

Traceability Matrix, PPS Proposal Instructions

Chapter 59: FGS Engineering

Requirement #	Proposal, Visit, Exposure	Comment
Introduction		
Imaging		
FGS0006	673 1	Imaging Template exists
FGS0007	673 1	Field: Target Name
FGS0022	673 1	Target Name, choose from list
FGS0023	673 1	Field: Primary Dithers
FGS0024	673 1	Primary Dithers, choose from list
FGS0025	673 1	Field: Subpixel Positions
FGS0037	673 1	Subpixel Positions, choose from list
FGS0027	673 1	Field: Detector
FGS0038	673 1	Detector, choose GUIDER1 or GUIDER2
FGS0039	673 1	Field: Readout Pattern
FGS0040	673 1	Readout Pattern: FGS or FGSRAPID
FGS0041	673 1	Field: Number of Groups
FGS0042	673 1	Number of Groups, specify number
FGS0043	673 1	Field: Number of Integrations
FGS0044	673 1	Number of Integrations, specify number
External Flat		
FGS0045	674 1	External Flat Template exists
FGS0046	674 1	Field: Detector
FGS0047	674 1	Detector, choose GUIDER1 or GUIDER2
FGS0048	674 1	Field: Readout Pattern
FGS0049	674 1	Readout Pattern: FGS or FGSRAPID
FGS0050	674 1	Field: Number of Groups
FGS0051	674 1	Number of Groups, specify number
FGS0052	674 1	Field: Number of Integrations
FGS0053	674 1	Number of Integrations, specify number
Internal Flat		
FGS0054	675 1	Internal Flat Template exists
FGS0055	675 1	Field: Target Name
FGS0056	675 1	Target Name, choose from list
FGS0057	675 1	Field: Calibration Type
FGS0058	675 1	Calibration Type: FULLONLY or WITHSUBARRAYS
FGS0059	675 1	Field: Detector
FGS0060	675 1	Detector, choose GUIDER1 or GUIDER2
Focus		
FGS0001	671 1	Focus Template exists
FGS0002	671 1	Field: Target Name
FGS0003	671 1	Target Name, choose from list
FGS0004	671 1	Field: Detector
FGS0005	671 1	Detector, choose GUIDER1 or GUIDER2
FGS0008	671 1	Field: Readout Pattern
FGS0009	671 1	Readout Pattern: FGS or FGSRAPID
FGS0010	671 1	Field: Number of Groups
FGS0011	671 1	Number of Groups, specify number
FGS0012	671 1	Field: Number of Integrations

FGS0013	671 1	Number of Integrations, specify number
FGS0014	671 1	Field: Relative Position
FGS0015	671 1	Relative Position, specify array of 1-20 positions
59.2 Imaging		
59.2.1 Target Name		
FGS0061	673 1	Target Name
59.2.2 Dither Patterns		
59.2.2.1 Primary Dithers		
FGS0062	673 3,2,1 905 1,2	Primary Dithers 1,2... 24,25 Illegal
59.2.2.2 Subpixel Positions		
FGS0063	673 1	1
FGS0064	673 2	4
FGS0065	673 2	secondary dither points for every primary dither point
FGS0066	673 3	Primary Dithers=Subpixel Positions=1 single image with no offsets
59.2.3 Detector		
FGS0067	673 1	GUIDER1
FGS0068	673 2	GUIDER2
59.2.4 Exposure Duration		
59.2.4.1 Readout Pattern		
FGS0069	673 1	FGS
FGS0070	673 2	FGSRAPID
59.2.4.2 Number of Groups		
FGS0071	673 1	NUMBER OF GROUPS
59.2.4.3 Number of Integrations		
FGS0072	673 1	NUMBER OF ITERATIONS
59.3 External Flat		
59.3.1 Detector		
FGS0073	674 1	GUIDER1
FGS0074	674 2	GUIDER2
59.3.2 Exposure Duration		
59.3.2.1 Readout Pattern		
FGS0075	674 2	FGS
FGS0076	674 1	FGSRAPID
59.3.2.2 Number of Groups		
FGS0077	674 1	NUMBER OF GROUPS
59.3.2.3 Number of Integrations		
FGS0078	674 1	NUMBER OF ITERATIONS
59.4 Internal Flat		
FGS0079	905 3	cannot be obtained as parallel to normal science observations
FGS0080	675 1	implicit PCSMODE COARSE (in sql)
FGS0081	pointing not yet defined	exps with predefined params taken at each point in 3-point dither
59.4.1 Target Name		
FGS0082	675 1	Target Name
59.4.2 Calibration Type		
FGS0083	675 2	FULLONLY
FGS0084	675 1	WITHSUBARRAYS
FGS0085	pointing not yet defined	if FULLONLY only full frame exposures will be taken
FGS0086	pointing not yet defined	if WITHSUBARRAYS exps of set of 9 calibration frames taken along with full frame exps at each point in the dither pattern
59.4.3 Detector		

FGS0087	675 2	GUIDER1
FGS0088	675 1	GUIDER2
59.5 Focus		
FGS0016	905 10	cannot be a parallel to normal science observations
59.5.1 Target Name		
59.5.2 Detector		
FGS0017	671 1	GUIDER1
FGS0018	671 2	GUIDER2
59.5.3 Exposure Duration		
59.5.3.1 Readout Pattern		
FGS0020	671 1	FGS
FGS0021	671 2	FGSRAPID
59.5.3.2 Number of Groups		
FGS0026	671 1	NUMBER OF GROUPS
59.5.3.3 Number of Integrations		
FGS0028	671 1	NUMBER OF ITERATIONS
59.5.4 Relative Positions		
FGS0029	671 2, 3, 5 905 9, 8	array of 1 to 20 positions illegal, 0 positions, 21 positions
FGS0036	905 6	each position must be unique
FGS0030	673 3 905 10	range maximum 28.0 illegal
FGS0031	673 3 905 10	range minimum -28.0 illegal
FGS0032	671 2, 3, 5	focus sweep: enter 2 to 20 positions
FGS0033	671 2	reset focus, specify only 1 position
FGS0034	671 1	use default scan, select the checkbox
FGS0035	671 1	when default checkbox selected, relative position area inactive