

The Long Shut Down Baseline Review

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Facilities Review

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Facilities

- Facilities resources are unique to other departments:
 - **Limited JLab resources** are required to complete our projects
 - Each project has a **Facilities Technical Representative** assigned that manages the projects from conception, to design, to construction
 - Facilities also supports **safety aspects** of the projects
 - Division Safety Officer
 - Construction Safety Inspectors
 - Resources are almost all subcontracted services
 - Limited JLab resources required have been integrated into the LSD schedule
 - RadCon support
 - Neil Wilson's group

Facilities

- Facilities Projects:
 - Each project schedule has been:
 - **Communicated** to the LSD Team
 - Revised to **minimize impacts** to critical path work
 - **Agreed to** and **incorporated** into LSD schedule
 - Used as a **baseline to solicit** subcontractor services
 - All anticipated **interruptions** have been **identified, communicated, discussed and agreed to** by affected LSD team members

Facilities

- All anticipated **interruptions** have been **identified, communicated, discussed and agreed to** by affected LSD team members
 - 40 MVA to 22 MVA Tie Line
 - **8 hours** shutdown required - entire accelerator
 - Replacement of CHL #1 Cooling Towers
 - **4 month down** – inline with CHL warm-up
 - Tunnel Penetration Repairs
 - **Repair areas cleared** with Accelerator OPS and 12 GeV Cyro Module installations

Facilities

- **Critical Path Work Considerations**

- 40 MVA to 22MVA Tie Line

- This takes advantage of the machine being down
 - Eliminates the need for a machine outage during normal operations
 - Doubles the ability of the 22MVA substation to provide back up power should the 40 MVA station go down (400 to 800 amps)

- CHL #1 Cooling Tower Replacement

- The subcontract was written with:
 - Header construction and the setting of the towers to complete by November.
- Allows water to flow to the CHL to support the start up of CHL operations.

Facilities

- **Critical Path Work Considerations**

- Renovation of the Counting House

- Allows for the replacement of:

- Hall's A,B and C's Cooling Systems that are beyond their useful life.
- The roof which is also beyond its useful life
- Replace of leaky windows

- No data can be obtained from the Halls during the cooling system replacement

- Major impact to data collection from the Halls if done during outside of the shutdown schedule

Facilities

- **Critical Path Work Considerations**

- Renovation of the MCC

- Allows for the replacement of:
 - Office Area HVAC Systems that are beyond their useful life.
 - The roof which is also beyond its useful life
- Construction efforts will require relocation of the personnel to building 87 while work is being done
 - Facilities is aware that cryo module commissioning will start before the construction is completed
 - Accommodations will be made to allow MCC operators into the command center to support the commissioning efforts during construction
 - HVAC systems in the command center are not part of the scope of work

Facilities

- **Critical Path Work Considerations**
 - Repair of Tunnel Penetrations
 - The schedule was created with Steve Suhring and Leigh Harwood to ensure the repair work did not impact mission critical work.

Facilities Summary

- Facilities is taking every advantage to install or repair critical infrastructure during the down so as not to impact future Accelerator operations or impact the mission critical operations of the 12 GeV installation.