

CESR/Photon Subscription		(control account U553700)				START 8/1/2019
						last updated 3/4/2023
Task Code	WBS	Non Fab	Fab	Approvals	Description	
CESR Operations						
	PS_01.1	U553701-PS11		Forster	Includes CESR operations program in general: including training, accelerator scheduling, operations, operators; machine studies, and modeling and analysis. Routine tuning of CESR and injectors while delivering beam in normal operations should be captured here. Also capture stand-alone capital equipment and materials and supplies as appropriate to these activities.	
	PS_01.2		U553711-PS12	Forster	Fabrication labor and purchases for things essential to CESR operations (defined above) that increase performance, reliability, or value. Labor and purchases for replacement or maintenance items ARE NOT fabrication.	
CESR Technical Support						
	PS_02.1	U553702-PS21		Barley	Installation, maintenance, repair, administrative work such as spares tracking, ordering parts, rfp's for the gun, injector, linac, transport lines, synchrotron and storage ring, including magnets, RF, vacuum, and instrumentation subsystems. If significant time is spent tuning these elements it should be included here also rather than "CESR Operations" above. Also capture stand-alone capital equipment and materials and supplies as appropriate to above activities.	
	PS_02.2		U553712-PS22	Barley	Fabrication labor and purchases for things essential to CESR Technical Support (defined above) that increase performance, reliability, or value. Labor and purchases for replacement or maintenance items ARE NOT fabrication.	
IT/Computing						
	PS_03.1	U553703-PS31		Sun	General computing services for all WBS activities captured on this page in support of CESR/Photon Subscription activities. Includes infrastructure and support for server, desktop/laptop, and network setup & maintenance and consulting. Maintenance labor, travel, & repair for computing facilities and IT infrastructure. Also capture stand-alone capital equipment and materials and supplies as appropriate to these activities.	
	PS_03.2		U553713-PS32	Sun	Fabrication labor and purchases for things essential to CESR/Photon Subscription activities (as above) that increase performance, reliability, or value. Labor and purchases for replacement or maintenance items ARE NOT fabrication.	
Cryogenics						
	PS_04.1	U553704-PS41		Sabol	Includes LHe refrigerators and distribution equipment and LN storage and distribution equipment in support of CESR/Photon Subscription activities. Also includes boil-off equipment but not GN distribution (Utilities). Also capture stand-alone capital equipment and materials and supplies as appropriate to these activities. Includes Nitrogen and Helium purchase.	
	PS_04.2		U553714-PS42	Sabol	Fabrication labor and purchases for things essential to Cryogenics in support of CESR/Photon Subscription activities (as above) that increase performance, reliability, or value. Labor and purchases for replacement or maintenance items ARE NOT fabrication.	
Engineering, Design, & Fabrication						
	PS_05.1	U553705-PS51		O'Connell	Engineering effort for all WBS activities captured on this page in support of CESR/Photon Subscription activities including design, shop drawings, ANSYS analysis, machining and assembly of such. Computing hardware, capital equipment and materials and supplies in support of that effort captured here. Does not capture stand-alone capital equipment and materials and supplies delivered to another WBS account - those costs should be charged to that "client" WBS category .	
	PS_05.2		U553715-PS52	O'Connell	Fabrication labor and purchases for things essential to Engineering, Design and Fabrication effort in support of CESR/Photon Subscription activities (as above) that increase performance, reliability, or value. Labor and purchases for replacement or maintenance items ARE NOT fabrication.	
	PS_05.2.1		U553715-PS521	O'Connell	Fabrication labor and purchases for things essential to Improved MK III Gun.	
Electronics & Instrumentation						

	PS_06.1	U553706-PS61		Barley	Includes CLASSE electronics shop repair , maintenance, assembly, testing, and design/development of equipment needed for any/all WBS activities captured on this page in support of CESR/Photon Subscription activities. Includes electronics chassis, cabling, and circuit boards. Capital equipment and materials and supplies in support of that effort captured here. Does not capture stand-alone capital equipment and materials and supplies delivered to another WBS account - those costs should be charged to that "client" WBS category .)
	PS_06.2		U553716-PS62	Barley	Fabrication labor and purchases for things essential to Electronics & Instrumentation effort in support of CESR/Photon Subscription activities (as above) that increase performance, reliability, or value. Labor and purchases for replacement or maintenance items ARE NOT fabrication.
Facilities, Utilities, General Ops and Safety					
	PS_07.1	U553707-PS71		Gallagher	Repairs, maintenance, coordination with CU Facilities for water, electric, air, steam and other general utility systems for Wilson Lab in support of CESR/Photon Subscription activities indicated on this page. Includes cooling towers, pumps, water treatment, drainage systems, fire detection systems. Maintenance, repairs, organization, coordination with CU Facilities of general building and shop areas. Includes rigging, crane work, materials handling. Includes safety programs and trainings, work unit meetings, worker safety and radiation badges, monitors, 24V interlocks, etc. Also capture stand-alone capital equipment and materials and supplies as appropriate to these activities.
	PS_07.2		U553717-PS72	Gallagher	Fabrication labor and purchases for things essential to Facilities, Utilities, General Ops and Safety in support CESR/Photon Subscription activities (as above) that increase performance, reliability, or value. Labor and purchases for replacement or maintenance items ARE NOT fabrication.
Other/Admin/Management					
	PS_08.1	U553708-PS81		Fontes	Travel, record keeping, lab management, administrative meetings, annual performance reviews, proportioned external activities (reviews, referee, talks, etc.) Explain in COMMENTS box. Any standalone capital equipment.
	PS_08.2		U553718-PS82	Fontes	Fabrication labor and purchases for things essential to CESR/Photon Subscription activities that increase performance, reliability, or value and fit no category above. Explain in COMMENTS box. Labor and purchases for replacement or maintenance items ARE NOT fabrication.