Activity	Name	B_Start	B_End	Total	Procurement	Labor	PRCRMN	PURMAT	PURL	SRSTAF	SCIENT	COMSCI	MECENG	MECDES	MECTEC	ELCENG	ELCDES	ELCTEC	UNSTA	SKLTRI	STUD	VISITR	TRAV	CONTI	BOE_P	BOE_L	BOE_E	BOE_	BOE Predecessors	Successors		description
251185a	Technical_support_for_Solenoid_commissioning	1-Mar-13	29-Mar-13	29924.61	0	29924.61	0	0	0	1	0	0	0	0	13.77	0	0	0	0	0	0	0	0	0		EJ			Non ;	;251250M;	#	to cover any issues that arrise during commissioning
251195	Repair_Solenoid_Vac_Leaks	1-Mar-13	28-Jun-13	32876.24	0	32876.24	0	0	0	1.01	0	0	4.21	4.21	4.21	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2562225;	#	Nitrogen and air leaks developed on some coils during cool down. Relief plates
251196	Repair_Solenoid_Vac_Leaks_Materials	1-Mar-13	28-Jun-13	12000	12000	0	0	12000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			EJ		Non ;	;2562225;	#	10 new o-ring plates to be fabricated, screws and orings
25211240LOE	Lease_of_equipment_for_construction_-_truck;_cleaning	1-Mar-13	30-Sep-13	5348	5348	0	5348	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		oblig			Non ;	;252111250;256	#	Blue crab
25212004a	FY13_Engineering_Support_for_Assembly_(CENT_CHAMB)	1-Mar-13	1-May-13	9923.36	0	9923.36	0	0	0	0	0.92	0	1.24	1.84	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;	#	support changes and questions
25221180a	Proc_Supprt_Struct_and_assy_tooling_(BarCal)	1-Mar-13	30-May-13	11000	11000	0	11000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ				Non ;	;2562225;	#	Templates for assembling wedges
25222006	FY13_Engineering_Support_for_Fabrication_(FWD_CAL)	1-Mar-13	29-Jul-13	6475.25	0	6475.25	0	0	0	0	0	0	0.43	2.62	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;25222100a;	#	FCAL assy
25222100a	Stacking_of_Blocks_(FWD_CAL)	1-Mar-13	28-Jun-13	9172	0	9172	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	18.8		PE			Non ;25222006;	;25222085;256	#	Stacking in hall
25222105	Assy_of_Single_Channel_FCal_Detectors_(FWD_CAL)	1-Mar-13	28-Jun-13	9172	0	9172	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	44		PE			Non ;25222080;	;2562025M;25	#	connecting PMT/cockrofts to lead glass
25511065	Proc_Pwr_Supply_(TAGGING_Mag)	1-Mar-13	19-Apr-13	20635	20635	0	20635	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ				Non ;	;2562010M;	#	Refurbish existing power supply from accelerator
25511071	Proc_Quad_Power_Supply_(TAGGING_Mag)	1-Mar-13	30-Apr-13	5493.93	5493.93	0	5493.93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	OBLIG				Non ;	;2562098;	#	Under contract
25511115	Proc._Tagger_beamline_stands	1-Mar-13	31-May-13	20500	20500	0	20500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PE				Non ;	;2562091M;25	#	procure 3 stand weldments and unistrut hardware
25512035	Fab_Final_Thin_Exit_Window_&_AL_Flange__(HODOSCP)	1-Mar-13	20-Mar-13	24146.57	24146.57	0	24146.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	oblig				Non ;	;2562080;	#	we have window material, frame due in with tagger vacuum chamber
2552005	Proc_Gas_Handling_Sys_(TARGET)	1-Mar-13	30-Sep-13	28975.9	28975.9	0	28975.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ				Non ;	;2552006;2552	#	all components for gas sytem
2552033	Procure_heat_xchngr_and_cryo_hardware	1-Mar-13	1-Aug-13	15972.26	15972.26	0	15972.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ				Non ;2552032;	;2552040;	#	heat shielding, heat exchanger for refrig and cryo lines for the target
2553015	Proc_Goniometer_(BL_Compnts)	1-Mar-13	28-May-13	76218	76218	0	76218	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	OBLIG				Non ;	;2553016;2553	#	
2553017	Procure_vacuum_gauges_and_valves_for_tagger_beamline	1-Mar-13	31-May-13	12898.75	12898.75	0	12898.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CP				Non ;	;2553016;	#	vacuum guages and valves
2553035	Proc_Pair_Spectrometer_Mag_Pwr_Supply_(BL_Compnts)	1-Mar-13	25-Mar-13	74300	74300	0	74300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	oblig				Non ;	;2562165;2532	#	due in March
2553048a	Proc_Pair_convertor_(BL_Compnts)_Labor	1-Mar-13	27-Jun-13	12571.76	0	12571.76	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0		PE			Non ;	;2553050;	#	procurement package for HARP insertion device
2553180	Eng_support_Tagger_beamline_install	1-Mar-13	13-Aug-13	5189.68	0	5189.68	0	0	0	0	0	0	1.79	0	0	0	0	0	0	0	0	0	0	0		Ej			Non ;	;2562091M;	#	installation changes and as-builts
2561155a	Assemble_BCal_readout_wedges(Assy)	1-Mar-13	23-Jul-13	31756	0	31756	0	0	0	0	0	0	3.99	0	11.01	0	0	0	0	0	0	0	0	0					Non ;2561105a;2	;2562225;	#	Assemble cooling plates(bend, braze and glue) and preassemble cmechanical c
2561155b	Assemble_BCal_readout_wedges(Assy)_Procurement	1-Mar-13	23-Jul-13	4000	4000	0	4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					Non ;2561105a;	;2562225;	#	Assemble cooling plates(bend, braze and glue) and preassemble cmechanical c
2562435	Engineering_Support_for_Detector_Installation_2013_(Installtn)	1-Mar-13	30-Sep-13	16566.08	0	16566.08	0	0	0	0	0	0	0.74	7.27	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2562235;2562	#	miscelaneous problem solving
2562440	Engineering_Support_for_Tagger_Installation_2013_(Installtn)	1-Mar-13	30-Sep-13	16286.03	0	16286.03	0	0	0	0	0	0	0.74	7.17	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2562061;2562	#	miscelaneous problem solving
2562595a	Installation_work_space_infrastructure_(TWs_Doublewide)	1-Mar-13	30-Sep-14	22000	22000	0	22000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	oblig				Non ;	;2-12M;	#	rent trailer
2562610LOE	Electrical_power_engineer_support_2013	1-Mar-13	30-Sep-13	76990.75	0	76990.75	0	0	0	0	0	0	0	0	0	26.43	0	0	0	0	0	0	0	0		PE			Non ;	;2562615LOE;	#	giles
2562640	Procure_cable_trays_and_hardware	1-Mar-13	30-Apr-13	4127.6	4127.6	0	4127.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PE				Non ;	;2562645;	#	cable trays and hardware for electronics cabling
2562685	Fiducialize_and_survey_equipment_(2013)	1-Mar-13	30-Sep-13	7712.36	1549.93	6162.43	0	1549.93	0	0	0	0	0.53	0	2.56	0	0	0	0	0	0	0	0	0		EJ	EJ		Non ;	;2-12M;	#	tooling need to support general S&A requirements
2562735	Install_Cable_trays_for_BCAL	1-Mar-13	29-Mar-13	3668.8	0	3668.8	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0					Non ;	;2562275;	#	already covered
2562785	Materials_for_install_2013	1-Mar-13	30-Sep-13	50000	50000	0	50000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PE				Non ;	;2-12M;	#	general equipment funds not necessarily tied to a single activity
2562865	Procure_lighting_fixture_under_US_platform	1-Mar-13	15-May-13	1100	1100	0	1100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PE				Non ;	;2562870;	#	additional lighting needed under upstream platform
2562248	Racks_-_Install_Hall_Lower_Level_South_(S1)	4-Mar-13	15-Mar-13	3643.2	0	3643.2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0		EJ			Non ;2562247;	;2562330;	#	mech installation of racks
2562650	Procure_power_transformers	11-Mar-13	25-Jun-13	17542.3	17542.3	0	25500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	VQ				Non ;	;2-12M;	#	7 transformers, 5 clean, 2 dirty, 480V-208V
2562755	Manufacturing_Drawings_of_field_map_fixture_for_solenoid	11-Mar-13	23-Apr-13	26402.41	0	26402.41	0	0	0	0	0	0	5	6	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2562760;	#	determine requirements and design mapping system
2552010	Proc_Controls_(TARGET)	18-Mar-13	4-Sep-13	62781.13	62781.13	0	62781.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PE				Non ;	;2552040;	#	For refrigerator, vacuum valves and H system
2562725	Fabricate_cable_tray_supports_for_upstream_platform	18-Mar-13	23-Apr-13	8200	8200	0	8200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PE				Non ;	;2562730;	#	already covered in 2561145
25221182	Procure_BCAL_SiPm_chillers	19-Mar-13	31-May-13	24765.6	24765.6	0	24765.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	VQ				Non ;	;2562235;	#	buy chillers
25511100	Proc_Turbo_Pumps_(TAGGING_Mag)	19-Mar-13	27-Mar-13	18689	18689	0	18689	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	VQ				Non ;	;2562091M;	#	turbo cube
2552001	Prepare_Procurements/Fabrication_Packages_2012_(TARGET)	19-Mar-13	25-May-13	9170.4	0	9170.4	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2552007;	#	scattering chamber and vacuum chamber
2553060	Proc_Roughing_Pump_(BL_Compnts)	19-Mar-13	30-Aug-13	6036.66	6036.66	0	6036.66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	VQ				Non ;	;2562091M;	#	for collimator beamline vacuum
2562247	Racks_-_Install_Hall_Lower_Level_North_(N1)	22-Mar-13	1-Apr-13	3643.2	0	3643.2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0					Non ;2562246;	;2562248;	#	
28241020	Cooldown_to_4_K_(SOLENOID)	22-Mar-13	1-Apr-13	2413.28	0	2413.28	0	0	0	0	0	0	0.2	0	1	0	0	0	0	0	0	0	0	0		EJ			Non ;	;28241025;	#	
2562870	Install_lighting_fixtures_under_US_platform	28-Mar-13	3-May-13	5503.2	0	5503.2	0	0	0	0	0	0	0	0	2.99	0	0	0	0	0	0	0	0	0		EJ			Non ;2562865;	;2562750;	#	additional lighting needed under upstream platform
25213015	All_Manufacturing_Drawings_for_start_counter	1-Apr-13	10-May-13	11389.2	0	11389.2	0	0	0	0	0	0	0.5	5	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;25213020;	#	Dwgs for scittilators,mandrel electronics mounts and assy
25221315	Manufacturing_Drawings_for_BCAL_cooling_manifold	1-Apr-13	3-May-13	24414	0	24414	0	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;25221320;	#	complete BCAL cooling system design
25231005	Manufacturing_Drawings_for_support_structure_(TOF)	1-Apr-13	21-May-13	20613.6	0	20613.6	0	0	0	0	0	0	3	6	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;25231045;	#	update and release dwgs based on mini-tof results
25231030	Proc_Magnetic_Shields_(TOF)	1-Apr-13	23-Jul-13	11358.55	11358.55	0	11358.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ				Non ;	;2561060M;	#	tubes to attach frame to pmts and shield them
25511095b	Proc;_calibrate;_Install_NMR_(TAGGING_Mag)_Procurement	1-Apr-13	31-May-13	11333.5	11333.5	0	11333.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ				Non ;	;2562061;	#	misc materials for installing probe
2552008	Manufacturing_Drawings_for_gas_panel_(Target)	1-Apr-13	8-May-13	31108.8	0	31108.8	0	0	0	0	0	0	8	4	0	0	0	0	0	0	0	0	0	0	EJ				Non ;	;2552006;	#	Includes pressure system documentation
2553110	Manufacturing_Drawings_for_Goniometer_vacuum_chamber	1-Apr-13	3-Jun-13	23508	0	23508	0	0	0	0	0	0	4.01	5.99	0	0	0	0	0	0	0	0	0	0		PE			Non ;	;2553016;	#	includes chamber, feedthrus and pressure system documentation
2553175	Fab_Tagger_beamline_components	1-Apr-13	7-Jun-13	11006.4	0	11006.4	0	0	0	0	0	0	0	0	5.99	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2562180;	#	Beam pipes and valves for tagger area
2562062	Fabrication_Drawings_of_field_map_fixture_for_Tagging_magnet	1-Apr-13	24-Jun-13	23508	0	23508	0	0	0	0	0	0	4.01	6	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2562063;	#	design mapping fixture
2562392	Procure_final_hardware_for_gas_systems	1-Apr-13	5-Aug-13	76000	76000	0	76000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EV				Non ;	;2562393;2532	#	includes all panels/ tubing, valves, gages, alcohol system, racks and controls ha
2562740	Manufacturing_Drawings_of_dry_air_cooling_upstream_racks/drift_chamber:	1-Apr-13	4-Jun-13	28390.81	0	28390.81	0	0	0	0	0	0	5	7	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2562745;	#	to cool under upstream platform and CDC and inside BCAL bore
2562805	Manufacturing_Drawings_of_N2_purge_system	1-Apr-13	4-Jun-13	23507.98	0	23507.98	0	0	0	0	0	0	3.99	6	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2562810;	#	pressure systems documentation
2562815	Manufacturing_Drawings_of_water_system_Tagger_hall	1-Apr-13	5-Jun-13	19531.2	0	19531.2	0	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0					Non ;	;2562820;	#	not required at this time
2562840	Procure_dirty_power_cable/conduit_tagger	1-Apr-13	7-May-13	1800	1800	0	1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PE				Non ;	;2562845;	#	for additional outlets
2553160	Manufacturing_Drawings_of_radiator_holder	2-Apr-13	5-Jul-13	13742.4	0	13742.4	0	0	0	0	0	0	2.01	3.99	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2553165;	#	work with UCONN to develop
2562705	Manufacturing_Drawings_of_Chilled_water_system_for_Hall_D	2-Apr-13	4-Jun-13	24414	0	24414	0	0	0	0	0	0	4.99	4.99	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2562710;	#	chilled water manifold to support target, FDC and dry air coolin
2562800	Install_tooling_to_roll_FCAL_platform	2-Apr-13	3-May-13	5503.2	0	5503.2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		PE			Non ;	;2562590;	#	install plates in floor
28241025	Fill_with_LHE_(SOLENOID)	3-Apr-13	11-Apr-13	2413.28	0	2413.28	0	0	0	0	0	0	0.2	0	1	0	0	0	0	0	0	0	0	0		EJ			Non ;28241020;	;28241030;	#	
28241030	Static_Test_Coils_(SOLENOID)	12-Apr-13	22-Apr-13	7770.53	1207.33	6563.2	1207.33	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0		EJ			Non ;28241025;	;28241035;	#	electrical test of superconducting coils
2562050	Install_Tagger_Pwr_Supply_(Installtn)	15-Apr-13	8-May-13	35097.45	12073.29	23024.16	12073.29	0	0	0	0	0	0	0	0	0.4	0	12	0	0	0	0	0	0	EJ	EJ			Non ;	;2562061;2532	#	Accerator group to install power and DC cable, Hall D install LCW
2562220	Fab_stand_for_PS_shielding	15-Apr-13	28-Jun-13	6500	6500	0	6500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PE				Non ;	;2562835;	#	platform to hold SEG block shielding
2562620a	Procure_Electrical_Power_cable/conduit_Part_B	15-Apr-13	30-Aug-13	36000	36000	0	36000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CP				Non ;	;2562625;	#	
2553040	Design_PS_Support_Frame	18-Apr-13	30-May-13	9785.63	0	9785.63	0	0	0	0	1	0	2	5	0	0	0	0	0	0	0	0	0	0		PE			Non ;	;2553041;	#	frame for fine and coarse granularity counters
25512056	Manufacturing_Drawings_for_Hodoscope_mag_shield_(HODOSCP)	19-Apr-13	17-Jun-13	6871.2	0	6871.2	0	0	0	0	0	0	1.01	2	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;25512060;	#	drawings for tube with clamping features
28241035	Controls_Test_Solenoid_(SOLENOID)	23-Apr-13	20-May-13	127898.53	1207.33	126691.2	1207.33	0	0	0	24	0	12	0	12	0	0	0	0	0	0	0	0	0		EJ			Non ;28241030;	;28241040;	#	testing all controls for powered operations
25221320	Procure_BCAL_cooling_manifold	24-Apr-13	19-Jul-13	6500	6500	0	6500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ				Non ;25221315;	;2562830;	#	includes valves, sensors and tubing
2562760	Fab_field_map_fixture_for_solenoid	24-Apr-13	28-Jun-13	12600	12600	0	12600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ				Non ;2562755;	;2562765;	#	fab and procure fixture hardware
25213020	Procure_start_counter_support_frame_parts	29-Apr-13	10-Jul-13	5100	5100	0	5100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ				Non ;25213015;	;25213025;	#	Rohacel/aluminum support mandrel
25511095	Proc;_calibrate;_Install_NMR_(TAGGING_Mag)	1-May-13	28-Jun-13	12392	0	12392	0	0	0	0	2	0	1	0	2	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2562061;	#	install and calibrate probe
2552032	Manufacturing_Drawings_for_cryo_system_(Target)	1-May-13	11-Jul-13	16636.8	0	16636.8	0	0	0	0	0	0	7	4	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2552033;	#	including pressure systems documentation
2562065	Install_Pwr_for_Tagger_Electrncs_(Installtn)	2-May-13	30-May-13	6036.66	6036.66	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0					Non ;	;2562095;	#	Accelerator group to help
2562212	Fabrication_Drawings_of_field_map_fixture_for_PS_magnet	2-May-13	3-Jul-13	18625.2	0	18625.2	0	0	0	0	0	0	2.99	5	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2562214;	#	design field map fixture for PS magnet
2562635	Install_air_lines_in_hall_D	3-May-13	9-Sep-13	13262.7	0	13262.7	0	0	0	0	0	0	0	0	7.23	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2-12M;	#	From gas shed to various places in hall
2562045	Install_Tagger_Magnets_&_Chamber_(Installtn)	6-May-13	6-Aug-13	64980.4	31390	33590.4	21390	10000	0	0	0	0	4	0	12	0	0	0	0	0	0	0	0	0	EJ	EJ			Non ;2562010M;	;2562061;2562	#	install stands, poles, vacuum chamber, hookup LCW, power, leak check
2553050	Proc_Pair_convertor_(BL_Compnts)	8-May-13	29-Jul-13	17026.35	17026.35	0	17026.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PE				Non ;2553048a;	;2553055;	#	HARP style device
2552020	Fab_Outer_Vac/Scattering_Chamb_(TARGET)_Procurement	9-May-13	27-Nov-13	10865.96	10865.96	0	10865.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ				Non ;2552018a;	;2552040;	#	procure rohacel and fixtures
2562645	Install_cable_trays_and_hardware	10-May-13	1-Oct-13	12473.91	0	12473.91	0	0	0	0	0	0	0	0	6.81	0	0	0	0	0	0	0	0	0		EJ			Non ;2562640;	;2-12M;25313	#	from platforms and along north wall
2552018a	Fab_Outer_Vac/Scattering_Chamb_(TARGET)_Labor	13-May-13	6-Jun-13	13900.8	0	13900.8	0	0	0	0	0	0	1	0	6	0	0	0	0	0	0	0	0	0	EJ				Non ;	;2552020;	#	Fab and glue rohacel chamber
2562626	Install Transformers and Panels in Hall D	14-May-13	7-Jul-13				25000																		PE			2562650	2562625		Harris electrical to install through facilities
2552015	Fab_Isolation_Vac_Pumping_Sys_(TARGET)	18-May-13	12-Aug-13	27768.58	27768.58	0	27768.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ				Non ;	;2552040;	#	includes vacuum chamber and exhuast out of hall
28241040	Pwr_Test_Solenoid_(SOLENOID)	21-May-13	12-Jun-13	57952.93	1207.33	56745.6	1207.33	0	0	0	0	0	12	0	12	0	0	0	0	0	0	0	0	0		EJ			Non ;28241035;	;251250M;	#	to complete all testing according to commissioning OSP
25231045	Proc_Supprt_Struct_(TOF)	22-May-13	22-Aug-13	24146.57	24146.57	0	24146.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ				Non ;25231005;	;2561060M;	#	need to make the frame, clamps, mounting/adjustment slide
251220	Maintanence_Support_Solenoid	23-May-13	30-Sep-14	47956.06	16200.01	31756.05	0	16200	0	0	0	0	4	0	11	0	0	0	0	0	0	0	0	0			EJ		Non ;251250M;	;2-13M;	#	support needed for standard maintenance of components including the power
2562225	Mount_Bcal_Modules_in_Solenoid_(Installtn)	24-May-13	7-Aug-13	95470.06	63988.45	31481.61	0	12000	0	0	0	0	1	1	14.49	0	0	0	0	0	0	0	0	0		EJ	EJ		Non ;2561105a;2	;2562235;2562	#	Assemble wedges into barrel, align and install into solenoid, includes miscelan
2562366	Manuf_drawings_for_FDC_cable_installation_tooling	24-May-13	2-Jul-13	10848.01	0	10848.01	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0		EJ			Non ;	;2562367;	#	tooling to facilitate handling FDC cable installation
2553020	Write_Control_Software_for_Goniometer_(BL_Compnts)	29-May-13	23-Aug-13	26229.6	0	26229.6	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0					Non ;2553015;	;2553025;	#	

2562820	Procure_chilled_water_components_tagger	29-May-13	25-Jun-13	3200	3200	0	3200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Non ;2562815;	;2562825;	#	not required at this time
25512060	Fab_Hodoscope_mag_shields	31-May-13	30-Aug-13	8000	8000	0	8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;25512056;	;2562080;	#	steel tubes with clamping features
251173f	Install_solenoid_vacuum_manifold	3-Jun-13	20-Jun-13	4677.72	0	4677.72	0	0	0	0	0	0	0	2.55	0	0	0	0	0	0	0	0	0		EJ	;	;251250M;	#	Install vacuum manifold at chimney location to turbo pump individual coils
25512065	Manufacturing_Drawings_for_microscope_cooling	3-Jun-13	31-Jul-13	18625.2	0	18625.2	0	0	0	0	0	0	3	5	0	0	0	0	0	0	0	0	0		EJ	Non ;	;25512070;	#	design some type of heat exchanger and do pressure sytems paper work
2552035	Fab_Positioning/Mounting_Sys_(TARGET)	3-Jun-13	30-Sep-13	59159.13	59159.13	0	59159.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;	;2552040;	#	fab mounting frame and adjustment cartridges for the target
2553041	Build_PS_Support_Frame	3-Jun-13	30-Jul-13	6200	6200	0	6200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PE		Non ;2553040;	;	#	frame mounted to PS magnet similar to hall B
2553130	Manufacturing_Drawings_of_cooling_system_for_PS_detector	3-Jun-13	19-Jul-13	21519.6	0	21519.6	0	0	0	0	0	0	4	5	0	0	0	0	0	0	0	0	0		EJ	Non ;	;2553135;	#	drawings and pressure system documentation
2562098	Install_Tagger_Quad_Stand_&_Magnet_(Installtn)	3-Jun-13	1-Jul-13	12840.8	0	12840.8	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0		EJ	Non ;25511071;25	;2562091M;25	#	install, align, hookup power and water and test
2562231	Manufacturing_Drawings_of_BCAL_Lateral_support	3-Jun-13	2-Aug-13	11754	0	11754	0	0	0	0	0	0	2	3	0	0	0	0	0	0	0	0	0		EJ	Non ;	;2562232;	#	design supports to hold BCAL wedges at 90° and 270°
2562710	Procure_Chilled_water_components	3-Jun-13	31-Jul-13	12000	12000	0	12000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2562705;	;2562715;	#	all hardware to complete system
2553016	Build_Vacuum_Housing_for_Goniometer_(BL_Compnts)	4-Jun-13	6-Nov-13	24146.57	24146.57	0	24146.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PE		Non ;2553110;25	;2553025;	#	vacuum housing and feedthrus for power and signals and gauging
2562715	Install_Chilled_water_sytem_Hall_D	5-Jun-13	15-Aug-13	14675.2	0	14675.2	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0		EJ	Non ;2562710;	;2562575;	#	Run piping from north wall to various manifolds
2562810	Procure_N2_purge_system	5-Jun-13	28-Aug-13	7600	7600	0	7600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2562805;	;2562630;	#	all hardware for nitrogen system from dewar to manifolds in hall
2562625	Install_Electrical_Dirty_Power_cable/conduit_from_Panels	14-Jun-13	7-Oct-13	14033.16	0	14033.16	0	0	0	0	0	0	0	7.66	0	0	0	0	0	0	0	0	0			Non ;2562620a;	;2-12M;	#	
25512005	Design_Hodoscope_Supprt_(HODOSCP)	17-Jun-13	27-Jul-13	15642.6	0	15642.6	0	0	0	0	0	3	3.51	0	0	0	0	0	0	0	0	0	0		EJ	Non ;	;25512010;255	#	design, analysis and dwgs for the hodoscope fixed array and microscope suppo
2562745	Fabricate_dry_air_cooling_system_up_racks/drift_chambers	17-Jun-13	7-Oct-13	11500	11500	0	11500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2562740;	;2562750;	#	to cool under upstream platform and CDC and inside BCAL bore
2553115	Manufacturing_Drawings_of_mounting_frame_for_PS_detectors	24-Jun-13	11-Jul-13	15730.8	0	15730.8	0	0	0	0	0	2	5	0	0	0	0	0	0	0	0	0	0			Non ;	;2553120;	#	
2562063	Fab_field_map_fixture_tagging_magnet	25-Jun-13	16-Oct-13	18400	18400	0	18400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2562062;	;2562061;	#	fabricate fixture and procure controls
2562367	Fabrication_of_FDC_cable_installation_tooling	25-Jun-13	2-Aug-13	16472.64	6200	10272.64	6200	0	0	0	0	0	0	5.6	0	0	0	0	0	0	0	0	0	EJ	EJ	Non ;2562366;	;2562360;	#	tooling to facilitate handling FDC cable installation
2562690	Manufacturing_Drawings_of_cooling_system_for_FCAL_dark_room	26-Jun-13	28-Aug-13	16636.8	0	16636.8	0	0	0	0	0	3	4.01	0	0	0	0	0	0	0	0	0	0		EJ	Non ;	;2562695;	#	dry air cooling for inside dark room
2561110	Receive_CDC_(Assy)	27-Jun-13	11-Jul-13	35434.12	2656.12	32778	2656.12	0	0	0	0	0	0	0	5	10	0	0	0	0	0	0	0		EJ	Non ;295212260;2	;2561115;	#	Ssy and test of preamp cards etc
2562825	Install_Chilled_water_components_tagger	27-Jun-13	26-Sep-13	11006.4	0	11006.4	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0			Non ;2562820;	;2562590;	#	not required at this time
2552013	Procure_explosion_proof_vaccum_pump_for_H2_target	1-Jul-13	30-Sep-13	29500	29500	0	29500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	VQ		Non ;	;2562175;	#	Includes gaging and valves
2552025	Fab_Target_Cells_(TARGET)	1-Jul-13	3-Sep-13	1800	1800	0	1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	PE		Non ;2552023aa;	;2552040;	#	2nd cell
2562393	Install/test_gas_systems	1-Jul-13	22-Oct-13	77683.28	0	77683.28	0	0	0	0	1.71	0	4	4	29.01	0	0	0	0	0	0	0	0		EJ	Non ;2562392;	;2562390;	#	includes all panels/ tubing, valves, gages, alcohol system, racks and controls ha
2562180	Install_Photon_BL_Tag_Hall_(Installtn)	2-Jul-13	12-Sep-13	12190.34	3018.33	9172.01	3018.33	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	EJ	EJ	Non ;2562098;25	;2-12M;	#	from tagger to downstream wall beam pipe and vacuum valves/ guaging
2562765	Field_map_solenoid	3-Jul-13	3-Sep-13	12066.4	0	12066.4	0	0	0	0	0	0	1	0	5.01	0	0	0	0	0	0	0	0		EJ	Non ;2562760;	;2562380;	#	perform mapping
2562214	Fab_field_map_fixture_for_PS_magnet	5-Jul-13	30-Sep-13	7100	7100	0	7100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2562212;	;2562216;	#	Fab field map fixture and procure controls/hdwre
2561145	Rail_Mounting_for_FDC_(Assy)	8-Jul-13	20-Aug-13	59660.15	32610.04	27050.11	16500	0	0	0	0	0	2	0	0	0	0	3.61	0	0	0	0	0			Non ;2561140;25	;2562360;	#	Installation of upper platform, cable tray supports and rails for FDC Installation
2553165	Fab_radiator_holder	9-Jul-13	30-Sep-13	3600	3600	0	3600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2553160;	;2553025;	#	Frame for diamond crystal
2562085	Racks_-_Install_Tagger	11-Jul-13	22-Aug-13	1821.6	0	1821.6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0		EJ	Non ;	;2562090;2562	#	4 rack mechanical install
2553120	Procure_mounting_frame_for_PS_detectors	12-Jul-13	8-Oct-13	5100	5100	0	5100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			Non ;2553115;	;2553125;	#	
2562730	Install_Upstream_cable_trays_(FDC/CDC/SC)	12-Jul-13	29-Jul-13	9172	0	9172	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0		EJ	Non ;2562225;25	;2562370b;	#	install supports and trays under platform
2562330	Racks_-_Install_Hall_Upper_Level_Upstream_(U2)	16-Jul-13	30-Jul-13	7286.4	0	7286.4	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0		EJ	Non ;2562248;	;2562335;2-12	#	mech installation of racks
2562465	Erect_Dark_Room_for_Fcal_(Installtn)	16-Jul-13	12-Aug-13	32531.79	2414.67	30117.12	2414.67	0	0	0	0	2.8	0	12	0	0	0	0	0	0	0	0	0		EJ	Non ;2562025M;	;2562482;2562	#	Install o onto platform and hook up power and cooling and interlocks
2562096	Install_Permanent_Magnet_Stand_(Installtn)	18-Jul-13	22-Aug-13	1834.4	0	1834.4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0		EJ	Non ;2562095;	;2562097;	#	2 stands plus initial alignment
2562850	Procure_UPS_system_for_critical_controls	18-Jul-13	27-Sep-13	4600	4600	0	4600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;	;2562855;	#	UPS power to keep critical systems in hall D running in the event of a power ou
2552006	Install_Gas_Handling_Sys_(TARGET)	19-Jul-13	30-Dec-13	39298.8	24165	15133.8	24165	0	0	0	0	0	0	8.25	0	0	0	0	0	0	0	0	0		EJ	Non ;2552008;25	;2552040;	#	techs welding, fitting and bending of components
2562830	Install_BCAL_cooling_manifold	22-Jul-13	20-Sep-13	7337.6	0	7337.6	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0		EJ	Non ;25221320;	;2532135;2562	#	install onto both faces of solenoid and hook up chillers
2562400	Racks_-_Install_Hall_Upper_Level_Downstream_(D2)	26-Jul-13	19-Aug-13	7286.4	0	7286.4	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0		EJ	Non ;2562330;	;2-12M;25624	#	mech installation of racks
2562473	Install_cable_trays_on_FCAL_platform_(FCAL/TOF)	26-Jul-13	30-Aug-13	11389.76	0	11389.76	0	0	0	0	0	1.4	0	4	0	0	0	0	0	0	0	0	0		EJ	Non ;2562400;	;2562475;	#	cable tray install for TOF and FCAL
25211250	Disassembly_of_the_construction_equipment_and_site_-_labor_and_forklift_	1-Aug-13	30-Aug-13	11082	840	10242	0	840	0	0.5	0.5	0	0	4	0	0	0	0	0	0	0	0	0		EJ	Non ;25211240LO	;2-12M;	#	Blue crab
25222080	Fabricate_FCAL_Monitoring_System_(FWD_CAL)	1-Aug-13	9/31/2013	13289.72	10648.18	2641.54	10648.18	0	0	0	0	0	0	1.45	0	0	0	0	0	0	0	0	0		EJ	Non ;	;25222105;	#	plexiglass sheets made
2562770	Manufacturing_Drawings_of_fixture_for_commissioning_target	1-Aug-13	1-Nov-13	23507.99	0	23507.99	0	0	0	0	0	3.99	6	0	0	0	0	0	0	0	0	0	0		EJ	Non ;	;2562775;	#	initial solid commissioning target and insertion cart
2553170	Procure_goniometer_vacuum_pump/instrumentation	2-Aug-13	30-Sep-13	29100	29100	0	29100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CP		Non ;	;2553025;	#	turbo pump and vacuum and feedthrus
2553185	Manufacturing_Drawings_of_Photon_beamline_to_dump	2-Aug-13	18-Sep-13	16636.8	0	16636.8	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0	0		EJ	Non ;	;2553190;	#	from fcal to photon dump
2553135	Procure_cooling_system_for_PS_detector	5-Aug-13	1-Nov-13	5600	5600	0	5600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2553130;	;2562165;	#	fans/chillers
2562232	Fab_BCAL_lateral_support	5-Aug-13	30-Sep-13	3800	3800	0	3800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2562231;	;2562233;	#	fabricate supports to hold BCAL wedges at 90° and 270°
2562060	Survey_&_Align_tagger_beamline_(Installtn)	7-Aug-13	20-Aug-13	45384.97	24146.57	21238.4	0	0	0	0	0	0	1	0	10	0	0	0	0	0	0	0	0		PE	Non ;2562045;25	;2562061;	#	survey group time
2552007	Install_Gas_Tank_(TARGET)	8-Aug-13	31-Oct-13	18500	18500	0	18500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2552001;	;2552040;	#	Pour concrete pads and install hydrogen tank and lines
2562165	Install_Pair_Spectrometer_(Installtn)	8-Aug-13	25-Sep-13	16318.23	7243.99	9074.24	7243.99	0	0	0	0	0	0.6	0	4	0	0	0	0	0	0	0	0		EJ	Non ;2553035;25	;2-12M;	#	work with North carolina to install low granularity
2562230	Attach_readout_wedges_to_the_BCAL_modules_in_situ_(Installtn)	8-Aug-13	25-Sep-13	61776.3	7364.7	54411.6	7364.7	0	0	0	0	0	1	1	27	0	0	0	0	0	0	0	0	EJ	EJ	Non ;2562435;29	;2562235;	#	physically attach modules and make light tigh/ hook up cooling connections
2562250	Install_Pwr_to_Racks_Platform_#1_(Installtn)	8-Aug-13	3-Sep-13	37512.05	22939.25	14572.8	22939.25	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0		EJ	Non ;2562245;	;2562280;	#	Run clean power from panels to racks
2561140	Receive_FDC_(Assy)	15-Aug-13	20-Aug-13	20464	0	20464	0	0	0	0	0	0	2	0	8	0	0	0	0	0	0	0	0			Non ;25211220;2	;2562360;2561	#	Lubomir
25512070	Fab_microscope_cooling	19-Aug-13	31-Oct-13	7900	7900	0	7900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;25512065;	;2562080;	#	small chiller and heat exchanger
2562360	Install_FDC_on_Platform_(Installtn)	19-Aug-13	26-Aug-13	10861.82	3621.98	7239.84	3621.98	0	0	0	0	0	0.6	0	3	0	0	0	0	0	0	0	0			Non ;2561140;25	;2562365;	#	Lubomir
2562405	Install_Pwr_to_Racks_Platform_#3_(Installtn)	20-Aug-13	22-Oct-13	24146.57	24146.57	0	24146.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2562400;	;2531310;2-12	#	Run clean power from panels to racks
25213025	Assemble_start_counter_support_frame	21-Aug-13	3-Sep-13	10231.99	0	10231.99	0	0	0	0	0	0	1	0	4.01	0	0	0	0	0	0	0	0		EJ	Non ;25213020;	;2562175;	#	gluing rohacel and mandrel pieces
2562097	Install_Permanent_Magnet_(Installtn)	25-Aug-13	22-Sep-13	7337.6	0	7337.6	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0		EJ	Non ;2562096;	;2562091M;	#	Install/align magnet
2562275	Cables_-_Install_on_Trays_Detector_to_Racks_BCAL	27-Aug-13	17-Sep-13	21859.2	0	21859.2	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0		EJ	Non ;2547175;25	;2562280;2562	#	need to do this before FDC/CDC cabling
2562365	Alignment_of_FDC_(Installtn)	27-Aug-13	5-Sep-13	8397.6	0	8397.6	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0			Non ;2562360;	;2562370;	#	Lubomir
25512005a	Construct_Hodoscope_Supprt_(HODOSCP)	29-Aug-13	9-Nov-13	23424.13	23424.13	0	23424.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;25512005;	;25512010;	#	procure support materials
2562630	Install_nitrogen_lines_in_hall_D	29-Aug-13	13-Jan-14	13262.71	0	13262.71	0	0	0	0	0	0	0	7.22	0	0	0	0	0	0	0	0	0		EJ	Non ;2562810;	;2-12M;	#	From dewar into various places in the hall
2562335	Install_Pwr_to_Racks_Platform_#2_(Installtn)	30-Aug-13	2-Oct-13	36219.88	36219.88	0	36219.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2562330;	;2-12M;	#	Run clean power from panels to racks
2553140	Manufacturing_Drawings_of_Amorphous_target_insertion_device_(E-beam)	3-Sep-13	30-Oct-13	17719.2	0	17719.2	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0		EJ	Non ;	;2553145;	#	stand alone commissioning target
2562695	Fab_cooling_system_for_FCAL_dark_room	3-Sep-13	31-Oct-13	7900	7900	0	7900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2562690;	;2532150;2562	#	dry air cooling for inside dark room
2562875	Develop_flammable_gas_detection_system_in_solenoid	3-Sep-13	4-Nov-13	23331.6	0	23331.6	0	0	0	0	0	6.01	2.99	0	0	0	0	0	0	0	0	0	0		EJ	Non ;	;2562880;	#	for hydrogen target and possible ethane in drift chambers
2562216	Field_Map_PS_magnet	5-Sep-13	18-Oct-13	7623.2	0	7623.2	0	0	0	0	0	2.01	0	1	0	0	0	0	0	0	0	0	0		EJ	Non ;2562214;	;2-12M;	#	Perform field map of PS magnet
2562835	Install_PS_shielding	9-Sep-13	8-Oct-13	3668.8	0	3668.8	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		EJ	Non ;2562220;	;2-12M;	#	move from storage and install on upstream platform
2553190	Fabricate_photon_beamline_to_dump	12-Sep-13	27-Nov-13	12200	12200	0	12200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	EJ		Non ;2553185;	;2553195;	#	from fcal to photon dump
2562245	Racks_-_Install_Hall_Lower_Level_Upstream_(U1)	25-Sep-13	4-Oct-13	7286.4	0	7286.4	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0		EJ	Non ;2562085;	;2562246;2562	#	mech installation of racks
2562246	Racks_-_Install_Hall_Lower_Level_Upstream_South_(US1)	25-Sep-13	4-Oct-13	3643.2	0	3643.2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0		EJ	Non ;2562245;	;2562247;	#	mech installation of racks
2562275a	Cables_-_Route_and_Connect_on_Detector_BCAL	27-Sep-13	7-Nov-13	7286.4	0	7286.4	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0		EJ	Non ;2562275;	;2562275b;	#	need to do this before FDC/CDC cabling
2562480	Install_Calibration_Sys_for_Fcal_(Installtn)	30-Sep-13	11-Oct-13	14960.8	0	14960.8	0	0	0	0	0	0	2	0	5	0	0	0	0	0	0	0	0		EJ	Non ;25222085;2	;2562450;	#	install acrylic panels onto FCAL
2552023aa	Fab_Target_Cells_(TARGET)_Labor_Revised_2012_ETC	1-Oct-13	3-Nov-13	5172.1	0	5172.1	0	0	0	0	0	0	0	2.82	0	0	0	0	0	0	0	0	0		PE	Non ;	;2552025;	#	Fab 2nd cell
2561115	Mounting_CDC_(Assy)	1-Oct-13	28-Oct-13	43309.62	30183.22	13126.4	30183.22	0	0	0	0	0	2	0	4	0	0	0	0	0	0	0	0		EJ	Non ;2561110;	;2561120;	#	install onto installation cart and platform
2562205	Install_Computers_in_Counting_Room_(Installtn)_Part_A	1-Oct-13	28-Oct-13	9472	0	9472	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0		PE	Non ;2531005f;25	;2562210;	#	NIM, CAEN, Wiener, VME, VXS crates installations
2562206	Install_Computers_in_Counting_Room_(Installtn)_Part_B	1-Oct-13	23-Oct-13	9472	0	9472	0	0	0	0	2	0	0	0	0	0	0	2	0	0	0	0	0		PE	Non ;2531027;25	;2-12M;	#	Install computers in the counting house
2562233	Install_BCAL_lateral_support	1-Oct-13	1-Nov-13	3668.8	0	3668.8	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0		EJ	Non ;2562232;	;2562235;	#	weld supports to hold BCAL wedges at 90° and 270°
2562445	Engineering_Support_for_Installation_2014_(Installtn)	1-Oct-13	30-Sep-14	100726.82	0	100726.82	0	0	0	0	0	19.02	23.01	0	0	0	0	0	0	0	0	0	0		EJ	Non ;2553013E;	;2-12M;	#	miscelaneous problem solving
2562615LOE	Electrical_power_engineer_support_2014	1-Oct-13	30-Sep-14	64072.81	0	64072.81	0	0	0	0	0	0	0	0	21.99	0	0	0	0	0	0	0	0		PE	Non ;2562610LOE	;2-12M;	#	giles
2562750	Install_dry_air_cooling_system_up_racks/drift_chamber	4-Oct-13	19-Nov-13	13900.8	0	13900.8	0	0	0	0	0	0	1	0	6	0	0	0	0	0	0	0	0		EJ	Non ;2562745;25	;2562570;	#	to cool under upstream platform and CDC and inside BCAL bore
2562855	Install_UPS_system_for_critical_controls	4-Oct-13	13-Jan-14	9172	0	9172	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0		EJ	Non ;2562850;	;2-12M;	#	UPS power to keep critical systems in hall D running in the event of a power ou
25512006	Manufacturing drawings for microscope adjustable support table	9-Oct-13	22-Dec-13																											
2561120	Alignment_CDC_(Assy)	9-Oct-13	6-Nov-13	29921.6	0	29921.6	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	PE	Non ;2561115;	;2561125;	#	fiducialize CDC frame
2553125	Install_mounting_frame_for_PS_detectors	15-Oct-13	7-Nov-13	7337.6	0	7337.6	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0		EJ	Non ;2553120;	;2562165;	#	install in hall
2562061	Field_Map_Tagging_Magnet_(Installtn)	17-Oct-13	21-Jan-14	23684	0	23684	0	0	0	0	2	0	3	0	5	0	0	0	0	0	0	0	0		EJ	Non ;2551109 5b;;	;2562080;2562	#	Install and test fixture and map the magnet
2562700	Install_Cooling_system_for_FCAL_dark_room	18-Oct-13	15-Nov-13	5503.2	0	5503.2	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0		EJ	Non ;2562695;	;2562590;	#	dry air cooling for inside dark room
2562285	Install_CDC_onto_Detector_(Installtn)	21-Oct-13	23-Oct-13	5696.27	2414.67	3281.6	2414.67	0	0	0	0	0	0.5	0	1	0	0	0	0	0	0	0	0			Non ;2562435;25	;2-12M;25623	#	repeat of 2561115
2553150	Manufacturing_Drawings_of__polarimeter_vacuum_chamber	30-Oct-13	30-Dec-13	20613.6	0	20613.6	0	0	0	0	0	0	3	6	0	0	0	0	0	0	0	0	0	0	EJ	Non ;	;2553155;	#	documentation and drawings

2552028	Prepare_Procurements/Fabrication_Packages_solid_target_(TARGET)	31-Oct-13	31-Dec-13	11006.4	0	11006.4	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0 EJ		Non ;	;2552028a;255	#	work with MIT to develop drawings
25212004b	Prepare as built drawings for CDC	1-Nov-13	19-Dec-13	9923.36	0	9923.36	0	0	0	0	0	0	1	5	0	0	0	0	0	0	0	0	0	EJ	fy13	end of project		update all CDC drawings for as-built an CMU
25222085	Installation_FCAL_Monitoring_System_(FWD_CAL)	1-Nov-13	5-Dec-13	13930.32	6592.72	7337.6	6592.72	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	EJ	Non ;25222100a;2	;2562480;	#	install leds and panels
2562380	Insertion_of_FDC_(Installtn)	1-Nov-13	15-Nov-13	25952.09	12073.29	13878.8	12073.29	0	0	0	0	0	0.8	0	4	0.2	0	2	0	0	0	0	0		Non ;2562765;25	;2562385;2562	#	Lubomir
2562385	Cooling_Sys_Checks_for_FDC_(Installtn)	1-Nov-13	27-Nov-13	4826.56	0	4826.56	0	0	0	0	0	0	0.4	0	2	0	0	0	0	0	0	0	0		Non ;2562380;	;2562390;	#	Lubomir
2553145	Fab_Amorphous_insertion_device_(e-beam)	4-Nov-13	31-Jan-14	19500	19500	0	19500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		Non ;2553140;	;2553025;	#	stand alone commissioning target
2562775	Fab_Fixture_for_commissioning_target	4-Nov-13	31-Jan-14	8000	8000	0	8000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 EJ		Non ;2562770;	;2562780;	#	initial solid commissioning target and insertion cart
2562880	Procure_flammable_gas_detection_system	5-Nov-13	31-Jan-14	8200	8200	0	8200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 EJ		Non ;2562875;	;2562885;	#	for hydrogen target and possible ethane in drift chambers
2561125	Operational_Checks_CDC_(outside_Solenoid)_(Assy)	7-Nov-13	2-Dec-13	11295.4	0	11295.4	0	0	0	0	1	0	0.5	0	1	0.5	0	2.01	0	0	0	0	0		Non ;2561120;	;2562015M;	#	Beni
2561160	Receive_TOF_Detector_Units_(Assy)	7-Nov-13	20-Nov-13	3281.6	0	3281.6	0	0	0	0	0	0	0.5	0	1	0	0	0	0	0	0	0	0	EJ	Non ;2561060M;	;2561165;	#	unpackage TOF wrapped paddles
2562390	Operation_Checks_FDC_(Inside_Solenoid)_(Installtn)	19-Nov-13	30-Sep-14	76153.6	0	76153.6	0	0	0	0	20	0	1	0	3.03	2.03	0	2.03	0	0	0	0	0		Non ;2562385;25	;2562305;	#	Lubomir
2561165	Mount_TOF_Counters_onto_Detector_Frame_(Assy)	21-Nov-13	20-Dec-13	36735.4	10865.96	25869.44	10865.96	0	0	0	0	0	2.6	0	10	0	0	0	0	0	0	0	0 EJ	EJ	Non ;2561160;	;2562450;	#	assemble paddles onto frame
2552040	Assemble_Target_(TARGET)	2-Dec-13	10-Jun-14	22298.43	0	22298.43	0	0	0	0	0	0	2.01	0	9.02	0	0	0	0	0	0	0	0	EJ	Non ;2552020;25	;2562485;2562	#	labor to assemble target, scattering chamber, vacuum chamber, cart and cryo
2562300	Insertion_CDC_(Installtn)	4-Dec-13	18-Dec-13	18344	0	18344	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	EJ	Non ;2562285;	;2562305;2562	#	install into solenoid and check systems, hookup cooling
2562255	Install_Cooling_to_Racks_Under_Platform_#1_(Installtn)	6-Dec-13	3-Feb-14	36219.88	36219.88	0	36219.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 EJ		Non ;2562245;	;2562235;	#	dry air cooling system
2562303	Install_Laser_Alignment_System_(Installtn)	18-Dec-13	8-Jan-14	10232	0	10232	0	0	0	0	0	0	1	0	4	0	0	0	0	0	0	0	0	EJ	Non ;2562300;	;2562305;	#	some type of system to check alignment
2553055	Assemble_and_Test_Pair_convertor_(BL_Compnts)	20-Dec-13	3-Feb-14	50223.98	0	50223.98	0	0	0	0	10	0	2	4	4	0	0	0	0	0	0	0	0 EJ		Non ;2553050;25	;2562170;	#	Install into beamline and test
2562450	Install_TOF_Sys_(Installtn)	30-Dec-13	28-Jan-14	10860.45	1207.33	9653.12	1207.33	0	0	0	0	0	0.8	0	4	0	0	0	0	0	0	0	0	EJ	Non ;2562480;25	;2562455;2-12	#	Instal TOF frame onto FCAL platform and fiducialize
2552028a	Fabricate_solid_target_(proc)	2-Jan-14	26-Mar-14	21296.35	21296.35	0	21296.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 EJ		Non ;2552028;	;2552040;	#	procure hardware for solid target (support arm, foil etc)
25512007	Fabricate microscope adjustable support table	3-Jan-14	26-Feb-14																									
2562860	Install_Electron_beamline_to_dump	6-Jan-14	19-Feb-14	7337.6	0	7337.6	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	EJ	Non ;	;2-12M;	#	from tagger to dump. Install stands, beampipe ind instrumentation
2562885	Install_flammable_gas_detection_system	10-Jan-14	11-Mar-14	14186.4	0	14186.4	0	0	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	EJ	Non ;2562880;	;2-12M;	#	for hydrogen target and possible ethane in drift chambers
2553195	Install_photon_beamline_to_dump	27-Jan-14	21-Mar-14	9172	0	9172	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	EJ	Non ;2553190;	;2562091M;	#	from fcal to photon dump
2552028b	Fabricate_solid_target_(labor)	30-Jan-14	25-Apr-14	19557.98	0	19557.98	0	0	0	0	0	0	0.99	0.99	7.99	0	0	0	0	0	0	0	0	EJ	Non ;2552028;	;2552040;	#	fabricate hardware for solid target (support arm, foil etc)
2562181	Install_Photon_BL_Colli._Cave_(Installtn)	1-Feb-14	1-Apr-14	8521.52	3018.32	5503.2	3018.32	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0 EJ	EJ	Non ;2562170;	;2-12M;	#	install beam pipe, radiator, valves and instrumentation
2553025	Check_Operation_of_Goniometer_(BL_Compnts)	3-Feb-14	5-May-14	32058.41	0	32058.41	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	EJ	Non ;2553165;25	;2562091M;	#	operation in situ
2553200	Manufacturing_Drawings_of_Total_Absorption_Counter	3-Feb-14	7-Mar-14	18625.2	0	18625.2	0	0	0	0	0	0	3.01	5	0	0	0	0	0	0	0	0	0	EJ	Non ;	;2553205;	#	Mount near photon dump on wall
2562235	Comp_B-cal_Assy_(Installtn)	4-Feb-14	18-Feb-14	11700.91	2414.67	9286.24	2414.67	0	0	0	0	0	0.8	0	3.8	0	0	0	0	0	0	0	0	EJ	Non ;2562233;25	;2-12M;	#	double check all mechanical systems
2562170	Install_Photon_Monitors_Harp_(Installtn)	26-Feb-14	31-Mar-14	16345.75	12676.95	3668.8	0	0	####	0	0	0	0	0	2	0	0	0	0	0	0	0	0	EJ	Non ;2553055;	;2562181;2-12	#	maybe harp style in collimator?
25512008	Install microscope adjustable support table	1-Mar-14	29-Mar-14																									
2562080	Install_Hodoscope_(Installtn)	4-Mar-14	17-Mar-14	20568.65	12073.29	8495.36	0	0	####	0	0	0	0.4	0	4	0	0	0	0	0	0	0	0 EJ	EJ	Non ;2546585;25	;2562095;	#	mechanical installation of fixed array
2562780	Install_Commissioning_target	4-Mar-14	1-Apr-14	5503.2	0	5503.2	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	EJ	Non ;2562775;	;2-12M;	#	initial solid commissioning target and insertion cart
2553205	Fabricate_Total_Absorption_Counter_Support	1-Apr-14	30-Jun-14	6300	6300	0	6300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 EJ		Non ;2553200;	;2553210;	#	Mount near photon dump on wall
2562485	Install_Start_Counter_Onto_Target_(Installtn)	17-Jun-14	30-Jun-14	17569.6	0	17569.6	0	0	0	0	0	0	1	0	8	0	0	0	0	0	0	0	0	EJ	Non ;2521300 5;2	;2562490;2562	#	mechanical and electronic hookup with air cooling
2562490	Cables_-_Install_on_Trays_Detector_to_Racks_Start_Counter	17-Jun-14	18-Jun-14	1821.6	0	1821.6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	EJ	Non ;2547145;25	;2562495;2562	#	
2562490a	Cables_-_Route_and_Connect_on_Detector_Start_Counter	19-Jun-14	20-Jun-14	1821.6	0	1821.6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	EJ	Non ;2562490;	;2562490b;	#	
2562490b	Cables_-_Route_on_Racks_Start_Counter	23-Jun-14	24-Jun-14	1821.6	0	1821.6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	EJ	Non ;2562490a;	;2562490c;	#	
2562490c	Cables_-_Connect_to_Crate_Electronics_Start_Counter	25-Jun-14	26-Jun-14	1821.6	0	1821.6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	EJ	Non ;2562490b;	;2562565;	#	
2553210	Install_Total_Absorption_Counter	1-Jul-14	8-Aug-14	17208.8	500	16708.8	0	500	0	0	0	2	2	0	3	0	0	0	0	0	0	0	0	EJ	Non ;2553205;	;2-12M;	#	Mount near photon dump on wall
2562175	Install_Target_and_Start_Counter_Inside_Detector_(Installtn)	1-Jul-14	15-Jul-14	53496.97	24146.57	29350.4	6000	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0 EJ	EJ	Non ;25213025;2	;2-12M;	#	install and test the entire target/SC system mechanical
2553155	Fab_polarimeter_vacuum_chamber	2-Nov-14	19-Mar-14	5900	5900	0	5900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 EJ		Non ;2553150;	;2553055;	#	chamber and supports
				11474597	5053737	6420859	4823304	84785	####	42	565	13	339	212	675	308	2	523	0	0	8	25	0	327				#	
																												#	

Claim items in February or delete if they were added in an earlier version

activity that was modified

specific cell that was modified

new activity

changes since last submitted to Eugene

need to be reworked and chimney on coil 2 needs to be opened

:omponents
:omponents

ırdware

supply and vacuum gages and controllers
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system