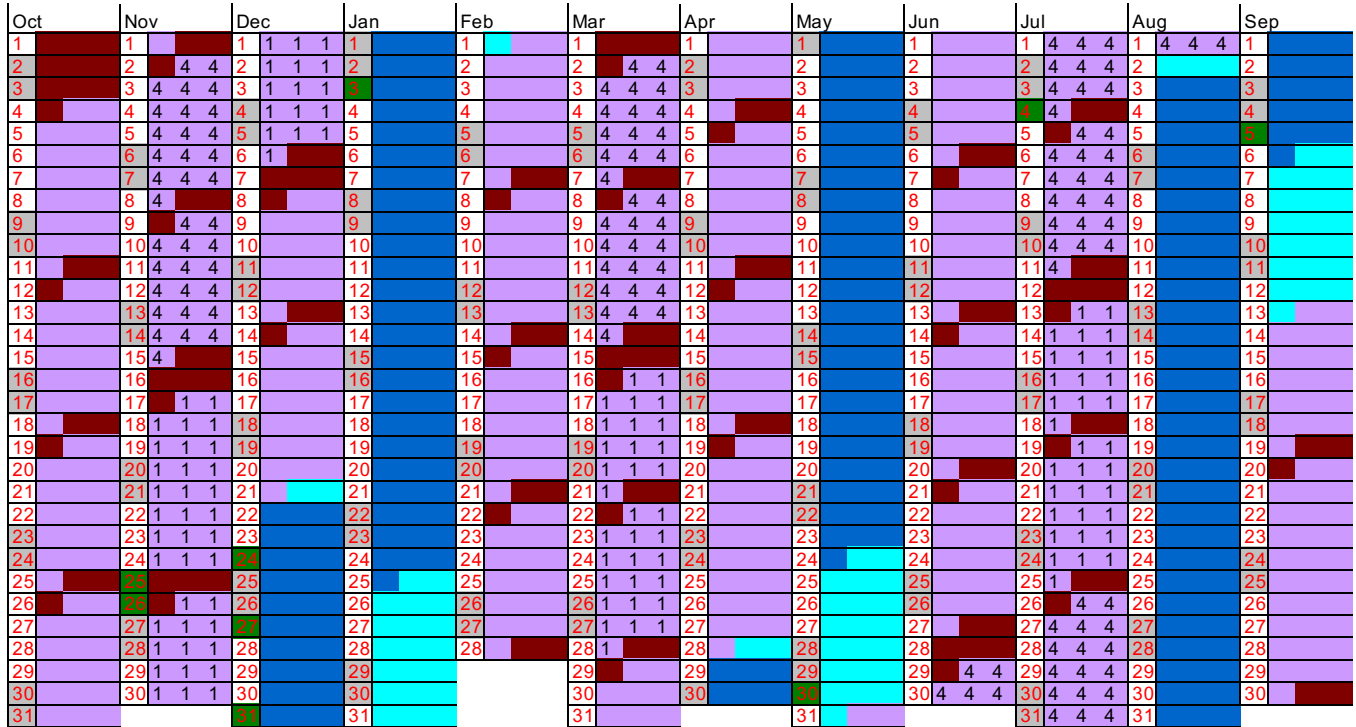


APS Long-Range Operations Schedule

Run 2021-3

Run 2022-1

Run 2022-2



User Operation in standard lattice
 User Operation in Reduced Horizontal Lattice(RHB)
 SOM Periods
1 Hybrid Fill - (singlet)
4 324 Singlets - Non Top-Up
4 324 Singlets RHB - Non Top-Up
 Machine Studies
 Maintenance
 Shifts set aside for Studies/ Machines Intervention as Needed
 Weekends
 Lab Holidays
 Slightly Higher Risk to Operations due to Shutdown Activities

Top-Up Operations is standard unless indicated in fill pattern

Fill pattern is 24 singlets unless otherwise indicated by number

Breakdown of User Shifts by Fill Pattern

Number of 8-hour User Shifts

	24 Singlets - Top-Up	Hybrid Fill - Top-Up	324 Singlets - Non Top-Up	Total Shifts	Total Hours
2021-3	111	53	36	200	1600
2022-1	153	33	33	219	1752
2022-2	120	33	53	206	1648
SUM	384	119	122	625	5000