

Controls SW Group Meeting

May 02, 2024

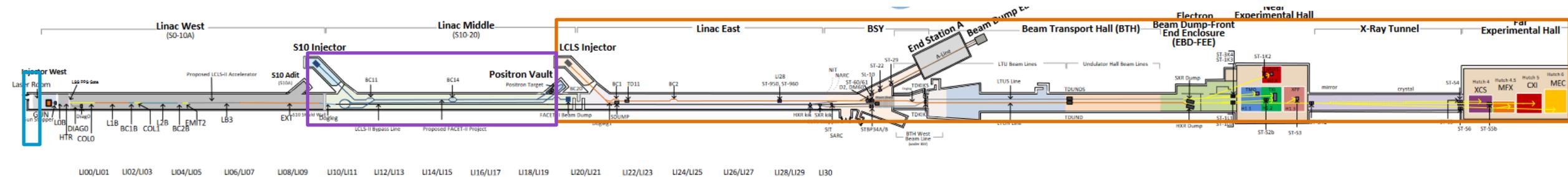
Agenda

1. Machine Status
2. Upcoming Schedule
3. Special Topic:
AFS Retirement
Mike Zelazny &
Jerry Katzung

T. Summers

State of the Accelerators

- **LCLS-SC** – Down due to mechanical failure of Cryoplant 4K Coldbox turbine - best case repaired this Friday
Possibility of restarting the gun and linac on the weekend, but not expecting they will need much support
- **FACET** – Linac tuning during the day, more setup or scheduled user program at night
- **LCLS-Cu/NC** – Scheduled user program through HXR until the PAMM starts
- **SPEAR** – Smooth delivery to user program
- **UED** – kHz testing underway
- **NLCTA** - Startup now scheduled tentatively for May 20



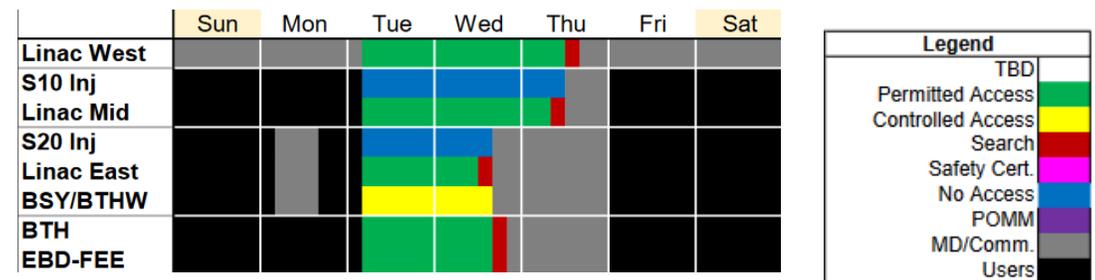
Upcoming downtime periods

PAMM next week, planning meeting is this afternoon

- Only 3 PAMMs until the summer downtime.
- Summer downtime planning is well underway, jobs should be getting prepared and submitted to the bucket as soon as possible to help with scheduling – deadline Jun 14th.
- Details about power outages and how that affects UND hall are being worked on.

Edit	Start Date ↓	End Date	Program	Machine Status	Description
808	07/05/2024	09/30/2024	Linac West	Downtime	Linac West Summer Downtime, bucket closes 6/14 17:00
809	07/05/2024	08/21/2024	All Accelerators	Downtime	FACET & Linac East Summer Downtime, bucket closes 6/14 17:00
817	06/18/2024	06/20/2024	All Accelerators	PAMM	6/18-6/20 2024 PAMM. Bucket closes 6/10 17:00.
819	06/12/2024	06/12/2024	AOSD LCLS	POMM	6/12 LCLS NC-only POMM
820	06/04/2024	06/04/2024	FACET-II	POMM	FACET-II dummy POMM
816	06/04/2024	06/06/2024	All Accelerators	PAMM	6/4-6/6 2024 PAMM. Bucket closes 5/27 17:00
814	05/20/2024	05/23/2024	AOSD LCLS	PAMM	5/20-5/23 PAMM w/ Extended Undulator Hall Access. Bucket closes 5/13 17:00
813	05/07/2024	05/09/2024	All Accelerators	PAMM	5/7/2024 - 5/9/2024 PAMM. Bucket closes 4/29 17:00

Typical PAMM schedule



Next week: IR-8 power outage and PROActive Assessment

May					
Monday	Tuesday	Wednesday	Thursday	Friday	Sat/Sun
		05/01/2024 Downtime Planning Mtg <ul style="list-style-type: none"> LCLS NC POMM/MD FACET II Program SSRL User Program Cryo Turbine 2 Repair 	05/02/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Program SSRL User Program UED User Program Cryo Turbine 2 Repair 	05/03/2024 <ul style="list-style-type: none"> LCLS NC Users FACET II Program SSRL User Program UED User Program Cryo 2K Cooldown 	05/04 & 05/05 <ul style="list-style-type: none"> LCLS NC Users LCLS SC Program FACET II Program SSRL User Program
05/06/2024 <ul style="list-style-type: none"> LCLS NC Users LCLS SC Program FACET II Program SSRL User Program UED User Program IR-8 Electrical PM PROActive Assessment	05/07/2024 <ul style="list-style-type: none"> PAMM (LCLS NC, FACET II, LCLS SC) SSRL User Program IR-8 Electrical PM PROActive Assessment	05/08/2024 Downtime Planning Mtg <ul style="list-style-type: none"> PAMM (LCLS NC, FACET II, LCLS SC) SSRL User Program IR-8 Electrical PM PROActive Assessment	05/09/2024 <ul style="list-style-type: none"> PAMM Recovery LCLS NC/FACET II/LCLS SC Program restart SSRL User Program IR-8 Electrical PM PROActive Assessment	05/10/2024 <ul style="list-style-type: none"> LCLS NC Users LCLS SC Program FACET II Program SSRL User Program IR-8 Electrical PM	05/11 & 05/12 <ul style="list-style-type: none"> LCLS NC Users LCLS SC Program FACET II Program SSRL User Program
05/13/2024 <ul style="list-style-type: none"> LCLS NC Users LCLS SC Program FACET II Program SSRL PAMM LSST Camera Transport (partial PEP Ring Road closure 6am-3pm)	05/14/2024 <ul style="list-style-type: none"> LCLS NC Users LCLS SC Program FACET II Program SSRL AP LSST Camera Transport SLAC Director's Town Hall 10-11am	05/15/2024 Downtime Planning Mtg <ul style="list-style-type: none"> LCLS NC Users LCLS SC Program FACET II Program SSRL User Program 	05/16/2024 <ul style="list-style-type: none"> LCLS NC Users LCLS SC Program FACET II Program SSRL User Program UED User Program 	05/17/2024 <ul style="list-style-type: none"> LCLS NC Users LCLS SC Program FACET II Program SSRL User Program UED User Program 	05/18 & 05/19 <ul style="list-style-type: none"> LCLS NC Users LCLS SC Program FACET II Program SSRL User Program UED User Program

IR-8 (675/680/681/684/685/686/686M/688/689)



Duration: 5 Days

Proposing May 6-10

Initial Planning Meeting 03/12 @ 1pm

Planning E-Power PM ~04/16 prior to main outage

Power Outage Readiness Review 04/29 @ 2pm

Script Reviews 04/25 and 05/02 @ 11am

Scope of Work:

- 12kV Switchgear
- Building Distribution
- Substation breakers/secondary switchgear
- Main Distribution Panel

Impacted by Outage:

- SRCF – 480V/208V transformer temporary and trailer power
- B688/B680 – Salvage Staff Offices & Salvage yard
- B685 – used for measurements/diagnostics evaluations
- B680 – ES&H water testing
- B680 - sewage and water lift stations

IR-8 (675/680/681/684/685/686/686M/688/689)



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RA Substation Phase 1 – Electrical PM

SSRL/SPEAR3

Sub515 – B140

Sub 507 - B130, B131, B121, B122, B120, B118,
B117, B116, B100

B137 E, B137W, Gate 17 Guard House (B086)

ESA

B060, B061

NLCTA & ESB

B128, B129, B062

Beam Transport Hall (LTU, UND)

B910, B911, B912, B913

CryoEM

B006

Data Center (B050)

During outage down to single source, 550s

Entire Research Yard and CT404

Planning Meetings:

03/08/2024 @ 12:30pm

04/02/2024 @ 1pm

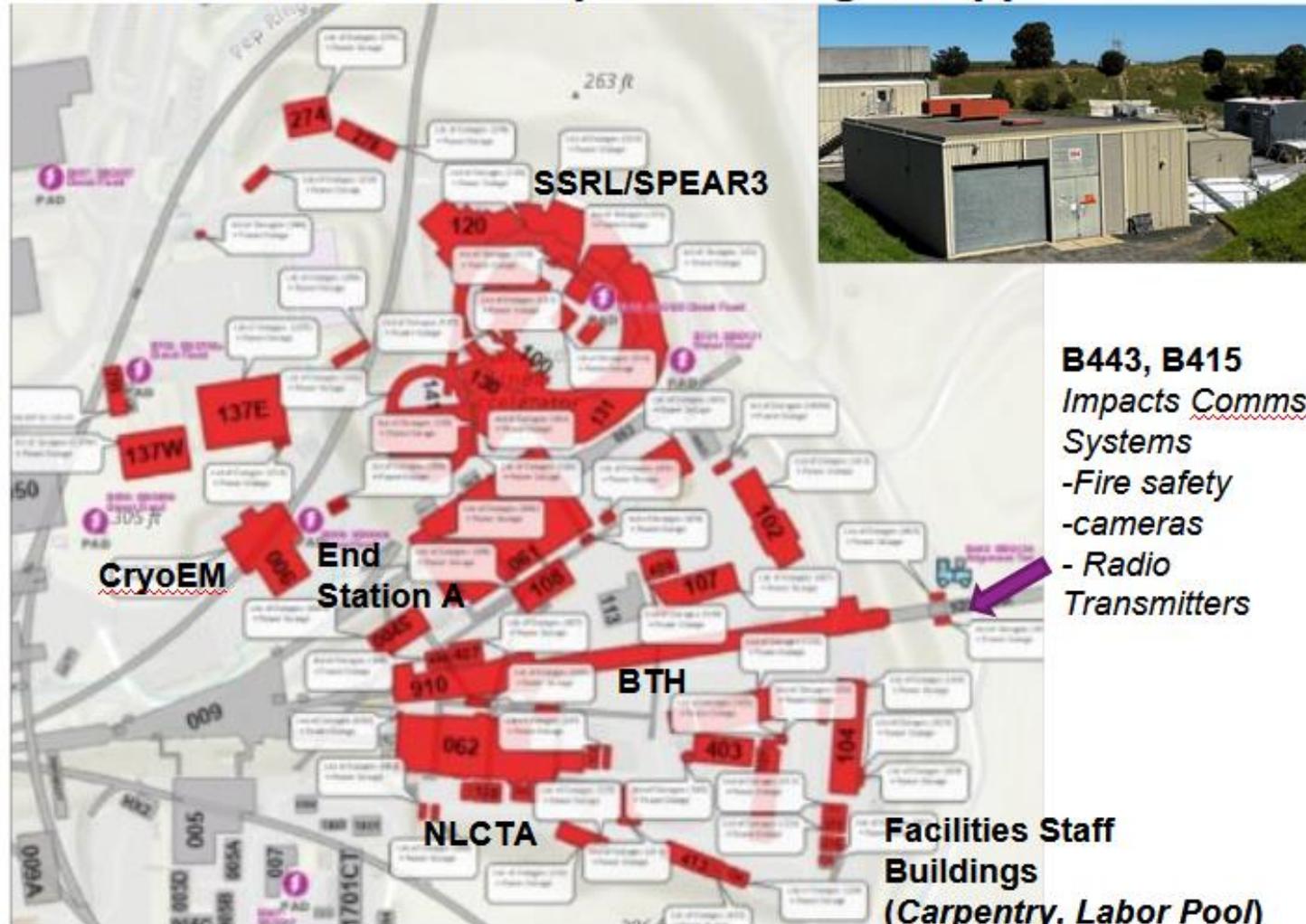
04/30/2024 @ 3pm

05/20/2024 @ 11am

Duration: 5 days

Dates: Aug 7-14, 2024

RA Substation Phase 1 power outage mapped:



B443, B415
Impacts Comms Systems
-Fire safety
-cameras
- Radio Transmitters

Facilities Staff Buildings
(Carpentry, Labor Pool)

RA Substation Phase 2 – Electrical PM

End Station A

B060, B061

NLCTA

B128, B129, B062 (ESB)

CryoEM

B006

Research Yard support Buildings

B107, B108, B113, B115, B124, B209, B225, B233, B312, B406, B407, B409, B433

Duration: 5 days
Dates: Aug 14-21, 2024

Planning Meetings:

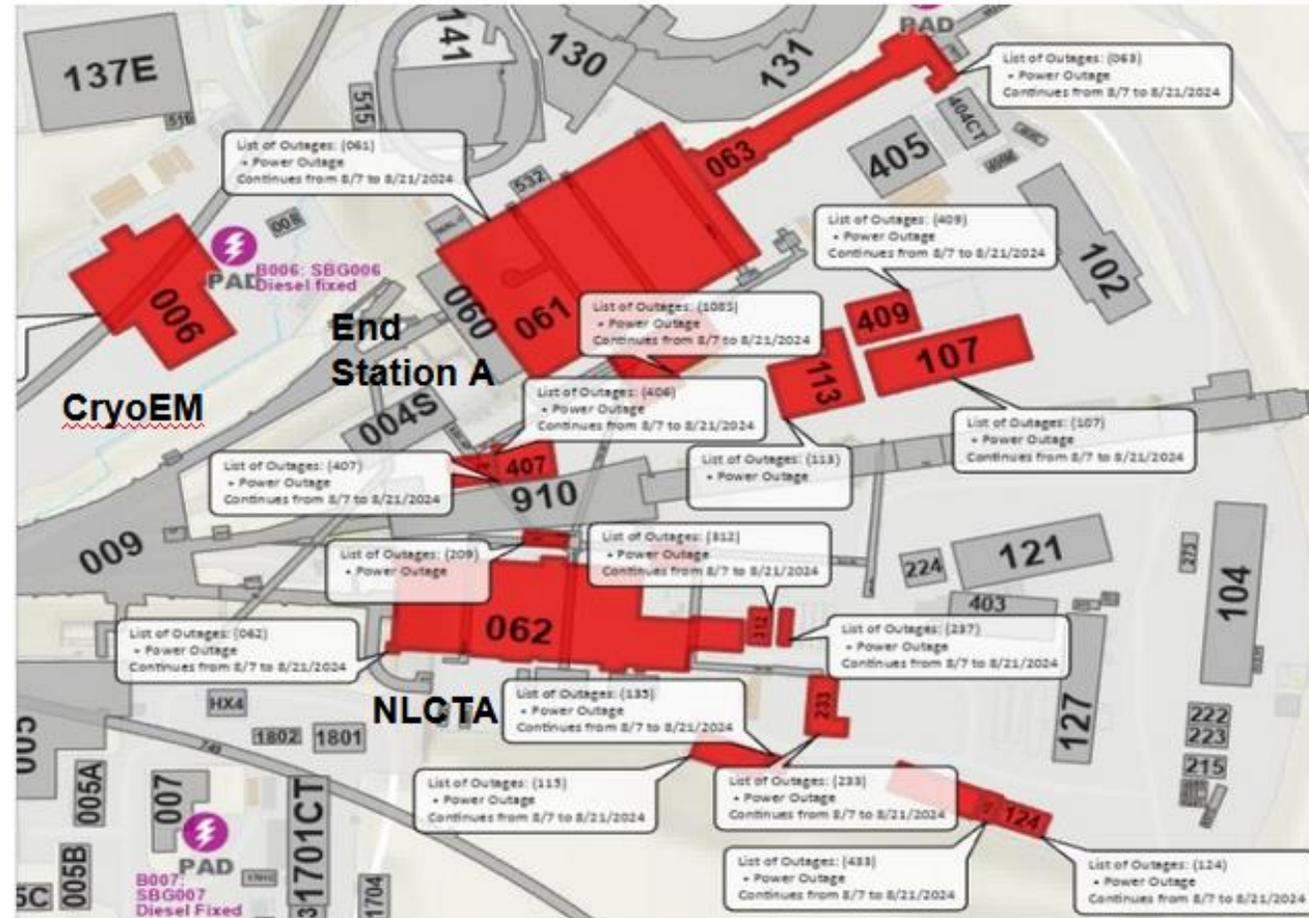
03/08/2024 @ 12:30pm

04/02/2024 @ 1pm

04/30/2024 @ 3pm

05/20/2024 @ 11am

RA Substation Phase 2 power outage mapped:



Special Presentation

AFS Retirement – Mike Zelazny and Jerry Katzung