



6646 - CAL-NRS-314: MSA Shorts Checking

Cycle: 3, Proposal Category: CAL/NIRSPEC

INVESTIGATORS

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OBSERVATIONS

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
EXAMPLE - for reference only				
	1	Exposures with current masks applied (control)	NIRSpec Internal Lamp	NONE
	2	Application of test mask 1	NIRSpec MSA Masking	NONE
	3	Exposures with test mask 1 applied	NIRSpec Internal Lamp	NONE
	4	Application of test mask 2	NIRSpec MSA Masking	NONE
	5	Exposures with test mask 2 applied	NIRSpec Internal Lamp	NONE
	6	Application of test mask 3	NIRSpec MSA Masking	NONE
	7	Exposures with test mask 3 applied	NIRSpec Internal Lamp	NONE
	8	Restoration of original ZPM	NIRSpec MSA Masking	NONE
	9	Restoration of original TSM	NIRSpec MSA Masking	NONE

<i>Folder</i>	<i>Observation</i>	<i>Label</i>	<i>Observing Template</i>	<i>Science Target</i>
Cycle 3 Shorts Re-checking: Test #1				
	11	Apply test mask #1 (Q3 171-side line 169)	NIRSpec MSA Masking	NONE
	12	Exposure with test mask #1 applied	NIRSpec Internal Lamp	NONE
	13	Restore nominal ZPM	NIRSpec MSA Masking	NONE
	14	Exposures with nominal mask restored	NIRSpec Internal Lamp	NONE
Cycle 3 Shorts Re-checking: Test #2				
	21	Apply test mask #2 (Q4 365-side lines 354 and 355)	NIRSpec MSA Masking	NONE
	22	Exposure with test mask #2 applied	NIRSpec Internal Lamp	NONE
	23	Restore nominal ZPM	NIRSpec MSA Masking	NONE
	24	Exposures with nominal mask restored	NIRSpec Internal Lamp	NONE

ABSTRACT

Program for re-checking previously masked shorts, as the expectation is that some (many?) could have been transient, and the shutters could be resurrected for science operations.

This calibration program may change in response to system developments and the final Cycle 3 science program.

OBSERVING DESCRIPTION

OBJECTIVE: The MSA control electronics (MCE) sporadically suffer electrical shorts, in which an unintended (and perhaps temporary) pathway bridges circuitry from a quadrant row or column (generically referred to as a line) to the substrate or another line. When a new short appears, the affected line should be identified and then masked, adding a full quadrant line to a dedicated mask in the MCE, effectively removing all the shutters in that line (171 or 365) from operations (this cannot be overruled by an MSA user pattern). This calibration program supports re-checking previously masked shorts, as the expectation is that some (many?) could have been transient, and the shutters could be resurrected for science operations.

METHOD: Re-checking of shorts follows the method described in the primary contingency OSD (CAL-NRS-316) program, with the temporary activation of one or more test mask(s) which removes the line(s) to be checked.

JUSTIFICATION: Short masking has, until now, been purely additive. However, transient shorts are a known phenomenon, raising the possibility that some previously masked shorts are no longer there. Short masking is currently responsible for the largest population of unusable shutters, and each masked row (dispersion direction) directly impacts multiplexing. All shorts since launch have been benign (no danger to the hardware) so there is no risk in re-checking them.

PREVIOUS CALIBRATIONS: A shorts re-checking program (PID 4469) was first introduced in Cycle 2 in anticipation of the development of SOC/OSS capability to apply test masks in the OP, which enables OSD and shorts re-checking without requiring cumbersome real-time commanding. This functionality was delivered in December 2023. As of March 2024, PID 4469 has not yet been used, as the operational procedures for generating and verifying test masks are still under development.

TIMING CONSTRAINTS: This program differs from the contingency ESD (CAL-NRS-315) and OSD (CAL-NRS-316) programs as it is not driven by unpredictable events but can be injected into the timeline when most efficient or most appropriate.

DURATION (total hours): An example shorts rechecking sequence with 3 test masks using the OP-driven mask handling, with a pair of diagnostic CHKBD3x3 exposures taken after each test mask activation, is estimated to take 1.2 hours.

COMMENTS: Only shorts appearing since launch will be considered initially for rechecking, with rows (dispersion direction) given priority as they have the highest impact on multiplexing. Note that because a visit using the masking template can only apply masks of one type (ZPM or TSM), the number of visits required to restore the original masks at the end of an execution of MSA Shorts Checking depends on the number of test mask types

Proposal 6646 - Observation 1 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 1: Exposures with current masks applied (control)</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Internal Lamp</p>											
Diagnostics	<p>(Visit 1:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Spectral Elements	#	Operating Mode	Subarray	Lamp	MSA Configuration	Grating	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	IMAGE	FULL	NONE	CHKBD3x3-1	MIRROR	NRSIRS2RAPID	5	1	1	87.533	
	2	IMAGE	FULL	NONE	CHKBD3x3-3	MIRROR	NRSIRS2RAPID	5	1	1	87.533	
Special Requirements	<p>No Parallel Attachments On Hold Example only Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (alopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9 within 7 Days, Exclusive Use Of Instrument</p>											

Proposal 6646 - Observation 2 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 2: Application of test mask 1</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSspec MSA Masking</p>				
Diagnostics	<p>(Application of test mask 1 (Obs 2)) Warning (Mask File Name): The mask file name NRSQ4S171_007_test1.zro does not match t<m>NRSQ<n>S1_<xyz>.<ext></p> <p>(Visit 2:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>				
Template	<p>Mask Type</p> <p>ZERO_POTENTIAL</p>				
Quadrant List	<table border="1"> <thead> <tr> <th>#</th> <th>Quadrant</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Quadrant 4</td> </tr> </tbody> </table>	#	Quadrant	1	Quadrant 4
#	Quadrant				
1	Quadrant 4				
Special Requirements	<p>No Parallel Attachments On Hold Example only Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (allopen/allclosed) files needed for this visit will be in the ISIM file store before it begins. Approval will also indicate confirmation that the attached file is correct and certified.</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9 within 7 Days, Exclusive Use Of Instrument</p>				

Proposal 6646 - Observation 3 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 3: Exposures with test mask 1 applied</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Internal Lamp</p>											
Diagnostics	<p>(Visit 3:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Spectral Elements	#	Operating Mode	Subarray	Lamp	MSA Configuration	Grating	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	IMAGE	FULL	NONE	CHKBD3x3-1	MIRROR	NRSIRS2RAPI D	5	1	1	87.533	
	2	IMAGE	FULL	NONE	CHKBD3x3-3	MIRROR	NRSIRS2RAPI D	5	1	1	87.533	
Special Requirements	<p>No Parallel Attachments On Hold Example only Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (alopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9 within 7 Days, Exclusive Use Of Instrument</p>											

Proposal 6646 - Observation 4 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 4: Application of test mask 2</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSspec MSA Masking</p>				
Diagnostics	<p>(Application of test mask 2 (Obs 4)) Warning (Mask File Name): The mask file name NRSQ4S171_007_test2.zro does not match t<m>NRSQ<n>S1_<xyz>.<ext></p> <p>(Visit 4:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>				
Template	<p>Mask Type</p> <p>ZERO_POTENTIAL</p>				
Quadrant List	<table border="1"> <thead> <tr> <th>#</th> <th>Quadrant</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Quadrant 4</td> </tr> </tbody> </table>	#	Quadrant	1	Quadrant 4
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Special Requirements	<p>No Parallel Attachments On Hold Example only Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (allopen/allclosed) files needed for this visit will be in the ISIM file store before it begins. Approval will also indicate confirmation that the attached file is correct and certified.</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9 within 7 Days, Exclusive Use Of Instrument</p>				

Proposal 6646 - Observation 5 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 5: Exposures with test mask 2 applied</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Internal Lamp</p>											
Diagnostics	<p>(Visit 5:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Spectral Elements	#	Operating Mode	Subarray	Lamp	MSA Configuration	Grating	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	IMAGE	FULL	NONE	CHKBD3x3-1	MIRROR	NRSIRS2RAPID	5	1	1	87.533	
	2	IMAGE	FULL	NONE	CHKBD3x3-3	MIRROR	NRSIRS2RAPID	5	1	1	87.533	
Special Requirements	<p>No Parallel Attachments</p> <p>On Hold Example only</p> <p>Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (alopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9 within 7 Days, Exclusive Use Of Instrument</p>											

Proposal 6646 - Observation 6 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 6: Application of test mask 3</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSspec MSA Masking</p>				
Diagnostics	<p>(Application of test mask 3 (Obs 6)) Warning (Mask File Name): The mask file name NRSQ4S171_005_test3.tri does not match t<m>NRSQ<n>S1_<xyz>.<ext></p> <p>(Visit 6:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>				
Template	<p>Mask Type</p> <p>TRI_STATE</p>				
Quadrant List	<table border="1"> <thead> <tr> <th>#</th> <th>Quadrant</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Quadrant 4</td> </tr> </tbody> </table>	#	Quadrant	1	Quadrant 4
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1	Quadrant 4				
Special Requirements	<p>No Parallel Attachments On Hold Example only Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (allopen/allclosed) files needed for this visit will be in the ISIM file store before it begins. Approval will also indicate confirmation that the attached file is correct and certified.</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9 within 7 Days, Exclusive Use Of Instrument</p>				

Proposal 6646 - Observation 7 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 7: Exposures with test mask 3 applied</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Internal Lamp</p>											
Diagnostics	<p>(Visit 7:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Spectral Elements	#	Operating Mode	Subarray	Lamp	MSA Configuration	Grating	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	IMAGE	FULL	NONE	CHKBD3x3-1	MIRROR	NRSIRS2RAPI D	5	1	1	87.533	
	2	IMAGE	FULL	NONE	CHKBD3x3-3	MIRROR	NRSIRS2RAPI D	5	1	1	87.533	
Special Requirements	<p>No Parallel Attachments On Hold Example only Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (alopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9 within 7 Days, Exclusive Use Of Instrument</p>											

Proposal 6646 - Observation 8 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 8: Restoration of original ZPM</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec MSA Masking</p>				
Diagnostics	<p>(Visit 8:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>				
Template	<p>Mask Type</p> <p>ZERO_POTENTIAL</p>				
Quadrant List	<table border="1"> <thead> <tr> <th>#</th> <th>Quadrant</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Quadrant 4</td> </tr> </tbody> </table>	#	Quadrant	1	Quadrant 4
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1	Quadrant 4				
Special Requirements	<p>No Parallel Attachments On Hold Example only Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (allopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9 within 7 Days, Exclusive Use Of Instrument</p>				

Proposal 6646 - Observation 9 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 9: Restoration of original TSM</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec MSA Masking</p>				
Diagnostics	<p>(Visit 9:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>				
Template	<p>Mask Type</p> <p>TRI_STATE</p>				
Quadrant List	<table border="1"> <thead> <tr> <th>#</th> <th>Quadrant</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Quadrant 4</td> </tr> </tbody> </table>	#	Quadrant	1	Quadrant 4
#	Quadrant				
1	Quadrant 4				
Special Requirements	<p>No Parallel Attachments On Hold Example only Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (allopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 1, 2, 3, 4, 5, 6, 7, 8, 9 within 7 Days, Exclusive Use Of Instrument</p>				

Proposal 6646 - Observation 11 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 11: Apply test mask #1 (Q3 171-side line 169)</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec MSA Masking</p>				
Diagnostics	<p>(Visit 11:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>				
Template	<p>Mask Type</p> <p>ZERO_POTENTIAL</p>				
Quadrant List	<table border="1"> <thead> <tr> <th>#</th> <th>Quadrant</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Quadrant 3</td> </tr> </tbody> </table>	#	Quadrant	1	Quadrant 3
#	Quadrant				
1	Quadrant 3				
Special Requirements	<p>No Parallel Attachments</p> <p>Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (allopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 11, 12, 13, 14, Non-interruptible</p>				

Proposal 6646 - Observation 12 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 12: Exposure with test mask #1 applied</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Internal Lamp</p>											
Diagnostics	<p>(Visit 12:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Spectral Elements	#	Operating Mode	Subarray	Lamp	MSA Configuration	Grating	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	IMAGE	FULL	NONE	CHKBD3x3-1	MIRROR	NRSIRS2RAPID	5	1	1	87.533	
Special Requirements	<p>No Parallel Attachments</p> <p>Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (allopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 11, 12, 13, 14, Non-interruptible</p>											

Proposal 6646 - Observation 13 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 13: Restore nominal ZPM</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSspec MSA Masking</p>				
Diagnostics	<p>(Visit 13:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>				
Template	<p>Mask Type</p> <p>ZERO_POTENTIAL</p>				
Quadrant List	<table border="1"> <thead> <tr> <th>#</th> <th>Quadrant</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Quadrant 3</td> </tr> </tbody> </table>	#	Quadrant	1	Quadrant 3
#	Quadrant				
1	Quadrant 3				
Special Requirements	<p>No Parallel Attachments</p> <p>Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (allopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 11, 12, 13, 14, Non-interruptible</p>				

Proposal 6646 - Observation 14 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 14: Exposures with nominal mask restored</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Internal Lamp</p>											
Diagnostics	<p>(Visit 14:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Spectral Elements	#	Operating Mode	Subarray	Lamp	MSA Configuration	Grating	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	IMAGE	FULL	NONE	CHKBD3x3-1	MIRROR	NRSIRS2RAPID	5	1	1	87.533	
	2	IMAGE	FULL	NONE	CHKBD3x3-3	MIRROR	NRSIRS2RAPID	5	1	1	87.533	
Special Requirements	<p>No Parallel Attachments</p> <p>Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (allopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 11, 12, 13, 14, Non-interruptible</p>											

Proposal 6646 - Observation 21 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 21: Apply test mask #2 (Q4 365-side lines 354 and 355)</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec MSA Masking</p>				
Diagnostics	<p>(Visit 21:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>				
Template	<p>Mask Type</p> <p>ZERO_POTENTIAL</p>				
Quadrant List	<table border="1"> <thead> <tr> <th>#</th> <th>Quadrant</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Quadrant 4</td> </tr> </tbody> </table>	#	Quadrant	1	Quadrant 4
#	Quadrant				
1	Quadrant 4				
Special Requirements	<p>No Parallel Attachments</p> <p>Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (allopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 21, 22, 23, 24, Non-interruptible</p>				

Proposal 6646 - Observation 22 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 22: Exposure with test mask #2 applied</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Internal Lamp</p>											
Diagnostics	<p>(Visit 22:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Spectral Elements	#	Operating Mode	Subarray	Lamp	MSA Configuration	Grating	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	IMAGE	FULL	NONE	medj01_31_p	MIRROR	NRSIRS2RAPID	5	1	1	87.533	
Special Requirements	<p>No Parallel Attachments</p> <p>Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (alopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 21, 22, 23, 24, Non-interruptible</p>											

Proposal 6646 - Observation 23 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 23: Restore nominal ZPM</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSspec MSA Masking</p>				
Diagnostics	<p>(Visit 23:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>				
Template	<p>Mask Type</p> <p>ZERO_POTENTIAL</p>				
Quadrant List	<table border="1"> <thead> <tr> <th>#</th> <th>Quadrant</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Quadrant 4</td> </tr> </tbody> </table>	#	Quadrant	1	Quadrant 4
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1	Quadrant 4				
Special Requirements	<p>No Parallel Attachments</p> <p>Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (allopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 21, 22, 23, 24, Non-interruptible</p>				

Proposal 6646 - Observation 24 - CAL-NRS-314: MSA Shorts Checking

Tue Dec 17 23:00:19 GMT 2024

Observation	<p>Proposal 6646, Observation 24: Exposures with nominal mask restored</p> <p>Diagnostic Status: Warning</p> <p>Observing Template: NIRSpec Internal Lamp</p>											
Diagnostics	<p>(Visit 24:1) Warning (Form): Overheads are provisional until the Visit Planner has been run.</p>											
Spectral Elements	#	Operating Mode	Subarray	Lamp	MSA Configuration	Grating	Readout Pattern	Groups/Int	Integrations/Exp	Total Integrations	Total Exposure Time	ETC Wkbk.Calc ID
	1	IMAGE	FULL	NONE	CHKBD3x3-1	MIRROR	NRSIRS2RAPID	5	1	1	87.533	
	2	IMAGE	FULL	NONE	CHKBD3x3-3	MIRROR	NRSIRS2RAPID	5	1	1	87.533	
Special Requirements	<p>No Parallel Attachments</p> <p>Special Commanding Special Commanding Approval will indicate confirmation that the MCE resolver conversion, tri-state, zero-potential masks and the predefined MSA configuration (alopen/allclosed) files needed for this visit will be in the ISIM file store before it begins.</p> <p>Sequence Observations 21, 22, 23, 24, Non-interruptible</p>											