

FY 2018 Reliability Summary

Data through Run 2018-2

FY 2017 Actual	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.24%	12.00	12	404.9	0.06	User Downtime Hours	141.25
Diagnostics	0.05%	2.52	1	4858.8	0.00		
PS	0.38%	19.02	11	441.7	0.05	Scheduled Hours	5000
Controls	0.12%	6.20	6	809.8	0.03		
Network	0.00%	0.00	0		0.00	Delivered Hours	4858.8
Safety Interlocks	0.23%	11.40	7	694.1	0.03		
Radiation Monitors	0.02%	0.90	1	4858.8	0.00	User Availability	97.18%
Water/ME	0.12%	5.85	1	4858.8	0.00		
Vacuum	1.35%	67.63	1	4858.8	0.00	Longest period w/out a fault	326.46
Operations	0.13%	6.58	3	1619.6	0.01		
ID-FE	0.04%	1.80	0		0.00		
Utilities	0.09%	4.42	4	1214.7	0.02		
Electrical - APS	0.02%	1.08	2	2429.4	0.01		
Electrical - ANL	0.03%	1.53	2	2429.4	0.01		
Cooling - ANL	0.04%	1.80	0		0.00		
Other	0.00%	0.00	0		0.00		
Unidentified	0.06%	2.93	3	1619.6	0.01		
APS-U					0.00		
<b>Total</b>	<b>2.82%</b>	<b>141.25</b>	<b>52</b>	<b>93.4</b>	<b>0.26</b>		

  

Run 2017-3	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.12%	1.92	2	766.0	0.03	User Downtime Hours	21.02
Diagnostics	0.04%	0.65	1	1532.0	0.02		
PS	0.26%	4.03	2	766.0	0.03	Scheduled Hours	1553.0
Controls	0.00%				0.00	Delivered Hours	1532.0
Network							
Safety Interlocks	0.29%	4.43	2	766.0	0.03	User Availability	98.65%
Radiation Monitors	0.00%				0.00		
Water/ME	0.38%	5.85	1	1532.0	0.02		
Vacuum	0.00%				0.00	Longest period w/out a fault	326.46
Operations	0.03%	0.52	1	1532.0	0.02		
ID-FE	0.00%				0.00		
Utilities	0.13%	2.02	3	510.7	0.05		
Electrical - APS	0.07%	1.08	2	766.0	0.03		
Electrical - ANL	0.06%	0.93	1	1532.0	0.02		
Cooling - ANL	0.00%				0.00		
Other	0.00%				0.00		
Unidentified	0.11%	1.70	2	766.0			
<b>Total</b>	<b>1.37%</b>	<b>21.02</b>	<b>14</b>	<b>109.4</b>	<b>0.22</b>		

  

Run 2018-1	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.55%	9.55	9	190.0	0.13	User Downtime Hours	32.93
Diagnostics	0.11%	1.97	0		0.00		
PS	0.40%	7.02	4	427.5	0.06	Scheduled Hours	1743
Controls	0.18%	3.08	3	570.0	0.04	Delivered Hours	1710.1
Network	0.00%						
Safety Interlocks	0.33%	5.70	4	427.5	0.06	User Availability	98.1%
Radiation Monitors	0.05%	0.90	1	1710.1	0.01		
MOM	0.00%				0.00		
Vacuum	0.00%				0.00	Longest period w/out a fault	315.82
Operations	0.25%	4.30	1	1710.1	0.01		
ID-FE	0.00%				0.00		
Utilities	0.00%				0.00		
Electrical - APS	0.00%				0.00		
Electrical - ANL	0.00%				0.00		
Cooling - ANL	0.00%				0.00		
Other	0.00%				0.00		
Unidentified	0.02%	0.42	1	1710.1	0.01		
<b>Total</b>	<b>1.93%</b>	<b>32.93</b>	<b>23</b>	<b>74.4</b>	<b>0.32</b>		

  

Run 2018-2	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.03%	0.53	1	1532.0	0.02	User Downtime Hours	87.30
Diagnostics	0.00%				0.00		
PS	0.47%	7.97	5	306.4	0.08	Scheduled Hours	1704.0
Controls	0.18%	3.12	3	510.7	0.05	Delivered Hours	1616.7
Network	0.00%						
Safety Interlocks	0.07%	1.27	1	1532.0	0.02	User Availability	94.9%
Radiation Monitors	0.00%				0.00		
MOM	0.00%				0.00		
Vacuum	3.97%	67.63	1	1532.0	0.02	Longest period w/out a fault	305.78
Operations & Analy	0.10%	1.77	1	1532.0	0.02		
Physics	0.00%				0.00		
ID-FE	0.11%	1.80			0.00		
ID-FE/MD	0.00%				0.00		
UES	0.11%	1.80	2	766.0	0.03		
Utilities	0.14%	2.40	1	1532.0	0.02		
Electrical - APS	0.00%				0.00		
Electrical - ANL	0.04%	0.60	1	1532.0	0.02		
Cooling - ANL	0.11%	1.80			0.00		
Other	0.00%				0.00		
Unidentified	0.05%	0.82			0.00		
APS-U	0.00%				0.00		
<b>Total</b>	<b>5.12%</b>	<b>87.30</b>	<b>15</b>	<b>107.8</b>	<b>0.22</b>		

Updated 9/11/2018