

Machine Studies

Schedule for Run03-4, 2024

October 28 0800 – October 29 0800

| Time | Descriptions | Studios | SR Status |
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| Monday, October 28, 2024 | | | |
| 0800-1600 | MCC-R2 Shutdown | Doktorczyk/ Scheck | RF1 and RF2 off and Booster off |
| 0800-0900 | Prepare for Zone E Access | OPS/FAC | No Beam |
| 0800-1500 | Install AC Line Motor System/Meter in M1 power supply | Puttkammer | No Beam |
| 0800-0900 | HCOLL controller chassis update and reboot all camera IOCs | Wang | No Beam |
| 0900-1100 | Prepare for Zone A, B, C, and F Access | OPS/FAC | No Beam |
| 0900-1300 | Zone E access to install S35 ID and unlock 31ID FE shutter/PSS end to end test | MD Group/SI | No Beam |
| 0900-1100 | DCCT Study | Wang | No Beam |
| 0900-1000 | Implement swap-out run control in IOC | Arnold | No Beam |
| 0900-1000 | Investigate MPS fault reset with IDs in Zone D closed | M. Smith | No Beam |
| 0900-1000 | Swap failed amplifier in Sector 38 on mezzanine | Diag group | No Beam |
| 0900-1000 | Install heliax cables in Sector 35 on mezzanine | Weghorn | No Beam |

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| 1000-1400 | Upgrade unipolar PS controller firmware | Kreps | No Beam |
| 1100-1500 | Zone A access to repair encoders for 7ID and unlock 2BM FE shutter/PSS end to end tests | MD Group/SI | Zone A AA |
| 1100-1300 | Collect vibration data on vacuum chambers in candidate sectors | Preissner Mohsen Emery | Zones ABC AA Zone F CA |
| 1100-1300 | Change pump speed during vibration measurements (in parallel with above) | Bracken (MOM) | Zones ABC AA Zone F CA |
| 1100-1500 | Zone B access to unlock 14ID FE shutter/PSS end to end tests | MD Group/SI | Zone B AA |
| 1100-1500 | Zone C access to repair encoders 21ID | MD Group/SI | Zone C AA |
| 1100-1300 | Zone F access to remove matching networks and install combiner on bpm | Brill | Zone F CA |
| 1100-1300 | Zone F; Check the optical alignment of the 35-BM front end optical transport | Wootton | Zone F CA |
| 1100-1200 | Prepare for Linac Access | OPS/FAC | Zones ABC AA Zone F CA |
| 1200-1300 | Linac access to install ferrites on Linac BESOCM | Keane | Zones ABC AA Zone F CA |
| 1300-1400 | Recover Linac from access | OPS/FAC | Zones ABC AA Zone F CA |
| 1400-1600 | Test unipolar power supply firmware updates (if possible) | Kreps | Zones ABC AA partial time |
| 1500-1700 | Recover Storage Ring magnets | OPS/FAC | |
| 1600-1700 | Recover Booster from MCC shutdown | OPS | |
| 1700-1800 | Recover Storage Ring beam (140 mA) | Emery | Stored Beam & Injection |
| 1800-2000 | Booster tune measurement fix (parasitic) | Calvey Fors | Stored Beam & |

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| | | Dimonte | Injection |
| 1800-2100 | Optics correction after change in SR conditioning sequence. | Emery Soliday | Stored Beam & Injection |
| 1800-2100 | Parasitic measurement of septum leakage field waveform when beam is stored | Borland | Stored Beam & Injection |
| 2000-2400 | PAR and booster high charge studies (possible incomplete overlap with stored SR beam at the beginning) | Calvey, Harkay Mohsen | Stored Beam & Injection |
| Tuesday October 29, 2024 | | | |
| 0000-0400 | Study MOFB with smaller number of BPMs (160, 80, 40), higher rates, and few singular values for 30 Hz motion correction | Borland, Emery, Chandler, Arnold | Stored Beam & Injection |
| 0400-0800 | ID perturbation measurement | Emery Shang | Stored Beam and No Injection |
| 0800-1100 | Test slow beam abort (SBA) on IETS | Paskvan | No Beam |
| 0800-1100 | DCCT Study #2 | Wang | No Beam |
| 0800-1000 | Storage Ring Power Supply PEM testing | Berkland/Fystro | No Beam |
| 0900-1100 | Move InjTime PAR fundamental upstream of LIST phase shifter. | Fors/Harkay | No Beam and No Injection |
| 1100-1300 | Test Booster and Storage Ring injection after PAR fundamental work | Fors | Stored Beam & Injection |
| 1300-2100 | Switch LFB between phase sensing using differentiator FIR and energy sensing | Kallakuri Lindberg Emery | Stored Beam & Injection |
| 2100-2400 | Ramping current up to 150 mA with BLS tuning by Joel | Emery Fuerst | Stored Beam & Injection |
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| 0000-0400 | Systematic study of single-bunch lifetime vs BLS voltage. | Borland. Fuerst | Stored Beam and No Injection |
| 0400-0600 | 160-corrector response matrix with new optics (10 mA) | Emery | Stored Beam and No Injection |
| 0600-0800 | Prepare for beamline studies | OPS | Stored Beam & Injection |