

	ID	Name	Start	End	Res	Estimat	Billing Rat	Estimate	Dur	Fixed
					ID	(Hours)		(Cost)		Dur?
		EDI (Engineering, Design, Integration)	4/18/2012	10/16/2012					130	☐
		Integration	4/18/2012	9/4/2012	me1		\$133.00		100	☒
		Enclosure Final Design	5/16/2012	6/8/2012	me1	24.0	\$133.00	\$3,192.00	18	☐
					mt1	24.0	\$82.00	\$1,968.00		
		Carrier plate design	7/13/2012	7/26/2012	me1	60.0	\$133.00	\$7,980.00	10	☐
		InterfacePlate Design	7/26/2012	8/1/2012					5	☐
		Central manifold design	8/21/2012	8/31/2012	me1	60.0	\$133.00	\$7,980.00	9	☐
		Internal Shield Design	9/26/2012	10/3/2012	me1	40.0	\$133.00	\$5,320.00	6	☐
		Base Design	4/18/2012	5/24/2012	ee1	40.0	\$134.00	\$5,360.00	27	☐
					me1	16.0	\$133.00	\$2,128.00		
					ph1	40.0	\$0.00	\$0.00		
		Heatsink Design	8/7/2012	8/10/2012	me1	24.0	\$133.00	\$3,192.00	4	☐
		Window pressure test chamber design	4/18/2012	5/22/2012	me1	24.0	\$133.00	\$3,192.00	25	☐
		Hexapod Handling Fxture design	9/5/2012	9/20/2012	me1	80.0	\$133.00	\$10,640.00	12	☐
		Assembly Fixturing and Tooling design	7/26/2012	8/21/2012	me1	40.0	\$133.00	\$5,320.00	19	☐
					mt1	40.0	\$82.00	\$3,280.00		
		ICMOL coat chamber modification	5/16/2012	5/18/2012	me1	24.0	\$133.00	\$3,192.00	3	☐
		Window shipping container	7/31/2012	8/2/2012	me1	16.0	\$133.00	\$2,128.00	3	☐
		Energy plane shipping container	10/9/2012	10/16/2012	me1	40.0	\$133.00	\$5,320.00	6	☐
		prototyping	4/18/2012	6/29/2012					53	☐
		base prototyping	4/18/2012	4/24/2012	ph1	24.0	\$0.00	\$0.00	5	☐
		first enclosure assembly	6/27/2012	6/29/2012	me1	24.0	\$133.00	\$3,192.00	3	☐
		initial vacuum test, no PMT	4/20/2012	4/25/2012	ph1	10.0	\$0.00	\$0.00	4	☐
					me1	24.0	\$133.00	\$3,192.00		
		install into pressure chamber	4/26/2012	4/27/2012	me1	16.0	\$133.00	\$2,128.00	2	☐
		vacuum/pressure test	5/1/2012	5/3/2012	me1	24.0	\$133.00	\$3,192.00	3	☐
		install PMT- check optical coupling	5/10/2012	5/15/2012	me1	24.0	\$133.00	\$3,192.00	4	☐
		window pressure test chamber fab	5/23/2012	5/25/2012	ma1	24.0	\$156.00	\$3,744.00	3	☐
		field simulator design&fab	4/18/2012	5/30/2012	me1	24.0	\$133.00	\$3,192.00	31	☐
					ma1	16.0	\$156.00	\$2,496.00		
		HV test	5/31/2012	6/5/2012	me1	24.0	\$133.00	\$3,192.00	4	☐
		base potting mold, design&fab	5/25/2012	5/29/2012	mt1	24.0	\$82.00	\$1,968.00	3	☐
		Mechanical Fabrications	4/18/2012	10/26/2012					138	☐
		Radiopurity Measurements	4/18/2012	8/23/2012					92	☐
		sapphire windows	4/18/2012	5/9/2012	proc		\$1.00	\$1,000.00	16	☒
		optical pads	5/10/2012	5/14/2012	proc		\$1.00	\$500.00	3	☒
		copper pipe	5/15/2012	6/5/2012	proc		\$1.00	\$1,000.00	16	☒
		copper plate	6/6/2012	6/27/2012	proc		\$1.00	\$1,000.00	16	☒
		polyethylene, field cage 1	6/28/2012	7/19/2012	proc		\$1.00	\$1,000.00	16	☒
		polyethylene, fied cage 2	7/20/2012	8/10/2012	proc		\$1.00	\$1,000.00	16	☒
		heat conducting epoxy 1	7/20/2012	7/24/2012	proc		\$1.00	\$500.00	3	☒
		heat conducting epoxy 2	7/25/2012	7/27/2012	proc		\$1.00	\$500.00	3	☒
		heat conducting epoxy 3	7/30/2012	8/1/2012	proc		\$1.00	\$500.00	3	☒
		heat conducting epoxy 4	8/2/2012	8/23/2012	proc		\$1.00	\$1,000.00	16	☒
		heat sinks fab	8/10/2012	8/15/2012	mt1	24.0	\$82.00	\$1,968.00	4	☐
		sapphire window procurement	5/4/2012	8/23/2012	me1	24.0	\$133.00	\$3,192.00	80	☒
					proc		\$1.00	\$70,000.00		
		Enclosures fab	6/11/2012	7/12/2012	me1	128.0	\$133.00	\$17,024.00	24	☐
					ma1	40.0	\$156.00	\$6,240.00		
					proc		\$1.00	\$25,000.00		

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				ID	(Hours)		(Cost)		Dur?
	Carrier plate fab	7/26/2012	8/16/2012	me1	16.0	\$133.00	\$2,128.00	16	☐
				ma1	120.0	\$156.00	\$18,720.00		
				proc		\$1.00	\$5,000.00		
	Interface plate fab	8/16/2012	8/23/2012	ma1	40.0	\$156.00	\$6,240.00	6	☐
				proc		\$1.00	\$3,000.00		
	Central Manifold fab	9/3/2012	9/7/2012	proc		\$1.00	\$3,000.00	5	☐
				me1	8.0	\$133.00	\$1,064.00		
				ma1	40.0	\$156.00	\$6,240.00		
	shield plate (ICS) fab	10/4/2012	10/24/2012	me1	16.0	\$133.00	\$2,128.00	15	☒
				ma1	80.0	\$156.00	\$12,480.00		
				proc		\$1.00	\$8,000.00		
	conduits fab	9/4/2012	9/12/2012	mt1	56.0	\$82.00	\$4,592.00	7	☐
	hexapod fab	9/21/2012	10/4/2012	ma1	80.0	\$156.00	\$12,480.00	10	☐
				me1	16.0	\$133.00	\$2,128.00		
	window shipping container	8/2/2012	8/7/2012	me1	16.0	\$133.00	\$2,128.00	4	☐
	energy plane shipping container	10/17/2012	10/26/2012	me1	56.0	\$133.00	\$7,448.00	8	☐
	Electrical Fabrications	5/25/2012	7/19/2012					40	☐
	base fab	5/25/2012	6/14/2012	et1	120.0	\$86.00	\$10,320.00	15	☐
				proc		\$1.00	\$3,000.00		
				ma1	24.0	\$156.00	\$3,744.00		
	front end amplifiers fab	5/31/2012	7/5/2012	ma1	16.0	\$156.00	\$2,496.00	26	☐
				et1	120.0	\$86.00	\$10,320.00		
	power supplies fab	7/6/2012	7/12/2012	et1	40.0	\$86.00	\$3,440.00	5	☐
	data aquisition fab	7/13/2012	7/19/2012	et1	40.0	\$86.00	\$3,440.00	5	☐
	Assembly	4/18/2012	1/1/2013					185	☐
	pot heatsinks to bases	8/15/2012	8/22/2012	mt1	40.0	\$82.00	\$3,280.00	6	☐
	solder bases to PMTs	8/22/2012	8/27/2012	et1	24.0	\$86.00	\$2,064.00	4	☐
	pressure test windows	8/24/2012	8/30/2012	mt1	40.0	\$82.00	\$3,280.00	5	☐
	package and ship windows to ICMOL	8/31/2012	9/3/2012	mt1	16.0	\$82.00	\$1,312.00	2	☐
	ITO/TPB coat @ ICMOL	9/4/2012	9/24/2012	proc		\$1.00	\$2,000.00	15	☐
				ph2	120.0	\$0.00	\$0.00		
	package and ship windows to LBNL	9/25/2012	9/25/2012					1	☐
	assemble windows into cans	9/26/2012	10/2/2012	mt1	40.0	\$82.00	\$3,280.00	5	☐
	assemble PMT's into cans	10/3/2012	10/5/2012	mt1	24.0	\$82.00	\$1,968.00	3	☐
	test PMT Modules	10/8/2012	10/19/2012	et1	40.0	\$86.00	\$3,440.00	10	☐
				ph1	80.0	\$0.00	\$0.00		
	assemble PMT modules to carrier plate	10/22/2012	10/26/2012	mt1	40.0	\$82.00	\$3,280.00	5	☐
	assemble central manifold to carrier plate	10/29/2012	10/31/2012	mt1	24.0	\$82.00	\$1,968.00	3	☐
	assemble conduit/cable assemblies	11/1/2012	11/21/2012	mt1	120.0	\$82.00	\$9,840.00	15	☐
	test energy plane (vac, elect.)	11/22/2012	12/18/2012	me1	120.0	\$133.00	\$15,960.00	19	☐
				mt1	120.0	\$82.00	\$9,840.00		
				ph1	120.0	\$0.00	\$0.00		
	assemble energy plane into shipping cont	12/19/2012	12/26/2012	me1	40.0	\$133.00	\$5,320.00	6	☐
				mt1	40.0	\$82.00	\$3,280.00		
				rg1	8.0	\$90.00	\$720.00		
	ship to Canfranc	12/27/2012	1/1/2013	proc		\$1.00	\$3,000.00	4	☐
				me1	24.0	\$133.00	\$3,192.00		
		4/18/2012	4/18/2012					1	☐
		4/18/2012	1/1/2013		3,050.0		\$441,664.00		