

**LCLS Work Breakdown Structure
(TEC and OPC)**

3/19/2004

| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|-----------|----|----|----|---|---|-------------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | | | | | | LCLS PROJECT - PED & CONSTRUCTION | SLAC | Summary |
| 1 | 01 | | | | | LCLS PROJECT MGMT, PLANNING & ADMN (TEC) | SLAC | Summary |
| 1 | 01 | 01 | | | | Environment, Safety & Health | SLAC | Summary |
| 1 | 01 | 01 | 01 | | | Radiation Physics | SLAC | Control Acct |
| 1 | 01 | 01 | 02 | | | ESH Management & Coordination | SLAC | Control Acct |
| 1 | 01 | 01 | 03 | | | Seismic & Engineering Support | SLAC | Control Acct |
| 1 | 01 | 02 | | | | Project Management | SLAC | Summary |
| 1 | 01 | 02 | 01 | | | SLAC Project Management Office | SLAC | Summary |
| 1 | 01 | 02 | 01 | 01 | | SLAC Project Office - General | SLAC | Control Acct |
| 1 | 01 | 02 | 01 | 02 | | SLAC Project Support | SLAC | Control Acct |
| 1 | 01 | 02 | 01 | 03 | | SLAC Project Office M&S | SLAC | Control Acct |
| 1 | 01 | 02 | 01 | 04 | | Business Services | SLAC | Control Acct |
| 1 | 01 | 02 | 01 | 05 | | Computer Services | SLAC | Control Acct |
| 1 | 01 | 02 | 02 | | | reserved | | |
| 1 | 01 | 02 | 03 | | | reserved | | |
| 1 | 01 | 03 | | | | Technical Integration | SLAC | Summary |
| 1 | 01 | 03 | 01 | | | Global Controls | SLAC | Control Acct |
| 1 | 01 | 03 | 02 | | | Global Alignment Coordination | SLAC | Control Acct |
| 1 | 01 | 03 | 03 | | | Global Installation Coordination | SLAC | Control Acct |
| 1 | 01 | 04 | | | | Education Support | SLAC | Summary |
| 1 | 01 | 04 | 01 | | | Education/Outreach Travel | SLAC | Control Acct |
| 1 | 01 | 04 | 02 | | | Education/Outreach M&S | SLAC | Control Acct |
| 1 | 01 | 05 | | | | reserved | | |
| 1 | 02 | | | | | INJECTOR SYSTEM | SLAC | Summary |
| 1 | 02 | 01 | | | | Injector System Management & Integration | SLAC | Summary |
| 1 | 02 | 01 | 01 | | | Injector System Integration Effort / M&S | SLAC | Control Acct |
| 1 | 02 | 01 | 02 | | | High level Application Software | SLAC | Control Acct |
| 1 | 02 | 01 | 03 | | | Feedback Software | SLAC | Control Acct |
| 1 | 02 | 02 | | | | Injector Controls Subsystem | SLAC | Summary |
| 1 | 02 | 02 | 01 | | | EPICS VXI Control Modules (Moved to R&D) | SLAC | Control Acct |
| 1 | 02 | 02 | 02 | | | LLRF Controls | SLAC | Summary |
| 1 | 02 | 02 | 02 | 01 | | Readback & Controls - RF Gun LLRF & Temperature | SLAC | Control Acct |
| 1 | 02 | 02 | 02 | 02 | | Readback & Controls - L0 LLRF | SLAC | Control Acct |
| 1 | 02 | 02 | 02 | 03 | | Readback & Controls - Transverse Cavity LLRF | SLAC | Control Acct |
| 1 | 02 | 02 | 02 | 04 | | S-Band Cavity Controls | SLAC | Control Acct |

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| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 02 | 02 | 02 | 05 | | EO Phase Controls | SLAC | Control Acct |
| 1 | 02 | 02 | 03 | | | E-Beam Diagnostics Controls | SLAC | Summary |
| 1 | 02 | 02 | 03 | 01 | | Controls - Wire Scanners | SLAC | Control Acct |
| 1 | 02 | 02 | 03 | 02 | | Controls - Toroids | SLAC | Control Acct |
| 1 | 02 | 02 | 03 | 03 | | Controls - Faraday Cups | SLAC | Control Acct |
| 1 | 02 | 02 | 03 | 04 | | Controls - Tune-Up Dump | SLAC | Control Acct |
| 1 | 02 | 02 | 03 | 05 | | Controls - Profile Monitors | SLAC | Control Acct |
| 1 | 02 | 02 | 03 | 06 | | Controls - E/O Diagnostics | SLAC | Control Acct |
| 1 | 02 | 02 | 03 | 07 | | Controls - BPM | SLAC | Control Acct |
| 1 | 02 | 02 | 03 | 08 | | Diagnostics Controls Integration | SLAC | Control Acct |
| 1 | 02 | 02 | 04 | | | Laser Controls | SLAC | Summary |
| 1 | 02 | 02 | 04 | 01 | | Controls - Alignment Laser | SLAC | Control Acct |
| 1 | 02 | 02 | 04 | 02 | | Controls - Gun Laser | SLAC | Control Acct |
| 1 | 02 | 02 | 05 | | | Laser Heater Controls | SLAC | Control Acct |
| 1 | 02 | 02 | 06 | | | Timing Controls | SLAC | Control Acct |
| 1 | 02 | 02 | 07 | | | Vacuum Controls | SLAC | Control Acct |
| 1 | 02 | 02 | 08 | | | Software & Controls Infrastructure | SLAC | Summary |
| 1 | 02 | 02 | 08 | 01 | | Low Level Application Software | SLAC | Control Acct |
| 1 | 02 | 02 | 08 | 02 | | High Level Application Software | SLAC | Control Acct |
| 1 | 02 | 02 | 08 | 03 | | Data Communications | SLAC | Control Acct |
| 1 | 02 | 02 | 08 | 04 | | Computers & Crates | SLAC | Control Acct |
| 1 | 02 | 02 | 09 | | | Power Supply Controls | SLAC | Control Acct |
| 1 | 02 | 02 | 10 | | | PPS,BCS,MPS Controls | SLAC | Control Acct |
| 1 | 02 | 03 | | | | Injector Lasers | SLAC | Summary |
| 1 | 02 | 03 | 01 | | | Drive Laser Prototyping | SLAC | Control Acct |
| 1 | 02 | 03 | 02 | | | Drive Laser Oscillator | SLAC | Control Acct |
| 1 | 02 | 03 | 03 | | | Oscillator Diagnostics & Isolator | SLAC | Control Acct |
| 1 | 02 | 03 | 04 | | | Stretcher / Shaper | SLAC | Control Acct |
| 1 | 02 | 03 | 05 | | | Oscillator - Based Measurement | SLAC | Control Acct |
| 1 | 02 | 03 | 06 | | | Oscillator Beam Transport & Encl | SLAC | Control Acct |
| 1 | 02 | 03 | 07 | | | PreAmplifier | SLAC | Control Acct |
| 1 | 02 | 03 | 08 | | | PreAmplifier Diagnostics & Isolator | SLAC | Control Acct |
| 1 | 02 | 03 | 09 | | | PreAmplifier Low Pwr Comp | SLAC | Control Acct |
| 1 | 02 | 03 | 10 | | | KHz Pulse Selection & 120Hz Splitter | SLAC | Control Acct |
| 1 | 02 | 03 | 11 | | | PreAmplifier Spatial Filter | SLAC | Control Acct |
| 1 | 02 | 03 | 12 | | | PreAmplifier - Based Measurement | SLAC | Control Acct |
| 1 | 02 | 03 | 13 | | | PreAmplifier Beam Transport & Encl. | SLAC | Control Acct |

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| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 02 | 03 | 14 | | | Final Amplifier | SLAC | Control Acct |
| 1 | 02 | 03 | 15 | | | Final Amplifier Diagnostics | SLAC | Control Acct |
| 1 | 02 | 03 | 16 | | | 120Hz Combiner | SLAC | Control Acct |
| 1 | 02 | 03 | 17 | | | High Power Compressor | SLAC | Control Acct |
| 1 | 02 | 03 | 18 | | | High Pwr Vac Spatial Filters & Relay | SLAC | Control Acct |
| 1 | 02 | 03 | 19 | | | Final Amplifier-Based Meas | SLAC | Control Acct |
| 1 | 02 | 03 | 20 | | | Final Amp Beam Transport & Encl | SLAC | Control Acct |
| 1 | 02 | 03 | 21 | | | UV Conv Harmonic Generation Unit | SLAC | Control Acct |
| 1 | 02 | 03 | 22 | | | UV Diagnostics | SLAC | Control Acct |
| 1 | 02 | 03 | 23 | | | UV Measurements | SLAC | Control Acct |
| 1 | 02 | 03 | 24 | | | UV Optical Transport & Diag. | SLAC | Control Acct |
| 1 | 02 | 03 | 25 | | | Visible Optical Transport & Diag. | SLAC | Control Acct |
| 1 | 02 | 03 | 26 | | | IR Optical Transport & Diagnostics | SLAC | Control Acct |
| 1 | 02 | 03 | 27 | | | UV Conditioning | SLAC | Control Acct |
| 1 | 02 | 03 | 28 | | | LB Infrastruc & LB System-Wide Items | SLAC | Control Acct |
| 1 | 02 | 03 | 29 | | | Alignment Laser | SLAC | Control Acct |
| 1 | 02 | 03 | 30 | | | Light Path to Streak Camera | SLAC | Control Acct |
| 1 | 02 | 04 | | | | RF Gun & Load Lock | SLAC | Summary |
| 1 | 02 | 04 | 01 | | | RF Gun | SLAC | Control Acct |
| 1 | 02 | 04 | 02 | | | RF Gun Supports | SLAC | Control Acct |
| 1 | 02 | 04 | 03 | | | Gun Load Lock | SLAC | Control Acct |
| 1 | 02 | 04 | 04 | | | Gun Load Lock Supports | SLAC | Control Acct |
| 1 | 02 | 04 | 05 | | | Gun Solenoid | SLAC | Control Acct |
| 1 | 02 | 04 | 06 | | | Gun Solenoid Supports | SLAC | Control Acct |
| 1 | 02 | 04 | 07 | | | Gun RF Feed | SLAC | Control Acct |
| 1 | 02 | 04 | 08 | | | Gun RF Feed Supports | SLAC | Control Acct |
| 1 | 02 | 05 | | | | Gun to Linac Section (GTL) | SLAC | Summary |
| 1 | 02 | 05 | 01 | | | GTL BPMs (3ea) | SLAC | Control Acct |
| 1 | 02 | 05 | 02 | | | GTL Faraday Cup/YAG1 | SLAC | Control Acct |
| 1 | 02 | 05 | 03 | | | GTL Current Monitors (CM1) | SLAC | Control Acct |
| 1 | 02 | 05 | 04 | | | GTL E/O (EO1) | SLAC | Control Acct |
| 1 | 02 | 05 | 05 | | | GTL RF Phase Cavity | SLAC | Control Acct |
| 1 | 02 | 05 | 06 | | | GTL Steering Coils (1ea)X-Y (SC1) | SLAC | Control Acct |
| 1 | 02 | 05 | 07 | | | GTL Vacuum Components | SLAC | Control Acct |
| 1 | 02 | 05 | 08 | | | GTL Supports | SLAC | Control Acct |
| 1 | 02 | 05 | 09 | | | Gun Spectrometer (GS) Assembly | SLAC | Summary |
| 1 | 02 | 05 | 09 | 01 | | GS Dipole | SLAC | Control Acct |

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| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 02 | 05 | 09 | 02 | | GS Current Monitor (CM2) | SLAC | Control Acct |
| 1 | 02 | 05 | 09 | 03 | | GS BPM (1) | SLAC | Control Acct |
| 1 | 02 | 05 | 09 | 04 | | GS Faraday Cup/YAG2 | SLAC | Control Acct |
| 1 | 02 | 05 | 09 | 05 | | GS Dump Shielding | SLAC | Control Acct |
| 1 | 02 | 05 | 09 | 06 | | GS Quadrupoles | SLAC | Control Acct |
| 1 | 02 | 05 | 09 | 07 | | GS Supports | SLAC | Control Acct |
| 1 | 02 | 05 | 10 | | | GTL Pumping & Optic Chamber | SLAC | Control Acct |
| 1 | 02 | 05 | 11 | | | GTL YAG (1ea) | SLAC | Control Acct |
| 1 | 02 | 06 | | | | Injector Linac Structures | SLAC | Summary |
| 1 | 02 | 06 | 01 | | | L0-1 Structure Assembly | SLAC | Control Acct |
| 1 | 02 | 06 | 02 | | | L0-2 Structure Assembly | SLAC | Control Acct |
| 1 | 02 | 06 | 03 | | | Major Linac Support | SLAC | Control Acct |
| 1 | 02 | 06 | 04 | | | Linac Solenoid & Supports | SLAC | Control Acct |
| 1 | 02 | 07 | | | | L0-1 to L0-2 Section (L0-1TL0-2) | SLAC | Summary |
| 1 | 02 | 07 | 01 | | | L0-1TL0-2 Quadrupoles (2) | SLAC | Control Acct |
| 1 | 02 | 07 | 02 | | | L0-1TL0-2 BPMs (2) | SLAC | Control Acct |
| 1 | 02 | 07 | 03 | | | L0-1TL0-2 Current Monitor (1) | SLAC | Control Acct |
| 1 | 02 | 07 | 04 | | | L0-1TL0-2 OTR/YAG (1) | SLAC | Control Acct |
| 1 | 02 | 07 | 05 | | | L0-1TL0-2 Linac Steering Coils (4) | SLAC | Control Acct |
| 1 | 02 | 07 | 06 | | | L0-1TL0-2 Vacuum Components | SLAC | Control Acct |
| 1 | 02 | 07 | 07 | | | L0-1TL0-2 Major tube support structure | SLAC | Control Acct |
| 1 | 02 | 08 | | | | Linac to DL1 (LTDL1) | SLAC | Summary |
| 1 | 02 | 08 | 01 | | | LTDL1 Current Monitors (CM3) | SLAC | Control Acct |
| 1 | 02 | 08 | 02 | | | LTDL1 BPMs (6ea) | SLAC | Control Acct |
| 1 | 02 | 08 | 03 | | | LTDL1 OTR(5)/YAG (1) | SLAC | Control Acct |
| 1 | 02 | 08 | 04 | | | LTDL1 Quadrupoles (6ea) | SLAC | Control Acct |
| 1 | 02 | 08 | 05 | | | LTDL1 Wire Scanners (3) | SLAC | Control Acct |
| 1 | 02 | 08 | 06 | | | LTDL1 RF Kicker | SLAC | Control Acct |
| 1 | 02 | 08 | 07 | | | LTDL1 Steering Coils (2ea)X-Y | SLAC | Control Acct |
| 1 | 02 | 08 | 08 | | | LTDL1 PPS Stopper | SLAC | Control Acct |
| 1 | 02 | 08 | 09 | | | LTDL1 E/O EO2 | SLAC | Control Acct |
| 1 | 02 | 08 | 10 | | | LTDL1 Minor Tube Supports | SLAC | Control Acct |
| 1 | 02 | 09 | | | | Dog Leg 1 Bend (DL1) | SLAC | Summary |
| 1 | 02 | 09 | 01 | | | DL1 B01 & B02 Dipoles | SLAC | Control Acct |
| 1 | 02 | 09 | 02 | | | DL1 QB Quadrupole | SLAC | Control Acct |
| 1 | 02 | 09 | 03 | | | DL1 Wire Scanner | SLAC | Control Acct |
| 1 | 02 | 09 | 04 | | | DL1 OTR | SLAC | Control Acct |

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| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 02 | 09 | 05 | | | DL1 Supports | SLAC | Control Acct |
| 1 | 02 | 09 | 06 | | | DL1 Vacuum Chamber | SLAC | Control Acct |
| 1 | 02 | 10 | | | | DL1 to Linac (DL1TL) | SLAC | Summary |
| 1 | 02 | 10 | 01 | | | DL1TL BPMs (2) | SLAC | Control Acct |
| 1 | 02 | 10 | 02 | | | DL1TL Steering Coils (3eaX-Y Assys) | SLAC | Control Acct |
| 1 | 02 | 10 | 03 | | | DL1TL Quadrupoles (2) | SLAC | Control Acct |
| 1 | 02 | 10 | 04 | | | DL1TL Vacuum Components | SLAC | Control Acct |
| 1 | 02 | 10 | 05 | | | DL1TL Current Monitor (CM4) | SLAC | Control Acct |
| 1 | 02 | 10 | 06 | | | DL1TL OTR | SLAC | Control Acct |
| 1 | 02 | 10 | 07 | | | DL1TL EO3 | SLAC | Control Acct |
| 1 | 02 | 11 | | | | Straight Ahead Beamline (SAB) | SLAC | Summary |
| 1 | 02 | 11 | 01 | | | SAB Spectrometer Dipole | SLAC | Control Acct |
| 1 | 02 | 11 | 02 | | | SAB Quadrupoles (3) | SLAC | Control Acct |
| 1 | 02 | 11 | 03 | | | SAB Current Monitor (CM5) | SLAC | Control Acct |
| 1 | 02 | 11 | 04 | | | SAB BPM (4ea) | SLAC | Control Acct |
| 1 | 02 | 11 | 05 | | | SAB YAG | SLAC | Control Acct |
| 1 | 02 | 11 | 06 | | | SAB Vacuum Chamber and Components | SLAC | Control Acct |
| 1 | 02 | 11 | 07 | | | SAB Beam Dump and Shielding | SLAC | Control Acct |
| 1 | 02 | 11 | 08 | | | SAB Supports | SLAC | Control Acct |
| 1 | 02 | 11 | 09 | | | SAB Steering Coils (2) | SLAC | Control Acct |
| 1 | 02 | 12 | | | | Injector RF Waveguide Subsystem | SLAC | Summary |
| 1 | 02 | 12 | 01 | | | RF Waveguides | SLAC | Control Acct |
| 1 | 02 | 12 | 02 | | | RF Waveguide Supports | SLAC | Control Acct |
| 1 | 02 | 13 | | | | Injector RF Subsystem | SLAC | Summary |
| 1 | 02 | 13 | 01 | | | S-Band Low Level System | SLAC | Summary |
| 1 | 02 | 13 | 01 | 01 | | Controls Interface & Timing | SLAC | Control Acct |
| 1 | 02 | 13 | 01 | 02 | | LLRF Phase Reference System | SLAC | Control Acct |
| 1 | 02 | 13 | 01 | 03 | | LLRF Monitor & Control System | SLAC | Control Acct |
| 1 | 02 | 13 | 01 | 04 | | Beam Phase Monitor Cavity | SLAC | Control Acct |
| 1 | 02 | 13 | 01 | 05 | | RF System S/W Development / Docs | SLAC | Control Acct |
| 1 | 02 | 13 | 02 | | | S-Band High Power System | SLAC | Summary |
| 1 | 02 | 13 | 02 | 01 | | RF Gun High Power | SLAC | Control Acct |
| 1 | 02 | 13 | 02 | 02 | | L0 High Power | SLAC | Control Acct |
| 1 | 02 | 13 | 02 | 03 | | Transverse Cavity High Power | SLAC | Control Acct |
| 1 | 02 | 14 | | | | Cathode Processing (CP) Station | SLAC | Summary |
| 1 | 02 | 14 | 01 | | | CP Cathode Assembly & Supports | SLAC | Control Acct |
| 1 | 02 | 14 | 02 | | | CP Load Lock | SLAC | Control Acct |

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| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 02 | 14 | 03 | | | CP Load Lock Supports | SLAC | Control Acct |
| 1 | 02 | 14 | 04 | | | CP Station | SLAC | Control Acct |
| 1 | 02 | 14 | 05 | | | Cathode Lab Infrastructure | SLAC | Control Acct |
| 1 | 02 | 15 | | | | Injector Laser Heater Subsystem | SLAC | Summary |
| 1 | 02 | 15 | 01 | | | System Design & Optimization | SLAC | Control Acct |
| 1 | 02 | 15 | 02 | | | Beam Conditioning Optics (Laser Bay) | SLAC | Control Acct |
| 1 | 02 | 15 | 03 | | | Transport Optics (Bay to Tunnel) | SLAC | Control Acct |
| 1 | 02 | 15 | 04 | | | Chicane | SLAC | Control Acct |
| 1 | 02 | 15 | 05 | | | Undulator | SLAC | Control Acct |
| 1 | 02 | 15 | 06 | | | Photon Beam Diagnostics | SLAC | Control Acct |
| 1 | 02 | 15 | 07 | | | Electron Beam Diagnostics | SLAC | Control Acct |
| 1 | 02 | 15 | 08 | | | Testing & Commissioning | SLAC | Control Acct |
| 1 | 02 | 16 | | | | Injector Protection & Pwr Conv Subsystem | SLAC | Summary |
| 1 | 02 | 16 | 01 | | | Personnel Protection Subsystem (PPS) | SLAC | Control Acct |
| 1 | 02 | 16 | 02 | | | Beam Containment Subsystem (BCS) | SLAC | Control Acct |
| 1 | 02 | 16 | 03 | | | Machine Protection Subsystem (MPS) | SLAC | Control Acct |
| 1 | 02 | 16 | 04 | | | Injector Power Conversion | SLAC | Summary |
| 1 | 02 | 16 | 04 | 01 | | Beamline Pwr Supplies - (Dipole Type) | SLAC | Control Acct |
| 1 | 02 | 16 | 04 | 01 | 01 | 10kw Power Supply - (Solenoid 1) | SLAC | |
| 1 | 02 | 16 | 04 | 01 | 02 | 30kw Power Supply - (Solenoid 2) | SLAC | |
| 1 | 02 | 16 | 04 | 01 | 03 | 2kw Power Supply - (B0.5 Spect) | SLAC | |
| 1 | 02 | 16 | 04 | 01 | 04 | 15kw Power Supply - (B1-2) | SLAC | |
| 1 | 02 | 16 | 04 | 01 | 05 | 15kw Power Supply - (B3 Spect) | SLAC | |
| 1 | 02 | 16 | 04 | 01 | 06 | 10kw Power Supply - (New) | SLAC | |
| 1 | 02 | 16 | 04 | 02 | | Beamline Pwr Supplies - (Trim Type) | SLAC | Control Acct |
| 1 | 02 | 16 | 04 | 02 | 01 | 12Amp Power Supply - (MCOR_1) | SLAC | |
| 1 | 02 | 16 | 04 | 02 | 02 | 30Amp Power Supply - (MCOR_2) | SLAC | |
| 1 | 02 | 16 | 04 | 02 | 03 | 30Amp Power Supply - (MCOR_3) | SLAC | |
| 1 | 02 | 16 | 04 | 02 | 04 | 30Amp Power Supply - (MCOR_4) | SLAC | |
| 1 | 02 | 16 | 04 | 03 | | Controls & Power Supply - Misc Hdwr | SLAC | Control Acct |
| 1 | 02 | 16 | 04 | 04 | | Magnet Interlock Protection System | SLAC | Control Acct |
| 1 | 02 | 17 | | | | Injector Installation & Alignment | SLAC | Summary |
| 1 | 02 | 17 | 01 | | | Injector Infrastructure Installation | SLAC | Control Acct |
| 1 | 02 | 17 | 02 | | | Injector Controls Subsystem Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 03 | | | Injector Lasers Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 04 | | | RF Gun & Load Lock Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 05 | | | Gun to Linac Section (GTL) Install & Align | SLAC | Control Acct |

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| 1 | 02 | 17 | 06 | | | Injector Linac Structures Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 07 | | | L0-1 to L0-2 Section (L0-1TL0-2) Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 08 | | | Linac to DL1 (LTDL1) Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 09 | | | Dog Leg 1 Bend (DL1) Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 10 | | | DL1 to Linac (DL1TL) Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 11 | | | Straight Ahead Beamline (SAB) Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 12 | | | Injector RF Waveguide System Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 13 | | | Injector RF Subsystem Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 14 | | | Cathode and Load Lock Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 15 | | | Injector Laser Heater Subsystem Install & Align | SLAC | Control Acct |
| 1 | 02 | 17 | 16 | | | FY04 Sector 20 Facility Preps | SLAC | Control Acct |
| 1 | 02 | 17 | 17 | | | Power Conversion Subsystem Installation | SLAC | Control Acct |
| 1 | 03 | | | | | LINAC SYSTEM | SLAC | Summary |
| 1 | 03 | 01 | | | | System Management & Integration | SLAC | Summary |
| 1 | 03 | 01 | 01 | | | Linac Mechanical Integration | SLAC | Summary |
| 1 | 03 | 01 | 01 | 01 | | L01 System Integration | SLAC | Control Acct |
| 1 | 03 | 01 | 01 | 02 | | BC1 System Integration | SLAC | Control Acct |
| 1 | 03 | 01 | 01 | 03 | | L02 System Integration | SLAC | Control Acct |
| 1 | 03 | 01 | 01 | 04 | | BC2 System Integration | SLAC | Control Acct |
| 1 | 03 | 01 | 01 | 05 | | L03 System Integration | SLAC | Control Acct |
| 1 | 03 | 01 | 01 | 06 | | LTU System Integration | SLAC | Control Acct |
| 1 | 03 | 01 | 01 | 07 | | E-Dump System Integration | SLAC | Control Acct |
| 1 | 03 | 01 | 02 | | | Linac Controls Integration | SLAC | Summary |
| 1 | 03 | 01 | 02 | 01 | | High Level Application Software | SLAC | Control Acct |
| 1 | 03 | 01 | 02 | 02 | | Feedback Software | SLAC | Control Acct |
| 1 | 03 | 01 | 02 | 03 | | Hardware (Computer Equipment) | SLAC | Control Acct |
| 1 | 03 | 01 | 03 | | | Travel | SLAC | Control Acct |
| 1 | 03 | 01 | 04 | | | Linac Management | SLAC | Control Acct |
| 1 | 03 | 02 | | | | Linac Controls & Power Conversion Subsystem | SLAC | Summary |
| 1 | 03 | 02 | 01 | | | Personnel Protection System (PPS) | SLAC | Control Acct |
| 1 | 03 | 02 | 02 | | | Beam Containment System (BCS) | SLAC | Control Acct |
| 1 | 03 | 02 | 03 | | | Machine Protection System (MPS) | SLAC | Control Acct |
| 1 | 03 | 02 | 04 | | | Linac Power Conversion Subsystem | SLAC | Summary |
| 1 | 03 | 02 | 04 | 01 | | Beamline Power Supplies - (Dipole Type) | SLAC | Control Acct |
| 1 | 03 | 02 | 04 | 01 | 01 | 30kw Pwr Supply - (B11-14) | SLAC | |
| 1 | 03 | 02 | 04 | 01 | 02 | Power Supply - (B21-26) | SLAC | |

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| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 03 | 02 | 04 | 01 | 03 | 78kw Pwr Supply - (B31-34) | SLAC | |
| 1 | 03 | 02 | 04 | 01 | 04 | reserved | | |
| 1 | 03 | 02 | 04 | 01 | 05 | Power Supply - (BY1) | SLAC | |
| 1 | 03 | 02 | 04 | 01 | 06 | Kicker (BYBKIK) | SLAC | |
| 1 | 03 | 02 | 04 | 01 | 07 | 30kw Pwr Supply - (BYW) | SLAC | |
| 1 | 03 | 02 | 04 | 01 | 08 | 78kw Pwr Supply - (Dump Bend) | SLAC | |
| 1 | 03 | 02 | 04 | 01 | 09 | 100kw Pwr Supply - (Wiggler) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | | Beamline Power Supplies - (Quad Type) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 01 | 2kw Power Supply - (SEC-23) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 02 | 2kw Power Supply - (SEC-24) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 03 | 2kw Power Supply - (SEC-25) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 04 | 2kw Power Supply - (SEC-26) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 05 | 2kw Power Supply - (SEC-27) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 06 | 2kw Power Supply - (SEC-28) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 07 | 2kw Power Supply - (SEC-29) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 08 | 10kw Power Supply - (Q24701) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 09 | 10kw Power Supply - (QM21) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 10 | 10kw Power Supply - (QM22) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 11 | 10kw Power Supply - (Q24901) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 12 | 10kw Power Supply - (QM22) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 13 | Power Supply - (QVM1) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 14 | Power Supply - (QVM2) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 15 | Power Supply - (QVM3) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 16 | Power Supply - (QVM4) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 17 | Power Supply - (QVB1) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 18 | Power Supply - (QDL1) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 19 | Power Supply - (QE31) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 20 | Power Supply - (QEM1) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 21 | Power Supply - (QEM2) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 22 | Power Supply - (QEM3) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 23 | Power Supply - (QEM4) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 24 | Power Supply - (QTm1) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 25 | Power Supply - (QTm2) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 26 | Power Supply - (QUM1) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 27 | Power Supply - (QUM2) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 28 | Power Supply - (QUM3) | SLAC | |
| 1 | 03 | 02 | 04 | 02 | 29 | Power Supply - (QUM4) | SLAC | |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|----|--|------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 03 | 02 | 04 | 02 | 30 | Power Supply - (QDMP) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | | Beamline Power Supplies - (Trim Type) | SLAC | Control Acct |
| 1 | 03 | 02 | 04 | 03 | 01 | 12Amp Power Supply - (MCOR_1) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 02 | 30Amp Power Supply - (MCOR_2) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 03 | 30Amp Power Supply - (MCOR_3) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 04 | 30Amp Power Supply - (MCOR_4) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 05 | 12Amp Power Supply - (MCOR_5) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 06 | 12Amp Power Supply - (MCOR_6) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 07 | 12Amp Power Supply - (MCOR_7) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 08 | 12Amp Power Supply - (MCOR_8) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 09 | 12Amp Power Supply - (MCOR_9) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 10 | Power Supply - (MCOR_LTU1) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 11 | Power Supply - (MCOR_LTU2) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 12 | Power Supply - (MCOR_LTU3) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 13 | Power Supply - (MCOR_LTU4) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 14 | Power Supply - (MCOR_LTU5) | SLAC | |
| 1 | 03 | 02 | 04 | 03 | 15 | Power Supply - (MCOR_LTU6) | SLAC | |
| 1 | 03 | 02 | 04 | 04 | | Controls & Power Supply - Misc Hdwr | SLAC | Control Acct |
| 1 | 03 | 02 | 05 | | | Controls - LLRF | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | | | Controls - E-Beam Diagnostic | SLAC | Summary |
| 1 | 03 | 02 | 06 | 01 | | Controls - Wire Scanners | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | 02 | | Controls - BPMs | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | 03 | | Controls - Toroids | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | 04 | | Controls - Stoppers | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | 05 | | Controls - Profile Monitors | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | 06 | | Controls - E/O Diagnostics | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | 07 | | Controls - Bunch Length Monitors | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | 08 | | Controls - Beam Loss Monitors | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | 09 | | Controls - Single Beam Dump | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | 10 | | Controls - E Beam Dump | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | 11 | | Controls - Protection Collimator | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | 12 | | Controls - Movable Collimator | SLAC | Control Acct |
| 1 | 03 | 02 | 06 | 13 | | Controls - X-Band Accel Structure | SLAC | Control Acct |
| 1 | 03 | 02 | 07 | | | Controls - Laser | SLAC | Control Acct |
| 1 | 03 | 02 | 08 | | | Controls - Timing | SLAC | Control Acct |
| 1 | 03 | 02 | 09 | | | Controls - Vacuum | SLAC | Summary |
| 1 | 03 | 02 | 09 | 01 | | Controls - Vacuum Instrumentation & Interlocks | SLAC | Control Acct |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|---|--|------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 03 | 02 | 09 | 02 | | Controls - Vacuum Pump Power Supplies | SLAC | Control Acct |
| 1 | 03 | 02 | 10 | | | Software & Controls Infrastructure | SLAC | Summary |
| 1 | 03 | 02 | 10 | 01 | | Low Level Application Software | SLAC | Control Acct |
| 1 | 03 | 02 | 10 | 02 | | Software Utilities | SLAC | Control Acct |
| 1 | 03 | 02 | 10 | 03 | | Device Support | SLAC | Control Acct |
| 1 | 03 | 02 | 10 | 04 | | Data Communications | SLAC | Control Acct |
| 1 | 03 | 02 | 10 | 05 | | Computers | SLAC | Control Acct |
| 1 | 03 | 03 | | | | Linac Magnets & Supports | SLAC | Summary |
| 1 | 03 | 03 | 01 | | | Bend Magnet (BX1_BC1) | SLAC | Control Acct |
| 1 | 03 | 03 | 02 | | | Bend Magnet (BX3_LTU) | SLAC | Control Acct |
| 1 | 03 | 03 | 03 | | | Bend Magnet (BX2_BC2) | SLAC | Control Acct |
| 1 | 03 | 03 | 04 | | | Bend Magnet (BY_LTU) | SLAC | Control Acct |
| 1 | 03 | 03 | 05 | | | Quad Magnet (Quad_LTU) | SLAC | Control Acct |
| 1 | 03 | 03 | 06 | | | reserved | | |
| 1 | 03 | 03 | 07 | | | Quad Magnet (QE) | SLAC | Control Acct |
| 1 | 03 | 03 | 08 | | | Corrector Magnet (Type 4) | SLAC | Control Acct |
| 1 | 03 | 03 | 09 | | | Bend Magnet (BYD_LTU) | SLAC | Control Acct |
| 1 | 03 | 03 | 10 | | | Quad Magnet (QA) | SLAC | Control Acct |
| 1 | 03 | 03 | 11 | | | Bend Magnet (BYPM_LTU) | SLAC | Control Acct |
| 1 | 03 | 03 | 12 | | | Bend Magnet (BYKIK_LTU) | SLAC | Control Acct |
| 1 | 03 | 03 | 13 | | | Bend Magnet (BYW_LTU) | SLAC | Control Acct |
| 1 | 03 | 04 | | | | Linac Vacuum Subsystem | SLAC | Summary |
| 1 | 03 | 04 | 01 | | | reserved | | |
| 1 | 03 | 04 | 02 | | | Linac Beamline Vacuum System | SLAC | Control Acct |
| 1 | 03 | 04 | 03 | | | BC1 Vacuum System | SLAC | Control Acct |
| 1 | 03 | 04 | 04 | | | BC2 Vacuum System | SLAC | Control Acct |
| 1 | 03 | 04 | 05 | | | Linac to Undulator (LTU) Vacuum System | SLAC | Control Acct |
| 1 | 03 | 04 | 06 | | | Dumpline Vacuum System | SLAC | Control Acct |
| 1 | 03 | 05 | | | | Linac Electron Diagnostics | SLAC | Summary |
| 1 | 03 | 05 | 01 | | | Wire Scanners (15) | SLAC | Control Acct |
| 1 | 03 | 05 | 02 | | | Beam Position Monitors | SLAC | Summary |
| 1 | 03 | 05 | 02 | 01 | | BPMs - Linac Standard (6ea) | SLAC | Control Acct |
| 1 | 03 | 05 | 02 | 02 | | BPMs - RF (8ea) | SLAC | Control Acct |
| 1 | 03 | 05 | 02 | 03 | | BPMs - FFTB (9ea) | SLAC | Control Acct |
| 1 | 03 | 05 | 02 | 04 | | BPMs - High Resolution BC1 (3ea) | SLAC | Control Acct |
| 1 | 03 | 05 | 03 | | | Toroids (9ea) Beam Charge | SLAC | Control Acct |
| 1 | 03 | 05 | 04 | | | Stoppers TU Dump (2ea) | SLAC | Control Acct |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|---|---|------|-------------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 03 | 05 | 05 | | | Profile Monitors (6/4/1 ea) | SLAC | Control Acct |
| 1 | 03 | 05 | 06 | | | E/O Bunch Length Monitors (1ea) | SLAC | Control Acct |
| 1 | 03 | 05 | 07 | | | Bunch Length Monitors (4ea) | SLAC | Control Acct |
| 1 | 03 | 05 | 08 | | | Beam Loss Monitors | SLAC | Summary |
| 1 | 03 | 05 | 08 | 01 | | Beam Loss Monitors (10 PIC) | SLAC | Control Acct |
| 1 | 03 | 05 | 08 | 02 | | Beam Loss Monitors (2 PLIC) | SLAC | Control Acct |
| 1 | 03 | 05 | 09 | | | Single Beam Dump (1ea) | SLAC | Control Acct |
| 1 | 03 | 05 | 10 | | | Electron Beam Dump (1ea) | SLAC | Control Acct |
| 1 | 03 | 05 | 11 | | | Protection Collimators (4ea) | SLAC | Control Acct |
| 1 | 03 | 05 | 12 | | | Movable Collimators (6ea) | SLAC | Control Acct |
| 1 | 03 | 05 | 13 | | | Safety Dump | SLAC | Control Acct |
| 1 | 03 | 06 | | | | Linac RF Subsystem | SLAC | Summary |
| 1 | 03 | 06 | 01 | | | reserved | | |
| 1 | 03 | 06 | 02 | | | S-Band High Power System | SLAC | Control Acct |
| 1 | 03 | 06 | 03 | | | S-Band Structures | SLAC | Control Acct |
| 1 | 03 | 06 | 04 | | | X-Band Low Level System | SLAC | Control Acct |
| 1 | 03 | 06 | 05 | | | X-Band High Power System | SLAC | Summary |
| 1 | 03 | 06 | 05 | 01 | | X-Band HP Klystron | SLAC | Control Acct |
| 1 | 03 | 06 | 05 | 02 | | X-Band HP Modulator | SLAC | Control Acct |
| 1 | 03 | 06 | 05 | 03 | | X-Band HP Waveguide System | SLAC | Control Acct |
| 1 | 03 | 06 | 06 | | | X-Band Structures | SLAC | Control Acct |
| 1 | 03 | 06 | 07 | | | RF Distribution System | SLAC | Summary |
| 1 | 03 | 06 | 07 | 01 | | Modulator Refurbishment | SLAC | Control Acct |
| 1 | 03 | 06 | 07 | 02 | | Solid State Sub Booster | SLAC | Control Acct |
| 1 | 03 | 06 | 07 | 03 | | IPA Modifications | SLAC | Control Acct |
| 1 | 03 | 06 | 07 | 04 | | Klystron Controls Interfaces | SLAC | Control Acct |
| 1 | 03 | 06 | 07 | 05 | | Bunch Length Electronics | SLAC | Control Acct |
| 1 | 03 | 06 | 07 | 06 | | RF Phase Measurements | SLAC | Control Acct |
| 1 | 03 | 06 | 07 | 07 | | RF Distribution L2 & L3 | SLAC | Control Acct |
| 1 | 03 | 06 | 07 | 08 | | RF Fiber Optics Electronics System | SLAC | Control Acct |
| 1 | 03 | 06 | 07 | 09 | | RF Stability | SLAC | Control Acct |
| 1 | 03 | 07 | | | | Linac Installation & Alignment | SLAC | Summary |
| 1 | 03 | 07 | 01 | | | Linac L01 System Installation & Alignment | SLAC | Control Acct |
| 1 | 03 | 07 | 02 | | | Linac BC1 System Installation & Alignment | SLAC | Control Acct |
| 1 | 03 | 07 | 03 | | | Linac L02 System Installation & Alignment | SLAC | Control Acct |
| 1 | 03 | 07 | 04 | | | Linac BC2 System Installation & Alignment | SLAC | Control Acct |
| 1 | 03 | 07 | 05 | | | Linac L03 System Installation & Alignment | SLAC | Control Acct |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|----------|-----------|----|----|----|----|--|------------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 03 | 07 | 06 | | | Linac LTU System Installation & Alignment | SLAC | Control Acct |
| 1 | 03 | 07 | 07 | | | Linac E-Dump System Installation & Alignment | SLAC | Control Acct |
| 1 | 04 | | | | | UNDULATOR SYSTEM | ANL | Summary |
| 1 | 04 | 01 | | | | Undulator System Management & Integration | ANL | Summary |
| 1 | 04 | 01 | 01 | | | Undulator System Management | ANL | Summary |
| 1 | 04 | 01 | 01 | 01 | | Undulator System Management (Technical) | ANL | Control Acct |
| 1 | 04 | 01 | 01 | 02 | | ANL Project Support | ANL | Control Acct |
| 1 | 04 | 01 | 02 | | | Undulator System Materials & Supplies | ANL | Summary |
| 1 | 04 | 01 | 02 | 01 | | Undulator System M&S - General | ANL | Control Acct |
| 1 | 04 | 01 | 02 | 02 | | Undulator System Travel | ANL | Control Acct |
| 1 | 04 | 01 | 03 | | | Undulator System Reviews and Workshops | ANL | Control Acct |
| 1 | 04 | 02 | | | | Controls | ANL | Summary |
| 1 | 04 | 02 | 01 | | | Controls Management and Integration | ANL | Summary |
| 1 | 04 | 02 | 01 | 01 | | reserved | | |
| 1 | 04 | 02 | 01 | 02 | | reserved | | |
| 1 | 04 | 02 | 01 | 03 | | Software Interface with SLAC | ANL | Control Acct |
| 1 | 04 | 02 | 01 | 04 | | reserved | | |
| 1 | 04 | 02 | 02 | | | Motion | ANL | Summary |
| 1 | 04 | 02 | 02 | 01 | | Fine Motion | ANL | Control Acct |
| 1 | 04 | 02 | 02 | 01 | 01 | Motor Interface | ANL | |
| 1 | 04 | 02 | 02 | 01 | 02 | Encoder Interface | ANL | |
| 1 | 04 | 02 | 02 | 01 | 03 | Motor Driver | ANL | |
| 1 | 04 | 02 | 02 | 01 | 04 | Cabling | ANL | |
| 1 | 04 | 02 | 02 | 01 | 05 | Integrate components | ANL | |
| 1 | 04 | 02 | 02 | 02 | | Phase Corrector Motion | ANL | Control Acct |
| 1 | 04 | 02 | 02 | 02 | 01 | Motor Interface | ANL | |
| 1 | 04 | 02 | 02 | 02 | 02 | reserved | | |
| 1 | 04 | 02 | 02 | 02 | 03 | reserved | | |
| 1 | 04 | 02 | 02 | 02 | 04 | Cabling | ANL | |
| 1 | 04 | 02 | 02 | 02 | 05 | Integrate components | ANL | |
| 1 | 04 | 02 | 02 | 03 | | reserved | | |
| 1 | 04 | 02 | 02 | 04 | | reserved | | |
| 1 | 04 | 02 | 02 | 05 | | reserved | | |
| 1 | 04 | 02 | 02 | 06 | | Scanning Wire Motion | ANL | Control Acct |
| 1 | 04 | 02 | 02 | 06 | 01 | Motor Interface | ANL | |
| 1 | 04 | 02 | 02 | 06 | 02 | reserved | | |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|----|---------------------------|-----|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 04 | 02 | 02 | 06 | 03 | reserved | | |
| 1 | 04 | 02 | 02 | 06 | 04 | reserved | | |
| 1 | 04 | 02 | 02 | 06 | 05 | Integrate components | ANL | |
| 1 | 04 | 02 | 02 | 07 | | Macroscopic Motion | ANL | Control Acct |
| 1 | 04 | 02 | 02 | 07 | 01 | Motor Interface | ANL | |
| 1 | 04 | 02 | 02 | 07 | 02 | reserved | | |
| 1 | 04 | 02 | 02 | 07 | 03 | Motor Driver | ANL | |
| 1 | 04 | 02 | 02 | 07 | 04 | Cabling | ANL | |
| 1 | 04 | 02 | 02 | 07 | 05 | Integrate components | ANL | |
| 1 | 04 | 02 | 03 | | | Signal Analysis | ANL | Summary |
| 1 | 04 | 02 | 03 | 01 | | RFBPM | ANL | Control Acct |
| 1 | 04 | 02 | 03 | 01 | 01 | reserved | | |
| 1 | 04 | 02 | 03 | 01 | 02 | Signal Acquisition | ANL | |
| 1 | 04 | 02 | 03 | 01 | 03 | Timing interface | ANL | |
| 1 | 04 | 02 | 03 | 01 | 04 | Cabling | ANL | |
| 1 | 04 | 02 | 03 | 01 | 05 | Integrate components | ANL | |
| 1 | 04 | 02 | 03 | 02 | | Charge Monitor | ANL | Control Acct |
| 1 | 04 | 02 | 03 | 02 | 01 | reserved | | |
| 1 | 04 | 02 | 03 | 02 | 02 | reserved | | |
| 1 | 04 | 02 | 03 | 02 | 03 | Integrate components | ANL | |
| 1 | 04 | 02 | 03 | 03 | | Scanning Wire | ANL | Control Acct |
| 1 | 04 | 02 | 03 | 03 | 01 | reserved | | |
| 1 | 04 | 02 | 03 | 03 | 02 | reserved | | |
| 1 | 04 | 02 | 03 | 03 | 03 | reserved | | |
| 1 | 04 | 02 | 03 | 03 | 04 | reserved | | |
| 1 | 04 | 02 | 03 | 03 | 05 | reserved | | |
| 1 | 04 | 02 | 03 | 03 | 06 | Integrate components | ANL | |
| 1 | 04 | 02 | 04 | | | Video | ANL | Summary |
| 1 | 04 | 02 | 04 | 01 | | OTR Monitor | ANL | Control Acct |
| 1 | 04 | 02 | 04 | 01 | 01 | Camera | ANL | |
| 1 | 04 | 02 | 04 | 01 | 02 | Camera trigger interface | ANL | |
| 1 | 04 | 02 | 04 | 01 | 03 | Digitizer | ANL | |
| 1 | 04 | 02 | 04 | 01 | 04 | Timing interface | ANL | |
| 1 | 04 | 02 | 04 | 01 | 05 | Cabling | ANL | |
| 1 | 04 | 02 | 04 | 01 | 06 | Integrate components | ANL | |
| 1 | 04 | 02 | 04 | 02 | | reserved | | |
| 1 | 04 | 02 | 04 | 03 | | Observation station video | ANL | Control Acct |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|----|---|-----|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 04 | 02 | 04 | 03 | 01 | Camera | ANL | |
| 1 | 04 | 02 | 04 | 03 | 02 | Camera trigger interface | ANL | |
| 1 | 04 | 02 | 04 | 03 | 03 | Multiplexor | ANL | |
| 1 | 04 | 02 | 04 | 03 | 04 | Cabling | ANL | |
| 1 | 04 | 02 | 04 | 03 | 05 | Integrate components | ANL | |
| 1 | 04 | 02 | 05 | | | Data Acquisition and Control | ANL | Summary |
| 1 | 04 | 02 | 05 | 01 | | Strongback Temperature monitoring | ANL | Control Acct |
| 1 | 04 | 02 | 05 | 01 | 01 | Integrate components | ANL | |
| 1 | 04 | 02 | 06 | | | Vacuum | ANL | Summary |
| 1 | 04 | 02 | 06 | 01 | | Ion Pump Controller | ANL | Control Acct |
| 1 | 04 | 02 | 06 | 01 | 01 | Integrate components | ANL | |
| 1 | 04 | 02 | 06 | 02 | | reserved | | |
| 1 | 04 | 02 | 06 | 03 | | reserved | | |
| 1 | 04 | 02 | 06 | 04 | | RGA | ANL | Control Acct |
| 1 | 04 | 02 | 06 | 04 | 01 | Integrate components | ANL | |
| 1 | 04 | 02 | 07 | | | Machine Protection | ANL | Summary |
| 1 | 04 | 02 | 07 | 01 | | Undulator Global MPS | ANL | Control Acct |
| 1 | 04 | 02 | 07 | 01 | 01 | Hardware design | ANL | |
| 1 | 04 | 02 | 07 | 01 | 02 | Interface components | ANL | |
| 1 | 04 | 02 | 07 | 02 | | Cerenkov Detector | ANL | Control Acct |
| 1 | 04 | 02 | 07 | 02 | 01 | Signal interface | ANL | |
| 1 | 04 | 02 | 07 | 03 | | Gamma Ray Detector | ANL | Control Acct |
| 1 | 04 | 02 | 07 | 03 | 01 | Signal interface | ANL | |
| 1 | 04 | 02 | 07 | 04 | | Chamber Temperature | ANL | Control Acct |
| 1 | 04 | 02 | 07 | 04 | 01 | Signal interface | ANL | |
| 1 | 04 | 03 | | | | Undulator Magnet & Support | ANL | Summary |
| 1 | 04 | 03 | 01 | | | UND Magnet & Support - Mgmt and Integration | ANL | Control Acct |
| 1 | 04 | 03 | 02 | | | First Prototype Undulator & Mfg Plan | ANL | Control Acct |
| 1 | 04 | 03 | 03 | | | 1st Article Undulators & Long Lead Procurements | ANL | Summary |
| 1 | 04 | 03 | 03 | 01 | | Ti Strongback (LLP) | ANL | Control Acct |
| 1 | 04 | 03 | 03 | 02 | | Magnet Blocks (LLP) | ANL | Control Acct |
| 1 | 04 | 03 | 03 | 03 | | Magnet Poles (LLP) | ANL | Control Acct |
| 1 | 04 | 03 | 03 | 04 | | Magnet Assembly & Supports - 1st Articles | ANL | Control Acct |
| 1 | 04 | 03 | 03 | 05 | | Magnetic Measurement (ANL or SLAC) | ANL | Control Acct |
| 1 | 04 | 03 | 04 | | | Production Undulator | ANL | Summary |
| 1 | 04 | 03 | 04 | 01 | | Magnet Assembly & Supports | ANL | Control Acct |
| 1 | 04 | 03 | 04 | 02 | | reserved | | |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|----|--|------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 04 | 03 | 05 | | | Focusing Magnets | ANL | Summary |
| 1 | 04 | 03 | 05 | 01 | | Quadrupoles | ANL | Control Acct |
| 1 | 04 | 03 | 05 | 02 | | reserved | | |
| 1 | 04 | 03 | 06 | | | Undulator Magnetic Measurement Facility (SLAC) | SLAC | Summary |
| 1 | 04 | 03 | 06 | 01 | | Undulator MMF Setup | SLAC | Control Acct |
| 1 | 04 | 03 | 06 | 01 | 01 | Undulator Test Stand Prototype | SLAC | |
| 1 | 04 | 03 | 06 | 01 | 02 | X-ray Diagnostics Fiducialization Test Stand | SLAC | |
| 1 | 04 | 03 | 06 | 01 | 03 | BPM Fiducialization Test Stand | SLAC | |
| 1 | 04 | 03 | 06 | 01 | 04 | Undulator Test Stand | SLAC | |
| 1 | 04 | 03 | 06 | 01 | 05 | Undulator Fiducialization | SLAC | |
| 1 | 04 | 03 | 06 | 01 | 06 | Quad Strength and Field Quality | SLAC | |
| 1 | 04 | 03 | 06 | 01 | 07 | Quad Fiducialization System | SLAC | |
| 1 | 04 | 03 | 06 | 01 | 08 | Hall Probe Calibration System | SLAC | |
| 1 | 04 | 03 | 06 | 01 | 09 | Undulator Handling | SLAC | |
| 1 | 04 | 03 | 06 | 02 | | Fiducialization and Magnetic Measurements (F/MM) | SLAC | Control Acct |
| 1 | 04 | 03 | 06 | 02 | 01 | F/MM Undulator Magnet Sections | SLAC | |
| 1 | 04 | 03 | 06 | 02 | 02 | F/MM Quadrupoles | SLAC | |
| 1 | 04 | 03 | 06 | 02 | 03 | F/MM BPMs | SLAC | |
| 1 | 04 | 03 | 06 | 02 | 04 | F/MM Correctors | SLAC | |
| 1 | 04 | 03 | 06 | 02 | 05 | F/MM Vacuum Chamber | SLAC | |
| 1 | 04 | 03 | 06 | 02 | 06 | F/MM Photon Diagnostics Components | SLAC | |
| 1 | 04 | 03 | 06 | 03 | | Undulator Monitoring | SLAC | Control Acct |
| 1 | 04 | 03 | 06 | 03 | 01 | Stretched Wire System | SLAC | |
| 1 | 04 | 03 | 06 | 03 | 02 | Hydrostatic Level System | SLAC | |
| 1 | 04 | 03 | 07 | | | reserved | | |
| 1 | 04 | 03 | 08 | | | Fixed Supports | SLAC | Summary |
| 1 | 04 | 03 | 08 | 01 | | Fixed Spt Mgmt & Integration | SLAC | Control Acct |
| 1 | 04 | 03 | 08 | 02 | | Fixed Support Design | SLAC | Control Acct |
| 1 | 04 | 03 | 08 | 03 | | Stabilized Girder Assemblies | SLAC | Control Acct |
| 1 | 04 | 03 | 08 | 04 | | Thermal Intercept System | SLAC | Control Acct |
| 1 | 04 | 03 | 08 | 05 | | Thermometry | SLAC | Control Acct |
| 1 | 04 | 03 | 08 | 06 | | Kinematic Girder Support | SLAC | Control Acct |
| 1 | 04 | 03 | 08 | 07 | | Earthquake Bracing | SLAC | Control Acct |
| 1 | 04 | 03 | 08 | 08 | | Controls and Software | SLAC | Control Acct |
| 1 | 04 | 04 | | | | Vacuum System | ANL | Summary |
| 1 | 04 | 04 | 01 | | | Project Oversight | ANL | Control Acct |
| 1 | 04 | 04 | 02 | | | Undulator Vacuum Chamber Assembly | ANL | Summary |

**LCLS Work Breakdown Structure
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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|---|--|-----|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 04 | 04 | 02 | 01 | | Prototype Chamber Weldment | ANL | Control Acct |
| 1 | 04 | 04 | 02 | 02 | | Production Chamber Weldment | ANL | Control Acct |
| 1 | 04 | 04 | 03 | | | Beam-line Bellows Module Assembly | ANL | Summary |
| 1 | 04 | 04 | 03 | 01 | | Prototype Bellows Module | ANL | Control Acct |
| 1 | 04 | 04 | 03 | 02 | | Production Bellows Module | ANL | Control Acct |
| 1 | 04 | 04 | 04 | | | reserved | | |
| 1 | 04 | 04 | 05 | | | Short Diagnostic Break (SDB) Assembly | ANL | Control Acct |
| 1 | 04 | 04 | 06 | | | Long Diagnostic Break (LDB) Assembly | ANL | Control Acct |
| 1 | 04 | 04 | 07 | | | Entrance Section Assembly | ANL | Control Acct |
| 1 | 04 | 04 | 08 | | | Exit Section Assembly | ANL | Control Acct |
| 1 | 04 | 04 | 09 | | | Baking System | ANL | Control Acct |
| 1 | 04 | 05 | | | | Diagnostics | ANL | Summary |
| 1 | 04 | 05 | 01 | | | Project Oversight | ANL | Control Acct |
| 1 | 04 | 05 | 02 | | | E-Beam and X-Ray Profile Diagnostics | ANL | Summary |
| 1 | 04 | 05 | 02 | 01 | | EBXPD Test Station | ANL | Control Acct |
| 1 | 04 | 05 | 02 | 02 | | EBXPD Vacuum Chamber | ANL | Control Acct |
| 1 | 04 | 05 | 02 | 03 | | Positioning Mechanism | ANL | Control Acct |
| 1 | 04 | 05 | 02 | 04 | | Scanning wire assembly (EBXPD -SWA) | ANL | Control Acct |
| 1 | 04 | 05 | 02 | 05 | | Optical transition radiation imaging assembly | ANL | Control Acct |
| 1 | 04 | 05 | 02 | 06 | | reserved | | |
| 1 | 04 | 05 | 02 | 07 | | reserved | | |
| 1 | 04 | 05 | 02 | 08 | | reserved | | |
| 1 | 04 | 05 | 02 | 09 | | EBXPD Design & Integration | ANL | Control Acct |
| 1 | 04 | 05 | 03 | | | reserved | | |
| 1 | 04 | 05 | 04 | | | End-of-Undulator(EOU) X-ray and Profile diagnost | ANL | Summary |
| 1 | 04 | 05 | 04 | 01 | | Prototype Construction and Testing | ANL | Control Acct |
| 1 | 04 | 05 | 04 | 02 | | Bunch Length Monitor-Streak Camera (BLM) | ANL | Control Acct |
| 1 | 04 | 05 | 04 | 03 | | Upstream corrector / separator | ANL | Control Acct |
| 1 | 04 | 05 | 04 | 04 | | Optical Diffraction radiation imaging assembly (| ANL | Control Acct |
| 1 | 04 | 05 | 04 | 05 | | X-ray High Resolution monochromator assembly (EO | ANL | Control Acct |
| 1 | 04 | 05 | 04 | 06 | | X-ray Imaging High Resolution detector assembly | ANL | Control Acct |
| 1 | 04 | 05 | 04 | 07 | | EOU Design and Integration | ANL | Control Acct |
| 1 | 04 | 05 | 05 | | | RFBPM | ANL | Control Acct |
| 1 | 04 | 05 | 06 | | | Standard BPM | ANL | Control Acct |
| 1 | 04 | 05 | 07 | | | Charge Monitor (CM) | ANL | Control Acct |
| 1 | 04 | 05 | 08 | | | Cherenkov Detector | ANL | Control Acct |
| 1 | 04 | 05 | 09 | | | Radiation Detection Monitor (RDM) | ANL | Control Acct |

**LCLS Work Breakdown Structure
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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|-----------|----|----|----|---|--|-------------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 04 | 05 | 10 | | | Chamber Temperature Sensor Assembly (TSA) | ANL | Control Acct |
| 1 | 04 | 05 | 11 | | | Supplemental Shielding | ANL | Control Acct |
| 1 | 04 | 06 | | | | Undulator System Installation and Alignment | SLAC | Summary |
| 1 | 04 | 06 | 01 | | | Undulator System Installation and Alignment Inte | SLAC | Summary |
| 1 | 04 | 06 | 01 | 01 | | Undulator System | SLAC | Control Acct |
| 1 | 04 | 06 | 01 | 02 | | Entrance Section | SLAC | Control Acct |
| 1 | 04 | 06 | 01 | 03 | | Exit Section | SLAC | Control Acct |
| 1 | 04 | 06 | 02 | | | Control System Installation and Alignment | SLAC | Control Acct |
| 1 | 04 | 06 | 03 | | | Magnets & Supports Installation and Alignment | SLAC | Summary |
| 1 | 04 | 06 | 03 | 01 | | Magnets Installation and Alignment | SLAC | Control Acct |
| 1 | 04 | 06 | 03 | 02 | | Fixed Supports Installation and Alignment | SLAC | Control Acct |
| 1 | 04 | 06 | 04 | | | Vacuum System Installation and Alignment | SLAC | Control Acct |
| 1 | 04 | 06 | 05 | | | Diagnostics System Installation and Alignment | SLAC | Control Acct |
| 1 | 05 | | | | | X-RAY TRANSPORT & DIAGNOSTICS SYSTEMS | LLNL | Summary |
| 1 | 05 | 01 | | | | System Management & Integration | LLNL | Summary |
| 1 | 05 | 01 | 01 | | | Management | LLNL | Summary |
| 1 | 05 | 01 | 01 | 01 | | XTOD Management (Technical) | LLNL | Control Acct |
| 1 | 05 | 01 | 01 | 02 | | LLNL Project Support | LLNL | Control Acct |
| 1 | 05 | 02 | | | | Controls | LLNL | Summary |
| 1 | 05 | 02 | 01 | | | Controls Engineering | LLNL | Control Acct |
| 1 | 05 | 02 | 02 | | | Slow Controls | LLNL | Control Acct |
| 1 | 05 | 02 | 03 | | | Fast Controls | LLNL | Control Acct |
| 1 | 05 | 02 | 04 | | | Femto Controls | LLNL | Control Acct |
| 1 | 05 | 03 | | | | Mechanical & Vacuum Subsystem | LLNL | Summary |
| 1 | 05 | 03 | 01 | | | Vacuum Systems Engineering | LLNL | Control Acct |
| 1 | 05 | 03 | 02 | | | Mech/Vac Front End | LLNL | Control Acct |
| 1 | 05 | 03 | 03 | | | Mech/Vac Near Hall | LLNL | Summary |
| 1 | 05 | 03 | 03 | 01 | | NEH Hutch 1 | LLNL | Control Acct |
| 1 | 05 | 03 | 03 | 02 | | NEH Hutch 2 | LLNL | Control Acct |
| 1 | 05 | 03 | 03 | 03 | | NEH Hutch 3 | LLNL | Control Acct |
| 1 | 05 | 03 | 04 | | | Mech/Vac Tunnel | LLNL | Control Acct |
| 1 | 05 | 03 | 05 | | | Mech/Vac Far Hall | LLNL | Summary |
| 1 | 05 | 03 | 05 | 01 | | FEH Hutch 1 | LLNL | Control Acct |
| 1 | 05 | 03 | 05 | 02 | | FEH Hutch 2 | LLNL | Control Acct |
| 1 | 05 | 03 | 05 | 03 | | FEH Hutch 3 | LLNL | Control Acct |
| 1 | 05 | 04 | | | | Optical Subsystem | LLNL | Summary |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|---|---------------------------------|------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 05 | 04 | 01 | | | Optical Systems Engineering | LLNL | Control Acct |
| 1 | 05 | 04 | 02 | | | Facility Optics | LLNL | Summary |
| 1 | 05 | 04 | 02 | 01 | | Facility Optics Engineering | LLNL | Control Acct |
| 1 | 05 | 04 | 02 | 02 | | Fixed Mask | LLNL | Control Acct |
| 1 | 05 | 04 | 02 | 03 | | Slit/Collimators | LLNL | Control Acct |
| 1 | 05 | 04 | 02 | 04 | | Flipper Mirror | LLNL | Control Acct |
| 1 | 05 | 04 | 02 | 05 | | Gas Attenuator | LLNL | Control Acct |
| 1 | 05 | 04 | 02 | 06 | | Controls | LLNL | Control Acct |
| 1 | 05 | 04 | 02 | 07 | | Local Apertures | LLNL | Control Acct |
| 1 | 05 | 04 | 02 | 08 | | Solid Attenuator | LLNL | Control Acct |
| 1 | 05 | 04 | 02 | 09 | | Low Energy Mirror System | LLNL | Control Acct |
| 1 | 05 | 04 | 03 | | | End Station Optics | LLNL | Summary |
| 1 | 05 | 04 | 03 | 01 | | End Station Optics Engineering | LLNL | Control Acct |
| 1 | 05 | 04 | 03 | 02 | | Optics Tank - Near Hall | LLNL | Control Acct |
| 1 | 05 | 04 | 03 | 03 | | Optics Tank - Far Hall | LLNL | Control Acct |
| 1 | 05 | 04 | 03 | 04 | | K-B Focusing System | LLNL | Control Acct |
| 1 | 05 | 04 | 03 | 05 | | Refractive Focusing System | LLNL | Control Acct |
| 1 | 05 | 04 | 04 | | | Crystals & Gratings | LLNL | Summary |
| 1 | 05 | 04 | 04 | 01 | | Crystals & Gratings Engineering | LLNL | Control Acct |
| 1 | 05 | 04 | 04 | 02 | | System Monochrometer | LLNL | Control Acct |
| 1 | 05 | 04 | 04 | 03 | | Pulse Split & Delay | LLNL | Control Acct |
| 1 | 05 | 05 | | | | Diagnostics Subsystem | LLNL | Summary |
| 1 | 05 | 05 | 01 | | | Diagnostic Systems Engineering | LLNL | Summary |
| 1 | 05 | 05 | 01 | 01 | | Diagnostic Systems Engineering | LLNL | Control Acct |
| 1 | 05 | 05 | 02 | | | Modeling & Simulation | LLNL | Summary |
| 1 | 05 | 05 | 02 | 01 | | Wave Model | LLNL | Control Acct |
| 1 | 05 | 05 | 02 | 02 | | Monte Carlo Model | LLNL | Control Acct |
| 1 | 05 | 05 | 03 | | | Facility Diagnostics | LLNL | Summary |
| 1 | 05 | 05 | 03 | 01 | | Direct Imager | LLNL | Control Acct |
| 1 | 05 | 05 | 03 | 02 | | Indirect Imager | LLNL | Control Acct |
| 1 | 05 | 05 | 03 | 03 | | Pulsed Ion Chamber | LLNL | Control Acct |
| 1 | 05 | 05 | 03 | 04 | | Gas Mixing System | LLNL | Control Acct |
| 1 | 05 | 05 | 03 | 05 | | FEE Diagnostic Tanks | LLNL | Control Acct |
| 1 | 05 | 05 | 03 | 06 | | Ion Pumped Diagnostic Tanks | LLNL | Control Acct |

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(TEC and OPC)**

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|---|---|-------------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 05 | 05 | 04 | | | Commissioning Diagnostics | LLNL | Summary |
| 1 | 05 | 05 | 04 | 01 | | Commission Diagnostic Tank | LLNL | Control Acct |
| 1 | 05 | 05 | 04 | 02 | | Total Energy Measurement | LLNL | Control Acct |
| 1 | 05 | 05 | 04 | 03 | | Pulse Length Measurement | LLNL | Control Acct |
| 1 | 05 | 05 | 04 | 04 | | Spectral Measurement | LLNL | Control Acct |
| 1 | 05 | 05 | 04 | 05 | | Spatial Coherence | LLNL | Control Acct |
| 1 | 05 | 05 | 04 | 06 | | Spatial Shape & Centroid Measurement | LLNL | Control Acct |
| 1 | 05 | 05 | 04 | 07 | | Divergence Measurement | LLNL | Control Acct |
| 1 | 05 | 06 | | | | X-Ray Transport System Installation & Alignment | LLNL | Summary |
| 1 | 05 | 06 | 01 | | | Front End Enclosure Install | LLNL | Control Acct |
| 1 | 05 | 06 | 02 | | | Near Hall Install | LLNL | Control Acct |
| 1 | 05 | 06 | 03 | | | Tunnel Install | LLNL | Control Acct |
| 1 | 05 | 06 | 04 | | | Far Hall Install | LLNL | Control Acct |
| 1 | 06 | | | | | X-RAY END STATION SYSTEMS | SLAC | Summary |
| 1 | 06 | 01 | | | | System Management & Integration | SLAC | Summary |
| 1 | 06 | 01 | 01 | | | Management | SLAC | Control Acct |
| 1 | 06 | 02 | | | | Controls Subsystem | SLAC | Summary |
| 1 | 06 | 02 | 01 | | | Cabling | SLAC | Summary |
| 1 | 06 | 02 | 01 | 01 | | Front End Enclosure Cable | SLAC | Control Acct |
| 1 | 06 | 02 | 01 | 02 | | Near Hall Cable | SLAC | Control Acct |
| 1 | 06 | 02 | 01 | 03 | | Tunnel Cable | SLAC | Control Acct |
| 1 | 06 | 02 | 01 | 04 | | Far Hall Cable | SLAC | Control Acct |
| 1 | 06 | 02 | 02 | | | Network | SLAC | Control Acct |
| 1 | 06 | 02 | 03 | | | PC Support | SLAC | Control Acct |
| 1 | 06 | 02 | 04 | | | Beamline Controls | SLAC | Control Acct |
| 1 | 06 | 02 | 05 | | | X-Ray PPS | SLAC | Summary |
| 1 | 06 | 02 | 05 | 01 | | FEE X-Ray PPS | SLAC | Control Acct |
| 1 | 06 | 02 | 05 | 02 | | Near Hall X-Ray PPS | SLAC | Control Acct |
| 1 | 06 | 02 | 05 | 03 | | Tunnel X-Ray PPS | SLAC | Control Acct |
| 1 | 06 | 02 | 05 | 04 | | Far Hall X-Ray PPS | SLAC | Control Acct |
| 1 | 06 | 02 | 06 | | | X-Ray MPS | SLAC | Summary |
| 1 | 06 | 02 | 06 | 01 | | FEE X-Ray MPS | SLAC | Control Acct |
| 1 | 06 | 02 | 06 | 02 | | Near Hall X-Ray MPS | SLAC | Control Acct |
| 1 | 06 | 02 | 06 | 03 | | Tunnel X-Ray MPS | SLAC | Control Acct |
| 1 | 06 | 02 | 06 | 04 | | Far Hall X-Ray MPS | SLAC | Control Acct |
| 1 | 06 | 02 | 07 | | | Laser PPS | SLAC | Summary |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|---|------------------------------------|------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 06 | 02 | 07 | 01 | | Near Hall Laser PPS | SLAC | Control Acct |
| 1 | 06 | 02 | 07 | 02 | | Far Hall Laser PPS | SLAC | Control Acct |
| 1 | 06 | 02 | 08 | | | User Safeguards | SLAC | Summary |
| 1 | 06 | 02 | 08 | 01 | | Near Hall User Safeguards | SLAC | Control Acct |
| 1 | 06 | 02 | 08 | 02 | | Far Hall User Safeguards | SLAC | Control Acct |
| 1 | 06 | 03 | | | | Mechanical/Vacuum Subsystem | SLAC | Summary |
| 1 | 06 | 03 | 01 | | | Chamber Support Tables - Mech/Vac | SLAC | Control Acct |
| 1 | 06 | 03 | 02 | | | Vacuum Components - Mech/Vac | SLAC | Summary |
| 1 | 06 | 03 | 02 | 01 | | Valves - Vacuum | SLAC | Control Acct |
| 1 | 06 | 03 | 02 | 02 | | Hardware - Vacuum | SLAC | Control Acct |
| 1 | 06 | 03 | 02 | 03 | | Ion Pump - Vacuum | SLAC | Control Acct |
| 1 | 06 | 03 | 02 | 04 | | Turbo Pump - Vacuum | SLAC | Control Acct |
| 1 | 06 | 03 | 02 | 05 | | Gauges - Vacuum | SLAC | Control Acct |
| 1 | 06 | 03 | 03 | | | Experimental Chambers | SLAC | Summary |
| 1 | 06 | 03 | 03 | 01 | | Near Hall Experimental Chamber | SLAC | Control Acct |
| 1 | 06 | 03 | 03 | 02 | | Far Hall Experimental Chamber | SLAC | Control Acct |
| 1 | 06 | 04 | | | | Laser Subsystem | SLAC | Summary |
| 1 | 06 | 04 | 01 | | | Oscillator Laser & Pump | SLAC | Summary |
| 1 | 06 | 04 | 01 | 01 | | Near Hall Oscillator Laser & Pump | SLAC | Control Acct |
| 1 | 06 | 04 | 01 | 02 | | Far Hall Oscillator Laser & Pump | SLAC | Control Acct |
| 1 | 06 | 04 | 02 | | | Laser Diagnostics | SLAC | Control Acct |
| 1 | 06 | 04 | 03 | | | Laser Supplies & Optical Transport | SLAC | Control Acct |
| 1 | 06 | 04 | 04 | | | Laser Timing | SLAC | Control Acct |
| 1 | 06 | 04 | 05 | | | Laser Amplifiers | SLAC | Summary |
| 1 | 06 | 04 | 05 | 01 | | Near Hall Laser Amplifier | SLAC | Control Acct |
| 1 | 06 | 04 | 05 | 02 | | Far Hall Laser Amplifier | SLAC | Control Acct |
| 1 | 06 | 05 | | | | X-Ray Detectors | SLAC | Summary |
| 1 | 06 | 05 | 01 | | | Beam Imaging | SLAC | Control Acct |
| 1 | 06 | 05 | 02 | | | 2-D X-Ray Detector | SLAC | Control Acct |
| 1 | 06 | 05 | 03 | | | Beam Intensity | SLAC | Control Acct |
| 1 | 06 | 05 | 04 | | | Streak Camera | SLAC | Control Acct |
| 1 | 06 | 06 | | | | System Installation & Alignment | SLAC | Summary |
| 1 | 06 | 06 | 01 | | | Front End Install | SLAC | Control Acct |
| 1 | 06 | 06 | 02 | | | Near Hall Install | SLAC | Summary |
| 1 | 06 | 06 | 02 | 01 | | Near Hall Install Controls | SLAC | Control Acct |
| 1 | 06 | 06 | 02 | 02 | | Near Hall Install Mech/Vac | SLAC | Control Acct |
| 1 | 06 | 06 | 02 | 03 | | Near Hall Install Laser | SLAC | Control Acct |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|---|--|-------------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 06 | 06 | 02 | 04 | | Near Hall Install Detectors | SLAC | Control Acct |
| 1 | 06 | 06 | 02 | 05 | | Near Hall Install Atomic Physics | SLAC | Control Acct |
| 1 | 06 | 06 | 03 | | | Tunnel Install | SLAC | Control Acct |
| 1 | 06 | 06 | 04 | | | Far Hall Install | SLAC | Summary |
| 1 | 06 | 06 | 04 | 01 | | Far Hall Install Controls | SLAC | Control Acct |
| 1 | 06 | 06 | 04 | 02 | | Far Hall Install Mech/Vac | SLAC | Control Acct |
| 1 | 06 | 06 | 04 | 03 | | Far Hall Install Laser | SLAC | Control Acct |
| 1 | 06 | 06 | 04 | 04 | | Far Hall Install Detectors | SLAC | Control Acct |
| 1 | 06 | 06 | 04 | 05 | | Far Hall Install Atomic Physics | SLAC | Control Acct |
| 1 | 06 | 07 | | | | Atomic Physics | SLAC | Summary |
| 1 | 06 | 07 | 01 | | | Atomic Physics Samples | SLAC | Control Acct |
| 1 | 06 | 07 | 02 | | | Atomic Physics Diagnostics | SLAC | Control Acct |
| 1 | 06 | 07 | 03 | | | Atomic Physics Data Analysis | SLAC | Control Acct |
| 1 | 06 | 07 | 04 | | | Atomic Physics Detectors | SLAC | Control Acct |
| 1 | 07 | | | | | reserved | | |
| 1 | 08 | | | | | reserved | | |
| 1 | 09 | | | | | CONVENTIONAL FACILITIES | SLAC | Summary |
| 1 | 09 | 01 | | | | System Management & Integration | SLAC | Summary |
| 1 | 09 | 01 | 01 | | | Management | SLAC | Control Acct |
| 1 | 09 | 01 | 02 | | | Cost Account Managers | SLAC | Control Acct |
| 1 | 09 | 01 | 03 | | | Construction Management | SLAC | Control Acct |
| 1 | 09 | 01 | 04 | | | Mechanical Design (MD) | SLAC | Summary |
| 1 | 09 | 01 | 04 | 01 | | Mechanical Design Title 1 (Linac not included) | SLAC | Control Acct |
| 1 | 09 | 01 | 04 | 02 | | Mechanical Design T1 Linac Facilities | SLAC | |
| 1 | 09 | 01 | 04 | 03 | | Mechanical Design Title 2 (Linac not included) | SLAC | |
| 1 | 09 | 01 | 04 | 04 | | Mechanical Design T2 Linac Facilities | SLAC | |
| 1 | 09 | 01 | 04 | 05 | | Mechanical Design Title 3 Linac Facility | SLAC | |
| 1 | 09 | 01 | 04 | 06 | | Mechanical Design Title 3 (Linac not Included) | SLAC | |
| 1 | 09 | 01 | 05 | | | Site Engineering and Maintenance (SEM) | SLAC | Control Acct |
| 1 | 09 | 01 | 05 | 01 | | SEM Engineering Title 1(Linac Not Included) | SLAC | |
| 1 | 09 | 01 | 05 | 02 | | SEM Engineering Title 1 Linac Facility | SLAC | |
| 1 | 09 | 01 | 05 | 03 | | SEM Engineering Title 2 (Linac Not Included) | SLAC | |
| 1 | 09 | 01 | 05 | 04 | | SEM Design Linac Facility Title 2 | SLAC | |
| 1 | 09 | 02 | | | | Title 1 & Title 2 Conventional Facilities | SLAC | Summary |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|---|---|------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 09 | 02 | 01 | | | reserved | | |
| 1 | 09 | 02 | 02 | | | A & E Services (S20, MMF, MMC not Incl) | SLAC | Control Acct |
| 1 | 09 | 02 | 02 | 01 | | Title 1 Design | SLAC | |
| 1 | 09 | 02 | 02 | 02 | | Title 2 Design | SLAC | |
| 1 | 09 | 02 | 03 | | | A & E Services - (S20, MMF, MCC) | SLAC | Control Acct |
| 1 | 09 | 02 | 03 | 01 | | Title 1 Design (Sector 20) | SLAC | |
| 1 | 09 | 02 | 03 | 02 | | Title 2 Design (Sector 20) | SLAC | |
| 1 | 09 | 02 | 03 | 03 | | Title 1 Design (MMF) | SLAC | |
| 1 | 09 | 02 | 03 | 04 | | Title 2 Design (MMF) | SLAC | |
| 1 | 09 | 02 | 03 | 05 | | Title 1 Design (MCC) | SLAC | |
| 1 | 09 | 02 | 03 | 06 | | Title 2 Design (MCC) | SLAC | |
| 1 | 09 | 03 | | | | Construction-T3 Conventional Facilities | SLAC | Summary |
| 1 | 09 | 03 | 01 | | | Sector 20 Injector Facilities | SLAC | Control Acct |
| 1 | 09 | 03 | 01 | 01 | | Site Preparation | SLAC | |
| 1 | 09 | 03 | 01 | 02 | | Structural | SLAC | |
| 1 | 09 | 03 | 01 | 03 | | Electrical | SLAC | |
| 1 | 09 | 03 | 01 | 04 | | Utilities | SLAC | |
| 1 | 09 | 03 | 01 | 05 | | HVAC | SLAC | |
| 1 | 09 | 03 | 01 | 06 | | Special System - Fire Protection | SLAC | |
| 1 | 09 | 03 | 01 | 07 | | Interior | SLAC | |
| 1 | 09 | 03 | 01 | 10 | | Project Close Out Sector 20 Injector Facility | SLAC | |
| 1 | 09 | 03 | 02 | | | Magnetic Measurement Facility | SLAC | Control Acct |
| 1 | 09 | 03 | 02 | 01 | | Site Preparation | SLAC | |
| 1 | 09 | 03 | 02 | 02 | | Structural | SLAC | |
| 1 | 09 | 03 | 02 | 03 | | Electrical | SLAC | |
| 1 | 09 | 03 | 02 | 04 | | Utilities | SLAC | |
| 1 | 09 | 03 | 02 | 05 | | HVAC | SLAC | |
| 1 | 09 | 03 | 02 | 06 | | Special System - Fire Protection | SLAC | |
| 1 | 09 | 03 | 02 | 07 | | Interior | SLAC | |
| 1 | 09 | 03 | 02 | 10 | | Project Close Out Magnetic Measurement Facility | SLAC | |
| 1 | 09 | 03 | 03 | | | Main Control Center Facilities Upgrade | SLAC | Control Acct |
| 1 | 09 | 03 | 03 | 01 | | Site Preparation | SLAC | |
| 1 | 09 | 03 | 03 | 02 | | Structural | SLAC | |
| 1 | 09 | 03 | 03 | 03 | | Electrical | SLAC | |
| 1 | 09 | 03 | 03 | 04 | | Utilities | SLAC | |
| 1 | 09 | 03 | 03 | 05 | | HVAC | SLAC | |
| 1 | 09 | 03 | 03 | 06 | | Special System - Fire Protection | SLAC | |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|----|---|------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 09 | 03 | 03 | 07 | | Interior | SLAC | |
| 1 | 09 | 03 | 03 | 10 | | Project Close Out Main Control Center Facility | SLAC | |
| 1 | 09 | 03 | 04 | | | Linac Facility | SLAC | Control Acct |
| 1 | 09 | 03 | 04 | 03 | | Electrical | SLAC | |
| 1 | 09 | 03 | 04 | 04 | | Utilities | SLAC | |
| 1 | 09 | 03 | 04 | 06 | | Special System - Fire Protection | SLAC | |
| 1 | 09 | 03 | 04 | 10 | | Project Close Out Linac Facility | SLAC | |
| 1 | 09 | 03 | 05 | | | Research Yard/B102,B211,B113 & Storage Trailers | SLAC | Control Acct |
| 1 | 09 | 03 | 05 | 01 | | Site Preparation | SLAC | |
| 1 | 09 | 03 | 05 | 01 | 01 | Site Preparation SEM | SLAC | |
| 1 | 09 | 03 | 05 | 01 | 02 | Site Preparation G/C | SLAC | |
| 1 | 09 | 03 | 05 | 02 | | Structural | SLAC | |
| 1 | 09 | 03 | 05 | 02 | 01 | Structural SEM | SLAC | |
| 1 | 09 | 03 | 05 | 02 | 02 | Structural G/C | SLAC | |
| 1 | 09 | 03 | 05 | 03 | | Electrical | SLAC | |
| 1 | 09 | 03 | 05 | 03 | 01 | Electrical SEM | SLAC | |
| 1 | 09 | 03 | 05 | 03 | 02 | Electrical G/C | SLAC | |
| 1 | 09 | 03 | 05 | 04 | | Utilities | SLAC | |
| 1 | 09 | 03 | 05 | 04 | 01 | Utilities SEM | SLAC | |
| 1 | 09 | 03 | 05 | 04 | 02 | Utilities G/C | SLAC | |
| 1 | 09 | 03 | 05 | 05 | | HVAC | SLAC | |
| 1 | 09 | 03 | 05 | 05 | 01 | HVAC SEM | SLAC | |
| 1 | 09 | 03 | 05 | 05 | 02 | HVAC G/C | SLAC | |
| 1 | 09 | 03 | 05 | 06 | | Special System - Fire Protection | SLAC | |
| 1 | 09 | 03 | 05 | 06 | 01 | Special System - Fire Protection SEM | SLAC | |
| 1 | 09 | 03 | 05 | 06 | 02 | Special System - Fire Protection | SLAC | |
| 1 | 09 | 03 | 05 | 07 | | Interior | SLAC | |
| 1 | 09 | 03 | 05 | 07 | 01 | Interior SEM | SLAC | |
| 1 | 09 | 03 | 05 | 07 | 02 | Interior G/C | SLAC | |
| 1 | 09 | 03 | 05 | 10 | | Project Close Out Reasearch Yard | SLAC | |
| 1 | 09 | 03 | 06 | | | Access Road & Beam Transport Hall | SLAC | Control Acct |
| 1 | 09 | 03 | 06 | 01 | | Site Preparation | SLAC | |
| 1 | 09 | 03 | 06 | 02 | | Structural | SLAC | |
| 1 | 09 | 03 | 06 | 03 | | Electrical | SLAC | |
| 1 | 09 | 03 | 06 | 04 | | Utilities | SLAC | |
| 1 | 09 | 03 | 06 | 05 | | HVAC | SLAC | |
| 1 | 09 | 03 | 06 | 06 | | Special System- Fire Protection | SLAC | |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|---|--|------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | 09 | 03 | 06 | 07 | | Interior | SLAC | |
| 1 | 09 | 03 | 06 | 09 | | reserved | | |
| 1 | 09 | 03 | 06 | 10 | | Project Close Out Beam Trans Hall | SLAC | |
| 1 | 09 | 03 | 07 | | | Undulator Hall | SLAC | Control Acct |
| 1 | 09 | 03 | 07 | 01 | | Site Preparation | SLAC | |
| 1 | 09 | 03 | 07 | 02 | | Structural | SLAC | |
| 1 | 09 | 03 | 07 | 03 | | Electrical | SLAC | |
| 1 | 09 | 03 | 07 | 04 | | Utilities | SLAC | |
| 1 | 09 | 03 | 07 | 05 | | HVAC | SLAC | |
| 1 | 09 | 03 | 07 | 06 | | Special System - Fire Protection | SLAC | |
| 1 | 09 | 03 | 07 | 07 | | Interior | SLAC | |
| 1 | 09 | 03 | 07 | 09 | | Tunneling | SLAC | |
| 1 | 09 | 03 | 07 | 10 | | Project Close Out Undulator Hall | SLAC | |
| 1 | 09 | 03 | 08 | | | Front End Enclosure | SLAC | Control Acct |
| 1 | 09 | 03 | 08 | 01 | | Site Preparation | SLAC | |
| 1 | 09 | 03 | 08 | 02 | | Structural | SLAC | |
| 1 | 09 | 03 | 08 | 03 | | Electrical | SLAC | |
| 1 | 09 | 03 | 08 | 04 | | Utilities | SLAC | |
| 1 | 09 | 03 | 08 | 05 | | HVAC | SLAC | |
| 1 | 09 | 03 | 08 | 06 | | Special System - Fire Protection | SLAC | |
| 1 | 09 | 03 | 08 | 07 | | Interior | SLAC | |
| 1 | 09 | 03 | 08 | 09 | | Tunneling | SLAC | |
| 1 | 09 | 03 | 08 | 10 | | Project Close Out Front End Enclosure | SLAC | |
| 1 | 09 | 03 | 09 | | | Beam Dump | SLAC | Control Acct |
| 1 | 09 | 03 | 09 | 01 | | Site Preparation | SLAC | |
| 1 | 09 | 03 | 09 | 02 | | Structural | SLAC | |
| 1 | 09 | 03 | 09 | 03 | | Electrical | SLAC | |
| 1 | 09 | 03 | 09 | 04 | | Utilities | SLAC | |
| 1 | 09 | 03 | 09 | 05 | | reserved | | |
| 1 | 09 | 03 | 09 | 06 | | Special System (Fire Protection) Beam Dump | SLAC | |
| 1 | 09 | 03 | 09 | 09 | | Tunneling | SLAC | |
| 1 | 09 | 03 | 09 | 10 | | Project Close Out Beam Dump | SLAC | |
| 1 | 09 | 03 | 10 | | | Near Experimental Hall | SLAC | Control Acct |
| 1 | 09 | 03 | 10 | 01 | | Site Preparation | SLAC | |
| 1 | 09 | 03 | 10 | 02 | | Structural | SLAC | |
| 1 | 09 | 03 | 10 | 03 | | Electrical | SLAC | |
| 1 | 09 | 03 | 10 | 04 | | Utilities | SLAC | |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc | |
|-------|----|----|----|----|---|---|------|----------------------|--------------|
| Level | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | | |
| 1 | 09 | 03 | 10 | 05 | | HVAC | SLAC | | |
| 1 | 09 | 03 | 10 | 06 | | Special System - Fire Protection | SLAC | | |
| 1 | 09 | 03 | 10 | 07 | | Interior | SLAC | | |
| 1 | 09 | 03 | 10 | 09 | | reserved | | | |
| 1 | 09 | 03 | 10 | 10 | | Project Close Out Near Experimental Hall | SLAC | | |
| 1 | 09 | 03 | 11 | | | X-Ray Transport & Diagnostic Hall | SLAC | | Control Acct |
| 1 | 09 | 03 | 11 | 01 | | Site Preparation | SLAC | | |
| 1 | 09 | 03 | 11 | 02 | | Structural | SLAC | | |
| 1 | 09 | 03 | 11 | 03 | | Electrical | SLAC | | |
| 1 | 09 | 03 | 11 | 04 | | Utilities | SLAC | | |
| 1 | 09 | 03 | 11 | 05 | | HVAC | SLAC | | |
| 1 | 09 | 03 | 11 | 06 | | Special System - Fire Protection | SLAC | | |
| 1 | 09 | 03 | 11 | 07 | | Interiors | SLAC | | |
| 1 | 09 | 03 | 11 | 09 | | Tunneling | SLAC | | |
| 1 | 09 | 03 | 11 | 10 | | Project Close Out X-Ray Transport & Diagonistic | SLAC | | |
| 1 | 09 | 03 | 12 | | | Far Experimental Hall | SLAC | Control Acct | |
| 1 | 09 | 03 | 12 | 01 | | reserved | | | |
| 1 | 09 | 03 | 12 | 02 | | Structural | SLAC | | |
| 1 | 09 | 03 | 12 | 03 | | Electrical | SLAC | | |
| 1 | 09 | 03 | 12 | 04 | | Utilities | SLAC | | |
| 1 | 09 | 03 | 12 | 05 | | HVAC | SLAC | | |
| 1 | 09 | 03 | 12 | 06 | | Special System - Fire Protection | SLAC | | |
| 1 | 09 | 03 | 12 | 07 | | Interiors | SLAC | | |
| 1 | 09 | 03 | 12 | 09 | | Tunneling | SLAC | | |
| 1 | 09 | 03 | 12 | 10 | | Project Close Out Far Experimental Hall | SLAC | | |
| 1 | 09 | 03 | 13 | | | Free Electron Laser Center | SLAC | Control Acct | |
| 1 | 09 | 03 | 13 | 01 | | Site Preparation | SLAC | | |
| 1 | 09 | 03 | 13 | 02 | | Structural | SLAC | | |
| 1 | 09 | 03 | 13 | 03 | | Electrical | SLAC | | |
| 1 | 09 | 03 | 13 | 04 | | Utilities | SLAC | | |
| 1 | 09 | 03 | 13 | 05 | | HVAC | SLAC | | |
| 1 | 09 | 03 | 13 | 06 | | Special System - Fire Protection | SLAC | | |
| 1 | 09 | 03 | 13 | 07 | | Interior | SLAC | | |
| 1 | 09 | 03 | 13 | 10 | | Project Close Out Free Electron Laser Center | SLAC | | |
| 2 | | | | | | LCLS PROJECT - R&D, SPARES, COMMISSIONING | SLAC | Summary | |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|----------|-----------|----|----|----|---|---|-------------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 2 | 01 | | | | | LCLS PROJECT MGMT, PLANNING & ADMN (OPC) | SLAC | Summary |
| 2 | 01 | 01 | | | | Physics Support (OPC) | SLAC | Control Acct |
| 2 | 01 | 01 | 01 | | | SAC-MAC Physics | SLAC | |
| 2 | 01 | 01 | 02 | | | Injector Physics | SLAC | |
| 2 | 01 | 01 | 03 | | | Linac Physics | SLAC | |
| 2 | 01 | 01 | 04 | | | Undulator Physics | SLAC | |
| 2 | 01 | 01 | 05 | | | X-Ray Transport Physics | SLAC | |
| 2 | 01 | 01 | 06 | | | X-Ray Endstation Physics | SLAC | |
| 2 | 01 | 01 | 07 | | | Conventional Facilities Physics | SLAC | |
| 2 | 01 | 01 | 08 | | | Consulting Physics (Collaboration) | SLAC | |
| 2 | 01 | 01 | 09 | | | Consulting Physics (SLAC) | SLAC | |
| 2 | 01 | 01 | 10 | | | Global Controls Physics Liaison | SLAC | |
| 2 | 01 | 02 | | | | R&D Studies & Prototyping | SLAC | Control Acct |
| 2 | 01 | 03 | | | | Project Mgmt, Planning and Admn - M&S (OPC) | SLAC | Control Acct |
| 2 | 02 | | | | | INJECTOR SYSTEM (OPC) | SLAC | Summary |
| 2 | 02 | 01 | | | | Injector System Management & Integration | SLAC | Summary |
| 2 | 02 | 01 | 01 | | | Injector System Integration Effort / M&S | SLAC | Control Acct |
| 2 | 02 | 01 | 02 | | | High level Application Software | SLAC | Control Acct |
| 2 | 02 | 01 | 03 | | | Feedback Software | SLAC | Control Acct |
| 2 | 02 | 02 | | | | Injector Controls Subsystem | SLAC | Summary |
| 2 | 02 | 02 | 01 | | | EPICS VXI Control Modules | SLAC | Control Acct |
| 2 | 02 | 02 | 02 | | | LLRF Controls | SLAC | Control Acct |
| 2 | 02 | 02 | 03 | | | E-Beam Diagnostics Controls | SLAC | Control Acct |
| 2 | 02 | 02 | 03 | 01 | | Controls - Wire Scanners | SLAC | Control Acct |
| 2 | 02 | 02 | 03 | 02 | | Controls - Toroids | SLAC | Control Acct |
| 2 | 02 | 02 | 03 | 03 | | Controls - Faraday Cup | SLAC | Control Acct |
| 2 | 02 | 02 | 03 | 04 | | Controls - Tune-Up Dump | SLAC | Control Acct |
| 2 | 02 | 02 | 03 | 05 | | Controls - Profile Monitors | SLAC | Control Acct |
| 2 | 02 | 02 | 03 | 06 | | Control - EO Diagnostic | SLAC | Control Acct |
| 2 | 02 | 02 | 03 | 07 | | Controls - BPM Processor Module | SLAC | Control Acct |
| 2 | 02 | 02 | 04 | | | Laser Controls | SLAC | Control Acct |
| 2 | 02 | 02 | 05 | | | Laser Heater Controls | SLAC | Control Acct |
| 2 | 02 | 02 | 06 | | | Timing Controls | SLAC | Control Acct |
| 2 | 02 | 02 | 07 | | | Vacuum Controls | SLAC | Control Acct |
| 2 | 02 | 02 | 08 | | | Software & Controls Infrastructure | SLAC | Control Acct |
| 2 | 02 | 02 | 09 | | | Power Supply Controls | SLAC | Control Acct |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|---|---|--------------------------------------|------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 2 | 02 | 03 | | | | Injector Lasers | SLAC | Summary |
| 2 | 02 | 03 | 01 | | | Drive Laser R&D | SLAC | Control Acct |
| 2 | 02 | 03 | 02 | | | Drive Laser Spares | SLAC | Control Acct |
| 2 | 02 | 03 | 01 | | | Drive Laser Prototyping | SLAC | Control Acct |
| 2 | 02 | 03 | 02 | | | Drive Laser Oscillator | SLAC | Control Acct |
| 2 | 02 | 03 | 03 | | | Oscillator Diagnostics & Isolator | SLAC | Control Acct |
| 2 | 02 | 03 | 04 | | | Stretcher / Shaper | SLAC | Control Acct |
| 2 | 02 | 03 | 05 | | | Oscillator - Based Measurement | SLAC | Control Acct |
| 2 | 02 | 03 | 06 | | | Oscillator Beam Transport & Encl | SLAC | Control Acct |
| 2 | 02 | 03 | 07 | | | PreAmplifier | SLAC | Control Acct |
| 2 | 02 | 03 | 08 | | | PreAmplifier Diagnostics & Isolator | SLAC | Control Acct |
| 2 | 02 | 03 | 09 | | | PreAmplifier Low Pwr Comp | SLAC | Control Acct |
| 2 | 02 | 03 | 10 | | | KHz Pulse Selection & 120Hz Splitter | SLAC | Control Acct |
| 2 | 02 | 03 | 11 | | | PreAmplifier Spatial Filter | SLAC | Control Acct |
| 2 | 02 | 03 | 12 | | | PreAmplifier - Based Measurement | SLAC | Control Acct |
| 2 | 02 | 03 | 13 | | | PreAmplifier Beam Transport & Encl. | SLAC | Control Acct |
| 2 | 02 | 03 | 14 | | | Final Amplifier | SLAC | Control Acct |
| 2 | 02 | 03 | 15 | | | Final Amplifier Diagnostics | SLAC | Control Acct |
| 2 | 02 | 03 | 16 | | | 120Hz Combiner | SLAC | Control Acct |
| 2 | 02 | 03 | 17 | | | High Power Compressor | SLAC | Control Acct |
| 2 | 02 | 03 | 18 | | | High Pwr Vac Spatial Filters & Relay | SLAC | Control Acct |
| 2 | 02 | 03 | 19 | | | Final Amplifier-Based Meas | SLAC | Control Acct |
| 2 | 02 | 03 | 20 | | | Final Amp Beam Transport & Encl | SLAC | Control Acct |
| 2 | 02 | 03 | 21 | | | UV Conv Harmonic Generation Unit | SLAC | Control Acct |
| 2 | 02 | 03 | 22 | | | UV Diagnostics | SLAC | Control Acct |
| 2 | 02 | 03 | 23 | | | UV Measurements | SLAC | Control Acct |
| 2 | 02 | 03 | 24 | | | UV Optical Transport & Diag. | SLAC | Control Acct |
| 2 | 02 | 03 | 25 | | | Visible Optical Transport & Diag. | SLAC | Control Acct |
| 2 | 02 | 03 | 26 | | | IR Optical Transport & Diagnostics | SLAC | Control Acct |
| 2 | 02 | 03 | 27 | | | UV Conditioning | SLAC | Control Acct |
| 2 | 02 | 03 | 28 | | | LB Infrastruc & LB System-Wide Items | SLAC | Control Acct |
| 2 | 02 | 03 | 29 | | | Alignment Laser | SLAC | Control Acct |
| 2 | 02 | 03 | 30 | | | Light Path to Streak Camera | SLAC | Control Acct |
| 2 | 02 | 04 | | | | RF Gun & Load Lock | SLAC | Summary |
| 2 | 02 | 04 | 01 | | | RF Gun | SLAC | Control Acct |
| 2 | 02 | 04 | 02 | | | RF Gun Supports | SLAC | Control Acct |
| 2 | 02 | 04 | 03 | | | Gun Load Lock | SLAC | Control Acct |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|---|---|--|------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 2 | 02 | 04 | 04 | | | Gun Load Lock Supports | SLAC | Control Acct |
| 2 | 02 | 04 | 05 | | | Gun Solenoid | SLAC | Control Acct |
| 2 | 02 | 04 | 06 | | | Gun Solenoid Supports | SLAC | Control Acct |
| 2 | 02 | 04 | 07 | | | Gun RF Feed | SLAC | Control Acct |
| 2 | 02 | 04 | 08 | | | Gun RF Feed Supports | SLAC | Control Acct |
| 2 | 02 | 05 | | | | Gun to Linac Section (GTL) | SLAC | Summary |
| 2 | 02 | 05 | 01 | | | GTL BPMs () | SLAC | Control Acct |
| 2 | 02 | 05 | 02 | | | GTL Faraday Cup/YAG1 | SLAC | Control Acct |
| 2 | 02 | 05 | 03 | | | GTL Current Monitors () | SLAC | Control Acct |
| 2 | 02 | 05 | 04 | | | GTL E/O (EO1) | SLAC | Control Acct |
| 2 | 02 | 05 | 05 | | | GTL RF Phase Cavity | SLAC | Control Acct |
| 2 | 02 | 05 | 06 | | | GTL Steering Coils ()X-Y (SC1) | SLAC | Control Acct |
| 2 | 02 | 05 | 07 | | | GTL Vacuum Components | SLAC | Control Acct |
| 2 | 02 | 05 | 08 | | | GTL Supports | SLAC | Control Acct |
| 2 | 02 | 05 | 09 | | | Gun Spectrometer (GS) Assembly | SLAC | Control Acct |
| 2 | 02 | 05 | 10 | | | GTL Pumping & Optic Chamber | SLAC | Control Acct |
| 2 | 02 | 05 | 11 | | | GTL YAG () | SLAC | Control Acct |
| 2 | 02 | 06 | | | | Injector Linac Structures | SLAC | Summary |
| 2 | 02 | 06 | 01 | | | L0-1 Structure Assembly | SLAC | Control Acct |
| 2 | 02 | 06 | 02 | | | L0-2 Structure Assembly | SLAC | Control Acct |
| 2 | 02 | 06 | 03 | | | Major Linac Support | SLAC | Control Acct |
| 2 | 02 | 06 | 04 | | | Linac Solenoid & Supports | SLAC | Control Acct |
| 2 | 02 | 07 | | | | L0-1 to L0-2 Section (L0-1TL0-2) | SLAC | Summary |
| 2 | 02 | 07 | 01 | | | L0-1TL0-2 Quadrupoles () | SLAC | Control Acct |
| 2 | 02 | 07 | 02 | | | L0-1TL0-2 BPMs () | SLAC | Control Acct |
| 2 | 02 | 07 | 03 | | | L0-1TL0-2 Current Monitor () | SLAC | Control Acct |
| 2 | 02 | 07 | 04 | | | L0-1TL0-2 OTR/YAG () | SLAC | Control Acct |
| 2 | 02 | 07 | 05 | | | L0-1TL0-2 Linac Steering Coils () | SLAC | Control Acct |
| 2 | 02 | 07 | 06 | | | L0-1TL0-2 Vacuum Components | SLAC | Control Acct |
| 2 | 02 | 07 | 07 | | | L0-1TL0-2 Major tube support structure | SLAC | Control Acct |
| 2 | 02 | 08 | | | | Linac to DL1 (LTDL1) | SLAC | Summary |
| 2 | 02 | 08 | 01 | | | LTDL1 Current Monitors () | SLAC | Control Acct |
| 2 | 02 | 08 | 02 | | | LTDL1 BPMs () | SLAC | Control Acct |
| 2 | 02 | 08 | 03 | | | LTDL1 OTR(5)/YAG () | SLAC | Control Acct |
| 2 | 02 | 08 | 04 | | | LTDL1 Quadrupoles () | SLAC | Control Acct |
| 2 | 02 | 08 | 05 | | | LTDL1 Wire Scanners () | SLAC | Control Acct |
| 2 | 02 | 08 | 06 | | | LTDL1 RF Kicker | SLAC | Control Acct |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|---|-----------------------------------|------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 2 | 02 | 08 | 07 | | | LTDL1 Steering Coils ()X-Y | SLAC | Control Acct |
| 2 | 02 | 08 | 08 | | | LTDL1 PPS Stopper | SLAC | Control Acct |
| 2 | 02 | 08 | 09 | | | LTDL1 E/O EO2 | SLAC | Control Acct |
| 2 | 02 | 08 | 10 | | | LTDL1 Minor Tube Supports | SLAC | Control Acct |
| 2 | 02 | 09 | | | | Dog Leg 1 Bend (DL1) | SLAC | Summary |
| 2 | 02 | 09 | 01 | | | DL1 B01 & B02 Dipoles | SLAC | Control Acct |
| 2 | 02 | 09 | 02 | | | DL1 QB Quadrupole | SLAC | Control Acct |
| 2 | 02 | 09 | 03 | | | DL1 Wire Scanner | SLAC | Control Acct |
| 2 | 02 | 09 | 04 | | | DL1 OTR | SLAC | Control Acct |
| 2 | 02 | 09 | 05 | | | DL1 Supports | SLAC | Control Acct |
| 2 | 02 | 09 | 06 | | | DL1 Vacuum Chamber | SLAC | Control Acct |
| 2 | 02 | 10 | | | | DL1 to Linac (DL1TL) | SLAC | Summary |
| 2 | 02 | 10 | 01 | | | DL1TL BPMs () | SLAC | Control Acct |
| 2 | 02 | 10 | 02 | | | DL1TL Steering Coils (X-Y Assys) | SLAC | Control Acct |
| 2 | 02 | 10 | 03 | | | DL1TL Quadrupoles () | SLAC | Control Acct |
| 2 | 02 | 10 | 04 | | | DL1TL Vacuum Components | SLAC | Control Acct |
| 2 | 02 | 10 | 05 | | | DL1TL Current Monitor () | SLAC | Control Acct |
| 2 | 02 | 10 | 06 | | | DL1TL OTR | SLAC | Control Acct |
| 2 | 02 | 10 | 07 | | | DL1TL EO3 | SLAC | Control Acct |
| 2 | 02 | 11 | | | | Straight Ahead Beamline (SAB) | SLAC | Summary |
| 2 | 02 | 11 | 01 | | | SAB Spectrometer Dipole | SLAC | Control Acct |
| 2 | 02 | 11 | 02 | | | SAB Quadrupoles () | SLAC | Control Acct |
| 2 | 02 | 11 | 03 | | | SAB Current Monitor () | SLAC | Control Acct |
| 2 | 02 | 11 | 04 | | | SAB BPM () | SLAC | Control Acct |
| 2 | 02 | 11 | 05 | | | SAB YAG | SLAC | Control Acct |
| 2 | 02 | 11 | 06 | | | SAB Vacuum Chamber and Components | SLAC | Control Acct |
| 2 | 02 | 11 | 07 | | | SAB Beam Dump and Shielding | SLAC | Control Acct |
| 2 | 02 | 11 | 08 | | | SAB Supports | SLAC | Control Acct |
| 2 | 02 | 11 | 09 | | | SAB Steering Coils () | SLAC | Control Acct |
| 2 | 02 | 12 | | | | Injector RF Waveguide Subsystem | SLAC | Summary |
| 2 | 02 | 12 | 01 | | | RF Waveguides | SLAC | Control Acct |
| 2 | 02 | 12 | 02 | | | RF Waveguide Supports | SLAC | Control Acct |
| 2 | 02 | 13 | | | | Injector RF Subsystem | SLAC | Summary |
| 2 | 02 | 13 | 01 | | | S-Band Low Level System | SLAC | Summary |
| 2 | 02 | 13 | 01 | 01 | | S-BAND LL CONTROLS TIMING SYSTEM | SLAC | Control Acct |
| 2 | 02 | 13 | 02 | | | S-Band High Power System | SLAC | Control Acct |
| 2 | 02 | 14 | | | | Cathode Processing (CP) Station | SLAC | Summary |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|----------|-----------|----|----|---|---|---|-------------|-------------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 2 | 02 | 14 | 01 | | | CP Cathode Assembly & Supports | SLAC | Control Acct |
| 2 | 02 | 14 | 02 | | | CP Load Lock | SLAC | Control Acct |
| 2 | 02 | 14 | 03 | | | CP Load Lock Supports | SLAC | Control Acct |
| 2 | 02 | 14 | 04 | | | CP Station | SLAC | Control Acct |
| 2 | 02 | 14 | 05 | | | Cathode Lab Infrastructure | SLAC | Control Acct |
| 2 | 02 | 15 | | | | Injector Laser Heater Subsystem | SLAC | Summary |
| 2 | 02 | 15 | 01 | | | System Design & Optimization | SLAC | Control Acct |
| 2 | 02 | 15 | 02 | | | Beam Conditioning Optics (Laser Bay) | SLAC | Control Acct |
| 2 | 02 | 15 | 03 | | | Transport Optics (Bay to Tunnel) | SLAC | Control Acct |
| 2 | 02 | 15 | 04 | | | Chicane | SLAC | Control Acct |
| 2 | 02 | 15 | 05 | | | Undulator | SLAC | Control Acct |
| 2 | 02 | 15 | 06 | | | Photon Beam Diagnostics | SLAC | Control Acct |
| 2 | 02 | 15 | 07 | | | Electron Beam Diagnostics | SLAC | Control Acct |
| 2 | 02 | 16 | | | | Injector Power Conversion Subsystem | SLAC | Summary |
| 2 | 02 | 16 | 01 | | | Personnel Protection System (PPS) R&D | SLAC | Control Acct |
| 2 | 02 | 16 | 02 | | | Beam Containment Subsystem (BCS) | SLAC | Control Acct |
| 2 | 02 | 16 | 03 | | | Machine Protection Subsystem (MPS) | SLAC | Control Acct |
| 2 | 02 | 16 | 04 | | | Power Conv (beamline pwr supp) Spares | SLAC | Control Acct |
| 2 | 02 | 17 | | | | Injector System Commissioning | SLAC | Summary |
| 2 | 02 | 17 | 01 | | | Controls Commissioning | SLAC | Control Acct |
| 2 | 02 | 17 | 02 | | | Drive Laser Commissioning | SLAC | Control Acct |
| 2 | 02 | 17 | 03 | | | RF Conditioning | SLAC | Control Acct |
| 2 | 02 | 17 | 04 | | | RF Gun Operation with Beam | SLAC | Control Acct |
| 2 | 02 | 17 | 05 | | | L0-1&L0-2 Commissioning | SLAC | Control Acct |
| 2 | 02 | 17 | 06 | | | L0&SAB Commissioning | SLAC | Control Acct |
| 2 | 02 | 17 | 07 | | | DL1 Commissioning | SLAC | Control Acct |
| 2 | 02 | 17 | 08 | | | Injector Optimization | SLAC | Control Acct |
| 2 | 03 | | | | | LINAC SYSTEM (OPC) | SLAC | Summary |
| 2 | 03 | 01 | | | | System Management & Integration | SLAC | Summary |
| 2 | 03 | 01 | 01 | | | Linac Mechanical Integration | SLAC | Control Acct |
| 2 | 03 | 01 | 02 | | | Linac Controls Integration | SLAC | Control Acct |
| 2 | 03 | 01 | 03 | | | Travel | SLAC | Control Acct |
| 2 | 03 | 01 | 04 | | | Linac Management | SLAC | Control Acct |
| 2 | 03 | 02 | | | | Linac Controls & Power Conversion Subsystem | SLAC | Summary |
| 2 | 03 | 02 | 01 | | | Personnel Protection System (PPS) | SLAC | Control Acct |
| 2 | 03 | 02 | 02 | | | Beam Containment System (BCS) | SLAC | Control Acct |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|----|---|--|------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 2 | 03 | 02 | 03 | | | Machine Protection System (MPS) | SLAC | Control Acct |
| 2 | 03 | 02 | 04 | | | Power Conversion | SLAC | Summary |
| 2 | 03 | 02 | 04 | 01 | | Spare Power Supply (Dipole Type) | SLAC | Control Acct |
| 2 | 03 | 02 | 04 | 02 | | Spare Power Supply (Quad Type) | SLAC | Control Acct |
| 2 | 03 | 02 | 04 | 03 | | Spare Power Supply (Trim Type) | SLAC | Control Acct |
| 2 | 03 | 02 | 04 | 04 | | Controls & Power Supply - Spare Misc Hdw | SLAC | Control Acct |
| 2 | 03 | 02 | 05 | | | Controls - LLRF | SLAC | Control Acct |
| 2 | 03 | 02 | 06 | | | Controls - E-Beam Diagnostic | SLAC | Control Acct |
| 2 | 03 | 02 | 07 | | | Controls - Laser | SLAC | Control Acct |
| 2 | 03 | 02 | 08 | | | Controls - Timing | SLAC | Control Acct |
| 2 | 03 | 02 | 09 | | | Controls - Vacuum | SLAC | Control Acct |
| 2 | 03 | 02 | 10 | | | Software & Controls Infrastructure | SLAC | Control Acct |
| 2 | 03 | 03 | | | | Linac Magnets & Supports | SLAC | Summary |
| 2 | 03 | 03 | 01 | | | Bend Magnet (BX1_BC1) | SLAC | Control Acct |
| 2 | 03 | 03 | 02 | | | Bend Magnet (BX3_LTU) | SLAC | Control Acct |
| 2 | 03 | 03 | 03 | | | Bend Magnet (BX2_BC2) | SLAC | Control Acct |
| 2 | 03 | 03 | 04 | | | Bend Magnet (BY_LTU) | SLAC | Control Acct |
| 2 | 03 | 03 | 05 | | | Quad Magnet (Quad_LTU) | SLAC | Control Acct |
| 2 | 03 | 03 | 06 | | | reserved | | |
| 2 | 03 | 03 | 07 | | | Quad Magnet (QE) | SLAC | Control Acct |
| 2 | 03 | 03 | 08 | | | Corrector Magnet (Type 4) | SLAC | Control Acct |
| 2 | 03 | 03 | 09 | | | Bend Magnet (BYD_LTU) | SLAC | Control Acct |
| 2 | 03 | 03 | 10 | | | Quad Magnet (QA) | SLAC | Control Acct |
| 2 | 03 | 03 | 11 | | | Bend Magnet (BYPM_LTU) | SLAC | Control Acct |
| 2 | 03 | 03 | 12 | | | Bend Magnet (BYKIK_LTU) | SLAC | Control Acct |
| 2 | 03 | 03 | 13 | | | Bend Magnet (BYW_LTU) | SLAC | Control Acct |
| 2 | 03 | 04 | | | | Linac Vacuum Subsystem | SLAC | Summary |
| 2 | 03 | 04 | 01 | | | Linac Vacuum Subsystem Operations Equip | SLAC | Control Acct |
| 2 | 03 | 04 | 02 | | | Linac Beamline Vacuum System | SLAC | Control Acct |
| 2 | 03 | 04 | 03 | | | BC1 Vacuum System | SLAC | Control Acct |
| 2 | 03 | 04 | 04 | | | BC2 Vacuum System | SLAC | Control Acct |
| 2 | 03 | 04 | 05 | | | Linac to Undulator (LTU) Vacuum System | SLAC | Control Acct |
| 2 | 03 | 04 | 06 | | | Dumpline Vacuum System | SLAC | Control Acct |
| 2 | 03 | 05 | | | | Linac Electron Diagnostics | SLAC | Summary |
| 2 | 03 | 05 | 01 | | | Wire Scanners | SLAC | Control Acct |
| 2 | 03 | 05 | 02 | | | Beam Position Monitors | SLAC | Control Acct |
| 2 | 03 | 05 | 03 | | | Toroids Beam Charge | SLAC | Control Acct |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|----------|-----------|----|----|----|---|---|------------|-------------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 2 | 03 | 05 | 04 | | | Stoppers Tune Up Dump | SLAC | Control Acct |
| 2 | 03 | 05 | 05 | | | Profile Monitors | SLAC | Control Acct |
| 2 | 03 | 05 | 06 | | | E/O Bunch Length Monitors | SLAC | Control Acct |
| 2 | 03 | 05 | 07 | | | Bunch Length Monitors | SLAC | Control Acct |
| 2 | 03 | 05 | 08 | | | Beam Loss Monitors | SLAC | Control Acct |
| 2 | 03 | 05 | 09 | | | Single Beam Dump | SLAC | Control Acct |
| 2 | 03 | 05 | 10 | | | Electron Safety Beam Dump | SLAC | Control Acct |
| 2 | 03 | 05 | 11 | | | Protection Collimators | SLAC | Control Acct |
| 2 | 03 | 05 | 12 | | | Movable Collimators | SLAC | Control Acct |
| 2 | 03 | 05 | 13 | | | Safety Dump | SLAC | Control Acct |
| 2 | 03 | 06 | | | | Linac RF Subsystem | SLAC | Summary |
| 2 | 03 | 06 | 01 | | | reserved | | |
| 2 | 03 | 06 | 02 | | | S-Band High Power System | SLAC | Control Acct |
| 2 | 03 | 06 | 03 | | | S-Band Structures | SLAC | Control Acct |
| 2 | 03 | 06 | 04 | | | X-Band Low Level System | SLAC | Control Acct |
| 2 | 03 | 06 | 05 | | | X-Band High Power System | SLAC | Control Acct |
| 2 | 03 | 06 | 06 | | | X-Band Structures | SLAC | Control Acct |
| 2 | 03 | 06 | 07 | | | RF Distribution System | SLAC | Summary |
| 2 | 03 | 06 | 07 | 01 | | Modulator | SLAC | Control Acct |
| 2 | 03 | 06 | 07 | 02 | | Solid State Sub Booster | SLAC | Control Acct |
| 2 | 03 | 06 | 07 | 05 | | Bunch Length Electronics | SLAC | Control Acct |
| 2 | 03 | 06 | 07 | 07 | | RF Distribution L2 & L3 | SLAC | Control Acct |
| 2 | 03 | 06 | 07 | 08 | | RF Fiber Optics Electronics | SLAC | Control Acct |
| 2 | 03 | 07 | | | | Linac System Commissioning | SLAC | Summary |
| 2 | 03 | 07 | 01 | | | Linac L01 System Commissioning | SLAC | Control Acct |
| 2 | 03 | 07 | 02 | | | Linac BC1 System Commissioning | SLAC | Control Acct |
| 2 | 03 | 07 | 03 | | | Linac L02 System Commissioning | SLAC | Control Acct |
| 2 | 03 | 07 | 04 | | | Linac BC2 System Commissioning | SLAC | Control Acct |
| 2 | 03 | 07 | 05 | | | Linac L03 System Commissioning | SLAC | Control Acct |
| 2 | 03 | 07 | 06 | | | Linac LTU System Commissioning | SLAC | Control Acct |
| 2 | 03 | 07 | 07 | | | Linac E-Dump System Commissioning | SLAC | Control Acct |
| 2 | 04 | | | | | UNDULATOR SYSTEM (OPC) | ANL | Summary |
| 2 | 04 | 01 | | | | Undulator System Management & Integration | ANL | Control Acct |
| 2 | 04 | 02 | | | | Controls | ANL | Summary |
| 2 | 04 | 02 | 01 | | | Controls Management and Integration | ANL | Control Acct |
| 2 | 04 | 02 | 02 | | | Motion | ANL | Control Acct |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|---|---|--|------|-------------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 2 | 04 | 02 | 03 | | | Signal Analysis | ANL | Control Acct |
| 2 | 04 | 02 | 04 | | | Video | ANL | Control Acct |
| 2 | 04 | 02 | 05 | | | Data Acquisition and Control | ANL | Control Acct |
| 2 | 04 | 02 | 06 | | | Vacuum | ANL | Control Acct |
| 2 | 04 | 02 | 07 | | | Machine Protection | ANL | Control Acct |
| 2 | 04 | 03 | | | | Undulator Magnet & Support | ANL | Summary |
| 2 | 04 | 03 | 01 | | | UND Magnet & Support - Mgmt and Integration | ANL | Control Acct |
| 2 | 04 | 03 | 02 | | | First Prototype Undulator & Mfg Plan | ANL | Control Acct |
| 2 | 04 | 03 | 03 | | | 1st Article Undulators & Long Lead Procurements | ANL | Control Acct |
| 2 | 04 | 03 | 04 | | | Production Undulator | ANL | Control Acct |
| 2 | 04 | 03 | 05 | | | Focusing Magnets | ANL | Control Acct |
| 2 | 04 | 03 | 06 | | | Undulator Magnetic Measurement Facility (SLAC) | SLAC | Control Acct |
| 2 | 04 | 03 | 07 | | | reserved | | |
| 2 | 04 | 03 | 08 | | | Fixed Supports | SLAC | Control Acct |
| 2 | 04 | 04 | | | | Vacuum System | ANL | Summary |
| 2 | 04 | 04 | 01 | | | Project Oversight | ANL | Control Acct |
| 2 | 04 | 04 | 02 | | | Undulator Vacuum Chamber Assembly | ANL | Control Acct |
| 2 | 04 | 04 | 03 | | | Beam-line Bellows Module Assembly | ANL | Control Acct |
| 2 | 04 | 04 | 04 | | | Beam-Line Collimator Assembly | ANL | Control Acct |
| 2 | 04 | 04 | 05 | | | Short Diagnostic Break (SDB) Assembly | ANL | Control Acct |
| 2 | 04 | 04 | 06 | | | Long Diagnostic Break (LDB) Assembly | ANL | Control Acct |
| 2 | 04 | 04 | 07 | | | Entrance Section Assembly | ANL | Control Acct |
| 2 | 04 | 04 | 08 | | | Exit Section Assembly | ANL | Control Acct |
| 2 | 04 | 04 | 09 | | | Baking System | ANL | Control Acct |
| 2 | 04 | 05 | | | | Diagnostics | ANL | Summary |
| 2 | 04 | 05 | 01 | | | Project Oversight | ANL | Control Acct |
| 2 | 04 | 05 | 02 | | | E-Beam and X-Ray Profile Diagnostics | ANL | Control Acct |
| 2 | 04 | 05 | 03 | | | High-Power X-Ray and Profile Diagnostics (HPD) | ANL | Control Acct |
| 2 | 04 | 05 | 04 | | | End-of-Undulator(EOU) X-ray and Profile diagnost | ANL | Control Acct |
| 2 | 04 | 05 | 05 | | | RFBPM | ANL | Control Acct |
| 2 | 04 | 05 | 06 | | | Standard BPM | ANL | Control Acct |
| 2 | 04 | 05 | 07 | | | Charge Monitor (CM) | ANL | Control Acct |
| 2 | 04 | 05 | 08 | | | Cherenkov Detector | ANL | Control Acct |
| 2 | 04 | 05 | 09 | | | Radiation Detection Monitor (RDM) | ANL | Control Acct |
| 2 | 04 | 05 | 10 | | | Chamber Temperature Sensor Assembly (TSA) | ANL | Control Acct |
| 2 | 04 | 05 | 11 | | | Supplemental Shielding | ANL | Control Acct |
| 2 | 04 | 06 | | | | Undulator System Commissioning | ANL | Summary |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|----------|-----------|----|----|---|---|--|-------------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 2 | 04 | 06 | 01 | | | Undulator System Commissioning | ANL | Control Acct |
| 2 | 05 | | | | | X-RAY TRANSPORT & DIAGNOSTICS SYSTEMS (OPC) | LLNL | Summary |
| 2 | 05 | 01 | | | | System Management & Integration | LLNL | Summary |
| 2 | 05 | 01 | 01 | | | Management | LLNL | Control Acct |
| 2 | 05 | 02 | | | | Controls | LLNL | Summary |
| 2 | 05 | 02 | 01 | | | Controls Engineering | LLNL | Control Acct |
| 2 | 05 | 02 | 02 | | | Slow Controls | LLNL | Control Acct |
| 2 | 05 | 02 | 03 | | | Fast Controls | LLNL | Control Acct |
| 2 | 05 | 02 | 04 | | | Femto Controls | LLNL | Control Acct |
| 2 | 05 | 03 | | | | Mechanical & Vacuum Subsystem | LLNL | Summary |
| 2 | 05 | 03 | 01 | | | Vacuum Systems Engineering | LLNL | Control Acct |
| 2 | 05 | 03 | 02 | | | Mech/Vac Front End | LLNL | Control Acct |
| 2 | 05 | 03 | 03 | | | Mech/Vac Near Hall | LLNL | Control Acct |
| 2 | 05 | 03 | 04 | | | Mech/Vac Tunnel | LLNL | Control Acct |
| 2 | 05 | 03 | 05 | | | Mech/Vac Far Hall | LLNL | Control Acct |
| 2 | 05 | 04 | | | | Optical Subsystem | LLNL | Summary |
| 2 | 05 | 04 | 01 | | | Optical Systems Engineering | LLNL | Control Acct |
| 2 | 05 | 04 | 02 | | | Facility Optics | LLNL | Control Acct |
| 2 | 05 | 04 | 03 | | | End Station Optics | LLNL | Control Acct |
| 2 | 05 | 04 | 04 | | | Crystals & Gratings | LLNL | Control Acct |
| 2 | 05 | 05 | | | | Diagnostics Subsystem | LLNL | Summary |
| 2 | 05 | 05 | 01 | | | Diagnostic Systems Engineering | LLNL | Control Acct |
| 2 | 05 | 05 | 02 | | | Modeling & Simulation | LLNL | Control Acct |
| 2 | 05 | 05 | 03 | | | Facility Diagnostics | LLNL | Control Acct |
| 2 | 05 | 05 | 04 | | | Commissioning Diagnostics | LLNL | Control Acct |
| 2 | 05 | 06 | | | | X-Ray Transport & Diag. System Commissioning | LLNL | Summary |
| 2 | 05 | 06 | 01 | | | X-Ray Transport & Diag. System Commissioning | LLNL | Control Acct |
| 2 | 06 | | | | | X-RAY END STATION SYSTEMS (OPC) | SLAC | Summary |
| 2 | 06 | 01 | | | | System Management & Integration | SLAC | Summary |
| 2 | 06 | 01 | 01 | | | Management | SLAC | Control Acct |
| 2 | 06 | 02 | | | | Controls Subsystem | SLAC | Summary |
| 2 | 06 | 02 | 01 | | | Cabling | SLAC | Control Acct |
| 2 | 06 | 02 | 02 | | | Network | SLAC | Control Acct |
| 2 | 06 | 02 | 03 | | | PC Support | SLAC | Control Acct |
| 2 | 06 | 02 | 04 | | | Beamline Controls | SLAC | Control Acct |

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(TEC and OPC)**

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|---|---|--|-------------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 2 | 06 | 02 | 05 | | | X-Ray PPS | SLAC | Control Acct |
| 2 | 06 | 02 | 06 | | | X-Ray MPS | SLAC | Control Acct |
| 2 | 06 | 02 | 07 | | | Laser PPS | SLAC | Control Acct |
| 2 | 06 | 02 | 08 | | | User Safeguards | SLAC | Control Acct |
| 2 | 06 | 03 | | | | Mechanical/Vacuum Subsystem | SLAC | Summary |
| 2 | 06 | 03 | 01 | | | Chamber Support Tables - Mech/Vac | SLAC | Control Acct |
| 2 | 06 | 03 | 02 | | | Vacuum Components - Mech/Vac | SLAC | Control Acct |
| 2 | 06 | 03 | 03 | | | Experimental Chambers | SLAC | Control Acct |
| 2 | 06 | 04 | | | | Laser Subsystem | SLAC | Summary |
| 2 | 06 | 04 | 01 | | | Oscillator Laser & Pump | SLAC | Control Acct |
| 2 | 06 | 04 | 02 | | | Laser Diagnostics | SLAC | Control Acct |
| 2 | 06 | 04 | 03 | | | Laser Supplies & Optical Transport | SLAC | Control Acct |
| 2 | 06 | 04 | 04 | | | Laser Timing | SLAC | Control Acct |
| 2 | 06 | 04 | 05 | | | Laser Amplifiers | SLAC | Control Acct |
| 2 | 06 | 05 | | | | X-Ray Detectors | SLAC | Summary |
| 2 | 06 | 05 | 01 | | | Beam Imaging | SLAC | Control Acct |
| 2 | 06 | 05 | 02 | | | 2-D X-Ray Detector | SLAC | Control Acct |
| 2 | 06 | 05 | 03 | | | Beam Intensity | SLAC | Control Acct |
| 2 | 06 | 05 | 04 | | | Streak Camera | SLAC | Control Acct |
| 2 | 06 | 06 | | | | X-Ray End Station System Commissioning | SLAC | Summary |
| 2 | 06 | 06 | 01 | | | X-Ray End Station System Commissioning | SLAC | Control Acct |
| 2 | 06 | 07 | | | | Atomic Physics | SLAC | Summary |
| 2 | 06 | 07 | 01 | | | Atomic Physics Samples | SLAC | Control Acct |
| 2 | 06 | 07 | 02 | | | Atomic Physics Diagnostics | SLAC | Control Acct |
| 2 | 06 | 07 | 03 | | | Atomic Physics Data Analysis | SLAC | Control Acct |
| 2 | 06 | 07 | 04 | | | Atomic Physics Detectors | SLAC | Control Acct |
| 2 | 07 | | | | | reserved | | |
| 2 | 08 | | | | | LCLS SYSTEM COMMISSIONING (OPC) | SLAC | Summary |
| 2 | 08 | 01 | | | | Commissioning Mgmt & Integ | SLAC | Control Acct |
| 2 | 08 | 02 | | | | reserved | | |
| 2 | 08 | 03 | | | | reserved | | |
| 2 | 08 | 04 | | | | reserved | | |
| 2 | 08 | 05 | | | | reserved | | |
| 2 | 08 | 06 | | | | reserved | | |

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| WBS | | | | | | Description | OBS | Summary or Cntrl Acc |
|-------|----|----|----|---|---|---|-------------|----------------------|
| Level | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 2 | 09 | | | | | CONVENTIONAL FACILITIES (OPC) | SLAC | Summary |
| 2 | 09 | 01 | | | | Management Integration | SLAC | Summary |
| 2 | 09 | 01 | 01 | | | CF Management Integration | SLAC | Control Acct |
| 2 | 09 | 02 | | | | reserved | | |
| 2 | 09 | 03 | | | | Construction-T3 Conventional Facilities | SLAC | Summary |
| 2 | 09 | 03 | 01 | | | Sector 20 - Injector Facility | SLAC | Control Acct |
| 2 | 09 | 02 | 02 | | | Magnetic Measurement Facility | SLAC | Control Acct |
| 2 | 09 | 03 | 02 | | | Magnetic Measurement Facility | SLAC | Control Acct |
| 2 | 09 | 03 | 03 | | | Main Control Center | SLAC | Control Acct |
| 2 | 09 | 04 | 20 | | | Research Yard Thru FELC | SLAC | Control Acct |
| 2 | 09 | 03 | 20 | | | Research Yard Thru FELC | SLAC | Control Acct |