

# Controls SW Group Meeting

September 12, 2024

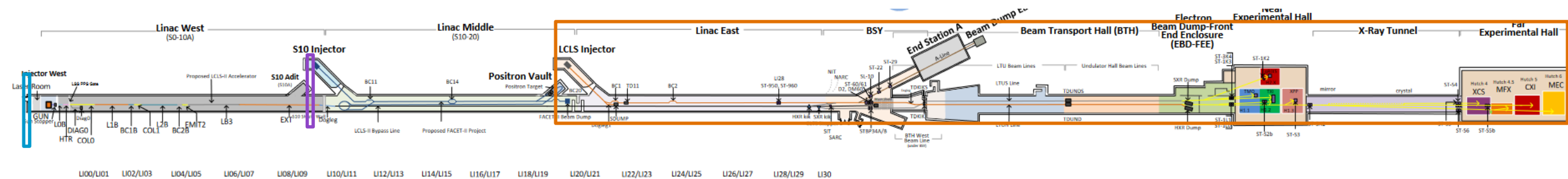
## Agenda

1. Schedule Update
2. Power outage recovery
3. Controls housekeeping

T. Summers

# State of the Accelerators

- **LCLS-SC** – Downtime continuing until Oct. 1<sup>st</sup> when areas get locked up
  - KSUB04 maintenance, affecting S7-S10, re-energization removal of generators happened yesterday
- **FACET** – Downtime continuing until Oct. 1<sup>st</sup>, areas locked up Sept. 27<sup>th</sup>
- **LCLS-Cu/NC** – User program resumed
- SPEAR – PPS testing
- NLCTA is preparing to run, ASTA is running



# Summer Downtime and LCLS-Cu Restart Update

- The LINAC EAST downtime has ended and the machine is back in user delivery mode.
- This week's 1-day PAMM was basically cancelled to focus on recovery after Monday's power outage.
- The next LINAC EAST + downstream PAMM is the week after next
  - Next PAMM is 3 days long
  - This alternating short/long pattern will continue the rest of the year
- Linac West and FACET downtime continues until Sept. 30
  - There are still 28 active SW jobs in this bucket – please start looking at closing them out.

837	12/21/2024	01/01/2025	All Accelerators	PAMM	Winter downtime
836	12/16/2024	12/21/2024	LCLS	PAMM	BTH open during PPS certification
835	12/11/2024	12/11/2024	SC_Linac_MD	POMM	Linac West POMM
834	12/03/2024	12/05/2024	AOSD LCLS	PAMM	Linac east + downstream 1 day PAMM, Linac west & facet 2.5 day PAMM
833	11/27/2024	11/27/2024	LCLS	POMM	Linac East & BSY POMM
832	11/18/2024	11/20/2024	All Accelerators	PAMM	Linac East+BSY 1.5 days, rest 2.5 day pamm
831	11/13/2024	11/13/2024	SC_Linac_MD	POMM	Linac West POMM
830	11/05/2024	11/07/2024	All Accelerators	PAMM	LCLS-NC+downstream 1 day, LCLS-SC & FACET 2.5 day PAMM
829	10/30/2024	10/30/2024	LCLS	POMM	Linac east + BSY POMM
828	10/21/2024	10/23/2024	All Accelerators	PAMM	LCLS-SC, FACET-II, LCLS-NC and downstream
827	10/08/2024	10/09/2024	All Accelerators	PAMM	LCLS-SC + FACET two day and LCLS-NC + downstream one day PAMM
826	10/02/2024	10/02/2024	LCLS	POMM	Linac east & BSY POMM
825	09/23/2024	09/25/2024	LCLS	PAMM	Linac east + downstream PAMM
808	07/05/2024	09/30/2024	All Accelerators	Downtime	FACET & Linac West Summer Downtime, bucket closes 6/14 17:00

# Calendar View of Activities

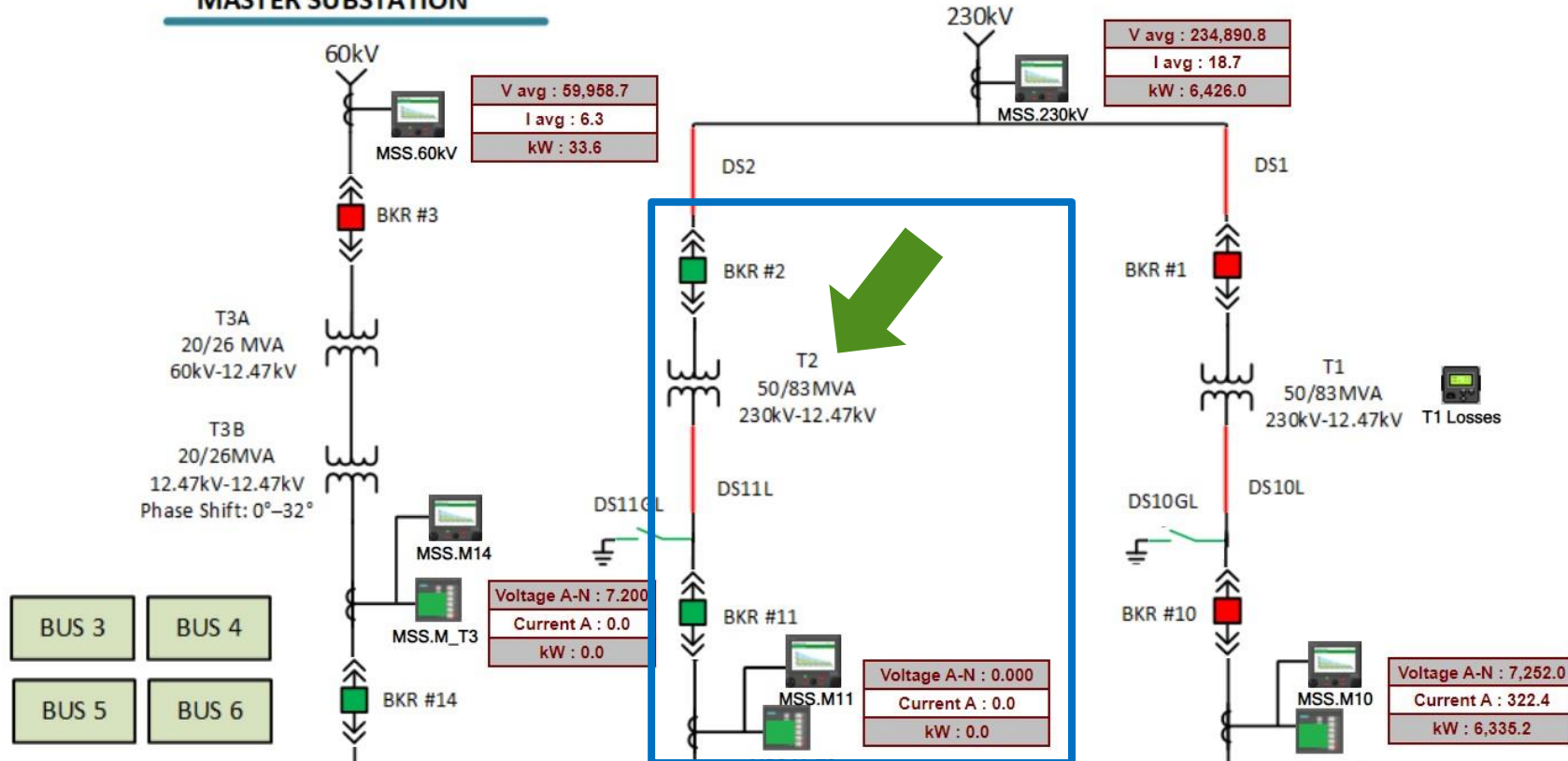
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09/08/2024 • LCLS NC Users • LINAC West K-Sub 04 Outage– systems on generator power	09/09/2024 • LCLS NC Users • SSRL PPS Testing • LINAC West K-Sub 04 Outage– systems on generator power • <b>Power Outage – T2 Tripped</b> • LINAC Recovery • <u>Cryoplant</u> Recovery	09/10/2024 • LINAC Recovery • SSRL PPS Testing • LCLS NC Recovery activities • LINAC West K-Sub 04 Outage– systems on generator power	09/11/2024 • LCLS NC Recovery/Users • SSRL PPS Testing • LINAC West K-Sub 04 Re-energization	09/12/2024 • LCLS NC Users • SSRL PPS Testing/ <u>SPEAR</u> <i>Controlled Access</i>	09/13/2024 • LCLS NC Users • SSRL PPS Testing/ <u>SPEAR</u> <i>Controlled Access</i> • <b>North Gallery Road S25-S30 striping – traffic control</b>	09/14/2024 • LCLS NC Users
09/15/2024 • LCLS NC Users	09/16/2024 • LCLS NC Users • SSRL PPS Testing/ <u>SPEAR</u> <i>No Access-Booster Controlled Access-LINAC No Access</i> • <b>South Gallery Road S26-S29 for gutter cleaning – traffic controlled</b>	09/17/2024 • LCLS NC Users • SSRL PPS Testing/ <u>SPEAR</u> <i>No Access-Booster Controlled Access-LINAC No Access</i> • <b>South Gallery Road S26-S29 for grinding and paving – No Access</b>	09/18/2024 • LCLS NC Users • SSRL PPS Testing/ <u>SPEAR</u> , <u>Booster</u> , <u>LINAC ALL</u> <i>No Access</i> • <b>South Gallery Road S26-S29 for final paving – No Access</b>	09/19/2024 • LCLS NC Users • SSRL PPS Testing	09/20/2024 • LCLS NC Users • SSRL PPS Testing	09/21/2024 • LCLS NC Users
09/22/2024 • LCLS NC Users	09/23/2024 • LCLS NC PAMM • SSRL PPS Testing	09/24/2024 • LCLS NC PAMM • SSRL PPS Testing	09/25/2024 • LCLS NC PAMM • SSRL PPS Closeout	09/26/2024 • LCLS NC PAMM Recovery • <b>SSRL/SPEAR <u>Linac/Booster</u> BAS</b>	09/27/2024 • LCLS NC Users • <b>LINAC Middle Searches</b> • <b>LINAC West Search – PPS Tests &amp; LSS IAT</b> • <b>FACET II BAS</b> • SSRL/SPEAR Checkouts	09/28/2024 • LCLS NC Users

# SLAC Power Outage Event - T2 tripped off



9/9/2024 2:40:12.000 PM

## MASTER SUBSTATION



### LEGEND

**Breaker Status**

- No Status:
- Closed:
- Open:

**DS Status**

- No Status:
- Closed:
- Open:

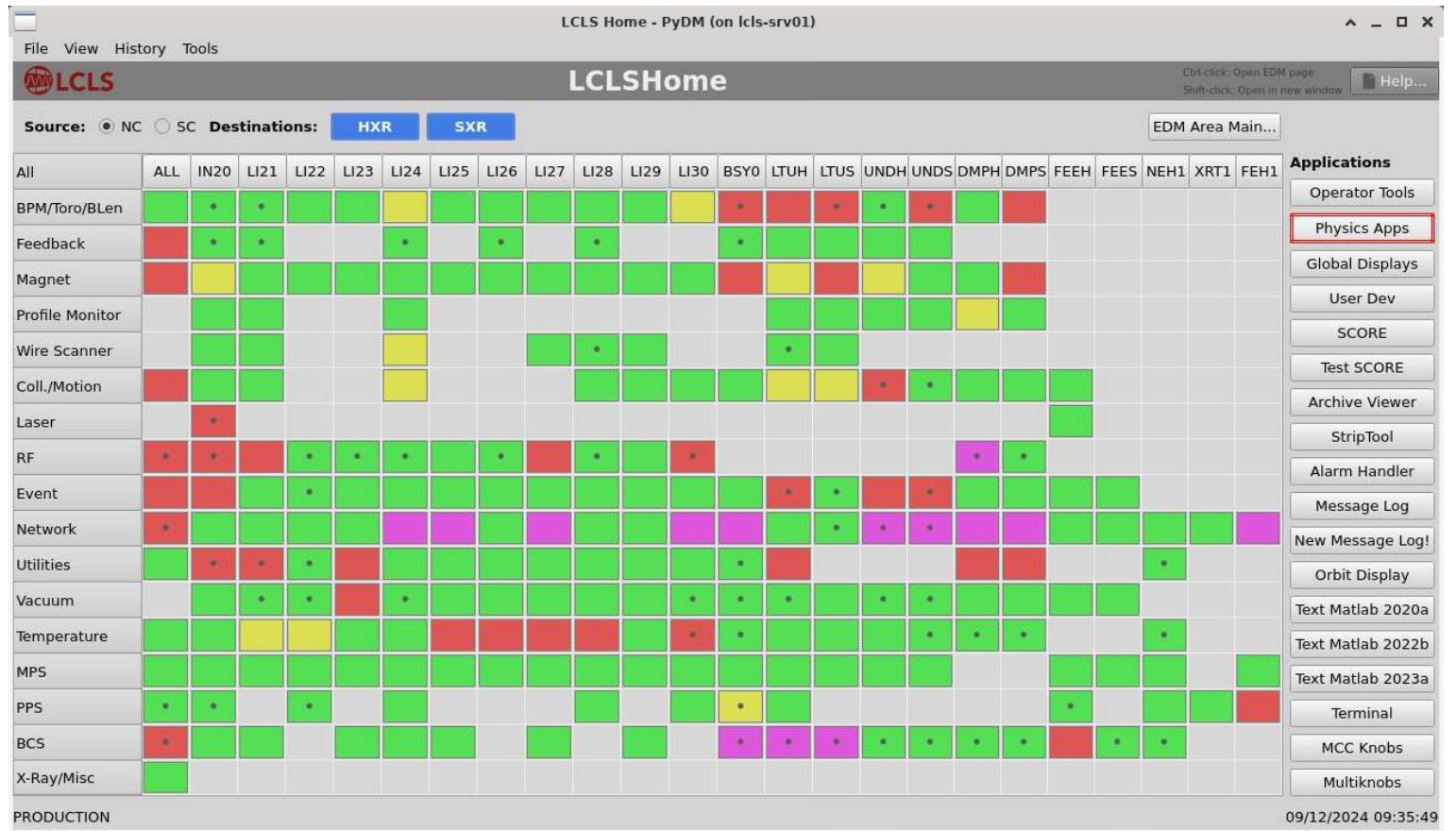
# Documenting power outage recovery effort

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- We have been asked to provide a detailed list of the controls effort needed to recovery from power outages
  - B005 – recover central control system services
  - Recover archivers, directory service
  - Recover/reboot IOCs...
  - Hours of effort by Ken, Jingchen, Charley, Arjun, Matt, Murali, Sonya, Namrata, Shawn, Garth, Carolina, Ryan, An, Jeremy...
- Many of these tasks are due to things not coming up in the right order, so we want to capture those dependencies as well as the simple failures
- I'll be sharing a spreadsheet with everyone to add these details – let's make a 1000 line list so people can see just how much effort is spent on recovery.

# Focus on state of LCLSHOME

- To help the ACR operators more efficiently identify real issues in the accelerator we need to clear out all the disconnected statuses and alarms that don't actually impact the machine.
- We are responsible for resolving the purple statuses
- Area physicists have been tasked with fixing the red/yellow alarms that persist when the machine is running
- We will be working with Ops and Physicists to start QA'ing the bypassed alarms



# Focus on state of Open CATERs

- There are 486 open software and 261 open request caters assigned to SWE
- There are 41 open software jobs and 39 open request jobs assigned to SWE
- Go to CATER > Search > Adv Work Assignment Search and select your name to see all things assigned to you (caters, jobs, tasks).
- Suggestions for clearing the backlog? This is getting a lot of attention through the AD departments

## Global Status Information

Type ↑≡	HOP	New	In Progress	Scheduled	Review to Close	Assigned To Me	Open	Closed
Hardware		310	487	454	31		1282	132939
Request		50	381	234	8	38	673	7859
Software		6	645	55		39	706	18558
<b>Report Total:</b>		<b>366</b>	<b>1513</b>	<b>743</b>	<b>39</b>	<b>77</b>	<b>2661</b>	<b>159356</b>



# Temporary Utility Project

- Power was restored to our buildings yesterday around noon. We will be in this configuration until April.
- Be careful travelling over the new cable covers on the road in front of our building and on the walkway beside B024.



# Welcome Mohammed Hasbuddin (Hasib)!

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## Mohammad Hasbuddin

- *I am software developer from India*
- *Done my Bachelor degree in electronics and communication from MDU in 2013*
- *Worked at different International organization like CERN, DESY, UoM*
- *Over 8 years of experience in Linux/Unix system administration and software development*
- *Worked with high-performance computing (HPC) environments at CERN and DESY, supporting critical infrastructure*
- *Like to play Table Tennis*
- *Looking forward to work with EED Group*