

APS-U UPDATE

JIM KERBY
DIRECTOR, APS UPGRADE PROJECT



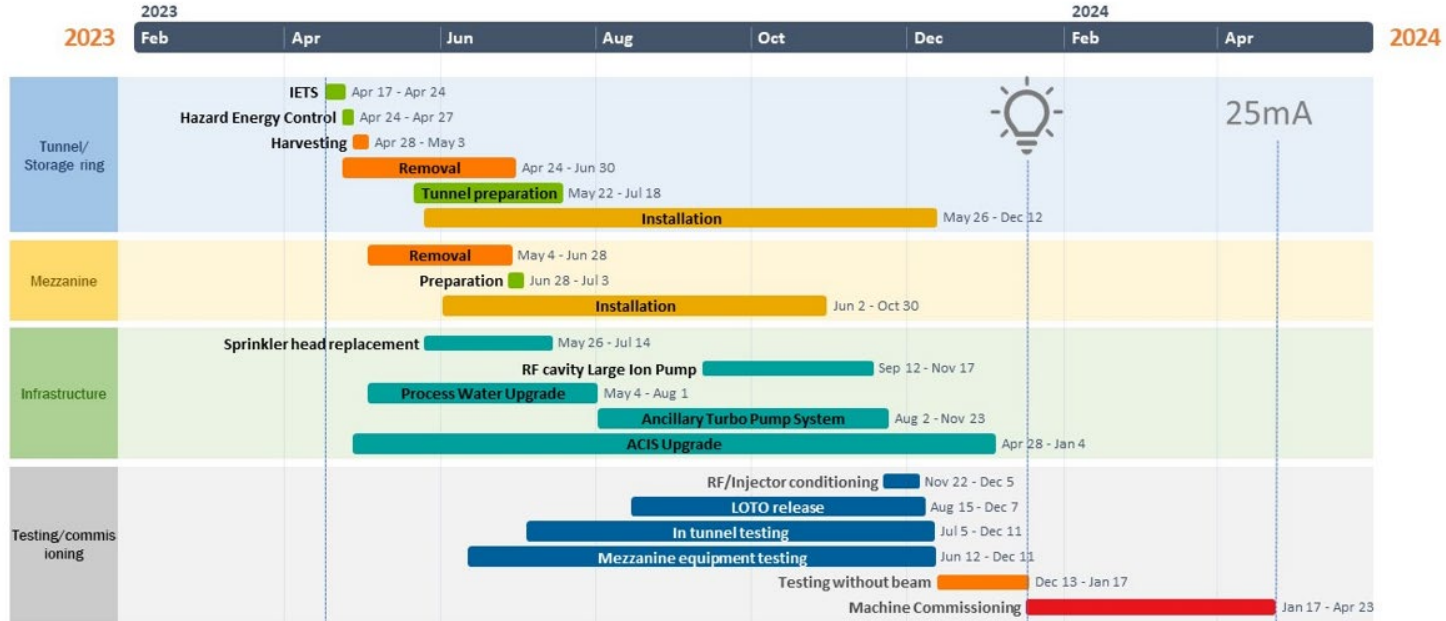
U.S. DEPARTMENT OF
ENERGY

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AN AMAZING YEAR

Ten months ago,
APS User
Operations ended...
and the rebuilding
journey began

Thanks to a fantastic
and incredibly
dedicated team,
we will introduce
electrons into the
upgraded storage
ring in the near
future



SAFETY IS – AND HAS ALWAYS BEEN – JOB ONE

400,000+ hours of labor

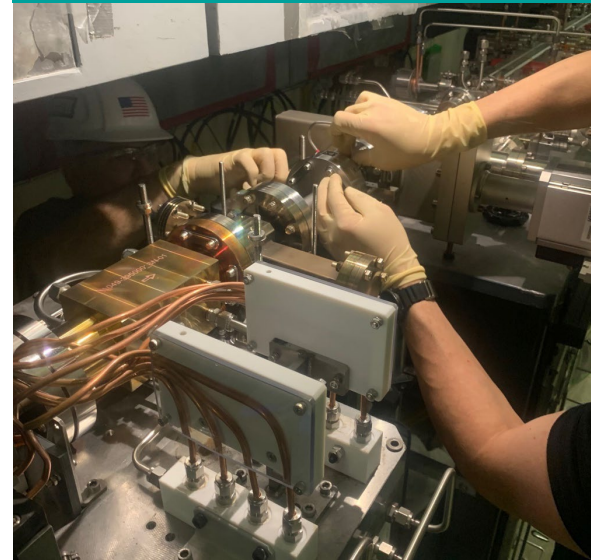
- 2 reported injuries
- 1 day away
- 2 first aid cases

Let's finish strong!

- Storage ring and mezzanine equipment installed and being checked out
- Experiment hall efforts ramping up
- LINAC/PAR and Booster have restarted amazingly well
- Our plans to SAFELY restart the storage ring – and User Operations – are in place and will be reviewed in the ARR

We have the *best* people, who know their stuff and work with a positive attitude

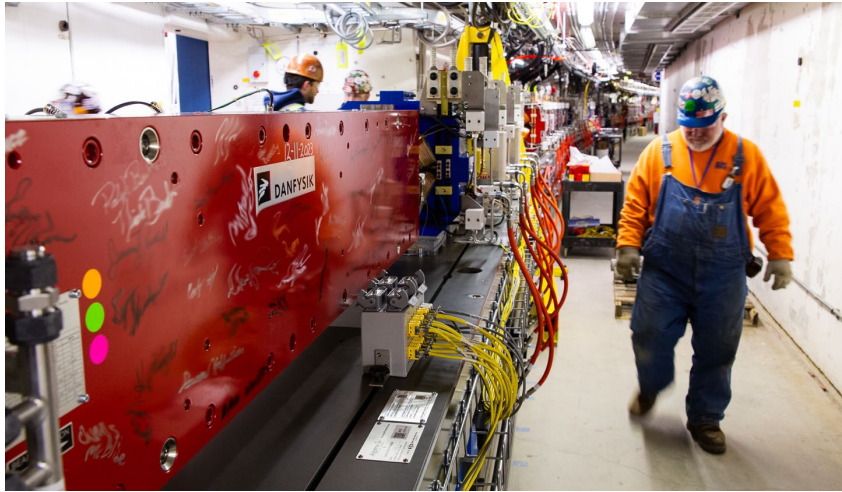
The *last* storage ring component being installed Feb. 15



LAST MODULE IN

The APS now has a new signed assembly in the tunnel!

In December 2023, all 200 modules were in! *Six months earlier the tunnel had been EMPTY*



19-ID SHIELDED TRANSPORT

December 2023



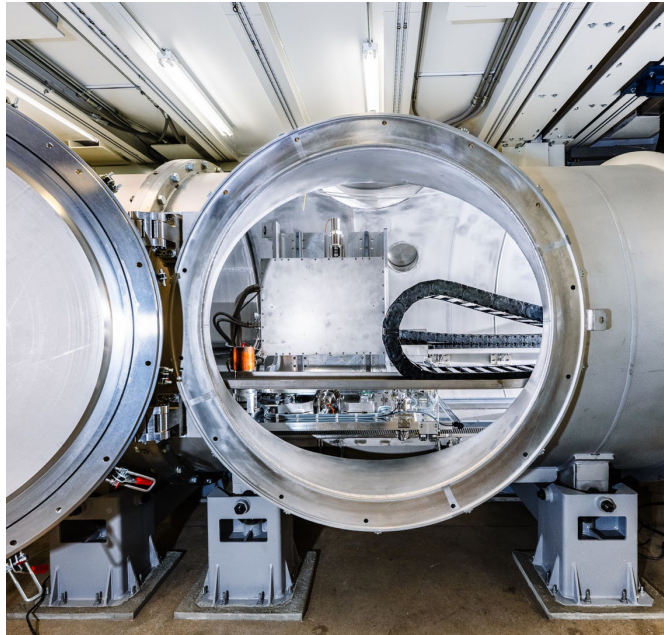
February 2024



12-ID SAXS

Small Angle X-ray Scattering Flight Tube

Great things come in all sizes!



ALMOST...THERE...

Before we start commissioning the ring, we must:

- Finish test and checkout of the technical systems
- Ensure measures and controls have been designed and implemented properly, are in place, and will be operated safely
- Measurements need to be taken during commissioning to ensure our measures and controls are behaving as expected



TO THE FINISH LINE AS A TEAM

We start machine commissioning soon, with beamlines to follow

We are transitioning from work on the storage ring to much more work on the beamlines

- The diversity and complexity of the work on the experiment floor will increase
- The people doing the work will change
- Keep your eyes open and be aware, always

Impact Safety Respect Integrity Teamwork

It all starts with you

