

FY 2023 Reliability Summary

Data through Run 2023-1

FY 2023 Actual	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.82%	25.75	7	438.1	0.05	User Downtime Hours	85.45
Diagnostics	0.05%	1.58	2	1533.3	0.02	Scheduled Hours	3152
PS	0.59%	18.50	6	511.1	0.05		
Controls	0.10%	3.18	2	1533.3	0.02	Delivered Hours	3066.6
Network	0.00%	0.00	0		0.00		
Safety Interlocks	0.25%	7.98	3	1022.2	0.02	User Availability	97.29%
Radiation Monitors	0.00%	0.00	0		0.00		
Water/ME	0.14%	4.30	3	1022.2	0.02	Longest period w/out a fault	483.74
Vacuum	0.00%	0.00	0		0.00		
Operations	0.12%	3.93	2	1533.3	0.02		
AOP	0.05%	1.68	4	766.6	0.03		
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	0.03%	1.07	1	3066.6	0.01		
Unidentified	0.04%	1.27	2	1533.3	0.02		
APS-U					0.00		
FE-ID	0.98%	15.25	0		0.00		
<b>Total</b>	<b>2.71%</b>	<b>85.45</b>	<b>32</b>	<b>95.8</b>	<b>0.25</b>		

  

Run 2022-3	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours	of Faults	to Beam Loss	Day		
RF	1.34%	21.27	3	522.7	0.05	User Downtime Hours	25.05
Diagnostics	0.06%	0.92	1	1568.0	0.02	Scheduled Hours	1593.0
PS	0.00%	0.00	0		0.00		
Controls	0.05%	0.85	1	1568.0	0.02	Delivered Hours	1568.0
Network						User Availability	98.43%
Safety Interlocks	0.00%				0.00		
Radiation Monitors	0.00%				0.00	Longest period w/out a fault	483.74
Water/ME	0.00%				0.00		
Vacuum	0.00%				0.00		
AOP	0.06%	0.95	0		0.00		
MCR	0.00%				0.00		
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	0.07%	1.07	1	1568.0	0.02		
Unidentified	0.00%				0.00		
<b>Total</b>	<b>1.57%</b>	<b>25.05</b>	<b>6</b>	<b>261.3</b>	<b>0.09</b>		

  

Run 2023-1	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.29%	4.48	4	374.7	0.06	User Downtime Hours	60.40
Diagnostics	0.04%	0.67	1	1498.6	0.02	Scheduled Hours	1559
PS	1.19%	18.50	6	249.8	0.10		
Controls	0.15%	2.33	1	1498.6	0.02	Delivered Hours	1498.6
Network	0.00%					User Availability	96.1%
Safety Interlocks	0.51%	7.98	3	499.5	0.05		
Radiation Monitors	0.00%				0.00	Longest period w/out a fault	212.75
MOM	0.28%	4.30	3	499.5	0.05		
Vacuum	0.00%				0.00		
Operations	0.25%	3.93	2	749.3	0.03		
AOP	0.11%	1.68	4	374.7	0.06		
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	0.08%	1.27	2	749.3	0.03		
FE-ID	0.98%	15.25	0		0.00		
<b>Total</b>	<b>4.03%</b>	<b>60.40</b>	<b>26</b>	<b>57.6</b>	<b>0.42</b>		

Updated

4/21/2023