>]	[1]	2	9.2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER			9.2 Secs (9.2 Secs)										[==>]	[1]	3	22.9	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER			22.9 Secs (22.9 Secs)										[==>]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																							
1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER			0.5 Secs (0.5 Secs)																																																																								
								[==>]	[1]																																																																							
2	9.2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER			9.2 Secs (9.2 Secs)																																																																								
								[==>]	[1]																																																																							
3	22.9	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER			22.9 Secs (22.9 Secs)																																																																								
								[==>]	[1]																																																																							
Orbit Structure	<div style="display: flex; justify-content: space-between;"> <div data-bbox="226 646 646 714"> <p>Orbit 1</p> <p>Unused Orbital Visibility = 3005</p> </div> <div data-bbox="1411 646 1894 678"> <p>Server Version: 20240604</p> </div> </div>  <p>The diagram shows a timeline for Orbit 1 from 0 to 6000 seconds. Key events include:</p> <ul style="list-style-type: none"> Exp. 1: Occurs at approximately 100 seconds. Reconfig: Occurs at approximately 450 seconds. Exp. 2: Occurs at approximately 550 seconds. Exp. 3: Occurs at approximately 750 seconds. Reconfig: Occurs at approximately 850 seconds. Occultation: Begins at 3000 seconds and continues until approximately 5700 seconds. <p>Exposures are represented by green bars, reconfigurations by vertical lines, and occultation by a long white bar. A green horizontal line at the bottom indicates the active orbital visibility period.</p>																																																																															

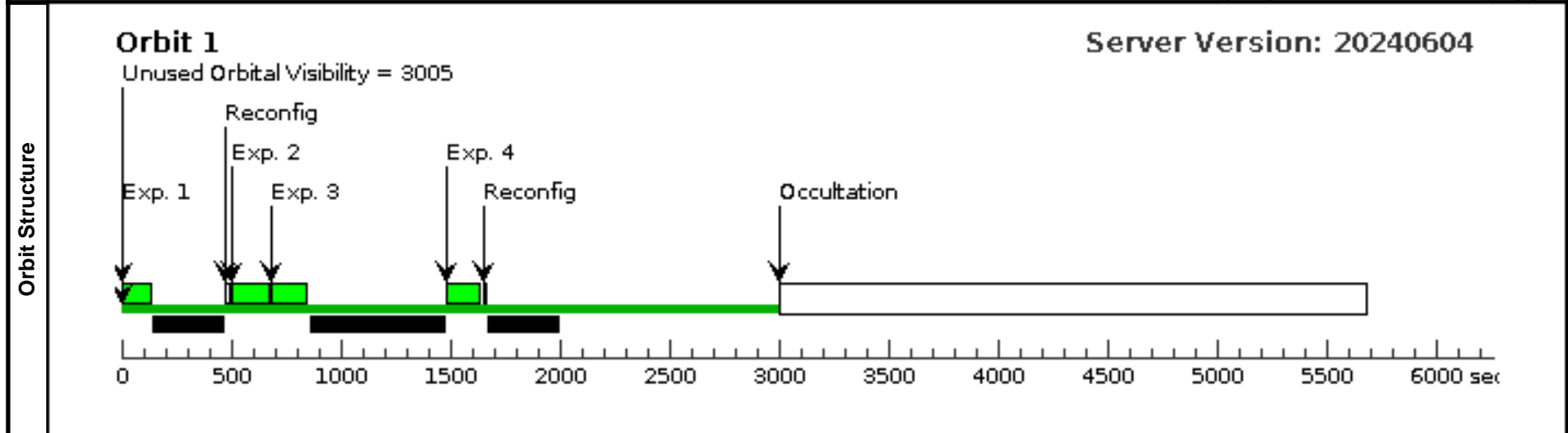
Proposal 17673 - Visit 10 - WFC3 UVIS CTI Monitor (EPER)

Tue Nov 26 21:02:16 GMT 2024

Visit	Proposal 17673, Visit 10, scheduling Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)
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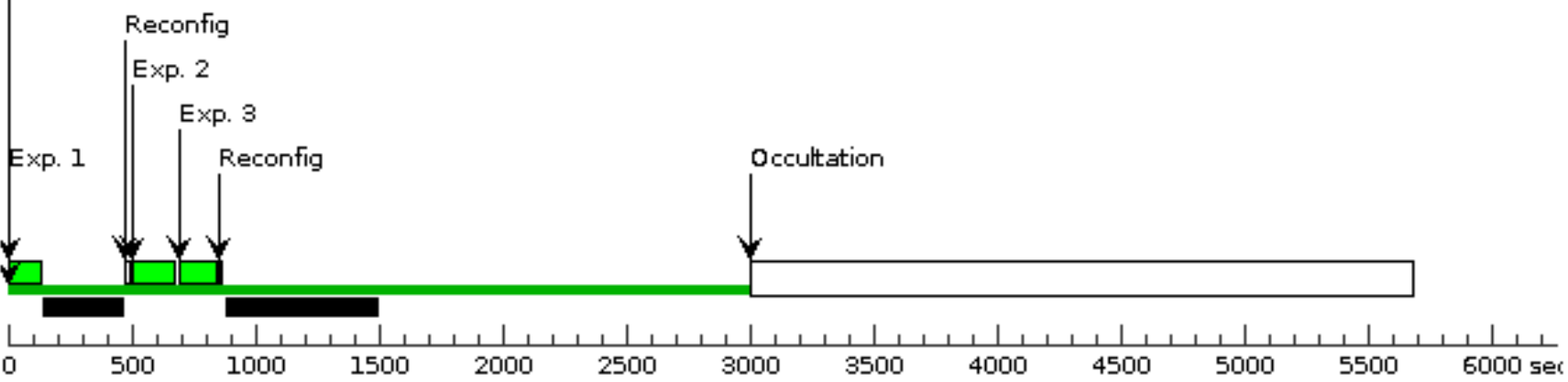
Diagnostics	(Visit 10) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB VISIT
	(Visit 10) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED
	(Visit 10) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED
	(6.4 (10.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser
(7.6 (10.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser	
(22.7 (10.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser	

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER			0.5 Secs (0.5 Secs)	
									[==>]	[1]
	2	6.4	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390W	CTE=EPER			6.4 Secs (6.4 Secs)	
								[==>]	[1]	
	3	7.6	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F438W	CTE=EPER			7.6 Secs (7.6 Secs)	
								[==>]	[1]	
	4	22.7	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F438W	CTE=EPER			22.7 Secs (22.7 Secs)	
								[==>]	[1]	



Proposal 17673 - Visit 11 - WFC3 UVIS CTI Monitor (EPER)

Tue Nov 26 21:02:16 GMT 2024

Visit	<p>Proposal 17673, Visit 11, scheduling</p> <p>Diagnostic Status: Warning</p> <p>Scientific Instruments: WFC3/UVIS</p> <p>Special Requirements: BETWEEN 01-SEP-2025:00:00:00 AND 01-OCT-2025:00:00:00: GROUP 11,12 WITHIN 1D</p>																																																																															
Diagnostics	<p>(Visit 11) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(Visit 11) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED</p> <p>(9.2 (11.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p> <p>(22.9 (11.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser</p>																																																																															
Exposures	<table border="1"> <thead> <tr> <th>#</th> <th>Label</th> <th>Target</th> <th>Config,Mode,Aperture</th> <th>Spectral Els.</th> <th>Opt. Params.</th> <th>Special Reqs.</th> <th>Groups</th> <th>Exp. Time (Total)/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.5</td> <td>DARK</td> <td>WFC3/UVIS, ACCUM, UVIS</td> <td>DEF</td> <td>CTE=EPER</td> <td></td> <td></td> <td>0.5 Secs (0.5 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>9.2</td> <td>TUNGSTEN</td> <td>WFC3/UVIS, ACCUM, UVIS</td> <td>F390M</td> <td>CTE=EPER</td> <td></td> <td></td> <td>9.2 Secs (9.2 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>22.9</td> <td>TUNGSTEN</td> <td>WFC3/UVIS, ACCUM, UVIS</td> <td>F390M</td> <td>CTE=EPER</td> <td></td> <td></td> <td>22.9 Secs (22.9 Secs)</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>[==>]</td> <td>[1]</td> </tr> </tbody> </table>										#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit	1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER			0.5 Secs (0.5 Secs)										[==>]	[1]	2	9.2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER			9.2 Secs (9.2 Secs)										[==>]	[1]	3	22.9	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER			22.9 Secs (22.9 Secs)										[==>]	[1]
#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit																																																																							
1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER			0.5 Secs (0.5 Secs)																																																																								
								[==>]	[1]																																																																							
2	9.2	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER			9.2 Secs (9.2 Secs)																																																																								
								[==>]	[1]																																																																							
3	22.9	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390M	CTE=EPER			22.9 Secs (22.9 Secs)																																																																								
								[==>]	[1]																																																																							
Orbit Structure	<div style="display: flex; justify-content: space-between;"> <div data-bbox="226 646 646 714"> <p>Orbit 1</p> <p>Unused Orbital Visibility = 3005</p> </div> <div data-bbox="1411 646 1894 678"> <p>Server Version: 20240604</p> </div> </div>  <p>The diagram shows a timeline for Orbit 1 from 0 to 6000 seconds. Key events include:</p> <ul style="list-style-type: none"> Exp. 1: Occurs at approximately 100 seconds. Reconfig: Occurs at approximately 450 seconds. Exp. 2: Occurs at approximately 550 seconds. Exp. 3: Occurs at approximately 750 seconds. Reconfig: Occurs at approximately 850 seconds. Occultation: Begins at 3000 seconds and continues until approximately 5700 seconds. <p>Exposures are represented by green bars, and occultation is represented by a white bar. The x-axis is labeled in seconds (0 to 6000).</p>																																																																															

Proposal 17673 - Visit 12 - WFC3 UVIS CTI Monitor (EPER)

Tue Nov 26 21:02:16 GMT 2024

Visit	Proposal 17673, Visit 12, scheduling									
	Diagnostic Status: Warning									
	Scientific Instruments: WFC3/UVIS									
	Special Requirements: (none)									

Diagnostics	(Visit 12) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB VISIT									
	(Visit 12) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED									
	(Visit 12) Warning (Orbit Planner): WFC3 EXPOSURE TIME ADJUSTED									
	(6.4 (12.002)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser									
(7.6 (12.003)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser										
(22.7 (12.004)) Warning (Form): FLASH level may be too low for this exposure or a short subexposure. See extended explanation in the diagnostic browser										

Exposures	#	Label	Target	Config,Mode,Aperture	Spectral Els.	Opt. Params.	Special Reqs.	Groups	Exp. Time (Total)/[Actual Dur.]	Orbit
	1	0.5	DARK	WFC3/UVIS, ACCUM, UVIS	DEF	CTE=EPER			0.5 Secs (0.5 Secs)	
									[==>]	[1]
	2	6.4	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F390W	CTE=EPER			6.4 Secs (6.4 Secs)	
								[==>]	[1]	
	3	7.6	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F438W	CTE=EPER			7.6 Secs (7.6 Secs)	
								[==>]	[1]	
	4	22.7	TUNGSTEN	WFC3/UVIS, ACCUM, UVIS	F438W	CTE=EPER			22.7 Secs (22.7 Secs)	
								[==>]	[1]	

