

# Traceability Matrix, PPS Proposal Instructions

## Chapter 11: MIRI Low Resolution Spectroscopy

Requirement #	Proposal, Visit, Exposure	Comment
Introduction		
MIR0042	602 1.01	MIRI Low Resolution Spectroscopy template exists
MIR0241	602 1.01	Field: Acquisition Target Name
MIR0045	602 1.01	Acquisition Target Name, chose from list
MIR0242	602 1.01	Field: Target Acquisition Filter
MIR0046	602 1.01	Target Acquisition Filter, choose from list
MIR0243		Field: Subarray
MIR0044		Subarray, FULL or SUBPRISM
MIR0390	6582 3.01	Field: Pattern Type
MIR0391	6582 3.01	Pattern Type, choose from list
MIR0392	6582 3.01	Field: Number of Spectral Steps
MIR0393	6582 3.01	Number of Spectral Steps, 1, 2, 3, ...
MIR0394	6582 3.01	Field: Spectral Step Offset
MIR0395	6582 3.01	Spectral Step Offset, any positive number
MIR0396	6582 3.01	Field: Number of Spatial Steps
MIR0397	6582 3.01	Number of Spatial Steps, 1, 2, 3, ...
MIR0398	6582 3.01	Field: Spatial Step Offset
MIR0399	6582 3.01	Spatial Step Offset, any positive number
MIR0423	602 1.01	Field: Readout Pattern
MIR0424	602 1.01	Readout Pattern, choose from list
MIR0425	602 1.01	Field: Number of Groups
MIR0426	602 1.01	Number of Groups, number
MIR0427	602 1.01	Field: Number of Integrations
MIR0428	602 1.01	Number of Integrations, number
Target Acquisition		
MIR0244	602 2	Science target generally used for acquisition
MIR0245	602 1	Offset star may be used for target acquisition
Acquisition Target		
MIR0055	602 1	Select ACQUISITION TARGET NAME from list targets previously entered
MIR0056	602 1 not defaulted	ACQUISITION TARGET name should always be present and defaulted to prime target for the observation
MIR0246	602 1	Field: Acquisition Target Flux
MIR0247	602 1	Acq Flux populated based on Acq Target Name
MIR0053	PR 78546 APT 23.1	Warning if Acq and Science target too far apart
Acquisition Target Filter		
MIR0057		Acquisition Target Filter
MIR0058	602 3.01	F560W
MIR0059	602 1.01	F1000W
MIR0060	602 4.01	F1500W
MIR0061	602 2.01	FND
Science Exposures		
Subarray		
MIR0051	602 1.01	SUBARRAY: FULL
MIR0052	602 6.01	SUBARRAY: SUBPRISM
Dither Patterns		
MIR0400	602 1.01	Dither pattern doesn't apply to acquisition image
MIR0429	602 6.01	No Dither Pattern for SUBPRISM
Pattern Type		
MIR0537	602 6.01	PATTERN TYPE: NONE
MIR0401	602 1.01	PATTERN TYPE: POINT SOURCE
MIR0402	6582 3.01	PATTERN TYPE: EXTENDED TARGET
Point Source		
MIR0403		Point source takes 2 exposures, one at each of 2 points along slit.
Number of Spectral Steps		

MIR0404	6582 3.01	SPECTRAL STEPS: 1, 2, 3, ...
Spectral Step Offset		
MIR0405	6582 3.01	SPECTRAL STEP OFFSET: units are arcseconds
MIR0406	6582 3.01	SPECTRAL STEP OFFSET: any positive floating point value
Number of Spatial Steps		
MIR0407	6582 3.01	NUMBER OF SPATIAL STEPS: 1, 2, 3, ...
Spatial Step Offset		
MIR0408	6582 3.01	SPATIAL STEP OFFSET: units are arcseconds
MIR0409	6582 3.01	SPATIAL STEP OFFSET: any positive floating point value
Readout Pattern		
MIR0430	602 1.01	FAST
MIR0431	602 4.01	SLOW
MIR0432	602 6.01	FASTGRPAVG
Number of Groups		
MIR0434	602 1.01	NUMBER OF GROUPS
MIR0335	903 2.03	FASTGRPAVG, NUMBER OF GROUPS multiple of 4
MIR0062	903 2.02	FASTGRPAVG, NUMBER OF GROUPS > 16
MIR0063		FASTGRPAVG, NUMBER OF GROUPS >= 8
Number of Integrations		
MIR0435	602 1.01	NUMBER OF INTEGRATIONS