

## NIRISS Single-Object Slitless Spectroscopy (SOSS)

Program, Obs 1 expspec only	Comment
654 1	NIRISS SOSS template exists
Target Acquisition Exposure	
654 1	Field: Acquisition Target choose from list
654 1	Field: Acquisition Acq Mode SOSSBRIGHT, SOSSFAINT
654 1	Field: Acquisition Filter F480M
654 1	Field: Acquisition Readout Pattern NIS, NISRPID
654 1	Field: Acquisition Number of Groups/Integration choose from list
Science Exposure	
654 1	Field: Subarray choose from list
654 1	Field: Readout Pattern choose from list
654 1	Field: Number of Groups/Integration number
654 1	Field: Number of Integrations/Exposure number
General Requirements	
902 28	NO PARALLEL sr should be added automatically
902 28	Time Series Observation sr should be added automatically
Target Acquisition Exposure	
Acquisition Target	
654 3	if offset select from list
902 29	if science SS target, acq must be the science target
654 5	if no acquisition needed select NONE, only allowed for FULL
902 28	ACQUISITION TARGET name should always be present and defaulted to SAME TARGET AS OBSERVATION
654 11	Error if Acq and Science target too far apart
Acquisition Mode	
654 1	SOSSBRIGHT
654 2	SOSSFAINT
654 5	NONE
654 5	NONE only allowed with FULL
Acquisition Filter	
654 1	F480M uneditable
Acquisition Readout Pattern	
654 2	NIS
654 1	NISSRAPID
654 1	NIS only available for SOSSFAINT
Acquisition Number of Groups/Integration	
654 4	3
654 6	5
654 10	7
654 1	9
654 3	11
654 8	13
654 9	15
654 7	17
654 2	19
Acquisition Number of Integrations/Exposure	

654 1	automatically set to 1 uneditable
Science Exposure	
Subarray	
654 1	SUBSTRIP256
902 28	SUBSTRIP256 default
654 8	SUBSTRIP96
654 5	FULL
Readout Pattern	
654 1 (902 28)	NISRAPID (default)
654 4	NIS
654 4	NIS only available for FULL
Number of Groups/Integration	
654 1	number
654 5, 654 4	min/max NIS 1,200
902 12, 902 13	illegal NIS 0,201
654 1, 654 2	min/max NISRAPID 1,30
902 15,16	illegal NISRAPID 0,31
Number of Integrations/Exposure	
654 1	number
654 4, 902 16	min,maximum 1,65535
902 12, 902 13	illegal 0,65536