

APS Long-Range Operations Schedule (Fiscal Year 2019)

Run 2018-3

Run 2019-1

Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
	1	1 1 1 1	1 4 4 4	1	1	1 4 4 4	1	1
	2	2 1 1 1	2 4 4 4	2	2	2 4 4 4	2	2
	3	3 1 1 1	3 4	3	3	3 4 4 4	3	3
	4	4 1 1 1	4	4	4	4 4	4	4
	5	5 1	5	5	5	5 4 4	5	5
	6	6 1 1 1	6	6	6	6 4 4 4	6	6
	7	7 1 1 1	7	7	7	7 4 4 4	7	7
	8	8 1 1 1	8	8	8	8 4 4 4	8	8
	9	9 1 1 1	9	9	9	9 4 4 4	9	9
	10	10 1 1 1	10	10	10	10 4 4 4	10	10
	11	11 1 1 1	11	11	11	11 4	11	11
	12	12 1	12	12	12	12	12	12
	13	13 4 4 4	13	13	13	13 1 1 1	13	13
	14	14 4 4 4	14	14	14	14 1 1 1	14	14
	15	15 4 4 4	15	15	15	15 1 1 1	15	15
	16	16 4 4 4	16	16	16	16 1 1 1	16	16
	17	17 4 4 4	17	17	17	17 1 1 1	17	17
	18	18 4 4 4	18	18	18	18 1	18	18
	19	19 4 4 4	19	19	19	19 1 1 1	19	19
	20	20 4 4 4	20	20	20	20 1 1 1	20	20
	21	21 4	21	21	21	21 1 1 1	21	21
	22	22	22	22	22	22 1 1 1	22	22
	23	23 4 4 4	23	23	23	23 1 1 1	23	23
25	25	25 4 4 4	25	25	25	25 1	25	25
26	26	26 4 4 4	26	26	26 4 4 4	26	26	26
27	27	27 4 4 4	27	27	27 4 4 4	27	27	27
28	28	28 4 4 4	28	28	28 4 4 4	28	28	28
29	29	29 4 4 4	29	29	29	29	29	29
30	30	30 4 4 4	30	30	30	30	30	30
	31	31 1 1	31	31	31	31	31	31

User Operation in standard lattice
 User Operation in Reduced Horizontal Lattice(RHB)

SOM Periods
 1 Hybrid Fill - (singlet)
 1 Hybrid Fill RHB - (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

	<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>
2018-3	108	33	54	195	1560
2019-1	146	33	36	215	1720
SUM	254	66	90	410	3280