AppH1 MIRI AperName population rules

Program, Obs(.Exposure_Spec)	Comment
** is what is really populated by APT versus requirements	
MIRI Imaging Template	
301 01	miri_templates.subarray=FULL MIRIM_ILLUM
301 02	miri_templates.subarray=BRIGHTSKY MIRIM_BRIGHTSKY
301 03	miri_templates.subarray=SUB256 MIRIM_SUB256
301 05	miri_templates.subarray=SUB128 MIRIM_SUB128
301 06	miri_templates.subarray=SUB64 MIRIM_SUB64
301 07	miri_templates.subarray=SUBPRISM MIRIM_SLITLESSUPPER, MIRIM_SLITLESSLOWER **MIRIM_SLITLESSPRISM**
	Note Pure Parallel has NULL for AperName
MIRI Low Resolution Spectroscopy Template	
target acq	
602 01	miri_templates.subarray=FULL MIRIM_TALRS
602 07, 2 TACQs	miri_templates.subarray=SUBPRISM MIRIM_TASLITLESSPRISM **MIRIM_TABLOCK then MIRIM_TASLITLESSPRISM**
science	
602 01	miri_templates.subarray=FULL MIRIM_SLIT
602 07	miri_templates.subarray=SUBPRISM MIRIM_SLITLESSUPPER, MIRIM_SLITLESSLOWER **MIRIM_SLITLESSPRISM**
MIRI Medium Resolution Spectroscopy Template	
target acq	
603 01	always MIRIM_TAMRS
science	
603 01	miri_templates.primary_channel=ALL MIRIFU_CHANNEL1A
603 02	miri_templates.primary_channel=CHANNEL1 MIRIFU_CHANNEL1A
603 03	miri_templates.primary_channel=CHANNEL2 MIRIFU_CHANNEL2A
603 04	miri_templates.primary_channel=CHANNEL3 MIRIFU_CHANNEL3A
603 05	miri_templates.primary_channel=CHANNEL4 MIRIFU_CHANNEL4A
MIRI Coronagraphic Imaging Template	

current requirements wrong, see PR 90020

implicit_exposure	pointing_type	AperName
N	TARGET_ACQUISITION	MIRIM_TABLOCK
Y	TARGET_ACQUISITION	MIRIM_TAaaaa_qq
Y	TARGET_ACQUISITION	MIRIM_TAaaaa_Cqq
N	SCIENCE	MIRIM_MASKaaaa

where qq is

quadrant	qq
1	UR
2	UL
3	LL
4	LR

and aaaa is miri_tremplates.coronagraph/miri_exposure_specification.filter

Coron Mask/Filter	aaaa
4QPM/F1065C	1065
4QPM/F1140C	1140
4QPM/F1550C	1550
LYOT/F2300C	LYOT

target acq	
604 11, 3 TAQs	LYOT/F2300C MIRIM_TABLOCK **MIRIM_TABLOCK, MIRIM_TALYOT_LL, MIRIM_TALYOT_CLL**
604 09, 3 TAQs	4QPM/F1550C MIRIM_TABLOCK **MIRIM_TABLOCK, MIRIM_TA1550_UR, MIRIM_TA1550_CUR**
604 04, 3 TAQs	4QCPM/F1140C MIRIM_TABLOCK **MIRIM_TABLOCK, MIRIM_TA1140_LR, MIRIM_TA1140_CLR**
604 02, 3 TAQs	4QPM/F1065C MIRIM_TABLOCK **MIRIM_TABLOCK, MIRIM_TA1065_UL, MIRIM_TA1065_CUL**
science	
604 11	LYOT/F2300C MIRIM_MASKLYOT
604 09	4QPM/F1550C MIRIM_MASK1550
604 04	4QPM/F1150C MIRIM_MASK1140
604 02	4QPM/F1065C MIRIM_MASK1065
MIRI MIMF Template	
609 01	always MIRIM_FULL **MIRIM_ILLUM**
MIRI CPC Template	

current requirements

SCIENCE MIRIM_MASKaaaa

aaaa is

Coron Mask/Filter	aaaa
4QPM/F1065C	1065
4QPM/F1140C	1140
4QPM/F1550C	1550
LYOT/F2300C	LYOT

610 04	LYOT/F2300C MIRIM_MASKLYOT
610 01	4QPM/F1550C MIRIM_MASK1550
610 03	4QPM/F1150C MIRIM_MASK1140
610 02	4QPM/F1065C MIRIM_MASK1065

MIRI MRS Cross Grating Engineering - NOT IN DOCUMENT	
621 01	always MIRIFU_CHANNEL1A
MIRI External Flat - NOT IN DOCUMENT	
606 21	miri_templates.subarray=FULL MIRIM_ILLUM
606 22	miri_templates.subarray=BRIGHTSKY MIRIM_BRIGHTSKY
606 23	miri_templates.subarray=SUB256 MIRIM_SUB256
606 24	miri_templates.subarray=SUB128 MIRIM_SUB128
606 25	miri_templates.subarray=SUB64 MIRIM_SUB64
606 26	miri_templates.subarray=SUBPRISM MIRIM_SLITLESSUPPER, MIRIM_SLITLESSLOWER **MIRIM_SLITLESSPRISM**
606 30	LYOT/F2300C MIRIM_MASKLYOT
606 29	4QPM/F1550C MIRIM_MASK1550
606 28	4QPM/F1150C MIRIM_MASK1140
606 27	4QPM/F1065C MIRIM_MASK1065
607 06	miri_templates.detector=MRS MIRIFU_CHANNEL1A