



## 12719 - NUV Spectroscopic Sensitivity Monitoring

Cycle: 19, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

### INVESTIGATORS

| <i>Name</i>                     | <i>Institution</i>                       | <i>E-Mail</i>          |
|---------------------------------|--|------------------------|
| <b>Dr. Rachel A. Osten (PI)</b> | <b>Space Telescope Science Institute</b> | <b>osten@stsci.edu</b> |
| Dr. Alessandra Aloisi (CoI)     | Space Telescope Science Institute        | alosisi@stsci.edu      |
| Dr. Charles R. Proffitt (CoI)   | Computer Sciences Corporation            | proffitt@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> |
|--------------|------------------------------|-------------------------------------|--------------------|-------------------------------|-------------------------------|
| L1           | (1) WD1057+719               | COS/NUV                             | 1                  | 07-Sep-2011 21:27:44.0        | yes                           |
| L2           | (1) WD1057+719               | COS/NUV                             | 1                  | 07-Sep-2011 21:27:50.0        | yes                           |
| L3           | (1) WD1057+719               | COS/NUV                             | 1                  | 07-Sep-2011 21:27:55.0        | yes                           |
| L4           | (1) WD1057+719               | COS/NUV                             | 1                  | 07-Sep-2011 21:27:59.0        | yes                           |
| M1           | (2) G191B2B                  | COS/NUV                             | 1                  | 07-Sep-2011 21:28:05.0        | yes                           |
| M2           | (2) G191B2B                  | COS/NUV                             | 1                  | 07-Sep-2011 21:28:13.0        | yes                           |
| M3           | (2) G191B2B                  | COS/NUV                             | 1                  | 07-Sep-2011 21:28:19.0        | yes                           |
| M4           | (2) G191B2B                  | COS/NUV                             | 1                  | 07-Sep-2011 21:28:25.0        | yes                           |

8 Total Orbits Used

### ABSTRACT

Purpose is to monitor sensitivity of each NUV grating mode to detect any change due to contamination or other causes. The same basic strategy as employed in previous cycles is used here, with a few notable exceptions: Two cenwaves of G225M have been dropped (2306 and 2410), and only

## Proposal 12719 (STScI Edit Number: 1, Created: Wednesday, September 7, 2011 8:28:29 PM EST) - Overview

the bluest one retained. One cenwave of G285M has been dropped (2739), and the bluest and reddest have been retained. This is to continue to monitor the wavelength dependence of the G285M sensitivity decline, and monitor the wavelength dependence of the G225M sensitivity decline, which only appears at the shortest wavelengths (stripe A of the 2186 cenwave). These two gratings are also not used for science exposures in Cycle 19. The G185M grating has the most usage of the NUV gratings, and an additional cenwave is added to ensure the wavelength independence of the sensitivity degradation. For the G230L, the 3360 cenwave is dropped due to the contamination in both stripes B and C from second order light, which does not stretch the wavelength coverage very red compared to the other G230L cenwaves, and this cenwave is costly in terms of exposure time. The exposure time of the G230L/2950 setting was also reduced, since it was apparently overflowing its buffer.

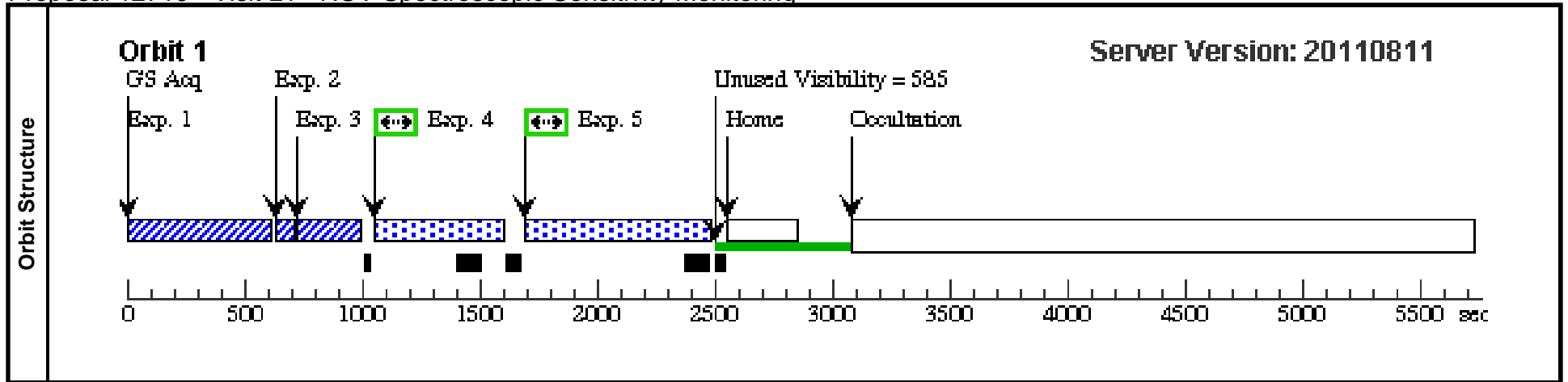
### **OBSERVING DESCRIPTION**

Obtain exposures in all NUV gratings -- G230L, G185M, G225M, and G285M -- quarterly. The first two gratings have stable behavior, while the last two are experiencing steady sensitivity declines. However, they are rarely used in Cycle 18 so quarterly observations will suffice to monitor the trends.

# Proposal 12719 - Visit L1 - NUV Spectroscopic Sensitivity Monitoring

Thu Sep 08 01:28:30 GMT 2011

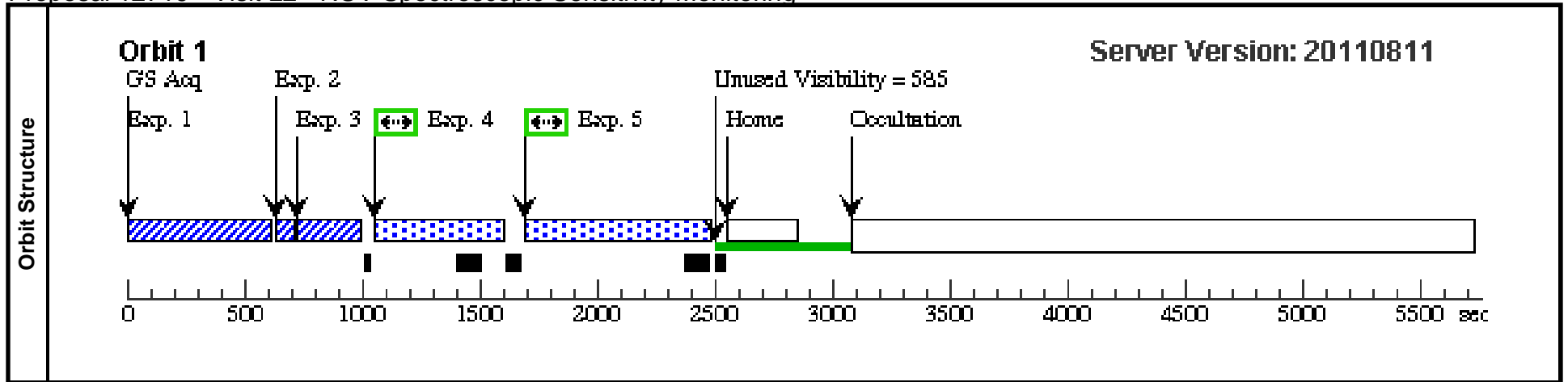
| Visit         | <b>Proposal 12719, Visit L1</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: COS/NUV<br>Special Requirements: SCHED 100%; BETWEEN 14-NOV-2011:00:00:00 AND 28-NOV-2011:00:00:00 |                                      |  |  |                 |   |                             |        |                         |       |
|---------------|--|--------------------------------------|--|--|-----------------|---|-----------------------------|--------|-------------------------|-------|
| Diagnostics   | (Visit L1) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.                             |                                      |  |  |                 |   |                             |        |                         |       |
| Fixed Targets | #  | Name                                 | Target Coordinates   | Targ. Coord. Corrections   |                 | Fluxes  | Miscellaneous               |        |                         |       |
|               | (1)  | WD1057+719                           | RA: 11 00 34.2200 (165.1425833d)<br>Dec: +71 38 2.99 (71.63416d)<br>Equinox: J2000 | Proper Motion RA: -0.00973 sec of time/yr<br>Proper Motion Dec: -0.02 arcsec/yr<br>Epoch of Position: 2000.0 |                 | V=14.68   | Reference Frame: ICRS       |        |                         |       |
|               | <i>Comments: HST FASTEX standard<br/>PM, coords from USNOB</i><br><i>GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch</i>   |                                      |  |  |                 |   |                             |        |                         |       |
| Exposures     | #  | Label (ETC Run)                      | Target   | Config,Mode,Aperture   | Spectral Els.   | Opt. Params.  | Special Reqs.               | Groups | Exp. Time/[Actual Dur.] | Orbit |
|               | 1  | G230L - AC Q/SEARCH (COS.sa.237 019) | (1) WD1057+719   | COS/NUV, ACQ/SEARCH, PSA   | G230L<br>2635 A | SCAN-SIZE=3;<br>STEP-SIZE=1.767                         | GS ACQ SCENARI<br>O BASE1B3 |        | 0.7 Secs<br>[==>]       | [1]   |
|               | 2  | G230L - AC Q/PEAKXD (COS.sa.237 020) | (1) WD1057+719   | COS/NUV, ACQ/PEAKXD, PSA   | G230L<br>2635 A |   |                             |        | 1.0 Secs<br>[==>]       | [1]   |
|               | 3  | G230L - AC Q/PEAKD (COS.sa.237 019)  | (1) WD1057+719   | COS/NUV, ACQ/PEAKD, PSA  | G230L<br>2635 A | CENTER=FLUX-W<br>T-FLR;<br>NUM-POS=9.0;<br>STEP-SIZE=1. |                             |        | 0.7 Secs<br>[==>]       | [1]   |
|               | 4  | G230L - 263 5 A (COS.sp.199 622)     | (1) WD1057+719   | COS/NUV, TIME-TAG, PSA   | G230L<br>2635 A | BUFFER-TIME=36<br>0;<br>FP-POS=3                        |                             |        | 540.0 Secs<br>[==>]     | [1]   |
|               | 5  | G230L - 295 0 A (COS.sp.199 623)     | (1) WD1057+719   | COS/NUV, TIME-TAG, PSA   | G230L<br>2950 A | BUFFER-TIME=60<br>0;<br>FP-POS=3                        |                             |        | 700.0 Secs<br>[==>]     | [1]   |



# Proposal 12719 - Visit L2 - NUV Spectroscopic Sensitivity Monitoring

Thu Sep 08 01:28:31 GMT 2011

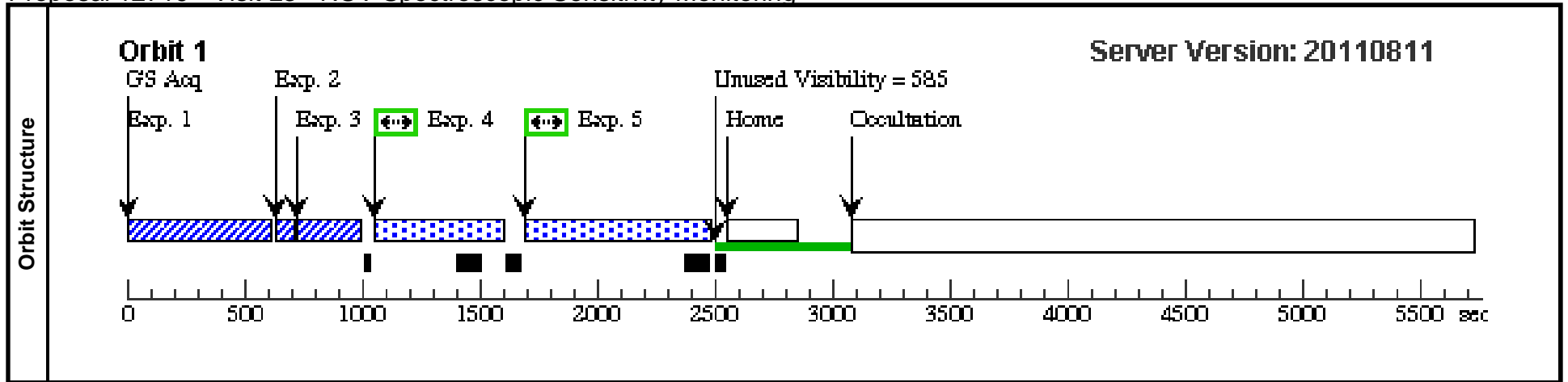
| Visit         | <b>Proposal 12719, Visit L2</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: COS/NUV<br>Special Requirements: SCHED 100%; BETWEEN 09-JAN-2012:00:00:00 AND 23-JAN-2012:00:00:00 |                                      |  |  |                 |   |               |        |                         |       |
|---------------|--|--------------------------------------|--|--|-----------------|---|---------------|--------|-------------------------|-------|
| Diagnostics   | (Visit L2) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.                             |                                      |  |  |                 |   |               |        |                         |       |
| Fixed Targets | #  | Name                                 | Target Coordinates   | Targ. Coord. Corrections   | Fluxes          | Miscellaneous   |               |        |                         |       |
|               | (1)  | WD1057+719                           | RA: 11 00 34.2200 (165.1425833d)<br>Dec: +71 38 2.99 (71.63416d)<br>Equinox: J2000 | Proper Motion RA: -0.00973 sec of time/yr<br>Proper Motion Dec: -0.02 arcsec/yr<br>Epoch of Position: 2000.0 | V=14.68         | Reference Frame: ICRS                                   |               |        |                         |       |
|               | <i>Comments: HST FASTEX standard<br/>PM, coords from USNOB</i><br><i>GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch</i>   |                                      |  |  |                 |   |               |        |                         |       |
| Exposures     | #  | Label (ETC Run)                      | Target   | Config,Mode,Aperture   | Spectral Els.   | Opt. Params.  | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |
|               | 1  | G230L - AC Q/SEARCH (COS.sa.237 019) | (1) WD1057+719   | COS/NUV, ACQ/SEARCH, PSA   | G230L<br>2635 A | SCAN-SIZE=3;<br>STEP-SIZE=1.767                         |               |        | 0.7 Secs<br>[==>]       | [1]   |
|               | 2  | G230L - AC Q/PEAKXD (COS.sa.237 020) | (1) WD1057+719   | COS/NUV, ACQ/PEAKXD, PSA   | G230L<br>2635 A |   |               |        | 1.0 Secs<br>[==>]       | [1]   |
|               | 3  | G230L - AC Q/PEAKD (COS.sa.237 019)  | (1) WD1057+719   | COS/NUV, ACQ/PEAKD, PSA  | G230L<br>2635 A | CENTER=FLUX-W<br>T-FLR;<br>NUM-POS=9.0;<br>STEP-SIZE=1. |               |        | 0.7 Secs<br>[==>]       | [1]   |
|               | 4  | G230L - 263 5 A (COS.sp.199 622)     | (1) WD1057+719   | COS/NUV, TIME-TAG, PSA   | G230L<br>2635 A | BUFFER-TIME=36<br>0;<br>FP-POS=3                        |               |        | 540.0 Secs<br>[==>]     | [1]   |
|               | 5  | G230L - 295 0 A (COS.sp.199 623)     | (1) WD1057+719   | COS/NUV, TIME-TAG, PSA   | G230L<br>2950 A | BUFFER-TIME=60<br>0;<br>FP-POS=3                        |               |        | 700.0 Secs<br>[==>]     | [1]   |



# Proposal 12719 - Visit L3 - NUV Spectroscopic Sensitivity Monitoring

Thu Sep 08 01:28:32 GMT 2011

| Visit         | <b>Proposal 12719, Visit L3</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: COS/NUV<br>Special Requirements: SCHED 100%; BETWEEN 16-APR-2012:00:00:00 AND 23-APR-2012:00:00:00   |  |  |                 |   |               |        |                         |       |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
|---------------|--|--|--|-----------------|---|---------------|--------|-------------------------|-------|---|-----------------|--------------------|--------------------------|---------------|---------------|---------------|------------|--|--|---------|--------------------------------------|----------------|--------------------------|-----------------|---------------------------------|--|--|-------------------|-----|---|--------------------------------------|----------------|--------------------------|-----------------|--|--|--|-------------------|-----|---|-------------------------------------|----------------|-------------------------|-----------------|---|--|--|-------------------|-----|---|----------------------------------|----------------|------------------------|-----------------|----------------------------------|--|--|---------------------|-----|---|----------------------------------|----------------|------------------------|-----------------|----------------------------------|--|--|---------------------|-----|
| Diagnostics   | (Visit L3) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.   |  |  |                 |   |               |        |                         |       |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| Fixed Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>WD1057+719</td> <td>RA: 11 00 34.2200 (165.1425833d)<br/>Dec: +71 38 2.99 (71.63416d)<br/>Equinox: J2000</td> <td>Proper Motion RA: -0.00973 sec of time/yr<br/>Proper Motion Dec: -0.02 arcsec/yr<br/>Epoch of Position: 2000.0</td> <td>V=14.68</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: HST FASTEX standard PM, coords from USNOB</i></p> <p><i>GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch</i></p>   |  |  |                 |   |               |        |                         |       | # | Name            | Target Coordinates | Targ. Coord. Corrections | Fluxes        | Miscellaneous | (1)           | WD1057+719 | RA: 11 00 34.2200 (165.1425833d)<br>Dec: +71 38 2.99 (71.63416d)<br>Equinox: J2000 | Proper Motion RA: -0.00973 sec of time/yr<br>Proper Motion Dec: -0.02 arcsec/yr<br>Epoch of Position: 2000.0 | V=14.68 | Reference Frame: ICRS                |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| #             | Name   | Target Coordinates   | Targ. Coord. Corrections   | Fluxes          | Miscellaneous   |               |        |                         |       |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| (1)           | WD1057+719   | RA: 11 00 34.2200 (165.1425833d)<br>Dec: +71 38 2.99 (71.63416d)<br>Equinox: J2000 | Proper Motion RA: -0.00973 sec of time/yr<br>Proper Motion Dec: -0.02 arcsec/yr<br>Epoch of Position: 2000.0 | V=14.68         | Reference Frame: ICRS                                   |               |        |                         |       |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| Exposures     | <table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</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/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G230L - AC Q/SEARCH (COS.sa.237 019)</td> <td>(1) WD1057+719</td> <td>COS/NUV, ACQ/SEARCH, PSA</td> <td>G230L<br/>2635 A</td> <td>SCAN-SIZE=3;<br/>STEP-SIZE=1.767</td> <td></td> <td></td> <td>0.7 Secs<br/>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G230L - AC Q/PEAKXD (COS.sa.237 020)</td> <td>(1) WD1057+719</td> <td>COS/NUV, ACQ/PEAKXD, PSA</td> <td>G230L<br/>2635 A</td> <td></td> <td></td> <td></td> <td>1.0 Secs<br/>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G230L - AC Q/PEAKD (COS.sa.237 019)</td> <td>(1) WD1057+719</td> <td>COS/NUV, ACQ/PEAKD, PSA</td> <td>G230L<br/>2635 A</td> <td>CENTER=FLUX-W<br/>T-FLR;<br/>NUM-POS=9.0;<br/>STEP-SIZE=1.</td> <td></td> <td></td> <td>0.7 Secs<br/>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>G230L - 263 5 A (COS.sp.199 622)</td> <td>(1) WD1057+719</td> <td>COS/NUV, TIME-TAG, PSA</td> <td>G230L<br/>2635 A</td> <td>BUFFER-TIME=36<br/>0;<br/>FP-POS=3</td> <td></td> <td></td> <td>540.0 Secs<br/>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>G230L - 295 0 A (COS.sp.199 623)</td> <td>(1) WD1057+719</td> <td>COS/NUV, TIME-TAG, PSA</td> <td>G230L<br/>2950 A</td> <td>BUFFER-TIME=60<br/>0;<br/>FP-POS=3</td> <td></td> <td></td> <td>700.0 Secs<br/>[==&gt;]</td> <td>[1]</td> </tr> </tbody> </table> |  |  |                 |   |               |        |                         |       | # | Label (ETC Run) | Target             | Config,Mode,Aperture     | Spectral Els. | Opt. Params.  | Special Reqs. | Groups     | Exp. Time/[Actual Dur.]  | Orbit  | 1       | G230L - AC Q/SEARCH (COS.sa.237 019) | (1) WD1057+719 | COS/NUV, ACQ/SEARCH, PSA | G230L<br>2635 A | SCAN-SIZE=3;<br>STEP-SIZE=1.767 |  |  | 0.7 Secs<br>[==>] | [1] | 2 | G230L - AC Q/PEAKXD (COS.sa.237 020) | (1) WD1057+719 | COS/NUV, ACQ/PEAKXD, PSA | G230L<br>2635 A |  |  |  | 1.0 Secs<br>[==>] | [1] | 3 | G230L - AC Q/PEAKD (COS.sa.237 019) | (1) WD1057+719 | COS/NUV, ACQ/PEAKD, PSA | G230L<br>2635 A | CENTER=FLUX-W<br>T-FLR;<br>NUM-POS=9.0;<br>STEP-SIZE=1. |  |  | 0.7 Secs<br>[==>] | [1] | 4 | G230L - 263 5 A (COS.sp.199 622) | (1) WD1057+719 | COS/NUV, TIME-TAG, PSA | G230L<br>2635 A | BUFFER-TIME=36<br>0;<br>FP-POS=3 |  |  | 540.0 Secs<br>[==>] | [1] | 5 | G230L - 295 0 A (COS.sp.199 623) | (1) WD1057+719 | COS/NUV, TIME-TAG, PSA | G230L<br>2950 A | BUFFER-TIME=60<br>0;<br>FP-POS=3 |  |  | 700.0 Secs<br>[==>] | [1] |
| #             | Label (ETC Run)  | Target   | Config,Mode,Aperture   | Spectral Els.   | Opt. Params.  | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| 1             | G230L - AC Q/SEARCH (COS.sa.237 019)   | (1) WD1057+719   | COS/NUV, ACQ/SEARCH, PSA   | G230L<br>2635 A | SCAN-SIZE=3;<br>STEP-SIZE=1.767                         |               |        | 0.7 Secs<br>[==>]       | [1]   |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| 2             | G230L - AC Q/PEAKXD (COS.sa.237 020)   | (1) WD1057+719   | COS/NUV, ACQ/PEAKXD, PSA   | G230L<br>2635 A |   |               |        | 1.0 Secs<br>[==>]       | [1]   |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| 3             | G230L - AC Q/PEAKD (COS.sa.237 019)  | (1) WD1057+719   | COS/NUV, ACQ/PEAKD, PSA  | G230L<br>2635 A | CENTER=FLUX-W<br>T-FLR;<br>NUM-POS=9.0;<br>STEP-SIZE=1. |               |        | 0.7 Secs<br>[==>]       | [1]   |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| 4             | G230L - 263 5 A (COS.sp.199 622)   | (1) WD1057+719   | COS/NUV, TIME-TAG, PSA   | G230L<br>2635 A | BUFFER-TIME=36<br>0;<br>FP-POS=3                        |               |        | 540.0 Secs<br>[==>]     | [1]   |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| 5             | G230L - 295 0 A (COS.sp.199 623)   | (1) WD1057+719   | COS/NUV, TIME-TAG, PSA   | G230L<br>2950 A | BUFFER-TIME=60<br>0;<br>FP-POS=3                        |               |        | 700.0 Secs<br>[==>]     | [1]   |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |

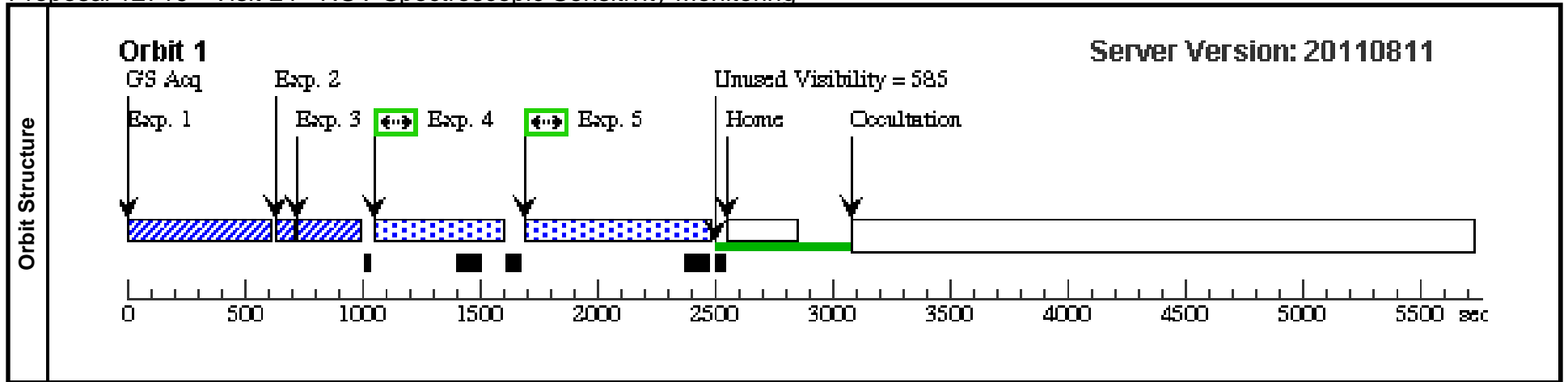




# Proposal 12719 - Visit L4 - NUV Spectroscopic Sensitivity Monitoring

Thu Sep 08 01:28:33 GMT 2011

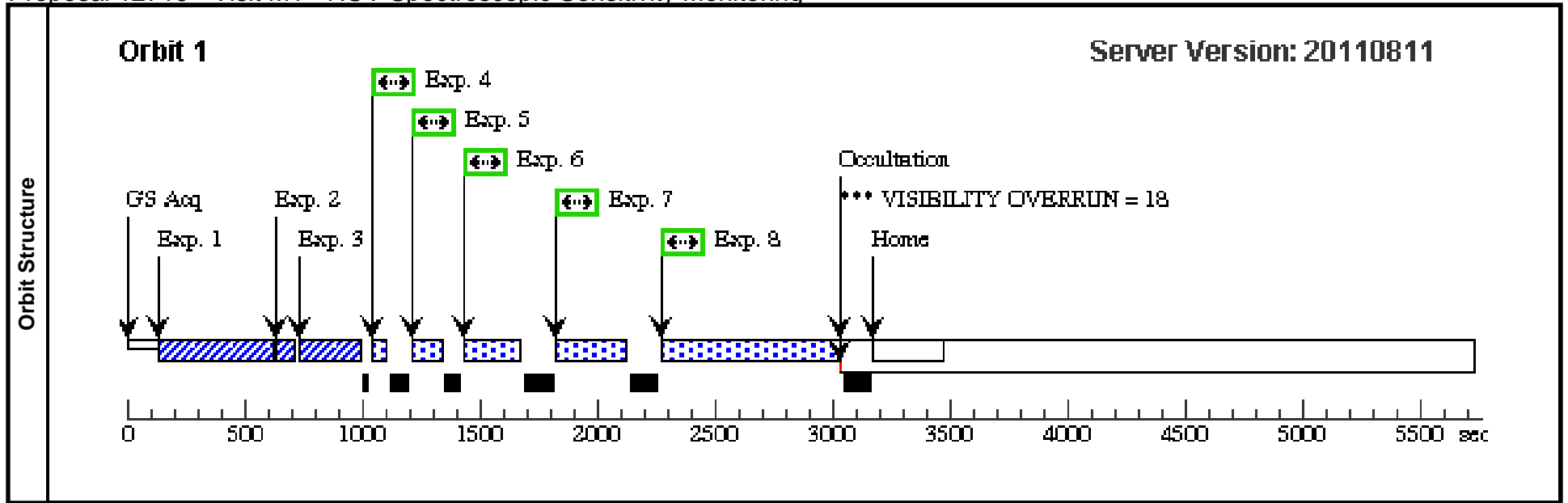
| Visit         | <b>Proposal 12719, Visit L4</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: COS/NUV<br>Special Requirements: SCHED 100%; BETWEEN 06-AUG-2012:00:00:00 AND 13-AUG-2012:00:00:00   |  |  |                 |   |               |        |                         |       |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
|---------------|--|--|--|-----------------|---|---------------|--------|-------------------------|-------|---|-----------------|--------------------|--------------------------|---------------|---------------|---------------|------------|--|--|---------|--------------------------------------|----------------|--------------------------|-----------------|---------------------------------|--|--|-------------------|-----|---|--------------------------------------|----------------|--------------------------|-----------------|--|--|--|-------------------|-----|---|-------------------------------------|----------------|-------------------------|-----------------|---|--|--|-------------------|-----|---|----------------------------------|----------------|------------------------|-----------------|----------------------------------|--|--|---------------------|-----|---|----------------------------------|----------------|------------------------|-----------------|----------------------------------|--|--|---------------------|-----|
| Diagnostics   | (Visit L4) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.   |  |  |                 |   |               |        |                         |       |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| Fixed Targets | <table border="1"> <thead> <tr> <th>#</th> <th>Name</th> <th>Target Coordinates</th> <th>Targ. Coord. Corrections</th> <th>Fluxes</th> <th>Miscellaneous</th> </tr> </thead> <tbody> <tr> <td>(1)</td> <td>WD1057+719</td> <td>RA: 11 00 34.2200 (165.1425833d)<br/>Dec: +71 38 2.99 (71.63416d)<br/>Equinox: J2000</td> <td>Proper Motion RA: -0.00973 sec of time/yr<br/>Proper Motion Dec: -0.02 arcsec/yr<br/>Epoch of Position: 2000.0</td> <td>V=14.68</td> <td>Reference Frame: ICRS</td> </tr> </tbody> </table> <p><i>Comments: HST FASTEX standard PM, coords from USNOB</i></p> <p><i>GSC2 coords are 11:00:34.25, 71:38:02.97, 1997.19 epoch</i></p>   |  |  |                 |   |               |        |                         |       | # | Name            | Target Coordinates | Targ. Coord. Corrections | Fluxes        | Miscellaneous | (1)           | WD1057+719 | RA: 11 00 34.2200 (165.1425833d)<br>Dec: +71 38 2.99 (71.63416d)<br>Equinox: J2000 | Proper Motion RA: -0.00973 sec of time/yr<br>Proper Motion Dec: -0.02 arcsec/yr<br>Epoch of Position: 2000.0 | V=14.68 | Reference Frame: ICRS                |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| #             | Name   | Target Coordinates   | Targ. Coord. Corrections   | Fluxes          | Miscellaneous   |               |        |                         |       |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| (1)           | WD1057+719   | RA: 11 00 34.2200 (165.1425833d)<br>Dec: +71 38 2.99 (71.63416d)<br>Equinox: J2000 | Proper Motion RA: -0.00973 sec of time/yr<br>Proper Motion Dec: -0.02 arcsec/yr<br>Epoch of Position: 2000.0 | V=14.68         | Reference Frame: ICRS                                   |               |        |                         |       |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| Exposures     | <table border="1"> <thead> <tr> <th>#</th> <th>Label (ETC Run)</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/[Actual Dur.]</th> <th>Orbit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>G230L - AC Q/SEARCH (COS.sa.237 019)</td> <td>(1) WD1057+719</td> <td>COS/NUV, ACQ/SEARCH, PSA</td> <td>G230L<br/>2635 A</td> <td>SCAN-SIZE=3;<br/>STEP-SIZE=1.767</td> <td></td> <td></td> <td>0.7 Secs<br/>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>2</td> <td>G230L - AC Q/PEAKXD (COS.sa.237 020)</td> <td>(1) WD1057+719</td> <td>COS/NUV, ACQ/PEAKXD, PSA</td> <td>G230L<br/>2635 A</td> <td></td> <td></td> <td></td> <td>1.0 Secs<br/>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>3</td> <td>G230L - AC Q/PEAKD (COS.sa.237 019)</td> <td>(1) WD1057+719</td> <td>COS/NUV, ACQ/PEAKD, PSA</td> <td>G230L<br/>2635 A</td> <td>CENTER=FLUX-W<br/>T-FLR;<br/>NUM-POS=9.0;<br/>STEP-SIZE=1.</td> <td></td> <td></td> <td>0.7 Secs<br/>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>4</td> <td>G230L - 263 5 A (COS.sp.199 622)</td> <td>(1) WD1057+719</td> <td>COS/NUV, TIME-TAG, PSA</td> <td>G230L<br/>2635 A</td> <td>BUFFER-TIME=36<br/>0;<br/>FP-POS=3</td> <td></td> <td></td> <td>540.0 Secs<br/>[==&gt;]</td> <td>[1]</td> </tr> <tr> <td>5</td> <td>G230L - 295 0 A (COS.sp.199 623)</td> <td>(1) WD1057+719</td> <td>COS/NUV, TIME-TAG, PSA</td> <td>G230L<br/>2950 A</td> <td>BUFFER-TIME=60<br/>0;<br/>FP-POS=3</td> <td></td> <td></td> <td>700.0 Secs<br/>[==&gt;]</td> <td>[1]</td> </tr> </tbody> </table> |  |  |                 |   |               |        |                         |       | # | Label (ETC Run) | Target             | Config,Mode,Aperture     | Spectral Els. | Opt. Params.  | Special Reqs. | Groups     | Exp. Time/[Actual Dur.]  | Orbit  | 1       | G230L - AC Q/SEARCH (COS.sa.237 019) | (1) WD1057+719 | COS/NUV, ACQ/SEARCH, PSA | G230L<br>2635 A | SCAN-SIZE=3;<br>STEP-SIZE=1.767 |  |  | 0.7 Secs<br>[==>] | [1] | 2 | G230L - AC Q/PEAKXD (COS.sa.237 020) | (1) WD1057+719 | COS/NUV, ACQ/PEAKXD, PSA | G230L<br>2635 A |  |  |  | 1.0 Secs<br>[==>] | [1] | 3 | G230L - AC Q/PEAKD (COS.sa.237 019) | (1) WD1057+719 | COS/NUV, ACQ/PEAKD, PSA | G230L<br>2635 A | CENTER=FLUX-W<br>T-FLR;<br>NUM-POS=9.0;<br>STEP-SIZE=1. |  |  | 0.7 Secs<br>[==>] | [1] | 4 | G230L - 263 5 A (COS.sp.199 622) | (1) WD1057+719 | COS/NUV, TIME-TAG, PSA | G230L<br>2635 A | BUFFER-TIME=36<br>0;<br>FP-POS=3 |  |  | 540.0 Secs<br>[==>] | [1] | 5 | G230L - 295 0 A (COS.sp.199 623) | (1) WD1057+719 | COS/NUV, TIME-TAG, PSA | G230L<br>2950 A | BUFFER-TIME=60<br>0;<br>FP-POS=3 |  |  | 700.0 Secs<br>[==>] | [1] |
| #             | Label (ETC Run)  | Target   | Config,Mode,Aperture   | Spectral Els.   | Opt. Params.  | Special Reqs. | Groups | Exp. Time/[Actual Dur.] | Orbit |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| 1             | G230L - AC Q/SEARCH (COS.sa.237 019)   | (1) WD1057+719   | COS/NUV, ACQ/SEARCH, PSA   | G230L<br>2635 A | SCAN-SIZE=3;<br>STEP-SIZE=1.767                         |               |        | 0.7 Secs<br>[==>]       | [1]   |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| 2             | G230L - AC Q/PEAKXD (COS.sa.237 020)   | (1) WD1057+719   | COS/NUV, ACQ/PEAKXD, PSA   | G230L<br>2635 A |   |               |        | 1.0 Secs<br>[==>]       | [1]   |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| 3             | G230L - AC Q/PEAKD (COS.sa.237 019)  | (1) WD1057+719   | COS/NUV, ACQ/PEAKD, PSA  | G230L<br>2635 A | CENTER=FLUX-W<br>T-FLR;<br>NUM-POS=9.0;<br>STEP-SIZE=1. |               |        | 0.7 Secs<br>[==>]       | [1]   |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| 4             | G230L - 263 5 A (COS.sp.199 622)   | (1) WD1057+719   | COS/NUV, TIME-TAG, PSA   | G230L<br>2635 A | BUFFER-TIME=36<br>0;<br>FP-POS=3                        |               |        | 540.0 Secs<br>[==>]     | [1]   |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |
| 5             | G230L - 295 0 A (COS.sp.199 623)   | (1) WD1057+719   | COS/NUV, TIME-TAG, PSA   | G230L<br>2950 A | BUFFER-TIME=60<br>0;<br>FP-POS=3                        |               |        | 700.0 Secs<br>[==>]     | [1]   |   |                 |                    |                          |               |               |               |            |  |  |         |                                      |                |                          |                 |                                 |  |  |                   |     |   |                                      |                |                          |                 |  |  |  |                   |     |   |                                     |                |                         |                 |   |  |  |                   |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |   |                                  |                |                        |                 |                                  |  |  |                     |     |



Proposal 12719 - Visit M1 - NUV Spectroscopic Sensitivity Monitoring

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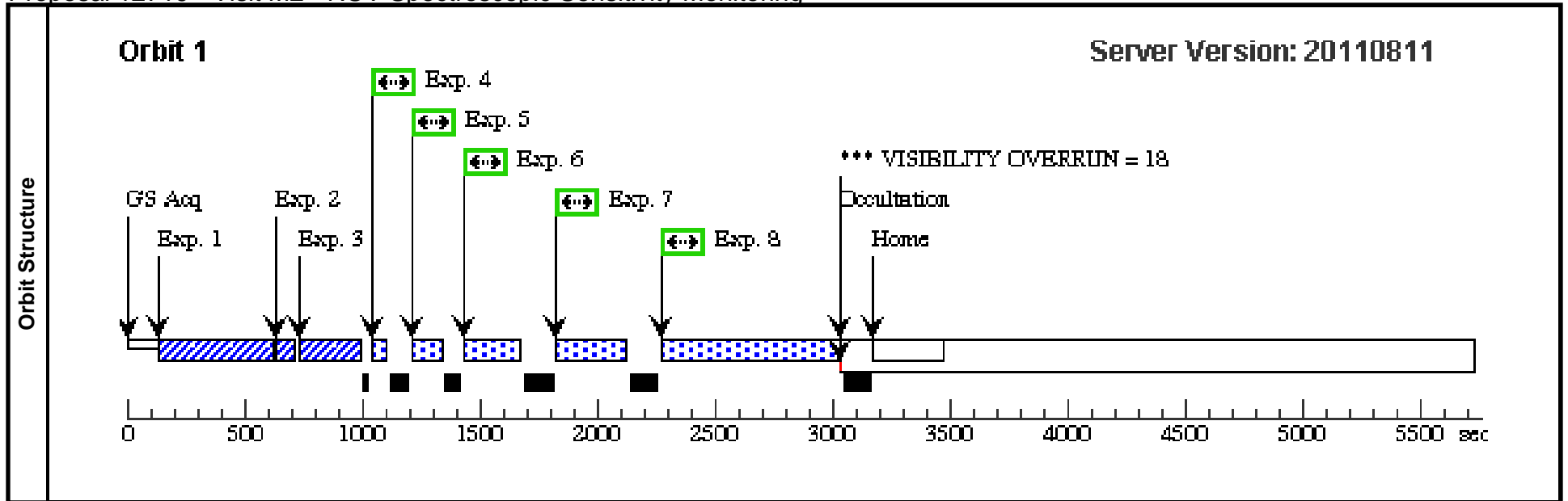
|  |  |  |  |  |                      |                                    |                      |               |                                |              |
|--|--|--|--|--|----------------------|------------------------------------|----------------------|---------------|--------------------------------|--------------|
| <b>Visit</b>                               | <b>Proposal 12719, Visit M1</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: COS/NUV<br>Special Requirements: SCHED 100%; BETWEEN 14-NOV-2011:00:00:00 AND 28-NOV-2011:00:00:00                               |  |  |  |                      |                                    |                      |               |                                |              |
|  | (Visit M1) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.<br>(Visit M1) Warning (Orbit Planner): VISIBILITY OVERRUN |  |  |  |                      |                                    |                      |               |                                |              |
| <b>Fixed Targets</b>                       | <b>#</b>   | <b>Name</b>                                  | <b>Target Coordinates</b>  | <b>Targ. Coord. Corrections</b>  | <b>Fluxes</b>        | <b>Miscellaneous</b>               |                      |               |                                |              |
|  | (2)  | G191B2B                                      | RA: 05 05 30.6060 (76.3775250d)<br>Dec: +52 49 52.74 (52.83132d)<br>Equinox: J2000 | Proper Motion RA: 0.00071 sec of time/yr<br>Proper Motion Dec: -0.0907 arcsec/yr<br>Epoch of Position: 1991.25 | V=11.79              | Reference Frame: ICRS              |                      |               |                                |              |
| <i>Comments: coords, PM from Hipparcos</i> |  |  |  |  |                      |                                    |                      |               |                                |              |
| <b>Exposures</b>                           | <b>#</b>   | <b>Label (ETC Run)</b>                       | <b>Target</b>  | <b>Config,Mode,Aperture</b>  | <b>Spectral Els.</b> | <b>Opt. Params.</b>                | <b>Special Reqs.</b> | <b>Groups</b> | <b>Exp. Time/[Actual Dur.]</b> | <b>Orbit</b> |
|  | 1  | G185M - A CQ/SEARCH<br>H<br>(COS.sa.237 025) | (2) G191B2B  | COS/NUV, ACQ/SEARCH, PSA   | G185M<br>1921 A      | STEP-SIZE=1.767;<br>SCAN-SIZE=3    |                      |               | 1.0 Secs<br>[==>]              | [1]          |
|  | 2  | G185M - A CQ/PEAKXD<br>D<br>(COS.sa.237 026) | (2) G191B2B  | COS/NUV, ACQ/PEAKXD, PSA   | G185M<br>1921 A      |                                    |                      |               | 1.0 Secs<br>[==>]              | [1]          |
|  | 3  | G185M - A CQ/PEAKD<br>(COS.sa.237 025)       | (2) G191B2B  | COS/NUV, ACQ/PEAKD, PSA  | G185M<br>1921 A      | STEP-SIZE=0.6;<br>NUM-POS=9.0      |                      |               | 1.0 Secs<br>[==>]              | [1]          |
|  | 4  | G185M - 19 21 A<br>(COS.sp.204 860)          | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G185M<br>1921 A      | BUFFER-TIME=80;<br>FP-POS=3        |                      |               | 47.0 Secs<br>[==>]             | [1]          |
|  | 5  | G185M - 17 86A<br>(COS.sp.237 021)           | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G185M<br>1786 A      | BUFFER-TIME=80;<br>FP-POS=3        |                      |               | 42.0 Secs<br>[==>]             | [1]          |
|  | 6  | G225M - 21 86 A<br>(COS.sp.204 861)          | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G225M<br>2186 A      | BUFFER-TIME=80.<br>;<br>FP-POS=3   |                      |               | 92.0 Secs<br>[==>]             | [1]          |
|  | 7  | G285M - 26 17 A<br>(COS.sp.204 864)          | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G285M<br>2617 A      | BUFFER-TIME=17<br>9.0;<br>FP-POS=3 |                      |               | 180.0 Secs<br>[==>]            | [1]          |
|  | 8  | G285M - 30 94 A<br>(COS.sp.204 866)          | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G285M<br>3094 A      | BUFFER-TIME=63<br>9.0;<br>FP-POS=3 |                      |               | 675.0 Secs<br>[==>]            | [1]          |



Proposal 12719 - Visit M2 - NUV Spectroscopic Sensitivity Monitoring

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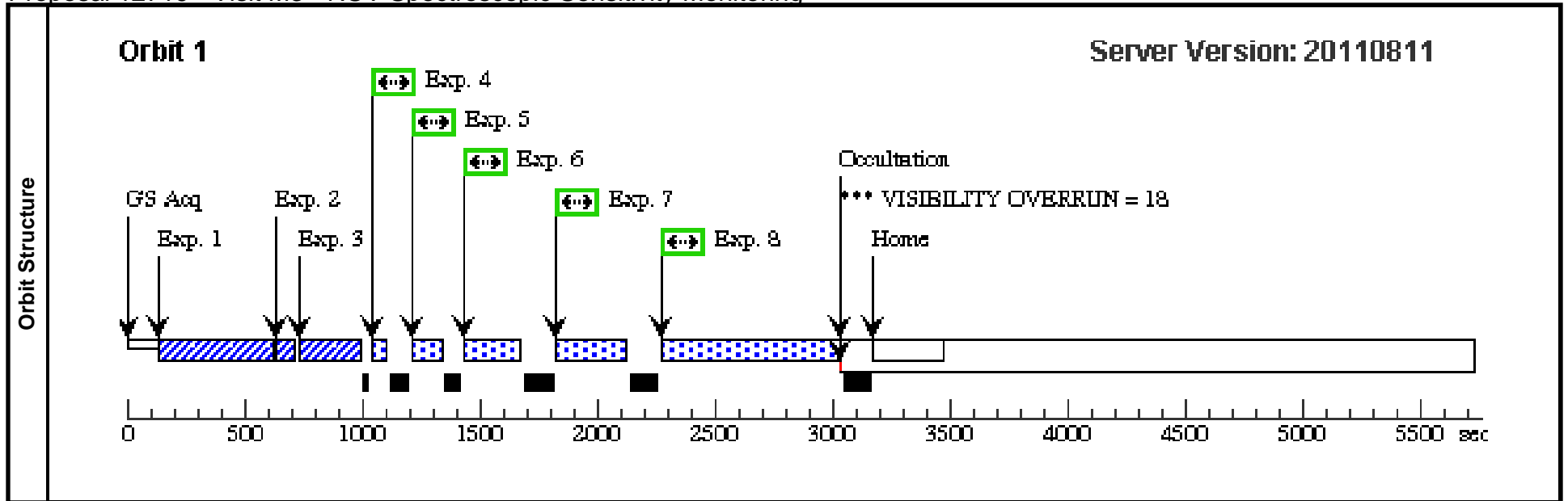
|  |  |   |  |  |                      |                                  |                      |               |                                |              |
|--|--|---|--|--|----------------------|----------------------------------|----------------------|---------------|--------------------------------|--------------|
| <b>Visit</b>                               | <b>Proposal 12719, Visit M2</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: COS/NUV<br>Special Requirements: SCHED 100%; BETWEEN 09-JAN-2012:00:00:00 AND 23-JAN-2012:00:00:00                               |   |  |  |                      |                                  |                      |               |                                |              |
|  | (Visit M2) Warning (Orbit Planner): VISIBILITY OVERRUN<br>(Visit M2) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting. |   |  |  |                      |                                  |                      |               |                                |              |
| <b>Fixed Targets</b>                       | <b>#</b>   | <b>Name</b>                                       | <b>Target Coordinates</b>  | <b>Targ. Coord. Corrections</b>  | <b>Fluxes</b>        | <b>Miscellaneous</b>             |                      |               |                                |              |
|  | (2)  | G191B2B   | RA: 05 05 30.6060 (76.3775250d)<br>Dec: +52 49 52.74 (52.83132d)<br>Equinox: J2000 | Proper Motion RA: 0.00071 sec of time/yr<br>Proper Motion Dec: -0.0907 arcsec/yr<br>Epoch of Position: 1991.25 | V=11.79              | Reference Frame: ICRS            |                      |               |                                |              |
| <i>Comments: coords, PM from Hipparcos</i> |  |   |  |  |                      |                                  |                      |               |                                |              |
| <b>Exposures</b>                           | <b>#</b>   | <b>Label (ETC Run)</b>                            | <b>Target</b>  | <b>Config,Mode,Aperture</b>  | <b>Spectral Els.</b> | <b>Opt. Params.</b>              | <b>Special Reqs.</b> | <b>Groups</b> | <b>Exp. Time/[Actual Dur.]</b> | <b>Orbit</b> |
|  | 1  | G185M - A<br>CQ/SEAR<br>H<br>(COS.sa.237<br>025)  | (2) G191B2B  | COS/NUV, ACQ/SEARCH, PSA   | G185M<br>1921 A      | STEP-SIZE=1.767;<br>SCAN-SIZE=3  |                      |               | 1.0 Secs<br>[==>]              | [1]          |
|  | 2  | G185M - A<br>CQ/PEAKX<br>D<br>(COS.sa.237<br>026) | (2) G191B2B  | COS/NUV, ACQ/PEAKXD, PSA   | G185M<br>1921 A      |                                  |                      |               | 1.0 Secs<br>[==>]              | [1]          |
|  | 3  | G185M - A<br>CQ/PEAKD<br>(COS.sa.237<br>025)      | (2) G191B2B  | COS/NUV, ACQ/PEAKD, PSA  | G185M<br>1921 A      | STEP-SIZE=0.6;<br>NUM-POS=9.0    |                      |               | 1.0 Secs<br>[==>]              | [1]          |
|  | 4  | G185M - 19<br>21 A<br>(COS.sp.204<br>860)         | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G185M<br>1921 A      | BUFFER-TIME=80;<br>FP-POS=3      |                      |               | 47.0 Secs<br>[==>]             | [1]          |
|  | 5  | G185M - 17<br>86A<br>(COS.sp.237<br>021)          | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G185M<br>1786 A      | BUFFER-TIME=80;<br>FP-POS=3      |                      |               | 42.0 Secs<br>[==>]             | [1]          |
|  | 6  | G225M - 21<br>86 A<br>(COS.sp.204<br>861)         | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G225M<br>2186 A      | BUFFER-TIME=80.<br>;<br>FP-POS=3 |                      |               | 92.0 Secs<br>[==>]             | [1]          |
|  | 7  | G285M - 26<br>17 A<br>(COS.sp.204<br>864)         | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G285M<br>2617 A      | BUFFER-TIME=17<br>9;<br>FP-POS=3 |                      |               | 180.0 Secs<br>[==>]            | [1]          |
|  | 8  | G285M - 30<br>94 A<br>(COS.sp.204<br>866)         | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G285M<br>3094 A      | BUFFER-TIME=63<br>9;<br>FP-POS=3 |                      |               | 675.0 Secs<br>[==>]            | [1]          |



Proposal 12719 - Visit M3 - NUV Spectroscopic Sensitivity Monitoring

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|  |  |  |  |  |                      |                                  |                      |               |                                |              |
|--|--|--|--|--|----------------------|----------------------------------|----------------------|---------------|--------------------------------|--------------|
| <b>Visit</b>                               | <b>Proposal 12719, Visit M3</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: COS/NUV<br>Special Requirements: SCHED 100%; BETWEEN 16-APR-2012:00:00:00 AND 23-APR-2012:00:00:00                               |  |  |  |                      |                                  |                      |               |                                |              |
|  | (Visit M3) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting.<br>(Visit M3) Warning (Orbit Planner): VISIBILITY OVERRUN |  |  |  |                      |                                  |                      |               |                                |              |
| <b>Fixed Targets</b>                       | <b>#</b>   | <b>Name</b>                                  | <b>Target Coordinates</b>  | <b>Targ. Coord. Corrections</b>  | <b>Fluxes</b>        | <b>Miscellaneous</b>             |                      |               |                                |              |
|  | (2)  | G191B2B                                      | RA: 05 05 30.6060 (76.3775250d)<br>Dec: +52 49 52.74 (52.83132d)<br>Equinox: J2000 | Proper Motion RA: 0.00071 sec of time/yr<br>Proper Motion Dec: -0.0907 arcsec/yr<br>Epoch of Position: 1991.25 | V=11.79              | Reference Frame: ICRS            |                      |               |                                |              |
| <i>Comments: coords, PM from Hipparcos</i> |  |  |  |  |                      |                                  |                      |               |                                |              |
| <b>Exposures</b>                           | <b>#</b>   | <b>Label (ETC Run)</b>                       | <b>Target</b>  | <b>Config,Mode,Aperture</b>  | <b>Spectral Els.</b> | <b>Opt. Params.</b>              | <b>Special Reqs.</b> | <b>Groups</b> | <b>Exp. Time/[Actual Dur.]</b> | <b>Orbit</b> |
|  | 1  | G185M - A CQ/SEARCH<br>H<br>(COS.sa.237 025) | (2) G191B2B  | COS/NUV, ACQ/SEARCH, PSA   | G185M<br>1921 A      | STEP-SIZE=1.767;<br>SCAN-SIZE=3  |                      |               | 1.0 Secs<br>[==>]              | [1]          |
|  | 2  | G185M - A CQ/PEAKXD<br>D<br>(COS.sa.237 026) | (2) G191B2B  | COS/NUV, ACQ/PEAKXD, PSA   | G185M<br>1921 A      |                                  |                      |               | 1.0 Secs<br>[==>]              | [1]          |
|  | 3  | G185M - A CQ/PEAKD<br>(COS.sa.237 025)       | (2) G191B2B  | COS/NUV, ACQ/PEAKD, PSA  | G185M<br>1921 A      | STEP-SIZE=0.6;<br>NUM-POS=9.0    |                      |               | 1.0 Secs<br>[==>]              | [1]          |
|  | 4  | G185M - 19 21 A<br>(COS.sp.204 860)          | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G185M<br>1921 A      | BUFFER-TIME=80;<br>FP-POS=3      |                      |               | 47.0 Secs<br>[==>]             | [1]          |
|  | 5  | G185M - 17 86A<br>(COS.sp.237 021)           | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G185M<br>1786 A      | BUFFER-TIME=80;<br>FP-POS=3      |                      |               | 42.0 Secs<br>[==>]             | [1]          |
|  | 6  | G225M - 21 86 A<br>(COS.sp.204 861)          | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G225M<br>2186 A      | BUFFER-TIME=80.<br>;<br>FP-POS=3 |                      |               | 92.0 Secs<br>[==>]             | [1]          |
|  | 7  | G285M - 26 17 A<br>(COS.sp.204 864)          | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G285M<br>2617 A      | BUFFER-TIME=17<br>9;<br>FP-POS=3 |                      |               | 180.0 Secs<br>[==>]            | [1]          |
|  | 8  | G285M - 30 94 A<br>(COS.sp.204 866)          | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G285M<br>3094 A      | BUFFER-TIME=63<br>9;<br>FP-POS=3 |                      |               | 675.0 Secs<br>[==>]            | [1]          |





Proposal 12719 - Visit M4 - NUV Spectroscopic Sensitivity Monitoring

Thu Sep 08 01:28:35 GMT 2011

|  |  |   |  |  |                      |                                  |                      |               |                                |              |
|--|--|---|--|--|----------------------|----------------------------------|----------------------|---------------|--------------------------------|--------------|
| <b>Visit</b>                               | <b>Proposal 12719, Visit M4</b><br><b>Diagnostic Status: Warning</b><br>Scientific Instruments: COS/NUV<br>Special Requirements: SCHED 100%; BETWEEN 06-AUG-2012:00:00:00 AND 13-AUG-2012:00:00:00                               |   |  |  |                      |                                  |                      |               |                                |              |
|  | (Visit M4) Warning (Orbit Planner): VISIBILITY OVERRUN<br>(Visit M4) Warning (Form): For the best data quality, it is strongly recommended that all four FP-POS positions be used when observing at a given COS CENWAVE setting. |   |  |  |                      |                                  |                      |               |                                |              |
| <b>Fixed Targets</b>                       | <b>#</b>   | <b>Name</b>                                       | <b>Target Coordinates</b>  | <b>Targ. Coord. Corrections</b>  | <b>Fluxes</b>        | <b>Miscellaneous</b>             |                      |               |                                |              |
|  | (2)  | G191B2B   | RA: 05 05 30.6060 (76.3775250d)<br>Dec: +52 49 52.74 (52.83132d)<br>Equinox: J2000 | Proper Motion RA: 0.00071 sec of time/yr<br>Proper Motion Dec: -0.0907 arcsec/yr<br>Epoch of Position: 1991.25 | V=11.79              | Reference Frame: ICRS            |                      |               |                                |              |
| <i>Comments: coords, PM from Hipparcos</i> |  |   |  |  |                      |                                  |                      |               |                                |              |
| <b>Exposures</b>                           | <b>#</b>   | <b>Label (ETC Run)</b>                            | <b>Target</b>  | <b>Config,Mode,Aperture</b>  | <b>Spectral Els.</b> | <b>Opt. Params.</b>              | <b>Special Reqs.</b> | <b>Groups</b> | <b>Exp. Time/[Actual Dur.]</b> | <b>Orbit</b> |
|  | 1  | G185M - A<br>CQ/SEAR<br>H<br>(COS.sa.237<br>025)  | (2) G191B2B  | COS/NUV, ACQ/SEARCH, PSA   | G185M<br>1921 A      | STEP-SIZE=1.767;<br>SCAN-SIZE=3  |                      |               | 1.0 Secs<br>[==>]              | [1]          |
|  | 2  | G185M - A<br>CQ/PEAKX<br>D<br>(COS.sa.237<br>026) | (2) G191B2B  | COS/NUV, ACQ/PEAKXD, PSA   | G185M<br>1921 A      |                                  |                      |               | 1.0 Secs<br>[==>]              | [1]          |
|  | 3  | G185M - A<br>CQ/PEAKD<br>(COS.sa.237<br>025)      | (2) G191B2B  | COS/NUV, ACQ/PEAKD, PSA  | G185M<br>1921 A      | STEP-SIZE=0.6;<br>NUM-POS=9.0    |                      |               | 1.0 Secs<br>[==>]              | [1]          |
|  | 4  | G185M - 19<br>21 A<br>(COS.sp.204<br>860)         | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G185M<br>1921 A      | BUFFER-TIME=80;<br>FP-POS=3      |                      |               | 47.0 Secs<br>[==>]             | [1]          |
|  | 5  | G185M - 17<br>86A<br>(COS.sp.237<br>021)          | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G185M<br>1786 A      | BUFFER-TIME=80;<br>FP-POS=3      |                      |               | 42.0 Secs<br>[==>]             | [1]          |
|  | 6  | G225M - 21<br>86 A<br>(COS.sp.204<br>861)         | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G225M<br>2186 A      | BUFFER-TIME=80.<br>;<br>FP-POS=3 |                      |               | 92.0 Secs<br>[==>]             | [1]          |
|  | 7  | G285M - 26<br>17 A<br>(COS.sp.204<br>864)         | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G285M<br>2617 A      | BUFFER-TIME=17<br>9;<br>FP-POS=3 |                      |               | 180.0 Secs<br>[==>]            | [1]          |
|  | 8  | G285M - 30<br>94 A<br>(COS.sp.204<br>866)         | (2) G191B2B  | COS/NUV, TIME-TAG, PSA   | G285M<br>3094 A      | BUFFER-TIME=63<br>9;<br>FP-POS=3 |                      |               | 675.0 Secs<br>[==>]            | [1]          |

