

# APS Long-Range Operations Schedule (Fiscal Year 2019)

Run 2018-3

Run 2019-1

Run 2019-2

Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1		1 1 1 1	1 4 4 4	1		1 4 4 4	1		1		1 4 4 4	1
2		2 1 1 1	2 4 4 4	2		2 4 4 4	2		2		2 4 4 4	2
3		3 1 1 1	3 4	3		3 4 4 4	3		3		3 4	3
4		4 1 1 1	4	4		4 4	4		4		4	4
5		5 1	5	5		5 4 4	5		5		5 4 4	5
6		6 1 1	6	6		6 4 4 4	6		6		6 4 4 4	6
7		7 1 1 1	7	7		7 4 4 4	7		7		7 4 4 4	7
8		8 1 1 1	8	8		8 4 4 4	8		8		8 4 4 4	8
9		9 1 1 1	9	9		9 4 4 4	9		9		9 4 4 4	9
10		10 1 1 1	10	10		10 4 4 4	10		10		10 4 4 4	10
11		11 1 1 1	11	11		11 4	11		11		11 4 4 4	11
12		12 1	12	12		12	12		12		12 4 4 4	12
13		13 4 4	13	13		13 1 1	13		13		13 4 4 4	13
14		14 4 4 4	14	14		14 1 1 1	14		14		14 4 4 4	14
15		15 4 4 4	15	15		15 1 1 1	15		15		15 4	15
16		16 4 4 4	16	16		16 1 1 1	16		16		16	16
17		17 4 4 4	17	17		17 1 1 1	17		17		17 1 1	17
18		18 4 4 4	18	18		18 1	18		18		18 1 1 1	18
19		19 4 4 4	19	19		19 1 1	19		19		19 1 1 1	19
20		20 4 4 4	20	20		20 1 1 1	20		20		20 1 1 1	20
21		21 4	21	21		21 1 1 1	21		21		21 1 1 1	21
22		22	22	22		22 1 1 1	22		22		22 1	22
23		23 4 4	23	23		23 1 1 1	23		23		23 1 1	23
24		24 4 4 4	24	24		24 1 1 1	24		24		24 1 1 1	24
25		25 4 4 4	25	25		25 1	25		25		25 4 4	25
26		26 4 4 4	26	26		26 4 4	26		26		26 4 4 4	26
27		27 4 4 4	27	27		27 4 4 4	27		27		27 4 4 4	27
28		28 4 4 4	28	28		28 4 4 4	28		28		28 4 4 4	28
29		29 4 4 4	29	29			29		29		29 1	29
30		30 4 4 4	30	30			30		30		30 4 4 4	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)  
 Hybrid Fill RHB - (singlet)  
 324 Singlets - Non Top-Up  
 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
2019-2	128	33	54	215	1720
SUM	382	99	144	625	5000