

FY 2025 Reliability Summary

Data through Run 2025-3(1)

	Unavailability	Unavailability	Number	Mean Time	Faults Per		
FY 2025 Actual	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.79%	39.52	37	130.0	0.18	User Downtime Hours	153.28
Diagnostics	0.14%	6.82	6	801.5	0.03		
PS	0.55%	27.32	12	400.7	0.06	Scheduled Hours	5000
Controls	0.30%	15.08	15	320.6	0.07		
Network	0.07%	3.43	1	4808.9	0.00	Delivered Hours	4808.9
Safety Interlocks	0.40%	20.08	16	300.6	0.08		
Radiation Monitors	0.28%	14.10	11	437.2	0.05	User Availability	96.18%
Water/ME	0.09%	4.68	3	1603.0	0.01		
Vacuum	0.04%	1.77	4	1202.2	0.02	Longest period w/out a fault	209.44
Operations	0.04%	2.08	3	1603.0	0.01		
AOP	0.02%	1.00	2	2404.4	0.01		
Utilities	0.37%	18.55	5	961.8	0.02		
Electrical - APS	0.34%	17.13	4	1202.2	0.02		
Electrical - ANL	0.03%	1.42	1	4808.9	0.00		
Cooling - ANL	0.00%	0.00	0		0.00		
Other	0.57%	28.48	2	2202.5	0.01		
Unidentified	0.05%	2.27	4	1202.2	0.02		
APS-U					0.00		
Total	3.70%	185.18	127	37.8	0.63		

	Unavailability	Unavailability	Number	Mean Time	Faults Per		
Run 2024-3	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.77%	12.05	9	169.7	0.14	User Downtime Hours	41.28
Diagnostics	0.31%	4.88	3	509.2	0.05		
PS	0.37%	5.82	2	763.9	0.03	Scheduled Hours	1569.0
Controls	0.09%	1.48	2	763.9	0.03	Delivered Hours	1527.7
Network		3.43	1				
Safety Interlocks	0.42%	6.58	9	169.7	0.14	User Availability	97.37%
Radiation Monitors	0.06%	0.98	2	763.9	0.03		
Water/ME	0.00%				0.00		
Vacuum	0.11%	1.77	4	381.9	0.06	Longest period w/out a fault	197.34
AOP	0.11%	1.75	2	763.9	0.03		
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	0.13%	2.12	2	763.9	0.03		
Unidentified	0.03%	0.42	1	1527.7	0.02		
Total	2.63%	41.28	37	41.3	0.58		

	Unavailability	Unavailability	Number	Mean Time	Faults Per		
Run 2025-1	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.98%	18.52	20	88.8	0.27	User Downtime Hours	112.00
Diagnostics	0.10%	1.93	3	591.7	0.04		
PS	1.14%	21.50	10	177.5	0.14	Scheduled Hours	1887
Controls	0.65%	12.35	12	147.9	0.16	Delivered Hours	1775.0
Network	0.00%						
Safety Interlocks	0.09%	1.63	1	1775.0	0.01	User Availability	94.1%
Radiation Monitors	0.40%	7.52	2	887.5	0.03		
MOM	0.16%	3.10	2	887.5	0.03		
Vacuum	0.00%				0.00	Longest period w/out a fault	173.6
Operations	0.02%	0.33	1	1775.0	0.01		
AOP	0.05%	1.00	2	887.5	0.03		
Utilities	0.72%	13.57	2	887.5	0.03		
Electrical - APS	0.72%	13.57	2	887.5	0.03		
Electrical - ANL	0.00%				0.00		
Cooling - ANL	0.00%				0.00		
Other	1.45%	27.30	1	1775.0	0.01		
Unidentified	0.09%	1.70	2	887.5	0.03		
FE-ID	0.02%	0.38	1	887.5	0.03		
User	0.06%	1.17	1	1775.0	0.01		
Total	6.31%	112.00	60	29.6	0.81		

	Unavailability	Unavailability	Number	Mean Time	Faults Per		
Run 2025-2	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.47%	8.95	8	221.9	0.11	User Downtime Hours	37.87
Diagnostics	0.00%				0.00		
PS	0.00%				0.00	Scheduled Hours	1544
Controls	0.07%	1.25	1	1775.0	0.01	Delivered Hours	1506.1
Network	0.00%						
Safety Interlocks	0.63%	11.87	6	295.8	0.08	User Availability	97.5%
Radiation Monitors	0.30%	5.60	7	253.6	0.09		
MOM	0.08%	1.58	1	1775.0	0.01		
Vacuum	0.00%				0.00	Longest period w/out a fault	209.44
Operations	0.00%				0.00		
AOP	0.00%				0.00		
Utilities	0.26%	4.98	3	591.7	0.04		
Electrical - APS	0.19%	3.57	2	887.5	0.03		
Electrical - ANL	0.08%	1.42	1	1775.0	0.01		
Cooling - ANL	0.00%				0.00		
Other	0.06%	1.18	1	1500.0	0.02		
Unidentified	0.03%	0.57	2	887.5	0.03		
FE-ID	0.00%				0.00		
User	0.08%	1.58	1	1775.0	0.01		
Total	2.12%	37.57	30	49.9	0.48		

Updated

10/1/2025