Aperture Position Angle Special Requirements

Program,	Comment	
Obs(.Exposure_Spec)		
DB populates special_r	equirements table unless noted as link_requirements table	
Introduction		
	observations have implicit GROUP WITHIN 53 DAYS sr and visits	
	within an observation must execute at same APA (aperture	
	position angle)	
	DB: Group Visits {53.0 Days} {Nonint=FALSE}	
	{ExclusiveInst=FALSE}	
647 1 visits 1-3	DB: Visits Same PA	
647 1 visits 1-3		
V3 PA Range 95 to		
295, see VP constraint		
ABSOLUTE	observation level special requirement applies to ALL visits in	
ORIENT on each visit	that observation	
Supported Formats for Aperture Position Angle Special Requirements		
{} are example argum	ent_1, argument_2, argument_3, argument_4, argument_5	
	APERTURE PA RANGE <min-angle> TO <max-angle></max-angle></min-angle>	
647 1	DB: Aperture PA Range {100} {300} <95.55} {295.55}	
	V3 PA RANGE <min-angle> TO <max-angle></max-angle></min-angle>	
647 1	DB: Aperture PA Range {100} {300} <95.55} {295.55}	
	APERTURE PA OFFSET FROM <observation> BY <min-angle> TO</min-angle></observation>	
	<max-angle></max-angle>	
	DB: link_requirements table	
647 2	Aperture PA Offset {2} {1} {0 Degrees} {180 Degrees}	
	V3 PA OFFSET FROM <observation> BY <min-angle> TO</min-angle></observation>	
	<max-angle></max-angle>	
	DB: link_requirements table	
647 3	V3 PA Offset {3} {1} {4.5 Degrees} {-175.5 Degrees}	
	SAME APERTURE PA <observation-list></observation-list>	
	DB: link_requirements table	
647 5	Same Aperture PA {4,5}	
	SAME V3 PA <observation-list></observation-list>	
	DB: link_requirements table	
647 6	Same V3 PA {4,6}	
	VISITS SAME PA	
647 1	DB: Visits Same PA	
	MSA SELECTED APERTURE PA <min-angle> TO <max-angle></max-angle></min-angle>	
	insert into nirspec_msa_selected_angle (program, observation,	
	visit, angle) values (647, 7, 1, 185)	
	reload 647 pointing to correct DB	
	GUI Implicit Requirements has:	
	MSA Scheduled Aperture PA 323.49234 to 323.49234 Degrees (V3	
647.7	185.0 to 185.0)	
647 7	observation has error of mismatch created/assigned plan	

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	MSA PLANNED APERTURE PA <min-angle> TO <max-angle></max-angle></min-angle>
	DB: not put in DB
	GUI Implicit Requirements has:
	MSA Planned Aperture PA 190.0 to 190.0 Degrees (V3 51.50766 to
647 7	51.50766)
APERTURE PA RANGE <min-angle> TO <max-angle></max-angle></min-angle>	
	nale> TO <max-anale></max-anale>
647 1	V3 PA and Aperture PA are different views of same requirement
952 1, 2	<min-angle> between 0 and 360</min-angle>
952 1, 2	<max-angle> between 0 and 360</max-angle>
647 13	<min-angle> can equal <max-angle></max-angle></min-angle>
647 8	can have multiple acceptable angle ranges
647 16	180 offset angle ranges usually still schedulable
	if multiple targets within visit, PA range at subsequent targets
can't test just in APT	may be slightly different than first target
APERTURE PA OFFSET	FROM <observation> BY <min-angle> TO <max-angle></max-angle></min-angle></observation>
V3 PA OFFSET FROM <observation> BY <min-angle> TO <max-angle>"</max-angle></min-angle></observation>	
	V3 PA OFFSET FROM and Aperture PA OFFSET FROM are different
647 2, 3	views of same requirement
952 4-7	<min-angle> between -180 and 180</min-angle>
952 4-7	<max-angle> between -180 and 180</max-angle>
647 15	<min-angle> can equal <max-angle></max-angle></min-angle>
	only one OFFSET FROM may be specified for an observation
952 9	APT currently between the same observations
Normal and Off-Norma	
SAME APERTURE PA <observation-list></observation-list>	
	SAME V3P PA and SAME APERTURE PA are different
647 5, 6	views of same requirement
,	if observations are from different instruments the apertures may
647 9, 10	cause the observations to be forced apart in time or be
9 schedules by itself	unschedulable
VISITS SAME PA	andareadiable
647 1 visits 1-3	APT will add to any observation which has multiple visits
647 1 visits 1-3	this requirement is not editable
MSA SELECTED APERT	URE PA <min-angle> TO <max-angle></max-angle></min-angle>
	APT will add to any NIRSpec MSA observation once an
see above	aperture position angle has been selected by STScI
MSA PLANNED APERTURE PA <min-angle> TO <max-angle></max-angle></min-angle>	
	APT will add to any NIRSpec MSA observation which doesn't yet
see above	have a selected aperture position angle
	inare a respector observed and a