

SSRL ACCELERATOR - 2007 SHUTDOWN SCHEDULE

| ID | % | Task Name | Duration | Start | Finish | Preced | Project manager | Task person or shop responsible | Shift, Form Req'd, Safety Analysis | October | |
|-----|-----|---|-----------|-------|--------|--------|-----------------|---------------------------------|------------------------------------|---------|------|
| | | | | | | | | | | 9/24 | 10/1 |
| 1 | 69% | <u>SHUTDOWN</u> | | | | | | | | | |
| 2 | 56% | <u>MILESTONES</u> | | | | | | | | | |
| 3 | 26% | <u>SLAC</u> | | | | | | | | | |
| 4 | 0% | PEPII DOWN | 65 d | 9/4 | 12/3 | | | | - | | |
| 7 | 84% | <u>SSRL</u> | | | | | | | | | |
| 10 | 0% | INJECTOR STARTUP | 10 d | 9/18 | 10/1 | | | | - | | |
| 12 | 0% | BEAM TO USERS | 0 d | 10/29 | 10/29 | | | | - | | |
| 13 | 0% | BEAMLINE COMMISSIONING | 6 d | 10/29 | 11/5 | 12 | | | - | | |
| 14 | 99% | <u>UTILITIES</u> | 38 d | 8/6 | 9/26 | | | | | | |
| 18 | 0% | LINAC TCW ON | 0 d | 9/25 | 9/25 | | | | ◆ 9/25 | | |
| 21 | 0% | SPEAR HCW ON | 0 d | 9/25 | 9/25 | | | | ◆ 9/25 | | |
| 22 | 50% | <u>INJECTOR</u> | 367.13 d? | 6/7 | 10/18 | | | | | | |
| 24 | 0% | GTF | 0 d | 8/6 | 8/6 | | | | | | |
| 25 | 52% | <u>LINAC</u> | 162 d? | 3/1 | 10/12 | | | | | | |
| 26 | 0% | Low level RF - adjustable phase/amplitude | 15 d | 8/14 | 9/3 | | Schmerge | | | | |
| 28 | 71% | <u>K3 5045 Replacement</u> | 147 d? | 3/1 | 9/21 | | Schmerge | | | | |
| 33 | 0% | Isolation valves leaked | 1 d? | 3/1 | 3/1 | | | | | | |
| 37 | 92% | <u>BTS Vacuum System Upgrade</u> | 153 d? | 3/1 | 10/1 | | | | | | |
| 111 | 0% | <u>B130 Cable trench</u> | 5 d | 8/21 | 8/27 | | | | | | |
| 112 | 0% | Identify cables for re-routing to B130 cable tray | 5 d | 8/21 | 8/27 | | | | | | |
| 116 | 51% | Shutdown_I&C_2007_3 | 51 d | 8/9 | 10/18 | | | | | | |
| 1 | 31% | <u>I&C Systems</u> | 44 d | 8/20 | 10/18 | | | | | | |
| 2 | 31% | <u>B140 Transport Line BPM System</u> | 44 d | 8/20 | 10/18 | | | | | | |
| 8 | 0% | Install RF Input Jumper Cables | 3 d | 10/1 | 10/3 | | | | | | |
| 9 | 0% | Input Signal Cabling Completed | 0 d | 10/3 | 10/3 | 6,8 | | | | ◆ 10/3 | |
| 10 | 0% | Install Timing Chassis | 4 d | 10/1 | 10/4 | | | | | | |
| 11 | 0% | Install Output Cable Wiring Harness | 3 d | 10/1 | 10/3 | | | | | | |
| 12 | 0% | Timing/Output Signal Distribution Complete | 0 d | 10/4 | 10/4 | 10,11 | | | | ◆ 10/4 | |
| 13 | 0% | Modify Trigger Source Jumper Cables | 2 d | 10/1 | 10/2 | | | | | | |
| 14 | 0% | Install SRS Trigger Jumper Cables | 1 d | 10/3 | 10/3 | 13 | | | | | |
| 16 | 0% | Timing Signal Source Completed | 0 d | 9/7 | 9/7 | 13,14, | | | | | |
| 19 | 0% | Injector Checkout w/ Beam Begins | 0 d | 10/2 | 10/2 | | | | | ◆ 10/2 | |
| 20 | 0% | Commission BPM System (w/o Pre-Processor) | 12 d | 10/3 | 10/18 | 6,7,10 | | | | | |
| 21 | 71% | <u>Air Filtration, I&C Systems</u> | 38 d | 8/9 | 10/1 | | | | | | |
| 23 | 0% | Clean B117 air filters, vacuum cabinets | 3 d | 8/22 | 8/24 | 22 | | | | | |
| 27 | 0% | Replace B132-102 HVAC filter | 1 d | 10/1 | 10/1 | | | | | | |
| 28 | 0% | Replace B116-101 HVAC filter | 1 d | 10/1 | 10/1 | | | | | | |
| 29 | 0% | Install B116-101 Space Heater | 1 d | 8/22 | 8/22 | | | | | | |
| 30 | 0% | Install B117-12 Cabinet Blower | 1 d | 8/30 | 8/30 | | | | | | |
| 31 | 0% | Install B140-106 Cabinet Blower | 1 d | 8/31 | 8/31 | | | | | | |
| 118 | 26% | <u>TUNNEL VENTILATION</u> | 229.13 d | 9/6 | 7/9 | | bs/dd | MSG,Contrac | | | |
| 119 | 0% | Install shielding wall | 10 d | 9/6 | 9/18 | | | | RSCWF | | |

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|-----|-----|---|----------|-------|--------|--------|-----------------|---------------------------------|------------------------------------|---------|------|
| | | | | | | | | | | 9/24 | 10/1 |
| 120 | 0% | Install extractor fan in 17 line | 4 d | 9/18 | 9/22 | 119 | | | RSCWF | | |
| 123 | 0% | CORRECTIVE ACTIONS | 60 d | 6/7 | 8/28 | | | | - | | |
| 135 | 95% | SPEAR | 94 d? | 6/1 | 10/10 | | | | | | |
| 145 | 93% | DOWNTIME | 54 d? | 7/27 | 10/10 | | | | | | |
| 150 | 90% | BL13 Insertion Device - 17S | 54 d? | 7/27 | 10/10 | | Rowen | | | | |
| 178 | 66% | Installation in 17S | 39 d | 8/17 | 10/10 | | | | | | |
| 179 | 38% | Install Vac Chb, etc | 38 d | 8/17 | 10/9 | | | | | | |
| 182 | 50% | Install vac bellows couplings | 1 d | 9/27 | 9/27 | 181 | Neal | Vac | | | |
| 183 | 50% | Install lead shielding - lateral (12"x18"x1" Pb or 2"HI | 2 d | 10/1 | 10/2 | | Ernst | MSG | | | MSG |
| 184 | 0% | Install LCW flow switch (prep for EPU) | 2 d | 8/21 | 8/22 | | Ernst | | | | |
| 185 | 0% | Install pneumatics for ring isolation valves | 2 d | 8/17 | 8/20 | | Ernst | | | | |
| 186 | 0% | Install cable tray/cable for valve panels | 2 d | 8/17 | 8/20 | | Lessard | | | | |
| 188 | 87% | EPU | 38 d | 8/20 | 10/10 | | | | | | |
| 198 | 0% | Electrical connections to EPU | 1 d | 10/9 | 10/9 | 197 | | | | | |
| 199 | 0% | Function tests EPU | 1 d | 10/10 | 10/10 | 198 | | | | | |
| 200 | 50% | BL13 Front End | 10 d | 9/26 | 10/9 | | | | | | |
| 203 | 0% | Install LCW connections/flow switch panel | 5 d | 10/3 | 10/9 | 202 | | | | | |
| 267 | 80% | System Maintenance | 159 d? | 3/1 | 10/9 | | | | | | |
| 268 | 73% | Alignment Engineering | 16 d? | 9/4 | 9/25 | | | | | | |
| 269 | 58% | Magnet survey and corrections | 12 d | 9/10 | 9/25 | | | | | | |
| 271 | 0% | Magnet moves | 5 d | 9/19 | 9/25 | 270 | | | | | |
| 274 | 0% | Install invar flange motion sensors | 1 d? | 9/20 | 9/20 | | | MSG | | | |
| 275 | 81% | ESG - Electrical Systems Maintenance | 92 d? | 6/4 | 10/9 | | | | | | |
| 276 | 81% | EDM planning | 92 d? | 6/4 | 10/9 | | | | | | |
| 6 | 87% | Booster | 30 d? | 8/13 | 9/21 | | | | | | |
| 8 | 0% | K1 - Trigger Retrofit | 2 d? | 8/20 | 8/21 | 7,4 | | G. Johnson,C | | | |
| 13 | 80% | SPEAR3 | 92 d? | 6/4 | 10/9 | | | | | | |
| 15 | 0% | Filters Cleaning | 5 d? | 8/27 | 8/31 | 3 | | R. Theobald | | | |
| 21 | 67% | BL-13 | 92 d | 6/4 | 10/9 | | | | | | |
| 33 | 56% | Integration B-131 | 49 d | 8/2 | 10/9 | | | | | | |
| 37 | 0% | Test controls system | 4 d | 9/24 | 9/27 | | | | | | |
| 38 | 0% | Fernando Rafael reinstall cable trays and cables | 1 d | 8/28 | 8/28 | | | | | | |
| 41 | 0% | Connect load to BL-4 | 1 d | 9/13 | 9/13 | 40 | | | | | |
| 42 | 0% | test controls of trims in BL4 | 1 d | 10/9 | 10/9 | 41 | | | | | |
| 43 | 0% | BL-13 (BL-5) ID skew coil check out | 21 d | 9/3 | 10/1 | | | | | | |
| 44 | 0% | Tom Dao testing/ fiducialization | 12 d | 9/3 | 9/18 | | | | | | |
| 45 | 0% | Skew coil polarity and isolation testing | 3 d | 9/19 | 9/21 | 44 | | | | | |
| 46 | 0% | Final skew coil isolation testing of BL-13 after in: | 1 d | 10/1 | 10/1 | | | | | | |
| 47 | 0% | test controls of BL-13 skew | 1 d | 10/1 | 10/1 | | | | | | |
| 280 | 50% | PPS | 24 d | 8/21 | 9/21 | | | | | | |
| 281 | 50% | E-Gate | 24 d | 8/21 | 9/21 | | Horton | | | | |
| 283 | 0% | Cover magnet leads | 2 d | 9/20 | 9/21 | 282 | Franklin | MSG | | | |

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| | | | | | | | | | | 9/24 | 10/1 |
| 285 | 93% | RF | 31 d | 8/20 | 10/1 | | | | | | |
| 287 | 91% | Cavity trips - troubleshoot | 31 d | 8/20 | 10/1 | | Sebek | | | | |
| 289 | 0% | Restore waveguide | 1 d | 10/1 | 10/1 | | | MSG | | | MSG |
| 290 | 93% | LCW & Pneumatics | 155 d? | 3/1 | 10/3 | | | | | | |
| 300 | 0% | Calibrate BL4, 13, 14 flow loops | 2 d | 9/26 | 9/27 | 299 | | | | | |
| 301 | 0% | SPEAR LCW Flow Checks | 4 d | 9/28 | 10/3 | 300 | | | | | |
| 302 | 0% | Magnets | 0 d | 3/1 | 3/1 | | | | | | |
| 303 | 35% | Insertion Devices | 15.5 d | 9/17 | 10/8 | | | | | | |
| 305 | 0% | ID Checkouts | 5.5 d | 10/1 | 10/8 | | | | | | |
| 306 | 0% | BL7 | 0.5 d | 10/1 | 10/1 | | | | | | |
| 307 | 0% | BL10, BL9 | 1 d | 10/1 | 10/2 | 306 | | | | | |
| 308 | 0% | BL6, BL5 | 1 d | 10/2 | 10/3 | 307 | | | | | |
| 309 | 0% | BL11, BL4 | 1 d | 10/3 | 10/4 | 308 | | | | | |
| 310 | 0% | BL12 | 1 d | 10/4 | 10/5 | 309 | | | | | |
| 311 | 0% | BL13 EPU | 1 d | 10/5 | 10/8 | 310 | | | | | |
| 312 | 48% | Vacuum | 32 d | 8/16 | 9/28 | | | | | | |
| 313 | 63% | QFC retrofit w/spacers | 30 d | 8/16 | 9/26 | | | | | | |
| 314 | 63% | Sector 4 (G16, G17) | 30 d | 8/16 | 9/26 | | | | | | |
| 317 | 50% | Install spacer (remove TSP) | 1 d | 9/25 | 9/25 | 316 | | Vac | - | | |
| 318 | 0% | Re-install corrector magnets | 1 d | 9/26 | 9/26 | 317 | | MSG | - | | |
| 319 | 45% | Vacuum System Maintenance | 17 d | 9/6 | 9/28 | | | | | | |
| 320 | 0% | Install IG baffle on 16G-IG-BL11 | 0.25 d | 9/6 | 9/6 | | Neal | | | | |
| 321 | 0% | Check/replace IG filaments | 2 d | 9/6 | 9/7 | | Neal | | - | | |
| 322 | 50% | Upgrade Gamma MPC (IP PS) 12SP, 15BL | 15 d | 9/6 | 9/26 | | Neal | | - | | |
| 323 | 50% | Pumpdowns | 4 d | 9/25 | 9/28 | | | | | | |
| 325 | 0% | Pump down Sector 4 | 2 d | 9/27 | 9/28 | 324 | | | - | | |
| 327 | 33% | Safety Systems | 2 d | 9/27 | 9/28 | | | | | | |
| 329 | 0% | Close rolling door blocks | 2 d | 9/27 | 9/28 | | | BLOPS | | | BLOPS |
| 330 | 72% | Conventional Facilities | 40 d | 8/6 | 9/28 | | | | | | |
| 334 | 0% | B120 Seismic retrofit - thru OCT 2008 | 20 d | 8/14 | 9/10 | | | | | | |
| 335 | 0% | BL9 Rolling door - bring chain falls up to code | 3 d | 9/17 | 9/19 | | | | | | |
| 338 | 0% | Beam Line Maintenance | 20 d | 9/4 | 10/1 | | Johnson | | | | |
| 339 | 0% | BL8-2 in-alcove mirror slit installation | 20 d | 9/4 | 10/1 | | | | | | |
| 340 | 0% | BL10-2 mirror mover re-alignment | 5 d | 9/10 | 9/14 | | | | | | |
| 342 | 0% | Startup Checks | 10 d | 9/24 | 10/5 | | | | | | |
| 343 | 0% | Vacuum | 10 d | 9/24 | 10/5 | | | | | | |
| 344 | 0% | Injector | 5 d | 9/25 | 10/1 | | | Vac | | | Vac |
| 345 | 0% | SPEAR | 5 d | 9/25 | 10/1 | | | Vac | | | Vac |
| 346 | 0% | Beam Line | 10 d | 9/24 | 10/5 | | | Vac | | | |
| 347 | 0% | BL Mirror/slits motion checks | 10 d | 9/24 | 10/5 | | | | | | |