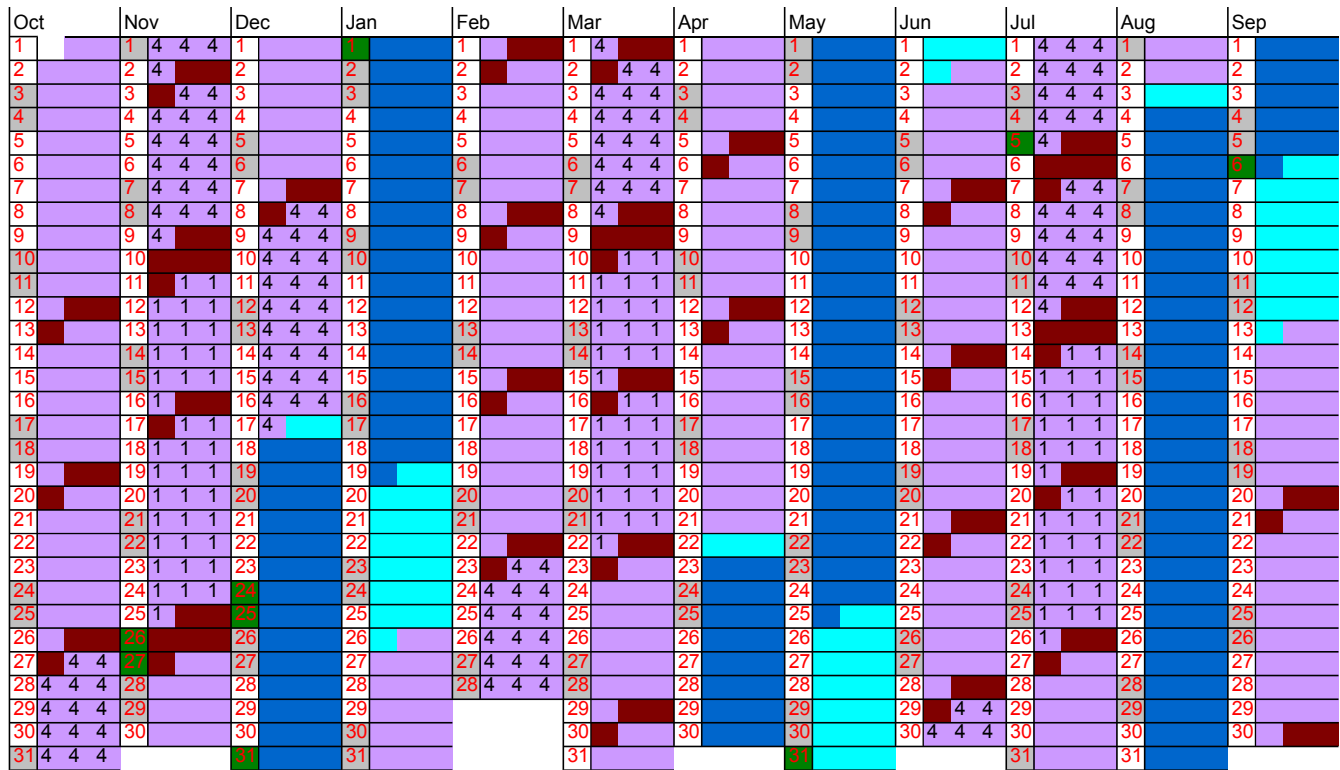


APS Long-Range Operations Schedule

Run 2020-3

Run 2021-1

Run 2021-2



User Operation in standard lattice
 User Operation in Reduced Horizontal Lattice(RHB)
 Top-Up Operations is standard unless indicated in fill pattern

SOM Periods
 1 Hybrid Fill - (singlet)
 4 324 Singlets - Non Top-Up
 4 324 Singlets RHB - Non Top-Up
 Fill pattern is 24 singlets unless otherwise indicated by number

Machine Studies
 Maintenance
 Shifts set aside for Studies/ Machines Intervention as Needed

Weekends
 Lab Holidays
 Slightly Higher Risk to Operations due to Shutdown Activities

Breakdown of User Shifts by Fill Pattern

Number of 8-hour User Shifts

	<i>24 Singlets - Top-Up</i>	<i>Hybrid Fill - Top-Up</i>	<i>324 Singlets - Non Top-Up</i>	<i>Total Shifts</i>	<i>Total Hours</i>
2020-3	99	39	63	201	1608
2021-1	152	33	36	221	1768
2021-2	137	33	33	203	1624
SUM	388	105	132	625	5000