The Long Down

Scope of Work Sketch

Facilities Management

Install electrical tie line from 22 MVA to 40MVA substation
Install UIM electrical sub-stations*
Recondition central helium liquefier 1
Complete commissioning of central helium liquefier 2
Replace tunnel dehumidifiers
Counting house sustainability improvements
Expand injector test cave
Replace MCC roof and HVAC systems
Extension of building 68
Perform Hall A penetration for ESR II
Upgrade Test Lab roof
Renovate truck ramp flood gates for FEL and Halls
*May be delayed to 2014

Accelerator Software •Develop infrastructure to replace CDEV servers •Rewrite of lock servers •Ongoing development and support for the CED •Full integration of the C100 into the high level apps

EHS&Q

•Support 12 GeV & Non-Civil Construction •Support transition for TEDF transition to operations.

Free Electron Laser

•Upgrade Injector •Upgrade Cryomodule •Construct Booster based on new design (prefer to remain in operation if possible)

Information Technology

Design and Deploy Hall Remote Access System

•Disassemble and remove CLAS •CLAS12 •Assemble torus •Install new cryogenic distribution system •Modify space frame level 1 •Modify forward carriage •Install new tagger window •Upgrade beamline •Install hardware for DAQ •Install central detector •Install drift chambers

oInstall high threshold CC

Install forward carriage detector packages
 Commissioning

Hall C

•SHMS concrete shield house construction •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

Accelerator w/ Engineering Support

Prep for cryomodule installation
Install 5 cryomodules in north linac
Install 3 cryomodules in south linac
Install and commission the arc-10 connect
Upgrade injector
Install and commission Hall D tagger/transport
Arc 1 magnet upgrade
Arc 3 magnet upgrade
Prep for spreader / recombiner installation
Install and commission 5 spreader / recombiners
Install new box power supplies

Hall D

Downstream platform track install Upgrade solenoid controls Install solenoid yoke 1 baffle stiffeners Install air line Modify PS mag pole Install cladding Install tagger magnet gantry Paint solenoid Install Tagger stands **Complete Hall D LCW** Install Tagger LCW manifold Assemble downstream carriage Install solenoid platform Install racks in Counting House Install collimator shielding Install BCAL rails into solenoid Assemble BCAL light guide/readout **Install PS magnet** Stack FCAL blocks Install gas system Assemble BCAL wedge Fabricate/test thin window tagger Install racks in Hall D Commissioning

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Hall A •Perform arc magnet mapping •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