FY 1999 Machine Studies Breakdown

Study Period	FY Totals
Start Date	
Scheduled Study/MI Time (hours)	1496.00
Machine Intervention	90.00
Resulting scheduled study time	1406.00
Downtime	128.31
Study Time Available	1277.69
Studies Availability	90.9%
Study Catagory	
Operations/Availability	**320.57**
Fault Identification	7.33
Operational Readiness	92.07
BPM current dependency/offsets	50.01
Injection Trajectory	33.02
Controls Group Studies	0.50
Power Supply Group Studies	20.35
RF Group Studies	85.34
Booster Radiation Measurements	4.83
Training	11.44
BPLD Validation	15.68
SR Improvement	**364.09**
Dynamic Aperture	11.50
Physical Aperture Measurement	1.00
Lifetime	30.24
Chromaticity Measurement	1.00
Virtual Girder Displacement	4.00
Single Bunch emit blow-up	12.60
Singlet Preparation	28.88
Lattice Corrections	71.91
Emittance Improvements	7.50
ID Gap Effect Studies	16.17
Injection Improvement	24.63
Sextupole Position Measurements	28.43
Vertical Corrector Ironing	6.30
Low Energy Operations	28.72
Satellite Bunch Cleaning	42.93
Software Development	30.00
New Bunch Pattern Development	18.28
BPM Development	**239.40**
Broad Band BPM Studies	48.80
Narrow Band BPM Studies	36.68
X-ray BPM Studies	106.63
Other Diagnostics	47.30
Orbit Stability	**68.21**
Real Time Feedback	29.38
Slow Orbit Correction	20.41
Feedforward Studies	18.42
Intensity/Impedence	**46.65**
Impedence Measurements	11.54
Single Bunch vs orbit in cavities	2.50
Single Bunch Current Scans	7.67
Script Testing	0.00
Instability Other	24.94
Accelerator Research	**124.94**
Electron Cloud	30.67
4GL Studies	94.27
Top-up Studies	**75.41**
Script Development/Testing	2.60
Top-up Studies with Users	8.00
Top-up Rad Studies	15.26
Top-up Injection Studies	45.87
Top up Diagnostics Testing	3.68
Shielding Studies	**34.43**
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