

## Realtime Commanding

Program, Obs only 1 expspec	Comment
Template Specific Information	
907 1	NO PARALLEL sr automatically added
907 18	error if NO PARALLEL sr removed
907 1	REALTIME sr automatically added
907 18	error if REALTIME sr removed
907 1	REQUIRED sr automatically added
907 18	error if REQUIRED sr removed
907 21	PCS MODE COARSE sr (external target) required if change NONE to external target
907 1	PCS MODE NONE sr (target NONE) automatically added
907 18	error if PCS MODE sr removed
907 1	SPECIAL COMMANDING "Special Commanding Realtime Commanding
685 1	Realtime Commanding template exists
685 1	Field: Target Name choose from list
685 1	Field: Science Instrument choose from list
685 1	Field: Aperture if external target selected
685 1	Field: Realtime Duration number
685 1	Field: Handoff Window Duration number
685 1	Field: Initial Setup Duration number
685 1	Field: Cleanup Duration number
Target Name	
685 2	external target from list
685 1	NONE
907 1	NONE default
Science Instrument	
685 6	FGS
685 2	MIRI
685 4	NIRCAM
685 5	NIRISS
685 3	NIRSPEC
685 1	NONE
685 1,7 link	if RTC visit is included in SEQ NON-INT obs list with EXCLUSIVE USE OF INSTRUMENT and Science Instrument=NONE then APT should ignore the Science Instrument for RTC visit and no error
Aperture	
685 2	select Aperture if external target was selected
685 2-6	all legal for the Science Instrument are available
Realtime Duration	
685 1	number
907 20, 907 14	legal min/max 1,28800
907 12, 907 8	illegal 0, 28801
Handoff Window Duration	
685 1	number
685 2	optional

907 20, 907 14	legal min/max 0,28800
907 12, 907 8	illegal 0, 28801
907 16	error if Realtime Duration < Default (1800s) Handoff Duration
907 18	error Handoff Window Duration > Realtime Duration
Initial Setup Duration	
685 1	number
907 20, 907 14	legal min/max 0,28800
907 12, 907 8	illegal -1, 28801
Cleanup Duration	
685 1	number
907 20, 907 14	legal min/max 0,28800
907 12, 907 8	illegal -1, 28801

|" sr automatically added; can't be removed