

Controls SW Group Meeting

June 22, 2023

Agenda

1. Schedule/outages
2. New PyDM Network Pages
3. Planning for a new ELOG

T. Summers

Ongoing/Upcoming Electrical Outages



06/21 6am to 06/26 6pm

K5A/K5 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
- LINAC Tunnel Radio Amplifier in LI09
- Lighting in Klystron Gallery and Tunnel

Note: 120V Generator supplied for FACET II Gun



06/26 6am to 06/30 6pm

Sectors:

- K6 (S11 & S12) – *including TX11B1A transformer replacement CATER 162978*
- K7 (S13 & S14)
- K8 (S15 & K16)
- K9 (S17 & S18)

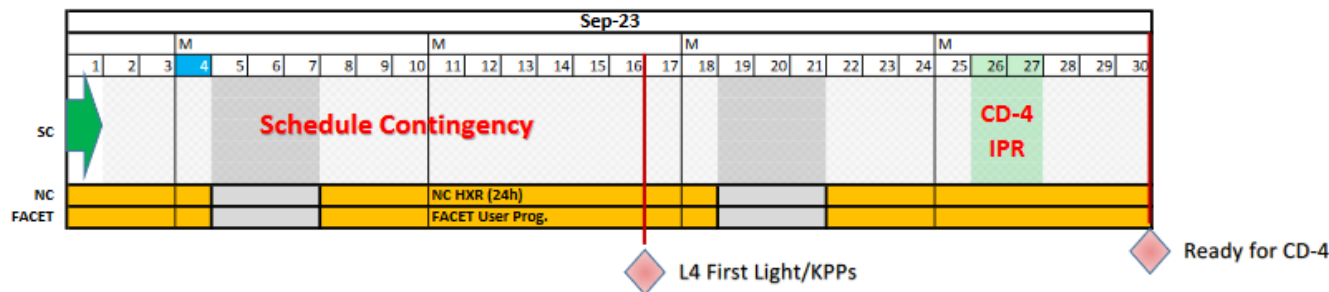
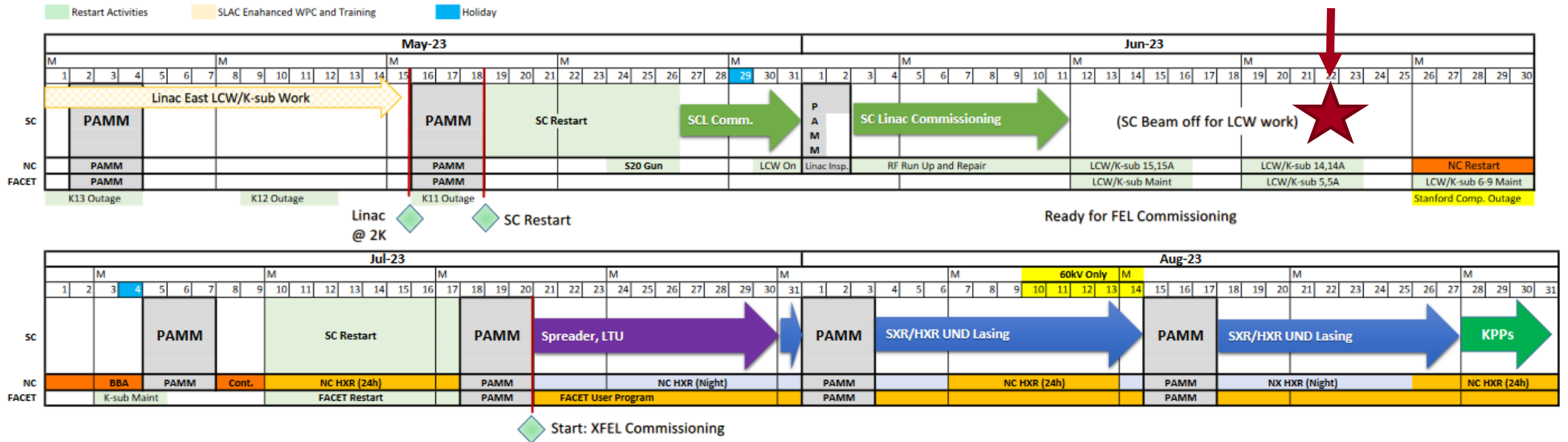
Affected:

- All power in sectors 11 through 18
- LCW in 11 through 18
- VESDA (and PAD) in 11 through 18
- LINAC Tunnel Radio Amplifiers in 12, 15, and 18
- Lighting in Klystron Gallery and Tunnel in 11 through 18

Looking ahead – big picture for following months

Projected First Light Schedule – May 25, 2023

We are here



As of May 25, 2023	
Activity	Durations
Restart Activities	8 days
SC Linac commissioning	14 days
PPS Recertification	4-7 days
Spreader LTU	10 days
SXR/HXR Und Lasing	22 days
Verify KPP's	5 days
1st Light	16-Sep
Ready for CD4	30-Sep

Updated to PyDM

- Familiar design
 - Separated by subsystem
 - Buttons link to existing EDM details pages
- Filter by device name or subsystem
- Button available to access EDM main page
- Find them in \$PYDM/ntwk

LI26 Network Main Page

The screenshot displays the LI26 Network Main Page interface. At the top, there is a search filter field and 'Filter' and 'Reset' buttons. The main content area is organized into several subsystem panels, each containing a list of status indicators (green circles) and buttons:

- BPMs:** IOC:LI26:BP01, EIOC:LI26:BP201, EIOC:LI26:BP301, EIOC:LI26:BP401, EIOC:LI26:BP501, IOC:LI26:BP02, EIOC:LI26:BP601, EIOC:LI26:BP701, EIOC:LI26:BP801, EIOC:LI26:BP901
- CAMAC:** IOC:LI26:CV01, SIOC:LI26:CV01
- Event/Timing:** CRAT:LI26:EV51
- Klystron Support:** SIOC:LI26:KY00
- Klystron:** * SIOC:LI26:KY03
- High Power RF:** SIOC:LI26:KY01
- Magnets:** SIOC:SYS0:MG03, SIOC:LI26:MG01
- MPS:** EIOC:LI26:MP01
- Temperature:** SIOC:LI26:TM01, PLC:LI26:TM01
- Vacuum:** SIOC:LI26:VA01

At the bottom right, there is a gear icon and the text 'NC ntwk_li26_main.edl...'.

Adding Devices

- Organized in Python dictionaries
 - li26_main reads li26_info.py
 - UI changes picked up when info file updated (on reload)
- Copy and paste existing dictionary entry
 - Update information to fit new device
- Instructions available in README and [Confluence](#)

```
li26_rf = {  
    "SIOC:LI26:KY01": {  
        "macros": ["iochost=sioc-li26-ky01", "ioc=SIOC:LI26:KY01"],  
        "filename": "ioc_soft",  
        "alarms": ["SIOC:LI26:KY01:STATSUMY"],  
        "slc": False,  
    }  
}
```

Welcome Patrick Nisperos!



- San Jose Native
- Graduated from UOP with a Bachelor's degree in Computer Science
- Taught middle and high school students robotics for about a year
- Worked at Micron Technology as an ASIC Characterization Junior Engineer for half a year.
- Car enthusiast, likes to shoot hoops, and enjoys time in nature
- **Delighted to join the team xD**

Next week's meeting is all about our Interns!

Hosted by EED intern committee's SW* representatives Yekta Yazar & Namrata Balakrishnan

- Meet the new interns, learn who their mentors are, and what projects they'll be working on this summer
- Hear project updates from the interns who have been with us the past few months
- Learn more about intern programs and great opportunities available to us!

** Other EED members of the intern committee are Courtney Curtis, Shweta Saraf, and Ben Morris.*

Special Presentation – Planning for a new ELOG

T. Summers on behalf of Claudio Bisegni, the Elog survey administrators, and many Elog users

There is a lot of interest in updating SLAC's MCC and Physics ELOGs (electronic logbooks). Currently these two systems are built and run on completely different architectures, but both are perceived as antiquated and due for modernization. Findings from a recent survey to ELOG users will be shared, as well as a proof of concept for a new ELOG application and new web application architecture using REACT and deployed with Kubernetes.

Disclaimer! I'm new to this topic at SLAC so am relying on information from others. I will be working on formalizing all these inputs into a requirements document.