

State of the Accelerators

All accelerators are off for KSub electrical maintenance

- Currently have no power in S29/S30 and B136
 - No radio or fire alarm system in S29/S30, and impaired radio function in all other tunnel areas

- These outages will take down NC and FACET timing
 - Dev timing was decoupled from the production RF source so the Dev NC timing can distribute triggers



- Reminder of Tuesday July 4th holiday
 - We come back from the holiday into a PAMM

| <u>Start Date</u> ↓= | End Date | Program | Machine Status | <u>Description</u> |
|----------------------|------------|------------------|-------------------|---|
| 11/01/2023 | 12/20/2023 | All Accelerators | Downtime | 2023 Nov-Dec downtime (LCLS SC, FACET, LCLS Cu) |
| 07/05/2023 | 07/07/2023 | All Accelerators | PAMM | 7/5-7/7 PAMM |
| 06/12/2023 | 06/30/2023 | All Accelerators | Downtime | June downtime for K-Sub outages. |



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Upcoming Electrical Outages



Tailgate 6-6:30am B035 Pre-Job Briefing 06/19 at 7pm location TBC



06/19 6am to 06/23 6pm K14/K14A substation (S27&28) Affected Buildings/Systems:

- B015* (planned generator for sewer metering station)
- B003* (planning a generator for 208V panel for PPS)
- Waste Management
- B461 DI Water Plant* (planning a generator)
- LCW in 27 and 28
- VESDA (and PAD) in 27 and 28
- LINAC Tunnel Radio Amplifier in 27
- Lighting in Klystron Gallery and Tunnel

TBD

K5/K5A substation (S9&S10 – RF Hut) Affected:

- S9 LCLS-II Mag System, S10 ICS/IACS (FACET-II and S10 RF Hut), ACS/WG in S10
- VESDA (and PAD) LI08-10
- Temp heaters on 30C in LI08
- LI09 Lighting inverter (will affect access into LI09 tunnel)
- Various receptacles in LI09
- Portions of lighting in LI10
- Lighting in Klystron Gallery and Tunnel

Note: 120V Generator supplied for FACET II Gun

Upcoming Stanford Research Computing Facility outage

SRCF II – Building Outage starting 06/26 at 9am until Thursday 06/29 at 5:30pm Work involves Contractors EATON and Sprig, SLAC HV/LV Electricians and FCM.

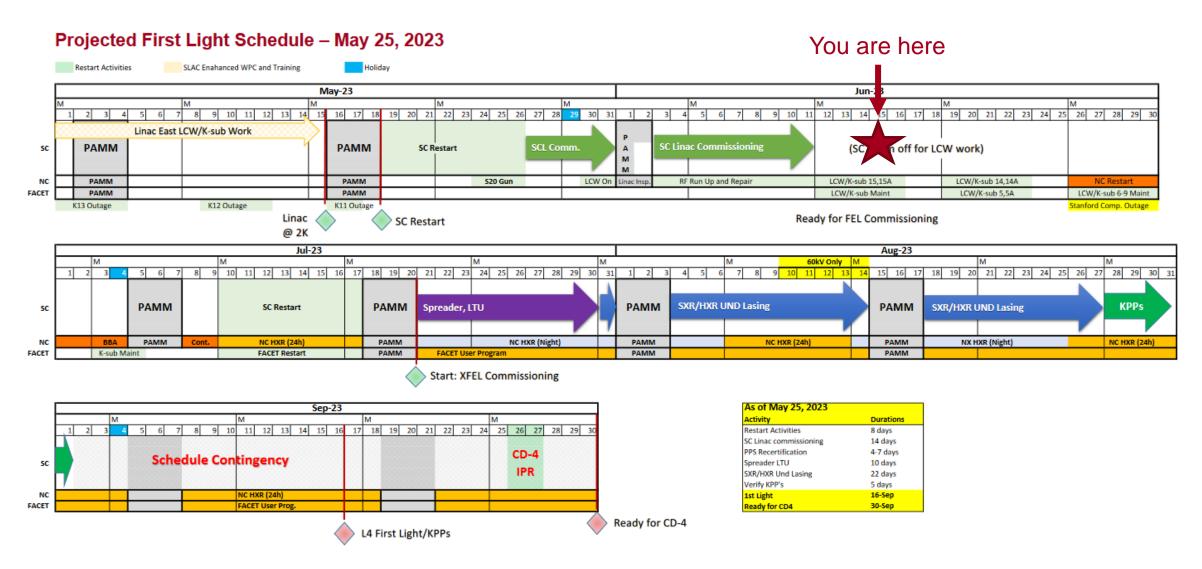
Impacts of Power Outage:

- LCLS 2 data systems and analysis machines
- Network equipment controls and DAQ will be unavailable
- ASC with similar controls and DAQ will be unavailable
- UED PCDS-systems

NOTE: Friday 06/30 when power has been restored – systems on the network that were affected need to be checked

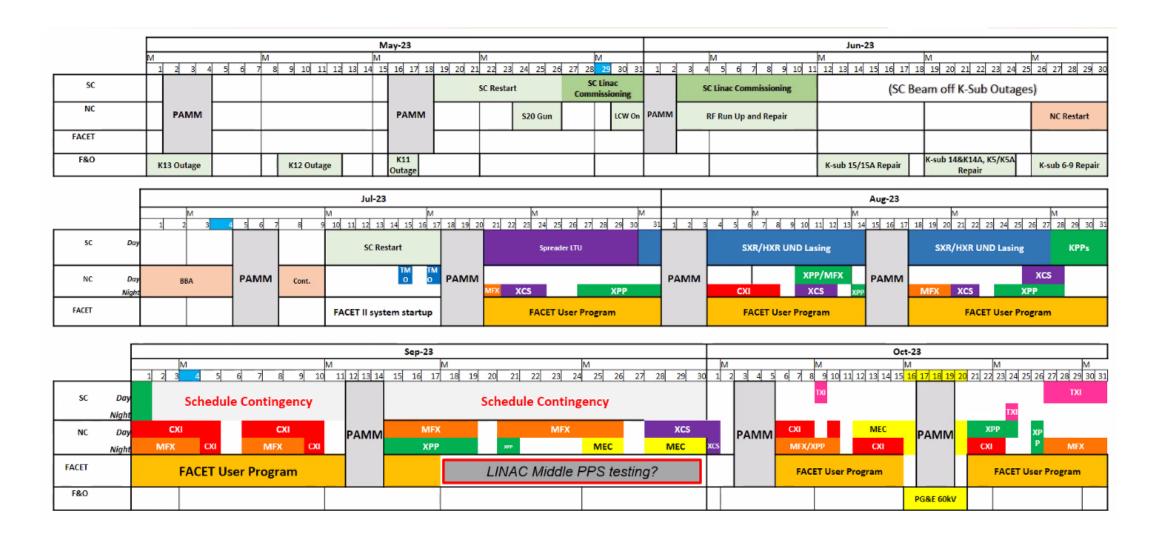


Looking ahead - big picture for following months



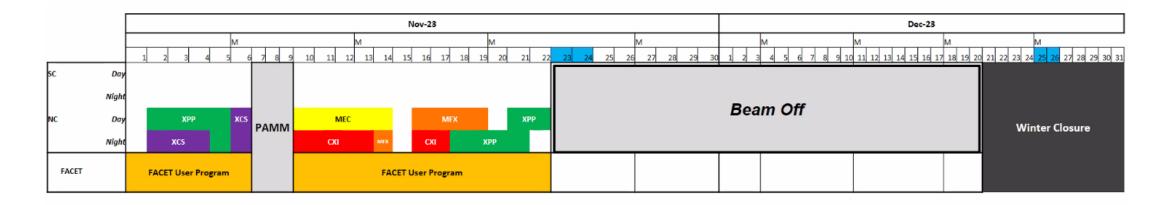


LCLS User Schedules





LCLS User Schedules



Thanksgiving Holiday November 23 & 24 18 Working days from 11/27 until Winter Closure 12/21 for Downtime Activities Discussions in progress on January 2024 schedules

Impacts to work planning:

- Shortened duration of Downtime
- Annual certification of LINAC East/BSY PPS Testing (Dec/Jan)



IOC development things

The number of soft IOCs actually built on RHEL7 is growing (and tracked!)

ARCH:SYS0:RHEL6:COUNT = 343

ARCH:SYS0:RHEL7:COUNT = 25

- Background RHEL6-built software will run on RHEL7 (and RHEL7 will run on RHEL8, etc...)
 - When we updated our softIOC servers to RHEL7 the IOCs remained built on RHEL6 (E.g. Icls-dev3, mcclogin)
 - Now we can start building IOCs on a RHEL7 machine suggest using dev-rhel7
 - Change the major revision number for this update since it's not backwards compatible! E.g. R4.2.11 -> R5.0.0
 - If they built on RHEL6 but not RHEL7 let me know so we can ask Marcio to update the offending module
 - You're going to have to be careful when eco'ing an application that you're building it on the correct architecture!
 - Look in the RELEASE_NOTES before getting started.
 - Good practice to try making an IOC immediately after checking it out those made for RHEL7 will not build on RHEL6 so that's a good reminder
 - See MZ's CATER 141902, e.g. SW job #18 for details on the upgrade and deployment

Autosave requests should be somewhere between 60-300 seconds

Be kind to NFS! This is too short: create monitor set("info positions.req", 5, "")

BOLD PEOPLE VISIONARY SCIENCE REAL IMPACT BOLD PEOPLE VISIONARY SCIENCE REAL IMPACT

Special Presentation

Alex Ng – TPG GUI progress

A status update on the development of the SC Timing Pattern Generator (TPGGUI), which will be used to configure/generate timing patterns for the superconducting linac.