12 GeV Responsibility Assignment Matrix - AY\$M

BAC October 13

			CDR/R&D		PED		Const	Pı	re-Ops	Total	
CAM	Scope	WBS	\$K	WBS	\$K	WBS	\$K	WBS	\$K	\$K	
John Hogan	Cryomodules	1.1.1.1	\$1,535.1	1.2.1.1	\$820.9	1.3.1	\$25,723.3			\$28,079.3	
Bill Merz	Power Systems	1.1.1.2	\$1,053.1	1.2.1.2	\$2,258.0	1.3.2	\$19,021.6			\$22,332.8	
Dana Arenius	Cryogenics	1.1.1.3		1.2.1.3	\$1,276.2	1.3.3	\$25,754.0			\$27,030.3	
Mike Bevins	Beam Transport	1.1.1.4	\$240.3	1.2.1.4	\$3,300.9	1.3.4	\$24,727.1			\$28,268.4	
Mike Spata	Extraction	1.1.1.5		1.2.1.5	\$471.1	1.3.5	\$604.9			\$1,075.9	
Mike Spata	Accel Sys Comm			1.2.6	\$64.9					\$64.9	
Mike Spata	I&C	1.1.1.6		1.2.1.6	\$994.0	1.3.6	\$7,898.4			\$8,892.4	
John LeRose	Hall A	1.1.2	\$83.1	1.2.2.1	\$173.2	1.4.1	\$667.7			\$924.1	
Latifa Elouadrhiri	Hall B	1.1.3	\$1,331.7	1.2.2.2	\$3,063.2	1.4.2	\$59,803.1			\$64,198.0	
Howard Fenker	Hall C	1.1.4	\$467.1	1.2.2.3	\$1,767.8	1.4.3	\$30,286.5			\$32,521.3	
Eugene Chudakov	Hall D	1.1.5	\$1,848.3	1.2.3	\$2,956.4	1.5	\$40,007.7			\$44,812.4	
Leigh Harwood	Accel Comm.							1.8.1	\$5,021.3	\$5,021.3	
Glenn Young	Physics Comm.							1.8.2	\$2,027.7	\$2,027.7	
Rebecca Yasky	Civil	1.1.6	\$55.4	1.2.4	\$1,210.0	1.6	\$30,347.3			\$31,612.8	
Claus Rode	Proj Management	1.1.7	\$437.3	1.2.5	\$2,636.8	1.7	\$9,171.3	1.8.3	\$5,068.7	\$17,314.1	
Other	CDR/ACD	1.0	\$3,445.1							\$3,445.1	
Subtotal			\$10,496.6		\$20,993.4		\$274,012.9		\$12,117.7	\$317,620.6	
Contingency			\$3.4		\$6.6		\$15,487.1		\$4,882.3	\$20,379.4	
Total Project			\$10,500.0		\$21,000.0		\$289,500.0		\$17,000.0	\$338,000.0	

12 GeV Responsibility Assignment Matrix - \$K

WBS	WBS Title	ORGANIZATION													
			JLab												
			Engineering	JLab		JLab									
		JLab	Division	Engineering	JLab	Center for									
		Institute for	Electrical	Division	Engineering	Advanced	JLab								
		SRF Science &	Systems	Mechanical	Division	Studies of	Experimental	12 GeV	12 GeV	12 GeV	12 GeV	12 GeV	12 GeV	12 GeV	
		Technology	Support	Engineering	Cryogenics	Accelerators	Hall A	Project Office	Accelerator	Physics	Civil	Hall B	Hall C	Hall D	TOTAL
		J. Hogan	B. Merz	M. Bevins	D. Arenius	M. Spata	J. LeRose	C. Rode	L. Harwood	G. Young	R. Yasky	L. Elouadrhiri	H. Fenker	E. Chudakov	\$K
ACD/CDR															
1.0								3,445							3,445
R&D															
1.1.1.1	R&D Accel Systems Cryomodules	1,535													1,535
	R&D Accel Systems Power Systems	·	1,053												1,053
1.1.1.4	R&D Accel Systems Beam Transport		,	240											240
1.1.2	R&D Hall A						83								83
1.1.3	R&D Hall B											1,332			1,332
1.1.4	R&D Hall C												467		467
1.1.5	R &D Hall D													1,848	1,848
1.1.6	R&D Civil										55				55
1.1.7	R&D Project Management							437							437
PED															
1.2.1.1	PED Accel Systems Cryomodules	821													821
	PED Accel Systems Power Systems		2,258												2,258
1.2.1.3	PED Accel Systems Cryogenics		,		1,276										1,276
1.2.1.4	PED Accel Systems Beam Transport			3,301	,										3,301
1.2.1.5	PED Accel Systems Extraction					471									471
	PED Accel Systems Instrumentation, Controls, and														
1.2.1.6	Safety Systems					994									994
1.2.2.1	PED Upgrade Hall A						173								173
1.2.2.2	PED Upgrade Hall B											3,063			3,063
1.2.2.3	PED Upgrade Hall C												1,768		1,768
1.2.3	PED Hall D													2,956	2,956
1.2.4	PED Conventional Facilities										1,210				1,210
1.2.5	PED Project Management							2,637							2,637
1.2.6	PED Accelerator Systems Commissioning Planning					65									65
Construction															
	Construction Accel Systems Cryomodules														
1.3.1.1	Procurements	20,760													20,760
]
1.3.1.2	Construction Accel Systems Cavity String Assembly	1,316													1,316
1.3.1.3	Construction Accel Systems Cryomodule Assembly	2,333													2,333
1.3.1.4	Construction Accel Systems Acceptance Testing	668													668
1.3.1.5	Construction Accel Systems Installation	357													357
1.3.1.6	Construction Accel Systems Microphonics	290													290
	Construction Accel Systems Power Systems RF														
1.3.2.1.1	Power		8,836												8,836
1	Construction Accel Systems Power Systems RF														
1.3.2.1.2	Control		2,559												2,559
	Construction Accel Systems RF Installation & System														
1.3.2.1.3	Commissioning		246												246
1.3.2.2	Construction Accel Systems Magnet Power		7,380												7,380

12 GeV Responsibility Assignment Matrix - \$K

WBS	WBS Title	ORGANIZATION													
			JLab Engineering	JLab		JLab									
		JLab	Division	Engineering	JLab	Center for									
				0 0			JLab								
		Institute for	Electrical	Division	Engineering	Advanced		10 C V	10 0 17	10 0 17	10 C T/	10 C V	10 0 17	10 0 17	
		SRF Science &	Systems	Mechanical	Division	Studies of	Experimental	12 GeV	12 GeV	12 GeV	12 GeV	12 GeV	12 GeV	12 GeV	
		Technology	Support	Engineering	Cryogenics	Accelerators	Hall A	Project Office	Accelerator	Physics	Civil	Hall B	Hall C	Hall D	TOTAL
		J. Hogan	B. Merz	M. Bevins	D. Arenius	M. Spata	J. LeRose	C. Rode	L. Harwood	G. Young	R. Yasky	L. Elouadrhiri	H. Fenker	E. Chudakov	\$K
1.3.3.1	Construction Accel Systems Cryogenics Accelerator				22,958										22,958
1.3.3.2	Construction Accel Systems Hall D				2,796										2,796
	Construction Accel Systems Beam Transport														_,
1.3.4.1	Spreaders & Recombiners			11,546											11,546
	Construction Accel Systems Beam Transport Existing			11,510											11,010
1.3.4.2	Arcs (1-9, A, B, & C)			6,172											6,172
1.3.1.2	(1), (1, b, cc)			0,172											0,172
1.3.4.3	Construction Accel Systems Beam Transport Linacs			349											349
	Construction Accel Systems Beam Transport Injector														
1.3.4.4	& Re-injection			332											332
	Construction Accel Systems Beam Transport Arc 10														1
1.3.4.5	& Hall D Beamline			5,636											5,636
	Construction Accel Systems Transport Channel			2,030											2,020
1.3.4.6	Magnets and Stands			692											692
1.3.5.1	Construction Accel Systems Extraction Cavities			0,2		329									329
1.3.3.1	Construction Accel Systems Extraction RF					32)									32)
1.3.5.2	Components					188									188
1.3.3.2	Construction Accel Systems Extraction Resonance					100									100
1.3.5.3	Control					60									60
1.3.5.4	Construction Accel Systems Extraction Lambertson					3									3
1.3.3.4	Construction Accel Systems Extraction Lambertson Construction Accel Systems Extraction Septa and					3									3
1.3.5.5	Dipoles					0									0
1.3.5.6	Construction Accel Systems Extraction Stands					26									26
1.3.3.0	Construction Accel Systems Instrumentation,					20									20
1 2 6 1						2 241									3,241
1.3.6.1	Construction Accel Systems Beam Diagnostics					3,241									3,241
	Construction Accel Systems Instrumentation,														
1262	Controls, and Safety Systems Control System					F15									
1.3.6.2	Hardware Construction Accel Systems Instrumentation					515									515
	Construction Accel Systems Instrumentation,														
1 2 6 2	Controls, and Safety Systems Control System					2.52									262
1.3.6.3	Software					363									363
1 2 6 4	Construction Accel Systems Instrumentation,														
1.3.6.4	Controls, and Safety Systems Safety Systems					2,291									2,291
1.0.5.5	Construction Accel Systems Instrumentation,														
1.3.6.5	Controls, and Safety Systems Insertable Dump					221									221
	Construction Accel Systems Instrumentation,														
1.3.6.6	Controls, and Safety Systems Vacuum Controls					1,005									1,005
	Construction Accel Systems Instrumentation,														
1 2 6 7						262									262
1.3.6.7	Construction Holl A					263									263
1.4.1	Construction Hall A						668					5.500			668
1.4.2.1	Construction Hall B Magnet											5,709			5,709
1.4.2.2	Construction Hall B Detectors											23,684			23,684

12 GeV Responsibility Assignment Matrix - \$K

WBS	WBS Title							ORGANIZ	ATION						
			JLab Engineering	JLab		JLab									
		JLab	Division	Engineering	JLab	Center for									
		Institute for	Electrical	Division	Engineering	Advanced	JLab								
		SRF Science &	Systems	Mechanical	Division	Studies of	Experimental	12 GeV	12 GeV	12 GeV	12 GeV	12 GeV	12 GeV	12 GeV	
		Technology	Support	Engineering	Cryogenics	Accelerators	Hall A	Project Office	Accelerator	Physics	Civil	Hall B	Hall C	Hall D	TOTAL
		J. Hogan	B. Merz	M. Bevins	D. Arenius	M. Spata	J. LeRose	C. Rode	L. Harwood	G. Young	R. Yasky	L. Elouadrhiri	H. Fenker	E. Chudakov	\$K
1.4.2.3	Construction Hall B Computing											1,662			1,662
1.4.2.4	Construction Hall B Electronics											3,360			3,360
1.4.2.5	Construction Hall B Beamline											544			544
1.4.2.6	Construction Hall B Infrastructure											4,178			4,178
1.4.2.7	Construction Hall B Magnets New Vendor											20,666			20,666
1.4.3.1	Construction Hall C Magnet												18,470		18,470
1.4.3.2	Construction Hall C Detector												945		945
1.4.3.3	Construction Hall C Computing												51		51
1.4.3.4	Construction Hall C Electronics												384		384
1.4.3.5	Construction Hall C Beamline												828		828
1.4.3.6	Construction Hall C Infrastructure												9,608		9,608
1.5.1	Construction Hall D Solenoid													3,094	3,094
1.5.2	Construction Hall D Detectors													13,321	13,321
1.5.3	Construction Hall D Computing													2,985	2,985
1.5.4	Construction Hall D Electronics													8,826	8,826
1.5.5	Construction Hall D Beamline													5,233	5,233
1.5.6	Construction Hall D Infrastructure													6,488	6,488
1.5.7	Construction Hall D Spare Solenoid													60	60
1.6.1	Construction Conventional Facilities Accelerator										5,608				5,608
1.6.2	Construction Conventional Facilities CHL										4,366				4,366
1.6.3	Construction Conventional Facilities Hall D										20,373				20,373
1.7	Construction Project Management							9,171							9,171
Pre-Ops															
1.8.1.1	Accelerator Pre-Ops Beam Commissioning								1,100						1,100
1.8.1.2	Accelerator Pre-Ops Utilities								2,427						2,427
1.8.1.3.1	Accelerator Cryomodules Pre-Ops								278						278
1.8.1.3.2	Accelerator Power Pre-Ops Checkout								409						409
1.8.1.3.3	Accelerator Cyrogenics Pre-Ops Checkout								807						807
1.8.2.1	Hall A Checkout & Beam Commissioning									14					14
1.8.2.2	Hall B Checkout & Beam Commissioning									626					626
1.8.2.3	Hall C Checkout & Beam Commissioning									247					247
1.8.2.4	Hall D Checkout & Beam Commissioning									1,141					1,141
1.8.3	Pre-Ops Support - Project Office							5,069							5,069
	Total	28,079	22,333	28,268	27,030	10,033	924	20,759	5,021	2,028	31,613	64,198	32,521	44,812	317,621

12 GeV Non-DOE Responsibility Assignment Matrix - \$K

WBS	WBS Title		ORGANIZATION												
			JLab												
			Engineering	JLab		JLab									1
		JLab	Division	Engineering	JLab	Center for									1
		Institute for	Electrical	Division	Engineering	Advanced	JLab								1
		SRF Science &	Systems	Mechanical	Division	Studies of	Experimental	12 GeV	12 GeV	12 GeV	12 GeV	12 GeV	12 GeV	12 GeV	1
		Technology	Support	Engineering	Cryogenics	Accelerators	Hall A	Project Office	Accelerator	Physics	Civil	Hall B	Hall C	Hall D	TOTAL
		J. Hogan	B. Merz	M. Bevins	D. Arenius	M. Spata	J. LeRose	C. Rode	L. Harwood	G. Young	R. Yasky	L. Elouadrhiri	H. Fenker	E. Chudakov	\$K
VA State															
1.9.5.1	12 GeV Hall D Solenoid													199	199
1.9.5.2	12 GeV Hall D Detectors													4,281	4,281
1.9.6.1	12 GeV N&S LCW										3,429				3,429
1.9.7.1	12 GeV Miscellaneous Infrastructure							1,004							1,004
NSF															
1.10	Non DOE Scope									624					624
	Total	-	-	-	-	-	-	1,004	-	624	3,429	-	-	4,281	9,338