



14441 - NUV Spectroscopic Sensitivity Monitoring

Cycle: 23, Proposal Category: CAL/COS

(Availability Mode: RESTRICTED)

INVESTIGATORS

| <i>Name</i> | <i>Institution</i> | <i>E-Mail</i> |
|-------------------------------------|--|---------------------------|
| Joanna Taylor (PI) (Contact) | Space Telescope Science Institute | jotaylor@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 | 20-Oct-2015 21:59:28.0 | yes |
| L2 | (1) WD1057+719 | COS/NUV | 1 | 20-Oct-2015 21:59:30.0 | yes |
| M1 | (2) G191B2B | COS/NUV | 1 | 20-Oct-2015 21:59:32.0 | yes |
| M2 | (2) G191B2B | COS/NUV | 1 | 20-Oct-2015 21:59:34.0 | yes |

4 Total Orbits Used

ABSTRACT

Purpose is to monitor sensitivity of each NUV grating mode to detect any change due to contamination or other causes. Cycle 23 program was cut from 6 to 4 orbits, so the cadence of observations has been changed from 3 times a year to twice a year (January and July).

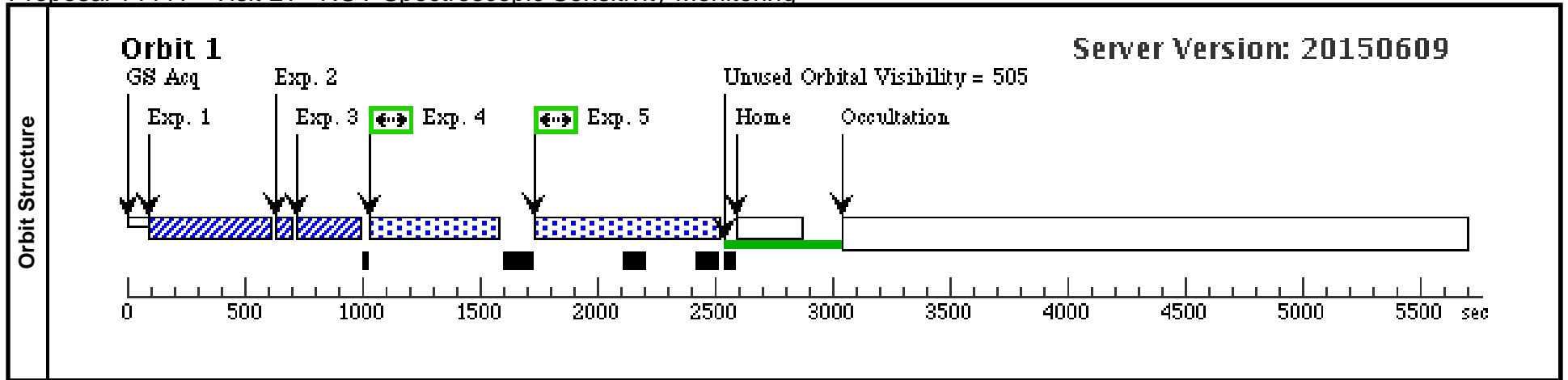
OBSERVING DESCRIPTION

Obtain exposures in all NUV gratings -- G230L, G185M, G225M, and G285M -- 3 times a year. The first two gratings have stable behavior, while the last two are experiencing steady sensitivity declines.

Proposal 14441 - Visit L1 - NUV Spectroscopic Sensitivity Monitoring

Wed Oct 21 01:59:36 GMT 2015

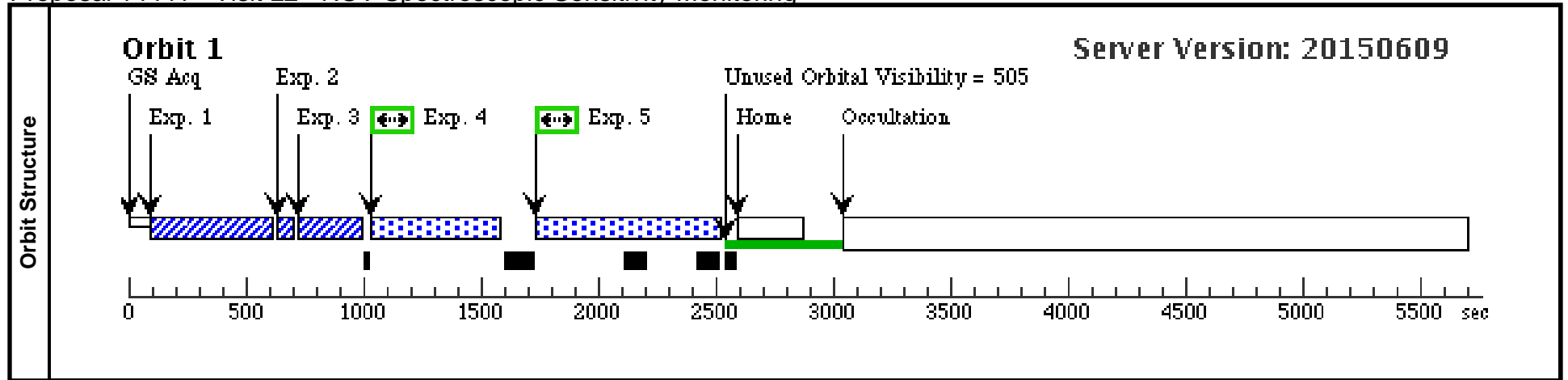
| Visit | Proposal 14441, Visit L1, implementation Diagnostic Status: Warning Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BETWEEN 20-JAN-2016:00:00:00 AND 26-JAN-2016:00:00:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|--|--|-----------------|---|---------------|--------|---------------------------------|-------|--|---|-----------------|--------------------|--------------------------|---------------|---------------|---------------|------------|--|--|---------|--------------------------------------|----------------|--------------------------|-----------------|---------------------------------|--|--|------------------------------|-----|---|--------------------------------------|----------------|--------------------------|-----------------|--|--|--|------------------------------|-----|---|-------------------------------------|----------------|-------------------------|-----------------|---|--|--|------------------------------|-----|---|----------------------------------|----------------|------------------------|-----------------|----------------------------------|--|--|--------------------------------|-----|---|----------------------------------|----------------|------------------------|-----------------|----------------------------------|--|--|--------------------------------|-----|
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Proposal 14441 - Visit L2 - NUV Spectroscopic Sensitivity Monitoring

Wed Oct 21 01:59:36 GMT 2015

| Visit | Proposal 14441, Visit L2, implementation Diagnostic Status: Warning Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BETWEEN 20-JUL-2016:00:00:00 AND 26-JUL-2016:00:00:00 | | | | | | | | | |
|---------------|--|--------------------------------------|--|--|-----------------|---|---------------|--------|---------------------------------|-------|
| 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. | | | | | | | | | |
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Proposal 14441 - Visit M1 - NUV Spectroscopic Sensitivity Monitoring

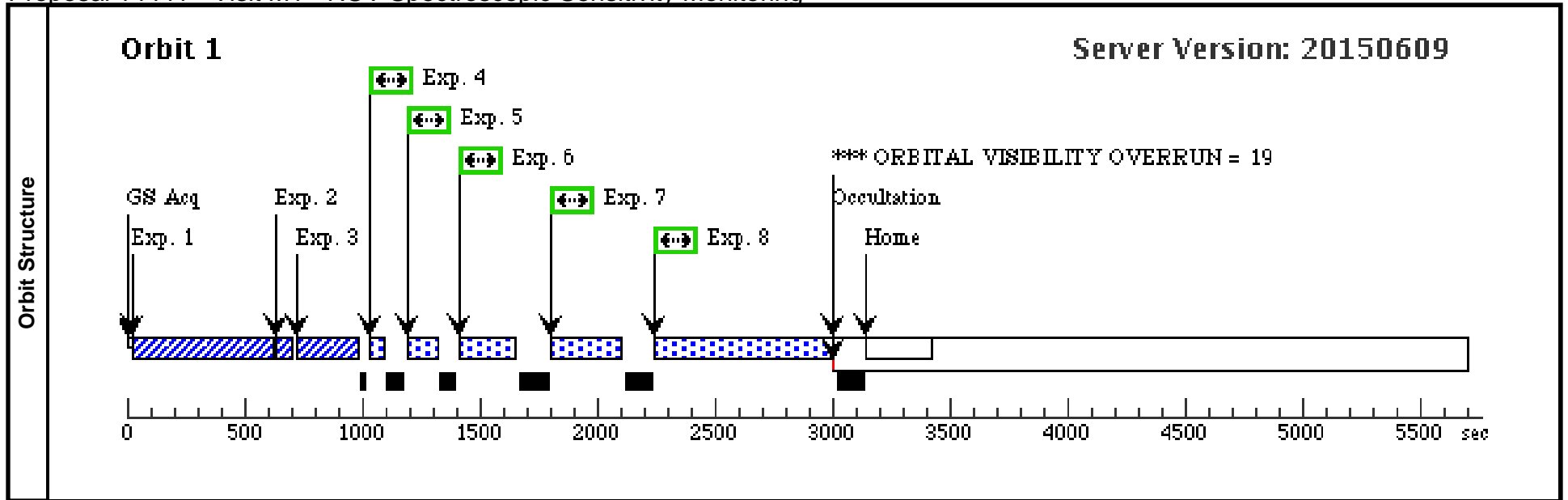
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| Visit | Proposal 14441, Visit M1, implementation Diagnostic Status: Warning Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BETWEEN 20-JAN-2016:00:00:00 AND 26-JAN-2016:00:00:00 |
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| | | 1 | G185M - A CQ/SEARCAH (COS.sa.748 178) | (2) G191B2B | COS/NUV, ACQ/SEARCH, PSA | G185M 1921 A | STEP-SIZE=1.767; SCAN-SIZE=3 | | | 1.0 Secs (1 Secs) [==>] |
| | 2 | G185M - A CQ/PEAKXD (COS.sa.748 179) | (2) G191B2B | COS/NUV, ACQ/PEAKXD, PSA | G185M 1921 A | | | | 1.0 Secs (1 Secs) [==>] | [1] |
| | 3 | G185M - A CQ/PEAKD (COS.sa.748 178) | (2) G191B2B | COS/NUV, ACQ/PEAKD, PSA | G185M 1921 A | STEP-SIZE=0.6; NUM-POS=9.0 | | | 1.0 Secs (1 Secs) [==>] | [1] |
| | 4 | G185M - 19 21 A (COS.sp.748 143) | (2) G191B2B | COS/NUV, TIME-TAG, PSA | G185M 1921 A | BUFFER-TIME=80; FP-POS=3 | | | 47.0 Secs (47 Secs) [==>] | [1] |
| | 5 | G185M - 17 86A (COS.sp.748 144) | (2) G191B2B | COS/NUV, TIME-TAG, PSA | G185M 1786 A | BUFFER-TIME=80; FP-POS=3 | | | 42.0 Secs (42 Secs) [==>] | [1] |
| | 6 | G225M - 21 86 A (COS.sp.748 145) | (2) G191B2B | COS/NUV, TIME-TAG, PSA | G225M 2186 A | BUFFER-TIME=80. ; FP-POS=3 | | | 92.0 Secs (92 Secs) [==>] | [1] |
| | 7 | G285M - 26 17 A (COS.sp.748 146) | (2) G191B2B | COS/NUV, TIME-TAG, PSA | G285M 2617 A | BUFFER-TIME=17 9.0; FP-POS=3 | | | 180.0 Secs (180 Secs) [==>] | [1] |
| | 8 | G285M - 30 94 A (COS.sp.748 149) | (2) G191B2B | COS/NUV, TIME-TAG, PSA | G285M 3094 A | BUFFER-TIME=63 9.0; FP-POS=3 | | | 675.0 Secs (675 Secs) [==>] | [1] |



Proposal 14441 - Visit M2 - NUV Spectroscopic Sensitivity Monitoring

Wed Oct 21 01:59:36 GMT 2015

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| Visit | Proposal 14441, Visit M2, implementation Diagnostic Status: Warning Scientific Instruments: COS/NUV Special Requirements: SCHED 100%; BETWEEN 26-JUL-2016:00:00:00 AND 31-JUL-2016:00:00:00 |
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| | 2 | G185M - A CQ/PEAKXD (COS.sa.748 179) | (2) G191B2B | COS/NUV, ACQ/PEAKXD, PSA | G185M 1921 A | | | | 1.0 Secs (1 Secs) [==>] | [1] |
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