

SSRL - Accelerator Maintenance Day Tasks

12/7/2009

| System | Sub-System | Description | PIC | Shop | Task Person | Forms | Hr |
|-----------|-------------------|---|------------|--------|---------------|-------|-----|
| Access | Conditions: | 1. SPEAR access: 6:30 to16:00 | | | | | |
| Access | Conditions: | 2. SPEAR - Power Supply Checks - 2 hrs after power restored | | | | | |
| Access | Conditions: | 3. OUTAGES: | | | | | |
| Access | Conditions: | 4. RSWCF Open: | | | | | |
| Beam Line | Vacuum | 5. Walk through | Neal | Vacuum | Bach | | 0.5 |
| Beam Line | Vacuum | 6. Check for helium leak on BPM Mylar Cap | Neal | Vacuum | Spector, Neal | | 1 |
| Beam Line | Vacuum Out Alcove | 7. Long IP cable inspections for cracking etc, BLs 1, 2, 5, 6, 9 and 11. | Neal | Vacuum | Bach, Spector | | 4 |
| Beam Line | Vacuum Out Alcove | 8. Verify BL Ion Gauges are being tracked by the SPEAR Status Page, History Plot and the pressures are reading the correct pressures. | Neal | Vacuum | Bach, Spector | | 4 |
| Beam Line | BL - Mech/Elec/C | 9. Inspect and maybe adjust BL9-1 MPS slit limit switch. | Van Campen | | | | |

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12/3/2009

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|---------|------------------|---|-------------------|--------|--------------------------|-----------------------|----|
| Booster | Magnets | 10 . Booster maintenance day work list 12/3/09 1) Mechanical Inspections 2) Install new DIN rail terminal block on selected BTS quads 3) Review dipole power connections to magnet. 4) Review Sextupole power connections to magnet. 5) Inspect all pneumatic actuators, booster ring, linac | Ernsts | | | | 3 |
| BTS | Computer Control | 11 . Test new BL13 EPU software that uses the new encoders. | Rarback | | | | 3 |
| BTS | Vacuum | 12 . Install VAT DN40 at injection raft location (upstream of skew quad drift and Corr 8H). Requires vent of BTS (Valve will become BTS-IV2 after existing IV2 is removed for the Tune-Dump Rotation | Neal | Vacuum | Nalls, Jabobson, Bach | | 6 |
| BTS | Vacuum | 13 . Reconfigure BTS ion pumps to run on SPEAR supplies | | | Pak, Neal | | 2 |
| LINAC | Power Conversion | 14 . Linac Modulator Tuning | Fernandez, Morris | PEM | Fernandez, Morris, et al | Door/E WP + grounding | 7 |

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| SPEAR | Beam Monitoring | 15 . Install cables for BXB Monitor, B116 to SPEAR | Martin | | Martin, Wallters, Sebek | RSWCF | |
| SPEAR | Beam Monitoring and | 16 . Install PTS-500 signal generator B117-13 for Bergoz BPM's. | Martin | | Martin, Sebek, Allison, Wallters | | |
| SPEAR | Beam Monitoring and | 17 . Install Real-Time Spectrum Analyzer in B117. | Martin | | Martin, Sebek, Allison, Wallters | | |
| SPEAR | MPS | 18 . Re-flash the MPS CPU's and add some beam line (7) t/c. | Lessard | | | | 1 |
| SPEAR | MPS | 19 . Remove old BL3 and BL4 cables | Horton | | | | |
| SPEAR | RF - SPEAR | 20 . Visual inspection of the West Pit RF area and measurement of the Girder locations in preparation for the Booster RF upgrade project. | Park | | | | |
| SPEAR | Mechanical | 21 . Mechanical inspections | Ernst | MSG | 2- MSG Tech | | 1 |
| SPEAR | Mechanical | 22 . Read SPEAR vacuum chamber and straight section LCW flow circuits | Ernst | MSG | 2- MSG Tech | | 3 |
| SPEAR | Mechanical | 23 . Inspect all pneumatic actuators | Ernst | MSG | 2- MSG Tech | | 1 |

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| SPEAR | Mechanical | 24 . Remove and install radiation shielding for new BTS-IV2 Vat-valve installation, req RSWCF | Ernst | MSG | 2- MSG Tech | RSWCF | 2 |
| SPEAR | Mechanical | 25 . Install air line to hold new BTS-IV2 Vat-valve in the open position | Ernst | MSG | 1- MSG Tech | | 1 |
| SPEAR | Insertion Device | 26 . Dressing BL13 encoder cables (SPEAR access required] | Dao | | Dao | | 1 |
| SPEAR | Vacuum | 27 . Walk through | Neal | Vacuum | Pak | | 0.5 |
| SPEAR | Vacuum | 28 . 12SIG1 Long cable trouble shoot | Neal | Vacuum | Ortiz,Pak | | 3 |
| SPEAR | Vacuum | 29 . TC installation for D. Dell'Orco at SPEAR septum | Neal | | Ortiz, Pak | | 1 |