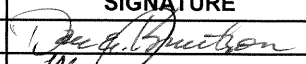
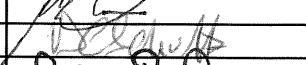


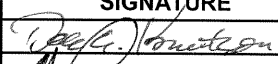
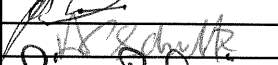
LCLS Directorate - Work Scope Authorization

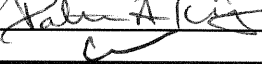
WBS No:	8.1.1	WBS Title:	Facilities Department Management and Administration				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$1,538	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Liam Robinson		
Scope Definition:	This WBS covers the management staffing and material/services costs for the Facilities Department. It includes labor costs for the Department Head, one Deputy Department Head, financial tracking, business systems support, service desk coordination as well as support for department Administrative Assistants. Responsibilities include ensuring that the Department meets project goals and key milestones, while managing personnel, departmental budgets and expenditures, operations and resource allocation. Non-labor expenses include: 1) basic training and travel essential for professional development, 2) computers, office supplies, non-capital equipment and furnishings that are mission-critical to the department, 3) office administration and software required to support functional capabilities of department, and finally, 4) maintenance costs associated with buildings under the Department's jurisdiction. This work includes the effort to achieve the Facilities Department strategic goals and milestones by providing management and administrative support for all Department activities. These activities include business planning, procurements, personnel actions, time sheet processing, building management functions, maintenance of office equipment and supplies, travel arrangements, vehicle and communications management, coordination of training activities and record-keeping, response to audit findings, periodic ES&H inspections and reports, and all other administrative functions necessary for smooth operation of the department.						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Facilities						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichenadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Liam Robinson				1/2/09		
LCLS Business Manager	Cindy Lowe				2-2-09		

LCLS Directorate - Work Scope Authorization

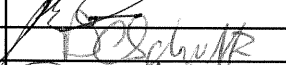
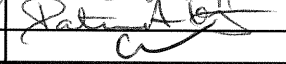
WBS No:	8.1.2	WBS Title:	Facilities Department Beam Support				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$6,701	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Liam Robinson		
Scope Definition:	This WBS supports all labor, materials, and service expenses necessary to operate and maintain the beam related buildings and infrastructure necessary to accomplish the mission of the LCLS Program. The infrastructure includes Electrical, Hot Water, HVAC, Plumbing and Fire Protection Systems. Labor includes Electricians, Utility Mechanics, Pipefitters, Fire Protection Technicians, HVAC Technicians, Instrument Technicians, Rigging Equipment Maintenance, Carpenters, General Maintenance, Custodians, Engineering, Coordinators and University Technical Representatives. Maintenance is a combination of predictive, preventive and corrective activities. It also includes facilities planning, renewal, and modification of systems and infrastructure as necessary to support operational needs.						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Facilities						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichenadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Liam Robinson				02/02/09		
LCLS Business Manager	Cindy Lowe				2-2-09		

LCLS Directorate - Work Scope Authorization

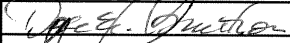
WBS No:	8.2.1	WBS Title:	Facilities Department Infrastructure Projects				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$1,616	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Liam Robinson		
Scope Definition:	This WBS supports all labor, materials, and service expenses necessary to carry out the engineering, design, project management, construction and completion of SLAC's direct-funded infrastructure projects in order to ensure that the building and infrastructure systems are replaced and repaired to working condition to support the program's scientific mission. This includes labor for a group leader, engineers, project managers and UTRs. The goals for this WBS are for on time and on budget completion of infrastructure projects.						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Facilities						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichenadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Liam Robinson				1/2/09		
LCLS Business Manager	Cindy Lowe				2-2-09		

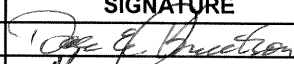
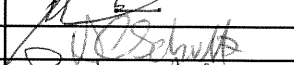
LCLS Directorate - Work Scope Authorization							
WBS No:	8.3.1	WBS Title:	Library Services--Management and Planning				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$85	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Pat Kreitz		
Scope Definition:	This WBS covers the staffing costs and materials needed to manage and optimize the performance of the SLAC Research Library to ensure it better supports the scientists, engineers and support staff of Photon science research and development at SLAC. Library management aligns with a wide range of constituencies and SLAC departments to ensure that user needs are recognized and served, that services and planning are coordinated, and that policies are applied and implemented consistently according to the mission and goals of SLAC. For FY09, SLAC Research Library's key deliverables are the following: 1. Align the library activities with SLAC's agenda; 2. Align library activities and services with the Operations Directorate's goals and objectives and; 3. Provide the research resources and information needed by the Photon Science scientists, technicians, staff and users at SLAC.						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Technical Information Services						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichanadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Pat Kreitz				1/30/09		
LCLS Business Manager	Cindy Lowe				2-2-09		

LCLS Directorate - Work Scope Authorization

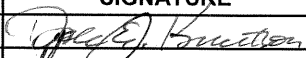
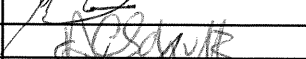
WBS No:	8.3.2	WBS Title:	Library Services--Technical Development & Systems Support				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$36	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Pat Kreitz		
Scope Definition:	This WBS covers the staffing costs and materials needed to perform the work of the SLAC Research Library's Technical Development & Systems Support group in delivering essential information services in support of Photon Science at SLAC. This group provides requirements gathering, database design, deployment and maintenance of the Library's software applications, ensuring system reliability, accessibility, and performance; performs significant expert level hands-on work, writing application code and performing critical quality control data checking. This work includes the effort to achieve the Technical Development & Systems Support group strategic goals and milestones for the SLAC Research Library. For FY09 goals and deliverables include: Creating the ability to browse the virtual collection online and potentially linking to the table of contents of the SLAC Photon science library books which are currently in remote storage. Additional deliverables include improving the website and streamlining internal processes to accommodate FY08 staff reductions.						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Technical Information Services						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichenadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Pat Kreitz				1/30/09		
LCLS Business Manager	Cindy Lowe				2-2-09		

LCLS Directorate - Work Scope Authorization

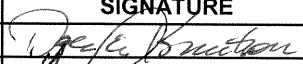
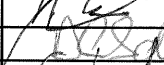
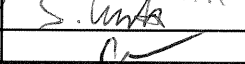
WBS No:	8.3.3	WBS Title:	Library Services--Acquisitions, Cataloging & Collection Development				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$297	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Pat Kreitz		
Scope Definition:	This WBS covers the staffing costs and materials needed to perform the work of the SLAC Research Library's Acquisitions, Cataloging & Collection Development unit which plans, catalogs, negotiates licenses and manages SLAC's print and electronic Photon sciences information resources. This includes identifying, selecting, acquiring, evaluating and preserving appropriate electronic and print monographs and journals and databases that support Photon science at SLAC. For FY09 goals and deliverables include: Photon science acquisition activities are driven by direct request from Photon science researchers and staff. The work performed includes verifying the material to be purchased, vendor selection, order placement, record creation and updating, order and invoice reconciliation of materials received, cataloging according to Library of Congress standards, and database maintenance of journals, databases and monographs.						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Technical Information Services						
APPROVALS:							
		NAME	SIGNATURE	DATE			
LCLS Associate Laboratory Director		Dale Knutson		2-2-09			
LCLS Deputy Associate Laboratory Director		Mark Reichenadter		2-2-09			
WBS Manager		Dave Schultz		2-2-09			
Account Manager		Pat Kreitz		1/30/09			
LCLS Business Manager		Cindy Lowe		2-2-09			

LCLS Directorate - Work Scope Authorization							
WBS No:	8.3.4	WBS Title:	Library Services--Public Services				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$73	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Pat Kreitz		
Scope Definition:	This WBS covers the staffing costs and materials needed to perform the work of the SLAC Research Library's Public Services group which provides reference, outreach, interlibrary loans, in-depth research, instruction, and Web management supporting Photon science researchers and staff. For FY09, the scope of work is to deliver the following services to the Photon Science community. Reference services provide on-site and remote reference assistance, research consultations, and complex bibliographic verification. Outreach is responsible for knowledge management of databases of experts and communities of practice. Web management develops and maintains the Library website and provides editorial oversight of the Library site's content.						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Technical Information Services						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichanadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Pat Kreitz				1/30/09		
LCLS Business Manager	Cindy Lowe				2-2-09		

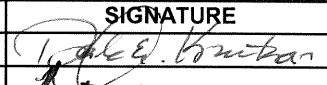
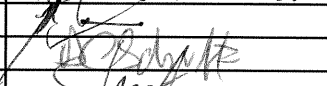
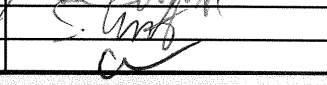
LCLS Directorate - Work Scope Authorization

WBS No:	8.4.1	WBS Title:	User Relations				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$453	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Steffen Luitz		
Scope Definition:	This WBS covers staffing to provide management and support of user relations to LCLS. It includes labor cost for 1) Customer Relations/Project Management: Managing IT projects and outward facing relationships with LCLS customers., 2) Departmental Administrators who administer desktop computers, departmental printers, department-specific software, provide first line computing support to users, and represent user needs to central computing, 3) Documentation: providing and maintaining web-based documentation to optimize usability of all SCCS services, 4) Procurement planning and liaison support for computing hardware, software, and maintenance services, order tracking, and financial support for budget coordination, cost tracking, accounts payable reconciliation, 5) Outreach & Communication for general interaction on computing topics relevant to customers, 6) User training: providing and managing training offerings (excluding mandatory cyber-security training), and 7) User Support: provide and provision to customer highly technical user support by systems and applications experts.						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Computing Services						
APPROVALS:							
	NAME	SIGNATURE	DATE				
LCLS Associate Laboratory Director	Dale Knutson		2-2-09				
LCLS Deputy Associate Laboratory Director	Mark Reichenadter		2-2-09				
WBS Manager	Dave Schultz		2-2-09				
Account Manager	Steffen Luitz		2/2/09				
LCLS Business Manager	Cindy Lowe		2-2-09				

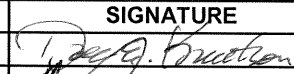
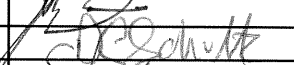
LCLS Directorate - Work Scope Authorization

WBS No:	8.4.2	WBS Title:	User Relations				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$17	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Steffen Luitz		
Scope Definition:	This WBS covers staffing needed to provide required competency and services to support personal productivity for 1) Calendar, email, alerting (pagers) and instant messaging, 2) Telephone services, external telephone connectivity, and management of departmental cell phones, 3) Personal Productivity R&D: tracking technology and market trends for personal productivity tools. Planning and pilot projects for productivity enhancing new services.						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Computing Services						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichanadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Steffen Luitz				2/2/09		
LCLS Business Manager	Cindy Lowe				2-2-09		

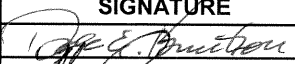
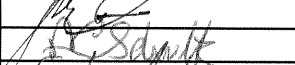
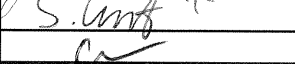
LCLS Directorate - Work Scope Authorization

WBS No:	8.4.3	WBS Title:	Infrastructure				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$2,561	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Steffen Luitz		
Scope Definition:	This WBS covers the staffing and materials/services costs to provide LCLS- required computing infrastructure services for the following elements: 1) Infrastructure Architecture: provides the strategic architecture of the computing and network infrastructure and capacity planning, 2) Computing: the competency to provide and operate a pool of dedicated interactive Unix/Linux servers, clusters for scientific computing and a central batch scheduling system , 3) Data Storage: the competency to provide and operate storage systems for scientific data: NFS, mass storage and backup, relational databases and AFS for Unix home directories, 4) IT Operations: provide lights-out datacenter operations and 24/7 triage, monitoring and alert generation and physical installation of computer equipment, 5) Networking: competency to provide and operate high performance local area data networks and exploit wide area networks. Operate the data networks required, including the accelerator networks, 6) System Management: competency to manage Unix/Linux systems needed, including centrally managed systems for accelerator operations, 7) Hardware maintenance: management and administration of hardware maintenance contracts and associated vendor resources and logistics, 8) Remote Access: competency to provide and provision of remote secure access to systems, 9) Infrastructure service development: ensuring ongoing cost-effective infrastructure service provision with evolution of requirements and technology as required.						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Computing Services						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichenadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Steffen Luitz				2-2-09		
LCLS Business Manager	Cindy Lowe				2-2-09		

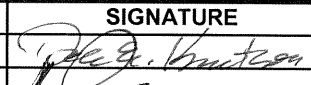
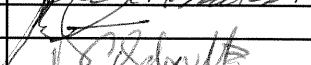
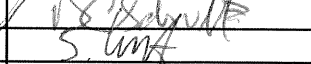
LCLS Directorate - Work Scope Authorization

WBS No:	8.4.4	WBS Title:	Application				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$374	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Steffen Luitz		
Scope Definition:	This WBS covers the staffing and materials/services costs to provide LCLS software application competency and services with the following elements: 1) Software and Software Technical Support: competency to provide and provision commercial software, license management and technical support for commercial software, 2) Software Development and Maintenance: competency to provide and provision generic SLAC-developed software, such as user interfaces to mass storage and bulk data transfer tools, 3) Web, Document Management, Collaboration: competency to provide and provision web application development and support for document management and collaboration tools, 4) Workflow and Ticketing: competency to provide and provision centralized issue tracking, ticketing and workflow management systems						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Computing Services						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichenadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Steffen Luitz				2-2-09		
LCLS Business Manager	Cindy Lowe				2-2-09		

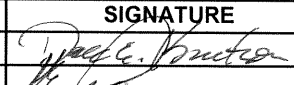
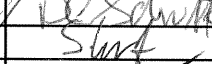
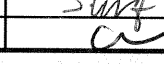
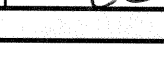
LCLS Directorate - Work Scope Authorization

WBS No:	8.4.5	WBS Title:	SCCS Internal Management				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$942	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Steffen Luitz		
Scope Definition:	This WBS covers the staffing and materials/services costs to provide LCLS daily service and resources for the following elements: 1) IT Planning: planning of SCCS IT service delivery, 2) Project Management (internal): managing projects within SCCS that position SCCS to be able to support LCLS, 3) Quality Assurance: internal review of the quality of services, processes, systems and applications, 4) SCCS Administrative Support: providing administrative component of support to SCCS such as time sheets, time tracking, support for hiring and other HR related processes, support for travel and other business related processes, such that resources in SCCS can be tracked, 5) SCCS Procurement & Financials: competency to provide and provision procurement planning, coordination, and management for equipment and services in support of SCCS-delivered services. 6) SCCS Facility: managing building 050 and adjunct computing facilities as required, 7) SCCS Line Management: the LCLS component of the fractions of staff assigned to formal supervisory and line management roles; SCCS ES&H coordinator.						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Computing Services						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichenadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Steffen Luitz				2/2/09		
LCLS Business Manager	Cindy Lowe				2-2-09		

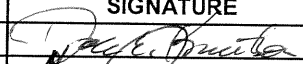
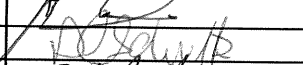
LCLS Directorate - Work Scope Authorization

WBS No:	8.4.6	WBS Title:	Security				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$190	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Steffen Luitz		
Scope Definition:	This WBS covers the staffing and materials/services costs to provide competency and provision to LCLS of cyber security support with the following elements: 1) Secure Design: competency to provide expert assistance in designing and documenting secure systems and applications (such as the LCLS controls and data acquisition systems), 2) Vulnerability Scanning: competency to provide scanning of systems on all SLAC networks to detect security vulnerabilities and to assist in remediating of vulnerabilities found, 3) Monitoring and Incident Response: competency to provide monitoring of the SLAC networks and systems for security incidents and to appropriately and timely respond to security incidents, 4) Compliance and Auditing: competency to provide verification and auditing, assuring that policies, procedures, systems, networks and applications are compliant with requirements (set by SLAC, DOE, Stanford, etc.).						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Computing Services						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichenadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Steffen Luitz				2/2/09		
LCLS Business Manager	Cindy Lowe				2-2-09		

LCLS Directorate - Work Scope Authorization

WBS No:	8.4.7	WBS Title:	Direct Science Support/Resarch				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$378	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Steffen Luitz		
Scope Definition:	This WBS covers the staffing costs, materials and services needed to provide LCLS mission-specific application support with the following elements: 1) Direct Science Support / Research: developing LCLS-specific software and tools to support the operation of the experimental facilities						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Computing Services						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichenadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Steffen Luitz				2/2/09		
LCLS Business Manager	Cindy Lowe				2-2-09		

LCLS Directorate - Work Scope Authorization

WBS No:	8.5.1	WBS Title:	Operations - Radiation Physics Mgmt&Admin				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$379	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Sayed Rokni		
Scope Definition:	This WBS covers the staffing costs and materials needed for management and administration of Radiation Physics (RP) Group at SLAC. RPG supports safe design and operation of electron beams at SLAC. Specifically, RPG supports design and operation of LCLS Injector, LINAC, BSY, BTH, UNDULATOR Hall, DUMP Line, FEE and design and operations in photon beam lines as well as radiological operations in auxiliary systems. Supervise work of RP staff; work closely with the beam line physicists, program managers, ADSO, to review radiation safety systems (RSS) including shielding, PPS, BCS, BSOIC and BTMs, review and approve procedures, written documentation including BASs, commissioning plans. Review changes to RSS, analyze impact of changes, seek advice from radiation safety committee and ALARA committee as needed. Monitoring RSS performance and assist as appropriate to ensure optimum system performance. Perform ongoing surveillance, inspection and oversight of RSS to ensure integrity of the radiation safety of beam operations. Prepare documentation and support LCLS for internal, external reviews, interact with DOE, ARR committee, assist preparing SADs, ensure that the operations are conducted in compliance with applicable regulations (ASO 420.2b) within the safety envelope, and the doses to personnel and environment from prompt radiation is within SLAC limits and are ALARA. This WBS also includes the effort to develop, maintain and benchmark calculation tools including Monte Carlo radiation transport codes to evaluate the above. Support calculations to evaluate damage to undulator magnets and other critical beam line components. It also includes administrative support for RPG. Key milestones include: Safe and efficient accelerator and beam operations in compliance with applicable regulations; Beam Authorization Sheets (BASs), review and approval of Radiation Safety Work Control Forms, support for beam operations on 24/7 basis, area monitoring reports, NESHAP report to EPA, RP Notes, dose to equipment, commissioning survey report.						
Profile of Fund Sources:	Linac Operations						
Profile of Performing Orgs:	OPS Environmental Safety &Health						
APPROVALS:							
	NAME		SIGNATURE		DATE		
LCLS Associate Laboratory Director	Dale Knutson				2-2-09		
LCLS Deputy Associate Laboratory Director	Mark Reichenadter				2-2-09		
WBS Manager	Dave Schultz				2-2-09		
Account Manager	Sayed Rokni				1-30-09		
LCLS Business Manager	Cindy Lowe				2-2-09		