



16400 - WFC3 UVIS CTI Monitor (EPER)

Cycle: 28, Proposal Category: CAL/WFC3

(Availability Mode: RESTRICTED)

INVESTIGATORS

<i>Name</i>	<i>Institution</i>	<i>E-Mail</i>
Mr. Harish Khandrika (PI) (Contact)	Space Telescope Science Institute	hkhandrika@stsci.edu
Benjamin Kuhn (CoI)	Space Telescope Science Institute	bkuhn@stsci.edu

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	31-Jul-2020 14:02:10.0	yes
02	DARK TUNGSTEN	WFC3/UVIS	1	31-Jul-2020 14:02:11.0	yes
03	DARK TUNGSTEN	WFC3/UVIS	1	31-Jul-2020 14:02:12.0	yes
04	DARK TUNGSTEN	WFC3/UVIS	1	31-Jul-2020 14:02:12.0	yes
05	DARK TUNGSTEN	WFC3/UVIS	1	31-Jul-2020 14:02:13.0	yes
06	DARK TUNGSTEN	WFC3/UVIS	1	31-Jul-2020 14:02:13.0	yes
07	DARK TUNGSTEN	WFC3/UVIS	1	31-Jul-2020 14:02:14.0	yes
08	DARK TUNGSTEN	WFC3/UVIS	1	31-Jul-2020 14:02:14.0	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>
09	DARK TUNGSTEN	WFC3/UVIS	1	31-Jul-2020 14:02:15.0	yes
10	DARK TUNGSTEN	WFC3/UVIS	1	31-Jul-2020 14:02:15.0	yes
11	DARK TUNGSTEN	WFC3/UVIS	1	31-Jul-2020 14:02:16.0	yes
12	DARK TUNGSTEN	WFC3/UVIS	1	31-Jul-2020 14:02:16.0	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, and 15720

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 Robberto (ISR 2007-13), 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 16400 - Visit 01 - WFC3 UVIS CTI Monitor (EPER)

Visit	Proposal 16400, Visit 01 Fri Jul 31 18:02:17 GMT 2020									
	Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 02-NOV-2020:00:00:00 AND 01-DEC-2020:00:00:00; GROUP 01,02 WITHIN 1D									
Diagnostics	(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 (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									
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: 20200619									
	Unused Orbital Visibility = 3142 The diagram illustrates the timeline of Orbit 1, which lasts for 6000 seconds. Key events include: Exp. 1: Occurs from 0 to 100 seconds. Reconfig: Occurs from 100 to 450 seconds. Exp. 2: Occurs from 450 to 460 seconds. Reconfig: Occurs from 460 to 750 seconds. Exp. 3: Occurs from 750 to 760 seconds. Reconfig: Occurs from 760 to 3142 seconds. Occultation: Begins at 3142 seconds and continues until the end of the orbit.									

Proposal 16400 - Visit 02 - WFC3 UVIS CTI Monitor (EPER)

Visit	Proposal 16400, Visit 02 Fri Jul 31 18:02:17 GMT 2020									
	Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Diagnostics	(Visit 02) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (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]
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Reconfig Exp. 2 Exp. 3 Exp. 4 Reconfig Occultation									
	Server Version: 20200619									

Proposal 16400 - Visit 03 - WFC3 UVIS CTI Monitor (EPER)

Visit	Proposal 16400, Visit 03 Fri Jul 31 18:02:17 GMT 2020									
	Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-JAN-2021:00:00:00 AND 01-FEB-2021:00:00:00; GROUP 03,04 WITHIN 1D									
Diagnostics	(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 (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									
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: 20200619									
	Unused Orbital Visibility = 3142 									

Proposal 16400 - Visit 04 - WFC3 UVIS CTI Monitor (EPER)

Visit	Proposal 16400, Visit 04 Fri Jul 31 18:02:17 GMT 2020									
	Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Diagnostics	(Visit 04) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (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 (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 (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									
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]
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Reconfig Exp. 2 Exp. 3 Exp. 4 Reconfig Occultation									
	Server Version: 20200619									

Proposal 16400 - Visit 05 - WFC3 UVIS CTI Monitor (EPER)

Visit	Proposal 16400, Visit 05 Fri Jul 31 18:02:17 GMT 2020									
	Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-MAR-2021:00:00:00 AND 01-APR-2021:00:00:00; GROUP 05,06 WITHIN 1D									
Diagnostics	(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									
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: 20200619									
	Exp. 1 Unused Orbital Visibility = 3142 Reconfig Exp. 2 Exp. 3 Reconfig Occultation The diagram shows a timeline for Orbit 1. The x-axis represents time in seconds from 0 to 6000. A green bar at the bottom indicates the total orbital visibility. Three small green rectangles represent exposures: Exp. 1 (0.5s) at ~100s, Exp. 2 (9.2s) at ~500s, and Exp. 3 (22.9s) at ~800s. Vertical arrows labeled 'Reconfig' point to the gaps between these exposures. A long white rectangle starting at ~3142s represents the occultation period. Black bars below the green bar indicate periods of non-visibility.									

Proposal 16400 - Visit 06 - WFC3 UVIS CTI Monitor (EPER)

Visit	Proposal 16400, Visit 06										Fri Jul 31 18:02:17 GMT 2020
	Diagnostic Status: Warning										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: (none)										
Diagnostics	(Visit 06) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU										
	(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										
	(22.7 (06.004)) 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]
	Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Reconfig Exp. 2 Exp. 3 Exp. 4 Reconfig Occultation 050010001500200025003000350040004500500055006000 sec									
Server Version: 20200619											

Proposal 16400 - Visit 07 - WFC3 UVIS CTI Monitor (EPER)

Visit	Proposal 16400, Visit 07										Fri Jul 31 18:02:17 GMT 2020
	Diagnostic Status: Warning										
	Scientific Instruments: WFC3/UVIS										
	Special Requirements: BETWEEN 01-MAY-2021:00:00:00 AND 01-JUN-2021:00:00:00; GROUP 07,08 WITHIN 1D										
Diagnostics	(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 Exp. 1 Unused Orbital Visibility = 3142 Reconfig Exp. 2 Exp. 3 Reconfig Occultation Server Version: 20200619										

Proposal 16400 - Visit 08 - WFC3 UVIS CTI Monitor (EPER)

Visit	Proposal 16400, Visit 08 Fri Jul 31 18:02:17 GMT 2020									
	Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Diagnostics	(Visit 08) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (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 (22.7 (08.004)) 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]
Orbit Structure	Orbit 1 Unused Orbital Visibility = 3142									
	Server Version: 20200619 The diagram illustrates the timeline of Orbit 1, which has a total duration of 6000 seconds. The timeline is marked with major ticks every 500 seconds. Key events are indicated by arrows and labels: Exp. 1 (0.5s) at ~100s, Reconfig at ~400s, Exp. 2 (6.4s) at ~500s, Exp. 3 (7.6s) at ~700s, Reconfig at ~1600s, Exp. 4 (22.7s) at ~1650s, and Occultation at ~3142s. The exposure times are represented by green bars, and the reconfiguration events are represented by black bars. The occultation period is represented by a long white bar starting at ~3142s and ending at ~5700s.									

Proposal 16400 - Visit 09 - WFC3 UVIS CTI Monitor (EPER)

Visit	Proposal 16400, Visit 09 Fri Jul 31 18:02:17 GMT 2020									
	Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-JUL-2021:00:00:00 AND 01-AUG-2021:00:00:00; GROUP 09,10 WITHIN 1D									
Diagnostics	(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 (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									
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 Exp. 1 Unused Orbital Visibility = 3142 Reconfig Exp. 2 Exp. 3 Reconfig Occultation Server Version: 20200619									

Proposal 16400 - Visit 10 - WFC3 UVIS CTI Monitor (EPER)

Visit	Proposal 16400, Visit 10 Fri Jul 31 18:02:17 GMT 2020									
	Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Diagnostics	(Visit 10) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (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]
Orbit Structure	Orbit 1 Exp. 1 Unused Orbital Visibility = 3142 Reconfig Exp. 2 Exp. 3 Exp. 4 Reconfig Occultation									
	Server Version: 20200619									

Proposal 16400 - Visit 11 - WFC3 UVIS CTI Monitor (EPER)

Visit	Proposal 16400, Visit 11 Fri Jul 31 18:02:17 GMT 2020									
	Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: BETWEEN 01-SEP-2021:00:00:00 AND 01-OCT-2021:00:00:00; GROUP 11,12 WITHIN 1D									
Diagnostics	(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 (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									
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: 20200619									
	Unused Orbital Visibility = 3142 									

Proposal 16400 - Visit 12 - WFC3 UVIS CTI Monitor (EPER)

Visit	Proposal 16400, Visit 12 Fri Jul 31 18:02:17 GMT 2020									
	Diagnostic Status: Warning Scientific Instruments: WFC3/UVIS Special Requirements: (none)									
Diagnostics	(Visit 12) Warning (Orbit Planner): MAXIMUM DURATION EXCEEDED FOR INTERNAL OR EARTH CALIB SU (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]
Orbit Structure	Orbit 1 Unused Orbital Visibility = 3142									
	Server Version: 20200619 The diagram shows a timeline for Orbit 1 with a total duration of 6000 seconds. A green bar represents the total orbital visibility of 3142 seconds. Exposures are marked as green rectangles: Exp. 1 (0-0.5s), Exp. 2 (6.4-12.8s), Exp. 3 (12.8-20.4s), and Exp. 4 (15.1-17.3s). Reconfigurations are marked as black rectangles: Reconfig 1 (0.5-6.4s), Reconfig 2 (20.4-22.7s), and Reconfig 3 (17.3-20.4s). An occultation period is shown as a white rectangle from 3142s to 5754s. The x-axis is labeled 'sec' and ranges from 0 to 6000.									