

# Controls SW Group Meeting

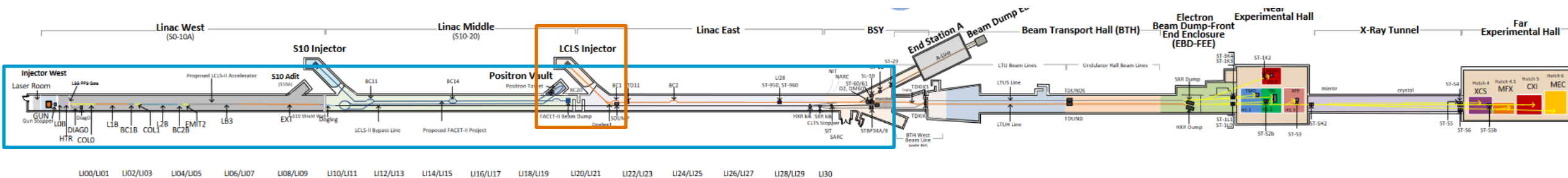
June 8th, 2023

T. Summers

# State of the Accelerators

## We made lots of beam yesterday!

- **SC:** Beam through linac to BSY Dump
  - Yesterday made 93 kHz rate – this is a major accomplishment!
  - Much time has been spent phasing the linac, tuning the beam, and testing the various diagnostics
  - Continue high rate/power tests and beam optimization, shut off Sunday end of swing shift
- **NC:** Beam for injector studies, RF processing and repair
  - Looks like NC Gun is ok
  - Excitement Sunday when there was a modulator fire at 21-1!
    - Area still taped off for investigation and cleanup of the material the fire department used to put out the flames.
    - This has happened two other times in the past 10 years.
  - Continue injector studies and LI23-LI30 RF processing, shut off Friday day shift



# State of the Accelerators

## Looking ahead...

### The next electrical substation maintenance outages are starting next week

- Monday June 12th – June 15th
  - K15/15A – affects S29/S30, B136, NIT/SIT tunnels
  - K5A – affects S10 (FACET gun gets generator). Cu and FACET timing will be down. Dev will work.
- Monday June 19th – June 23rd or 24th
  - 14/14A – affects B015, B003, waste management, DI plant. NC timing will be super down.
- Monday June 26 – June 30
  - K6, K7, K8, K9 – S11/S12/S13/S14
- CATER buckets
  - Please add jobs downtime bucket
  - *If there isn't a bucket for a benign job you want to do just submit it with the proposed start date/time, and send me or Tyler an email*

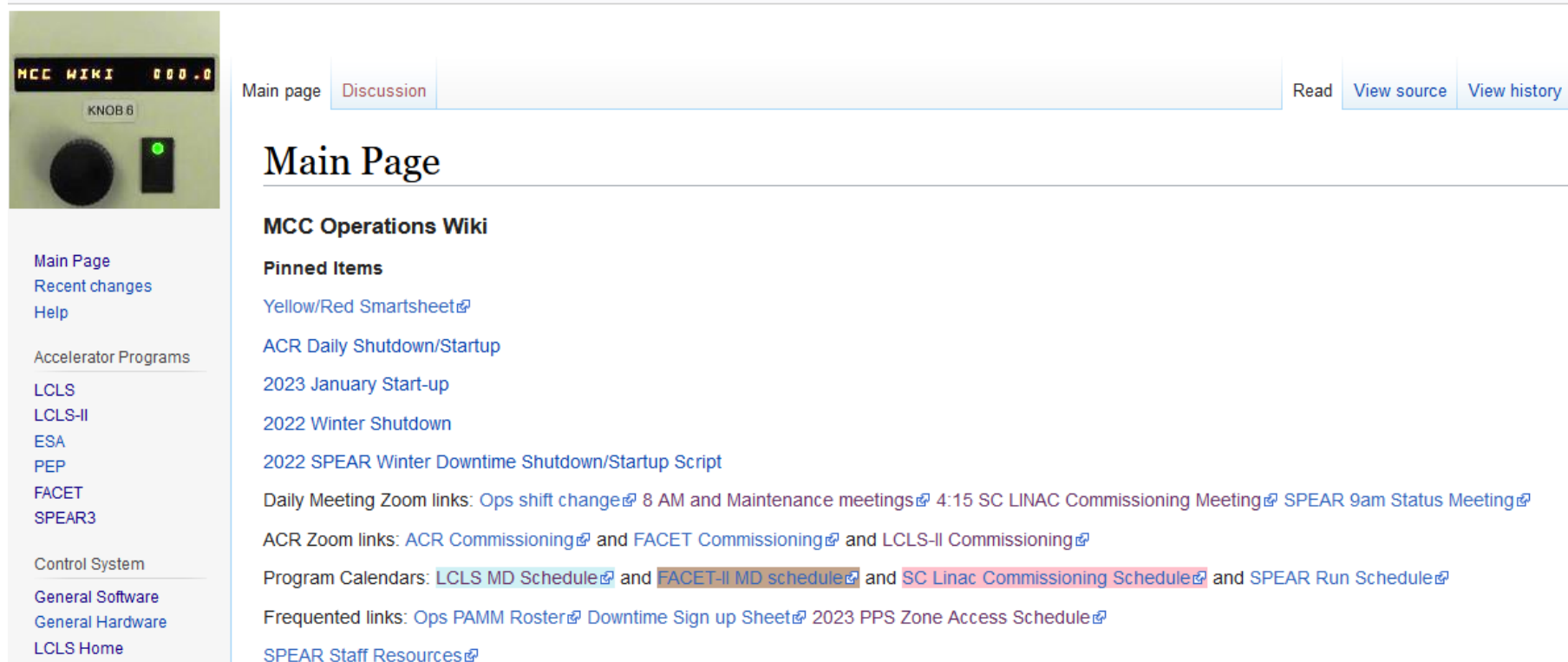
Start Date ↓	End Date	Program	Machine Status	Description
10/01/2023	11/15/2023	All Accelerators	Downtime	2023 Fall downtime (LCLS SC, FACET, LCLS Cu)
06/12/2023	06/30/2023	All Accelerators	Downtime	June downtime for K-Sub outages.
<del>01/30/2023</del>	<del>04/30/5000</del>	<del>FACET-II</del>	<del>Downtime</del>	<del>FACET Linac Startup Tasks</del>
<del>01/01/2023</del>	<del>04/30/5000</del>	<del>AGSD LCLS</del>		<del>LCLS Cu Linac Startup Tasks</del>
<del>01/01/2023</del>	<del>04/30/5000</del>	<del>Linac West</del>	<del>Downtime</del>	<del>LCLS SC Linac Startup Tasks</del>



# Reminder where to find beam schedules

Start at the OpsWiki: [https://aosd.slac.stanford.edu/wiki/index.php/Main\\_Page](https://aosd.slac.stanford.edu/wiki/index.php/Main_Page)

- The 3 program schedules are linked near the top of this page – best to bookmark them since the URLs are ridiculous.



The screenshot shows the 'MCC Operations Wiki' Main Page. At the top left is a small image of a control panel with a digital display showing 'MCC WIKI 000.0' and a 'KNOB 6' label. Below the image is a navigation menu with links for 'Main Page', 'Recent changes', 'Help', 'Accelerator Programs' (LCLS, LCLS-II, ESA, PEP, FACET, SPEAR3), 'Control System' (General Software, General Hardware, LCLS Home), and 'Main Page'.

The main content area is titled 'Main Page' and includes a 'Discussion' tab. Below the title is a section for 'MCC Operations Wiki' with 'Pinned Items' listed:

- Yellow/Red Smartsheet
- ACR Daily Shutdown/Startup
- 2023 January Start-up
- 2022 Winter Shutdown
- 2022 SPEAR Winter Downtime Shutdown/Startup Script

Additional links provided include:

- Daily Meeting Zoom links: Ops shift change, 8 AM and Maintenance meetings, 4:15 SC LINAC Commissioning Meeting, SPEAR 9am Status Meeting
- ACR Zoom links: ACR Commissioning and FACET Commissioning and LCLS-II Commissioning
- Program Calendars: LCLS MD Schedule and FACET-II MD schedule and SC Linac Commissioning Schedule and SPEAR Run Schedule
- Frequented links: Ops PAMM Roster, Downtime Sign up Sheet, 2023 PPS Zone Access Schedule, SPEAR Staff Resources

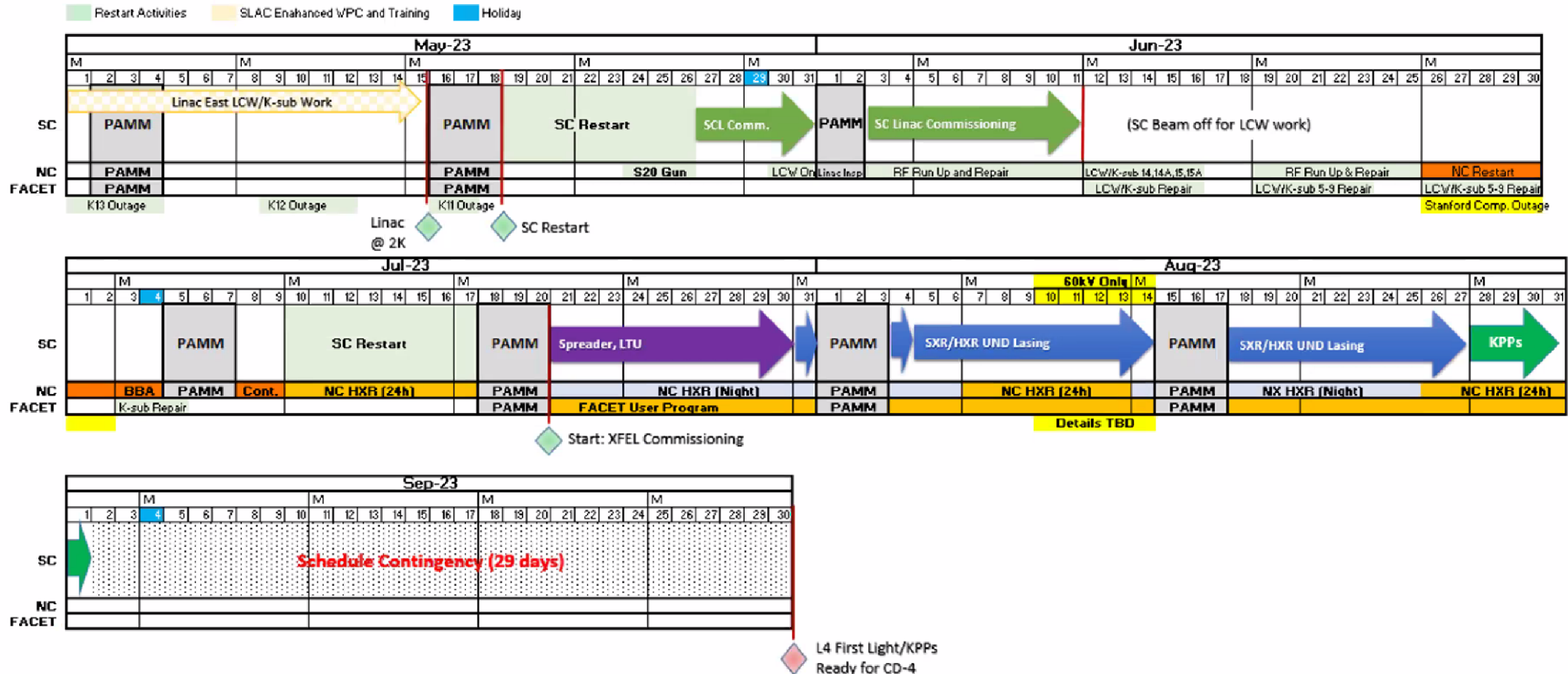


# Cu Linac Calendar

Thu 6/8	Fri 6/9	Sat 6/10
PD: F.-J. Decker		
<b>9p - 1</b> RF Processing & Repair (LI23-LI30)	<b>9p - 7</b> RF Processing & Repair (LI23-LI30)	<b>9p - 9</b> No Beam/RF
<b>1 - 3:30</b> BCS Checks		
<b>3:30 - 9</b> RF Processing & Repair (LI21-LI30)		
	<b>7 - 9p</b> Tentative: Preparations for Ksub Outages	
<b>9 - 9p</b> RF Processing & Repair (LI23-LI30)		<b>9 - 9p</b> No Beam/RF
<b>10:30 - 5p</b> Injector Studies to SAB (Decker, Ops) Longitudinal checkout, emittance tuning, Coherent 2 checkout (+heater checkout if avail.)		
<b>5p - 10:30p</b> Injector Tuning (Ops)		
<b>9p - 7</b> RF Processing & Repair (LI30)	<b>9p - 9</b> No Beam/RF	<b>9p - 9</b> No Beam/RF

# Looking ahead – big picture for following months

Lab's highest priority is meeting the KPPs!



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# Special Presentation

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Marcio Paduan Donadio - Acquisition Services Improvements

Results of performance study on BSA, BSSS, BLD, BSAS services