

FY 2017 Reliability Summary

Data through Run 2017-2

FY 2017 Actual	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours					
RF	0.35%	17.50	7	692.6	0.03	User Downtime Hours	151.70
Diagnostics	0.00%	0.00	0		0.00		
PS	0.39%	19.28	13	372.9	0.06	Scheduled Hours	5000
Controls	0.03%	1.47	1	4848.3	0.00	Delivered Hours	4848.3
Network	0.00%	0.00	0		0.00		
Safety Interlocks	0.04%	1.95	2	2424.1	0.01		
Radiation Monitors	0.00%	0.00	0		0.00	User Availability	96.97%
MOM	0.17%	8.70	9	538.7	0.04		
Vacuum	0.37%	18.60	0		0.00	Longest period w/out a fault	527.72
Operations	0.05%	2.27	0		0.00		
ID-FE	0.01%	0.52	0		0.00		
ID-FE/MD	0.00%				0.00		
ID-FE/XFE	0.00%				0.00		
Utilities	0.02%	1.07	2	2424.1	0.01		
Electrical - APS	0.00%	0.00	0		0.00		
Electrical - ANL	0.02%	1.07	2	2424.1	0.01		
Cooling - ANL	0.00%	0.00	0		0.00		
Other	1.59%	79.67	1	4848.3	0.00		
Unidentified	0.01%	0.67	1	4848.3	0.00		
APS-U		0.67	1	4848.3	0.00		
Total	3.05%	152.35	36	134.7	0.18		

Run 2016-3	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours					
RF	0.77%	12.02	4	384.8	0.06	User Downtime Hours	21.67
Diagnostics	0.00%	0.00	0		0.00		
PS	0.26%	4.10	6	256.6	0.09	Scheduled Hours	1561.0
Controls	0.09%	1.47	1	1539.3	0.02	Delivered Hours	1539.3
Network	0.00%	0.00	0		0.00		
Safety Interlocks	0.12%	1.95	2	769.7	0.03	User Availability	98.61%
Radiation Monitors	0.00%	0.00	0		0.00		
MOM	0.03%	0.50	1	1539.3	0.02		
Vacuum	0.00%	0.00	0		0.00	Longest period w/out a fault	351.94
Operations	0.07%	1.10	0		0.00		
ID-FE	0.03%	0.52	0		0.00		
Utilities	0.00%	0.00	0		0.00		
Electrical - APS	0.00%	0.00	0		0.00		
Electrical - ANL	0.00%	0.00	0		0.00		
Cooling - ANL	0.00%	0.00	0		0.00		
Other	0.00%	0.00	0		0.00		
Unidentified	0.00%	0.00	0		0.00		
Total	1.41%	21.65	14	110.0	0.22		

Run 2017-1	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours					
RF	0.00%	0.00	0		0.00	User Downtime Hours	20.95
Diagnostics	0.00%	0.00	0		0.00		
PS	0.73%	12.57	5	339.6	0.07	Scheduled Hours	1719
Controls	0.00%	0.00	0		0.00	Delivered Hours	1698.0
Network	0.00%	0.00	0		0.00		
Safety Interlocks	0.00%	0.00	0		0.00	User Availability	98.8%
Radiation Monitors	0.00%	0.00	0		0.00		
MOM	0.40%	6.95	6	283.0	0.08		
Vacuum	0.00%	0.00	0		0.00	Longest period w/out a fault	361.28
Operations	0.05%	0.88	0		0.00		
ID-FE	0.00%	0.00	0		0.00		
Utilities	0.03%	0.55	1	1698.0	0.01		
Electrical - APS	0.00%	0.00	0		0.00		
Electrical - ANL	0.03%	0.55	1	1698.0	0.01		
Cooling - ANL	0.00%	0.00	0		0.00		
Other	0.00%	0.00	0		0.00		
Unidentified	0.00%	0.00	0		0.00		
Total	1.23%	20.95	12	141.5	0.17		

Run 2017-2	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours					
RF	0.32%	5.48	3	513.1	0.05	User Downtime Hours	109.08
Diagnostics	0.00%	0.00	0		0.00		
PS	0.15%	2.62	2	769.7	0.03	Scheduled Hours	1720.0
Controls	0.00%	0.00	0		0.00	Delivered Hours	1610.9
Network	0.00%	0.00	0		0.00		
Safety Interlocks	0.00%	0.00	0		0.00	User Availability	93.7%
Radiation Monitors	0.00%	0.00	0		0.00		
MOM	0.07%	1.25	2	769.7	0.03		
Vacuum	1.08%	18.60	0		0.00	Longest period w/out a fault	527.72
Operations & Analy	0.02%	0.28	0		0.00		
Physics	0.00%	0.00	0		0.00		
ID-FE	0.00%	0.00	0		0.00		
ID-FE/MD	0.00%	0.00	0		0.00		
UES	0.00%	0.00	0		0.00		
Utilities	0.03%	0.52	1	1539.3	0.02		
Electrical - APS	0.00%	0.00	0		0.00		
Electrical - ANL	0.03%	0.52	1	1539.3	0.02		
Cooling - ANL	0.00%	0.00	0		0.00		
Other	4.63%	79.67	1	1539.3	0.02		
Unidentified	0.04%	0.67	1	1539.3	0.02		
APS-U	0.00%	0.00	0		0.00		
Total	6.34%	109.08	10	161.1	0.15		

Updated 11/14/2017