

FY 2008 Reliability Summary

Data through Run 2008-2.

FY 2008 Actual	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours					
RF	1.04%	47.53	14	319.9	0.08	User Downtime Hours	109.4
Diagnostics	0.35%	16.17	7	639.8	0.04		
PS	0.68%	31.42	18	248.8	0.10	Scheduled Hours	4588
Controls	0.02%	1.03	2	2239.4	0.01		
Network	0.00%	0.00	0		0.00		
Interlocks	0.04%	1.62	2	2239.4	0.01	Delivered Hours	4478.8
Accelerator	0.00%	0.00	0		0.00		
Beamline	0.01%	0.50	1	4478.8	0.01	User Availability	97.6%
Radiation	0.02%	1.12	1	4478.8	0.01		
MOM	0.03%	1.53	2	2239.4	0.01		
S&A	0.00%	0.00	0		0.00		
Operations	0.15%	6.83	2	2239.4	0.01		
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		
ID-FE/XFE	0.00%	0.00	0		0.00		
Utilities	0.03%	1.60	1	4478.8	0.01		
Electrical - APS	0.00%	0.00	0		0.00		
Electrical - ANL	0.00%	0.00	0		0.00		
Cooling - ANL	0.03%	1.60	1	4478.8	0.01		
Other	0.02%	0.80	0		0.00		
Unidentified	0.02%	0.85	1	4478.8	0.01		
Total	2.38%	109.38	49	91.4	0.26		

Run 2007-3	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours					
RF	0.11%	1.70	4	390.8	0.06	User Downtime Hours	13.90
Diagnostics	0.14%	2.18	4	390.8	0.06		
PS	0.08%	1.32	2	781.6	0.03	Scheduled Hours	1577.0
Controls	0.04%	0.70	1	1563.1	0.02		
Network	0.00%	0.00	0		0.00		
Interlocks	0.00%	0.00	0		0.00	Delivered Hours	1563.1
Accelerator	0.00%	0.00	0		0.00		
Beamline	0.00%	0.00	0		0.00	User Availability	99.1%
Radiation	0.00%	0.00	0		0.00		
MOM	0.10%	1.53	2	781.6	0.03		
S&A	0.00%	0.00	0		0.00		
Operations	0.41%	6.47	2	781.6	0.03		
Physics	0.00%	0.00	0		0.00		
ID-FE	0.00%	0.00	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	0.89%	13.90	15	104.2	0.23		

Run 2008-1	Unavailability Percent	Unavailability Hours	Number of Faults	Mean Time to Beam Loss	Faults Per Day		
RF	2.51%	43.28	6	260.5	0.09	User Downtime Hours	55.0
Diagnostics	0.03%	0.50	1	1563.1	0.02		
PS	0.58%	10.05	4	390.8	0.06	Scheduled Hours	1727.0
Controls	0.02%	0.33	1	1563.1	0.02		
Network	0.00%	0.00	0		0.00		
Interlocks	0.03%	0.50	1	1563.1	0.02	Delivered Hours	1672.0
Accelerator	0.00%	0.00	0		0.00		
Beamline	0.03%	0.50	1	1563.1	0.02	User Availability	96.8%
Radiation	0.00%	0.00	0		0.00		
MOM	0.00%	0.00	0		0.00		
S&A	0.00%	0.00	0		0.00		
Operations	0.02%	0.37	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		
ID-FE/XFE	0.00%	0.00	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	3.19%	55.03	13	128.6	0.19		

Run 2008-2	Unavailability Percent	Unavailability Hours	Number of Faults	Mean Time to Beam Loss	Faults Per Day		
RF	0.20%	2.55	4	310.9	0.08	User Downtime Hours	40.5
Diagnostics	1.05%	13.48	2	836.0	0.03		
PS	1.56%	20.05	12	103.6	0.23	Scheduled Hours	1284.1
Controls	0.00%	0.00	0		0.00		
Network	0.00%	0.00	0		0.00		
Interlocks	0.09%	1.12	1	1672.0	0.01	Delivered Hours	1243.7
Accelerator	0.00%	0.00	0		0.00		
Beamline	0.00%	0.00	0		0.00	User Availability	96.9%
Radiation	0.09%	1.12	1	1243.7	0.02		
MOM	0.00%	0.00	0		0.00		
S&A	0.00%	0.00	0		0.00		
Operations & Analysis	0.00%	0.00	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		
ID-FE/XFE	0.00%	0.00	0		0.00		
Utilities	0.00%	1.60	1	1243.7	0.02		
Electrical - APS	0.00%	0.00	0		0.00		
Electrical - ANL	0.00%	0.00	0		0.00		
Cooling - ANL	0.12%	1.60	1	1243.7	0.02		
Other	0.06%	0.80	0		0.00		
Unidentified	0.07%	0.85	1	1672.0	0.01		
Total	3.15%	40.45	21	59.2	0.41		

Updated

3/2/2012