

FY 2013 Reliability Summary

Data through Run 2013-2

	Unavailability	Unavailability	Number	Mean Time	Faults Per		
FY 2013 Actual	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.54%	27.12	16	305.9	0.08	User Downtime Hours	105.02
Diagnostics	0.00%	0.17	0		0.00		
PS	0.35%	17.43	10	489.5	0.05	Scheduled Hours	5000
Controls	0.17%	8.34	2	2447.5	0.01	Delivered Hours	4895.0
Network	0.00%	0.00	0		0.00		
Safety Interlocks	0.29%	14.55	8	611.9	0.04		
Radiation Monitors	0.00%	0.00	0		0.00	User Availability	97.90%
MOM	0.06%	3.03	3	1631.7	0.01		
S&A	0.00%	0.00	0		0.00	Longest period w/out a fault	573.77
Operations	0.16%	8.06	4	1223.7	0.02		
ID-FE	0.00%	0.00	0		0.00		
ID-FE/MD	0.00%				0.00		
ID-FE/XFE	0.00%				0.00		
Utilities	0.31%	15.42	3	1631.7	0.01		
Electrical - APS	0.08%	3.83	1	4895.0	0.00		
Electrical - ANL	0.23%	11.58	2	2447.5	0.01		
Cooling - ANL	0.00%	0.00	0		0.00		
Other	0.06%	2.93	2	2447.5	0.01		
Unidentified	0.15%	7.63	0		0.00		
APS-U		0.34	1	4895.0	0.00		
Total	2.10%	105.02	49	99.9	0.24		

	Unavailability	Unavailability	Number	Mean Time	Faults Per		
Run 2012-3	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.40%	6.25	8	191.9	0.13	User Downtime Hours	33.85
Diagnostics	0.00%				0.00		
PS	0.46%	7.17	4	383.8	0.06	Scheduled Hours	1569.0
Controls	0.23%	3.56	0		0.00	Delivered Hours	1535.1
Network							
Safety Interlocks	0.31%	4.90	1	1535.1	0.02	User Availability	97.84%
Radiation Monitors	0.00%				0.00		
MOM	0.08%	1.28	2	767.6	0.03		
S&A	0.00%				0.00	Longest period w/out a fault	355.47
Operations	0.35%	5.42	3	511.7	0.05		
ID-FE							
Utilities	0.32%	5.03	1	1535.1	0.02		
Electrical - APS	0.00%				0.00		
Electrical - ANL	0.32%	5.03	1	1535.1	0.02		
Cooling - ANL	0.00%				0.00		
Other	0.01%	0.23			0.00		
Unidentified	0.00%						
Total	2.20%	33.85	19	80.8	0.30		

	Unavailability	Unavailability	Number	Mean Time	Faults Per		
Run 2013-1	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.31%	5.30	2	853.8	0.03	User Downtime Hours	19.40
Diagnostics	0.00%	0.00			0.00		
PS	0.08%	1.35	1	1707.6	0.01	Scheduled Hours	1727
Controls	0.19%	3.37	2	853.8	0.03	Delivered Hours	1707.6
Network	0.00%						
Safety Interlocks	0.09%	1.48	2	853.8	0.03	User Availability	98.9%
Radiation Monitors	0.00%				0.00		
MOM	0.00%	0.00			0.00		
S&A	0.00%				0.00	Longest period w/out a fault	573.77
Operations	0.08%	1.37			0.00		
ID-FE	0.00%				0.00		
Utilities	0.22%	3.83	1	1707.6	0.01		
Electrical - APS	0.22%	3.83	1	1707.6	0.01		
Electrical - ANL	0.00%				0.00		
Cooling - ANL	0.00%				0.00		
Other	0.16%	2.70	2	853.8	0.03		
Unidentified	0.00%	0.00	0		0.00		
Total	1.14%	19.40	10	170.8	0.14		

	Unavailability	Unavailability	Number	Mean Time	Faults Per		
Run 2013-2	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.91%	15.57	6	255.9	0.09	User Downtime Hours	51.77
Diagnostics	0.01%	0.17	0		0.00		
PS	0.52%	8.92	5	307.0	0.08	Scheduled Hours	1704
Controls	0.08%	1.42	0		0.00	Delivered Hours	1652.2
Network	0.00%						
Safety Interlocks	0.48%	8.17	5	307.0	0.08	User Availability	97.0%
Radiation Monitors	0.00%				0.00		

MOM	0.10%	1.75	1	1535.1	0.02		
S&A	0.00%				0.00	Longest period w/out a fault	263.02
Operations & Analy:	0.07%	1.27	1	1535.1	0.02		
Physics	0.00%				0.00		
ID-FE	0.00%				0.00		
ID-FE/MD	0.00%				0.00		
ID-FE/XFE	0.00%				0.00		
Utilities	0.38%	6.55	1	1535.1	0.02		
Electrical - APS	0.00%				0.00		
Electrical - ANL	0.38%	6.55	1	1535.1	0.02		
Cooling - ANL	0.00%				0.00		
Other	0.00%				0.00		
Unidentified	0.45%	7.63	0		0.00		
APS-U	0.02%	0.34	1	1535.1	0.02		
Total	3.04%	51.77	20	82.6	0.29		

Updated

10/18/2013