

LSD Scope of Work

As of 7 Feb 2012

12GeV Accelerator

- Upgrade OR beamline
- Install and commission 8 cryomodules
- Complete all new RF zones
- Add 5 new zones to NL PSS
- Complete Safety Systems for HD beamline, tagger and hall.
- Upgrade warm gas piping in NL; remove dummy cryomodules from NL and SL; replace return valve bullets
- Refurb arcs 1 & 3
- Install new box supplies
- Upgrade shunts in S/R's
- Rework beamlines to HA, HB, & HC
- Remove/rework/replace all S/R's
- Install beamline to HD
- Complete arc 10
- Complete and commission CHL2
- Remove/rework/replace extraction lines
- Install and commission new trim supplies
- Complete Hall D refrigerator, TL, and header

Non 12GeV Accelerator (including software)

- 11GeV Separator (RF and Cavities)
- DogLeg Upgrade
- Upgrade injector (Injector Rebuild)
- Injector Segmentation Wall
- Hall A Dump
- Argonne Cavity Processing
- CHL 1 maintenance
- Maintenance Tasks
- Full integration of the C100 into the high level apps
- Rewrite of lock servers
- Ongoing development and support for the CED
- Develop infrastructure to replace CDEV servers

Facilities Management

- 40MVA to 22MVA Tie Line
- CHL 1 cooling tower replacement
- Back up System for CHL 1 Cooling Tower using CHL 2 Tower (Cross connect from CHL 2 cooling towers to CHL 1)
- Tunnel Penetration Repairs
- Counting House Renovation – 1st floor
- Replace MCC HVAC/Roof
- CEBAF Center Cross Walk – TEDF
- West Arc Ditch Repairs
- Renovate Truck Ramp/FEL Flood Gates
- Beam Dump Dehumidifiers Mods – Dumps A&C
- Pending Funding:
 - Tunnel Dehumidifiers Replacement (pending FY13 funding)
 - Extension of Bldg #68 (W2) Extension for 11GeV Separator – pending FY13 funding
 - North & South Back up Towers – FY14 funding
 - Expand Injector Test Cave (not funded)
 - Upgrade Test Lab Roof (not funded)
 - Addition Air Conditioning N/S Linacs – pending FY13 funding

Free Electron Laser

- FEL: run until July 31
- Pull FL02 cryomodule Aug 30
- Pull FL03 cryomodule Sept 7
- Pull FL01 (cryo unit) Oct 30
- Install new FL02 (C50 CM) Nov 15
- Install plasma-processed Admiral CM in FL03 Dec 1
- Install new FL01 Jan 1, 2013
- Initiate new FEL ops with upgraded injector Jan 30, 2013

EHS&Q

- Support 12 GeV & ongoing program
- Support TEDF transition to operations.

Information Technology

- Design and Deploy Hall Remote Access System

Hall A

- Perform arc magnet mapping (ENG)
- Upgrade Compton Polarimeter
- Upgrade Moeller Polarimeter
- Remove G2P
- Install First Experiment (Apex or A1N)
- Install Cryogenic Moeller
- Perform Radiation Hardening
- Upgrade Cryogenics
- Install/Modify Detector Systems
- Commissioning

Hall B

- Disassemble and remove CLAS
- CLAS12 Superconducting Magnets
- Modify space frame level 1
- Modify forward carriage
- Install new tagger window
- Install central detector
- Install drift chambers
- Install high threshold CC
- Install forward carriage detector packages
- Beamline Components
- Electronics & Computing
- Infrastructure (Electrical, LCW, Cryogenic Dist System)
- Commissioning

Hall C

- Decommission and remove Qweak
- Repair A-can leak or replace with C-can
- SHMS rail section installation and alignment
- SHMS carriage installation
- SHMS concrete shield house construction
- Magnet, power supply and control installation
- Shield house installation preparation
- Detector Installation and testing
- Commissioning

Hall D

- Downstream platform track install
- Solenoid Work & Platform
- Tagger Area Magnet & Equipment
- Infrastructure Tagger & Hall D (LCW, air lines, electrical, etc)
- Beamline Components
- Assemble downstream carriage
- Electronics & Computing (including Counting House installation work)
- BCAL, Pair Spectrometer, FDC, CDC, Target/Start Counter, FCAL, TOF
- Commissioning