

FY 2014 Reliability Summary

Data through Run 2014-2

FY 2014 Actual	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.21%	10.57	9	544.5	0.04	User Downtime Hours	99.18
Diagnostics	0.09%	4.72	3	1633.6	0.01		
PS	0.37%	18.42	9	544.5	0.04	Scheduled Hours	5000
Controls	0.28%	13.95	5	980.2	0.02	Delivered Hours	4900.8
Network	0.15%	7.32	1	4900.8	0.00		
Safety Interlocks	0.08%	3.98	3	1633.6	0.01		
Radiation Monitors	0.04%	2.00	1	4900.8	0.00	User Availability	98.02%
MOM	0.41%	20.35	9	544.5	0.04		
S&A	0.00%	0.00	0	0.00	0.00	Longest period w/out a fault	934.34
Operations	0.10%	4.82	3	1633.6	0.01		
ID-FE	0.02%	0.95	1	4900.8	0.00		
ID-FE/MD	0.00%				0.00		
ID-FE/XFE	0.00%				0.00		
Utilities	0.18%	8.98	3	1633.6	0.01		
Electrical - APS	0.00%	0.00	0		0.00		
Electrical - ANL	0.05%	2.45	1	4900.8	0.00		
Cooling - ANL	0.13%	6.53	2	2450.4	0.01		
Other	0.03%	1.30	1	4900.8	0.00		
Unidentified	0.04%	1.83	2	2450.4	0.01		
APS-U	0.04%	0.34	1	4900.8	0.00		
Total	1.99%	99.52	51	96.1	0.25		

Run 2013-3	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.20%	3.17	2	755.7	0.03	User Downtime Hours	33.52
Diagnostics	0.00%	0.00	0		0.00		
PS	0.15%	2.32	0		0.00	Scheduled Hours	1545.0
Controls	0.20%	3.07	2	755.7	0.03	Delivered Hours	1511.5
Network	0.00%	0.00	0				
Safety Interlocks	0.00%	0.00	0		0.00	User Availability	97.83%
Radiation Monitors	0.03%	0.45	1	1511.5	0.02		
MOM	1.19%	18.43	6	251.9	0.10		
S&A	0.00%				0.00	Longest period w/out a fault	658.15
Operations	0.20%	3.13	2	755.7	0.03		
ID-FE							
Utilities	0.16%	2.45	1	1511.5	0.02		
Electrical - APS	0.00%	0.00	0		0.00		
Electrical - ANL	0.16%	2.45	1	1511.5	0.02		
Cooling - ANL	0.00%	0.00	0		0.00		
Other	0.00%	0.00	0		0.00		
Unidentified	0.03%	0.50	1	1511.5	0.01		
Total	2.22%	33.52	15	100.8	0.24		

Run 2014-1	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.14%	2.28	3	552.2	0.04	User Downtime Hours	22.32
Diagnostics	0.13%	2.15	1	1656.7	0.01		
PS	0.51%	8.60	3	552.2	0.04	Scheduled Hours	1679
Controls	0.00%				0.00	Delivered Hours	1656.7
Network	0.00%						
Safety Interlocks	0.00%				0.00	User Availability	98.7%
Radiation Monitors	0.09%	1.55	0		0.00		
MOM	0.03%	0.50	1	1656.7	0.01		
S&A	0.00%				0.00	Longest period w/out a fault	934.34
Operations	0.00%				0.00		
ID-FE	0.00%				0.00		
Utilities	0.36%	5.98	1	1656.7	0.01		
Electrical - APS	0.00%				0.00		
Electrical - ANL	0.00%				0.00		
Cooling - ANL	0.36%	5.98	1	1656.7	0.01		
Other	0.05%	0.82	1	1656.7	0.01		
Unidentified	0.03%	0.43	1	1656.7	0.01		
Total	1.35%	22.32	11	150.6	0.16		

Run 2014-2	Unavailability	Unavailability	Number	Mean Time	Faults Per		
	Percent	Hours	of Faults	to Beam Loss	Day		
RF	0.29%	5.12	4	377.9	0.06	User Downtime Hours	43.35
Diagnostics	0.14%	2.57	2	755.7	0.03		
PS	0.42%	7.50	6	251.9	0.10	Scheduled Hours	1776
Controls	0.61%	10.88	3	503.8	0.05	Delivered Hours	1732.6
Network	0.41%	7.32	1				
Safety Interlocks	0.22%	3.98	3	503.8	0.05	User Availability	97.6%
Radiation Monitors	0.00%				0.00		

MOM	0.08%	1.42	2	755.7	0.03		
S&A	0.00%				0.00	Longest period w/out a fault	131.32
Operations & Analy:	0.09%	1.68	1	1511.5	0.02		
Physics	0.00%				0.00		
ID-FE	0.05%	0.95	1	1511.5	0.02		
ID-FE/MD	0.00%				0.00		
UES	0.05%	0.95	1	1511.5	0.02		
Utilities	0.03%	0.55	1	1511.5	0.02		
Electrical - APS	0.00%				0.00		
Electrical - ANL	0.00%				0.00		
Cooling - ANL	0.03%	0.55	1	1511.5	0.02		
Other	0.03%	0.48			0.00		
Unidentified	0.05%	0.90			0.00		
APS-U	0.00%				0.00		
Total	2.44%	43.35	25	69.3	0.35		

Updated

8/26/2014