

LCLS Directorate - Work Scope Authorization

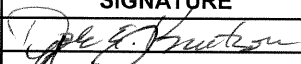




WBS No:	9.1.1	WBS Title:	Directorate Management				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$454	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Karen Fant		

Scope Definition:

This WBS covers the management staffing costs for the ETS Directorate Office who are responsible for the overall leadership and direction of the ETS Directorate. This includes all planning, organizing, directing, controlling, and reporting on the status of the Directorate, including; establishing and authorizing Directorate management plans, human resource mandatement, performance measurement and assessment plans, finance and budget plans. Also included is oversight, management and direction of the 6 component ETS departments: Controls, Klystron/Microwave, Mechanical Design, Mechanical Fabrication, Metrology, and Power Conversion to meet Lab's operational mission and performance goals for the ETS Directorate. This work includes the effort to achieve the directorate strategic goals and milestones.

Profile of Fund Sources: Linac Operations

Profile of Performing Orgs: ETS Administration

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	Karen Fant		2/2/09
LCLS Business Manager	Cindy Lowe		2-2-09

LCLS Directorate - Work Scope Authorization

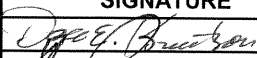

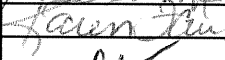


WBS No:	9.1.2	WBS Title:	Directorate Administrative Costs				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$589	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Karen Fant		

Scope Definition:

This WBS covers the administrative costs for the ETS Directorate Office. It includes: 1) office supplies, non-capital equipment, furnishings and maintenance costs that are mission-critical to the Directorate, 2) Computers and office administration required to support functional capabilities of Directorate, 3) Travel necessary to conduct Directorate business, 4) Safety training of personnel, and purchases made or procedures done to ensure safety of department, 5) Basic training and scientific/technical conference participation considered essential for professional development, and 6) Wages of consultants and other Lab personnel (Pressure Systems Program Manager) required by Directorate to maintain basic operations. This work includes the effort to achieve the directorate strategic goals and milestones.

Profile of Fund Sources: Linac Operations

Profile of Performing Orgs: ETS Administration

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	Karen Fant		2/2/09
LCLS Business Manager	Cindy Lowe		2-2-09

LCLS Directorate - Work Scope Authorization

WBS No:	9.1.4	WBS Title:	ES&H Management & Coordination				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$84	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Karen Fant		

Scope Definition: This WBS covers the ES&H costs for the ETS Directorate Office which provides safety oversight for the ETS Directorate. It also includes directorate-wide support for safety reviews, coordination and preparation of safety assessments and authorizations, safety oversight, environmental protection and restoration, waste management, personal safety and health, and fire/emergency protection systems. This work includes the effort to achieve the directorate strategic goals and milestones.

Profile of Fund Sources: Linac Operations

Profile of Performing Orgs: ETS Administration

APPROVALS:

	NAME	SIGNATURE	DATE
LCLS Associate Laboratory Director	Dale Knutson	<i>Dale Knutson</i>	2-2-09
LCLS Deputy Associate Laboratory Director	Mark Reichanadter	<i>Mark Reichanadter</i>	2-2-09
WBS Manager	Dave Schultz	<i>Dave Schultz</i>	2-2-09
Account Manager	Karen Fant	<i>Karen Fant</i>	2/2/09
LCLS Business Manager	Cindy Lowe	<i>Cindy Lowe</i>	2-2-09

LCLS Directorate - Work Scope Authorization

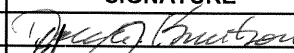




WBS No:	9.2.1	WBS Title:	Controls Department Management and Administration				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$1,537	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Hamid Shoaee		

Scope Definition:

This WBS covers the management staffing and material/services costs for the Controls Department. It includes labor costs for the Department Head, two Deputy Department Heads, Financial Analyst, department Administrative Assistant, department desktop computer support, department safety oversight, staff training and a portion of the Section Head salaries. The work includes directing and managing the four departmental sections: Software Engineering, Engineering Support, Electronics and Instrumentation Engineering, and Safety Systems. 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 to scientific/technical conferences considered essential for professional development, 2) computers, office supplies, non-capital equipment and furnishings that are mission-critical to the department, 3) office administration and technical engineering 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 Controls Department strategic goals and milestones by providing management and administrative support for all Controls Department activities. These activities include 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 division.

Profile of Fund Sources: Linac Operations

Profile of Performing Orgs: ETS Controls

APPROVALS:			
	NAME	SIGNATURE	DATE
LCLS Associate Laboratory Director	Dale Knutson		2-2-09
LCLS Deputy Associate Laboratory Director	Mark Reichanader		2-2-09
WBS Manager	Dave Schultz		2-2-09
Account Manager	Hamid Shoaee		2-2-09
LCLS Business Manager	Cindy Lowe		2-2-09

LCLS Directorate - Work Scope Authorization

WBS No:	9.2.2	WBS Title:	Controls Department Program Support				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$248	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:	Hamid Shoaee			

Scope Definition:

This WBS supports all labor, materials, and service expenses necessary to sustain a department's core competencies. This includes support of departmental quality control and training activities specific to these core technical and scientific competencies. It also includes maintaining the raw materials, parts, tools, technical software, and licenses necessary to ensure the operation of department parts or equipment, and the routine testing and maintenance of those parts or equipment. It includes support of minor improvements or modifications to equipment, products, or the facility so as to ensure the Departmental program remains current compared to "best practices" existing in the Departments' scientific field. Finally, it includes modifications of facility or equipment necessary to ensure the operational efficiency and safety of the workplace. The goals for this WBS are to ensure the smooth and efficient operation of the Department's core manufacturing and service activities and core competencies so as to remain ready and responsive to the basic needs of the LAB.

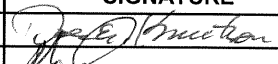
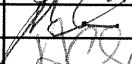


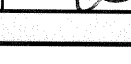
Profile of Fund Sources:

Linac Operations

Profile of Performing Orgs:

ETS Controls

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	Hamid Shoaee		2-2-09
LCLS Business Manager	Cindy Lowe		2-2-09

LCLS Directorate - Work Scope Authorization

WBS No:	9.3.1	WBS Title:	Klystron Department Management and Administration				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$1,343	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Erik Jongewaard		



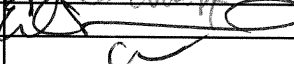


Scope Definition:

This WBS covers the management staffing and material/services costs for the Klystron Department. It includes labor costs for the Department Head, department Administrative Assistant, department desktop computer support, department safety oversight, and staff training. The work includes directing and managing the departmental sections: Manufacturing, RF Engineering Accelerator Maintenance, and Tube R&D, RF Gun Research and Klystron Test Labs Operations. 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 to scientific/technical conferences considered essential for professional development, 2) computers, office supplies, non-capital equipment and furnishings that are mission-critical to the department, 3) office administration and technical engineering 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 Klystron Department strategic goals and milestones by providing management and administrative support for all Klystron Department activities. These activities include 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 division.

Profile of Fund Sources: Linac Operations

Profile of Performing Orgs: ETS Klystron

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	Erik Jongewaard		2/2/2009
LCLS Business Manager	Cindy Lowe		2-2-09

LCLS Directorate - Work Scope Authorization

WBS No:	9.3.2	WBS Title:	Klystron Department Program Support				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$1,545	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Erik Jongewaard		

Scope Definition:

This WBS supports all labor, materials, and service expenses necessary to sustain the Klystron department's core competencies. This includes support of departmental quality control and training activities specific to core technical and scientific competencies required in the development, testing and manufacturing of klystrons. It also includes maintaining the raw materials, parts, tools, technical software, and licenses necessary to ensure the operation of department parts or equipment, and the routine testing and maintenance of those parts or equipment. It includes support of minor improvements or modifications to equipment, products, or the facility so as to ensure the Departmental program remains current compared to "best practices" existing in the Departments' scientific field. Finally, it includes modifications of facility or equipment necessary to ensure the operational efficiency and safety of the workplace. The goals for this WBS are to ensure the smooth and efficient operation of the Department's core manufacturing and service activities and core competencies so as to remain ready and responsive to the basic needs of the LAB.

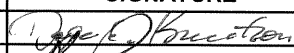




Profile of Fund Sources:

Linac Operations

Profile of Performing Orgs:

ETS Klystron

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	Erik Jongewaard		2/2/2009
LCLS Business Manager	Cindy Lowe		2-2-09

LCLS Directorate - Work Scope Authorization

WBS No:	9.4.2	WBS Title:	CAD Department Program Support				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$1,757	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:	Rick Tankersley			






Scope Definition:

This WBS supports all labor, materials, and service expenses necessary to sustain the CAD department's core competencies. This includes support of departmental quality control and training activities specific to these core technical and scientific competencies. It also includes maintaining the raw materials, parts, tools, technical software, and licenses necessary to ensure the operation of department parts or equipment, and the routine testing and maintenance of those parts or equipment. It includes support of minor improvements or modifications to equipment, products, or the facility so as to ensure the Departmental program remains current compared to "best practices" existing in the Departments' scientific field. Finally, it includes modifications of facility or equipment necessary to ensure the operational efficiency and safety of the workplace. The goals for this WBS are to ensure the smooth and efficient operation of the Department's core manufacturing and service activities and core competencies so as to remain ready and responsive to the basic needs of the LAB.

Profile of Fund Sources: Linac Operations

Profile of Performing Orgs: ETS Mechanical Design

APPROVALS:

	NAME	SIGNATURE	DATE
LCLS Associate Laboratory Director	Dale Knutson		2-2-09
LCLS Deputy Associate Laboratory Director	Mark Reichanader		2-2-09
WBS Manager	Dave Schultz		2-2-09
Account Manager	Rick Tankersley		2/2/09
LCLS Business Manager	Cindy Lowe		2-2-09

LCLS Directorate - Work Scope Authorization

WBS No:	9.5.1	WBS Title:	Mechanical Fabrication Department Management and Administration				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$44	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Karen Fant		

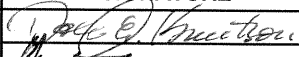
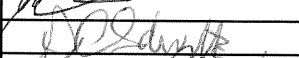
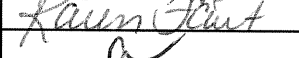


Scope Definition:

This WBS covers the portion not absorbed by the department shop rate for management staffing and material/services costs for the Mechanical Fabrication Department. It includes labor costs for the Department Head. 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 to scientific/technical conferences considered essential for professional development, 2) computers, office supplies, non-capital equipment and furnishings that are mission-critical to the department, 3) office administration and technical engineering 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 Mechanical Fabrication Department strategic goals and milestones by providing management and administrative support for all Department activities. These activities include 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 division.

Profile of Fund Sources: Linac Operations

Profile of Performing Orgs: ETS Mechanical Fabrication

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	Karen Fant		2/2/09
LCLS Business Manager	Cindy Lowe		2-2-09

LCLS Directorate - Work Scope Authorization

WBS No:	9.6.1	WBS Title:	Metrology Department Management and Administration				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$1,038	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Robert Ruland		

Scope Definition:

This WBS covers the management staffing and material/services costs for the Metrology Department. It includes labor costs for the Department Head, Deputy Department Head, a portion of the Section Head salaries as well as support for department Administrative Assistant. 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 to scientific/technical conferences considered essential for professional development, 2) computers, office supplies, non-capital equipment and furnishings that are mission-critical to the department, 3) office administration and technical engineering 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 Metrology Department strategic goals and milestones by providing management and administrative support for all Department activities. These activities include 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 division

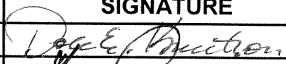
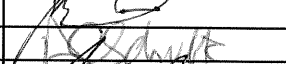
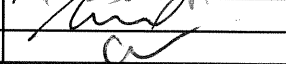


Profile of Fund Sources:

Linac Operations

Profile of Performing Orgs:

ETS Metrology

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	Robert Ruland		2/2/09
LCLS Business Manager	Cindy Lowe		2-2-09

LCLS Directorate - Work Scope Authorization


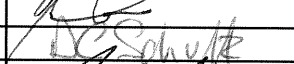
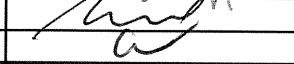


WBS No:	9.6.2	WBS Title:	Metrology Department Program Support				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$1,668	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Robert Ruland		

Scope Definition:

This WBS supports all labor, materials, and service expenses necessary to sustain a department's core competencies. This includes labor costs for department desktop computer support, department safety oversight and staff training. This includes support of departmental quality control and training activities specific to these core technical and scientific competencies. It also includes maintaining the raw materials, parts, tools, technical software, and licenses necessary to ensure the operation of department parts or equipment, and the routine testing and maintenance of those parts or equipment. It includes support of minor improvements or modifications to equipment, products, or the facility so as to ensure the Departmental program remains current compared to "best practices" existing in the Departments' scientific field. Finally, it includes modifications of facility or equipment necessary to ensure the operational efficiency and safety of the workplace. The goals for this WBS are to ensure the smooth and efficient operation of the Department's core manufacturing and service activities and core competencies so as to remain ready and responsive to the basic needs of the LAB.

Profile of Fund Sources: Linac Operations

Profile of Performing Orgs: ETS Metrology

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	Robert Ruland		2/2/09
LCLS Business Manager	Cindy Lowe		2-2-09

LCLS Directorate - Work Scope Authorization

WBS No:	9.7.1	WBS Title:	Power Conversion Department Management and Administration				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$2,574	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Craig Burkhart		


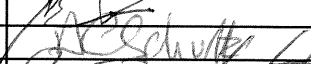



Scope Definition:

This WBS covers the management staffing and material/services costs for the Power Conversion Department. It includes a portion of labor costs for the Department Head, Deputy Department Head, some Section Heads as well as support for department Administrative Assistant. It also includes labor costs for department desktop computer support, department safety oversight and staff training. 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 to scientific/technical conferences considered essential for professional development, 2) computers, office supplies, non-capital equipment and furnishings that are mission-critical to the department, 3) office administration and technical engineering 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 Power Conversion Department strategic goals and milestones by providing management and administrative support for all Department activities. These activities include 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 division.

Profile of Fund Sources: Linac Operations

Profile of Performing Orgs: ETS Power Conversion

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	Craig Burkhart		2-2-09
LCLS Business Manager	Cindy Lowe		2-2-09

LCLS Directorate - Work Scope Authorization

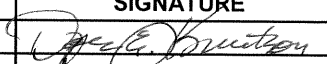
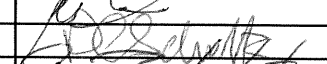



WBS No:	9.7.2	WBS Title:	Power Department Program Support				
Period of Performance:	10/1/08 - 9/30/09	Total Budget \$K:	\$546	Rev No:	0	Date Last Revised:	1/23/09
WBS Manager:	Dave Schultz		Account Manager:		Craig Burkhart		

Scope Definition:

This WBS supports all labor, materials, and service expenses necessary to sustain a department's core competencies. This includes support of departmental quality control and training activities specific to these core technical and scientific competencies. It also includes maintaining the raw materials, parts, tools, technical software, and licenses necessary to ensure the operation of department parts or equipment, and the routine testing and maintenance of those parts or equipment. It includes support of minor improvements or modifications to equipment, products, or the facility so as to ensure the Departmental program remains current compared to "best practices" existing in the Departments' scientific field. Finally, it includes modifications of facility or equipment necessary to ensure the operational efficiency and safety of the workplace. The goals for this WBS are to ensure the smooth and efficient operation of the Department's core manufacturing and service activities and core competencies so as to remain ready and responsive to the basic needs of the LAB.

Profile of Fund Sources: Linac Operations

Profile of Performing Orgs: ETS Power Conversion

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	Craig Burkhart		2-2-09
LCLS Business Manager	Cindy Lowe		2-2-09