

12 GeV Responsibility Assignment Matrix - \$K

WBS	WBS Title	ORGANIZATION													TOTAL
		JLab Institute for SRF Science & Technology	JLab Engineering Division Electrical Systems Support	JLab Engineering Division Mechanical Engineering	JLab Engineering Division Cryogenics	JLab Center for Advanced Studies of Accelerators	JLab Experimental Hall A	12 GeV Project Office	12 GeV Accelerator	12 GeV Physics	12 GeV Civil	12 GeV Hall B	12 GeV Hall C	12 GeV Hall D	
		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
<b>ACD/CDR</b>															
1.0								3,445							3,445
<b>R&amp;D</b>															
1.1.1.1	R&D Accel Systems Cryomodules	1,535													1,535
1.1.1.2	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
<b>PED</b>															
1.2.1.1	PED Accel Systems Cryomodules	821													821
1.2.1.2	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
1.2.1.6	PED Accel Systems Instrumentation, Controls, and 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
<b>Construction</b>															
1.3.1.1	Construction Accel Systems Cryomodules 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
1.3.2.1.1	Construction Accel Systems Power Systems RF Power		8,836												8,836
1.3.2.1.2	Construction Accel Systems Power Systems RF Control		2,559												2,559
1.3.2.1.3	Construction Accel Systems RF Installation & System Commissioning		246												246
1.3.2.2	Construction Accel Systems Magnet Power		7,380												7,380
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

12 GeV Responsibility Assignment Matrix - \$K

WBS	WBS Title	ORGANIZATION													TOTAL
		JLab Institute for SRF Science & Technology	JLab Engineering Division Electrical Systems Support	JLab Engineering Division Mechanical Engineering	JLab Engineering Division Cryogenics	JLab Center for Advanced Studies of Accelerators	JLab Experimental Hall A	12 GeV Project Office	12 GeV Accelerator	12 GeV Physics	12 GeV Civil	12 GeV Hall B	12 GeV Hall C	12 GeV Hall D	
		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
1.3.4.1	Construction Accel Systems Beam Transport Spreaders & Recombiners			11,546											11,546
1.3.4.2	Construction Accel Systems Beam Transport Existing Arcs (1-9, A, B, & C)			6,172											6,172
1.3.4.3	Construction Accel Systems Beam Transport Linacs			349											349
1.3.4.4	Construction Accel Systems Beam Transport Injector & Re-injection			332											332
1.3.4.5	Construction Accel Systems Beam Transport Arc 10 & Hall D Beamline			5,636											5,636
1.3.4.6	Construction Accel Systems Transport Channel Magnets and Stands			692											692
1.3.5.1	Construction Accel Systems Extraction Cavities						329								329
1.3.5.2	Construction Accel Systems Extraction RF Components						188								188
1.3.5.3	Construction Accel Systems Extraction Resonance Control						60								60
1.3.5.4	Construction Accel Systems Extraction Lambertson						3								3
1.3.5.5	Construction Accel Systems Extraction Septa and Dipoles						0								0
1.3.5.6	Construction Accel Systems Extraction Stands						26								26
1.3.6.1	Construction Accel Systems Instrumentation, Controls, and Safety Systems Beam Diagnostics						3,241								3,241
1.3.6.2	Construction Accel Systems Instrumentation, Controls, and Safety Systems Control System Hardware						515								515
1.3.6.3	Construction Accel Systems Instrumentation, Controls, and Safety Systems Control System Software						363								363
1.3.6.4	Construction Accel Systems Instrumentation, Controls, and Safety Systems Safety Systems						2,291								2,291
1.3.6.5	Construction Accel Systems Instrumentation, Controls, and Safety Systems Insertable Dump						221								221
1.3.6.6	Construction Accel Systems Instrumentation, Controls, and Safety Systems Vacuum Controls						1,005								1,005
1.3.6.7	Construction Accel Systems Instrumentation, Controls, and Safety Systems Magnet Instrumentation						263								263
1.4.1	Construction Hall A						668								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
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

12 GeV Responsibility Assignment Matrix - \$K

WBS	WBS Title	ORGANIZATION													TOTAL
		JLab Institute for SRF Science & Technology	JLab Engineering Division Electrical Systems Support	JLab Engineering Division Mechanical Engineering	JLab Engineering Division Cryogenics	JLab Center for Advanced Studies of Accelerators	JLab Experimental Hall A	12 GeV Project Office	12 GeV Accelerator	12 GeV Physics	12 GeV Civil	12 GeV Hall B	12 GeV Hall C	12 GeV Hall D	
		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
1.4.2.7	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
<b>Pre-Ops</b>															
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 Cryogenics 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
	<b>Total</b>	<b>28,357</b>	<b>22,742</b>	<b>28,268</b>	<b>27,838</b>	<b>10,033</b>	<b>938</b>	<b>20,759</b>	<b>3,527</b>	<b>-</b>	<b>31,613</b>	<b>64,824</b>	<b>32,768</b>	<b>45,953</b>	<b>317,621</b>

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

WBS	WBS Title	ORGANIZATION													TOTAL
		JLab Institute for SRF Science & Technology	JLab Engineering Division Electrical Systems Support	JLab Engineering Division Mechanical Engineering	JLab Engineering Division Cryogenics	JLab Center for Advanced Studies of Accelerators	JLab Experimental Hall A	12 GeV Project Office	12 GeV Accelerator	12 GeV Physics	12 GeV Civil	12 GeV Hall B	12 GeV Hall C	12 GeV Hall D	
		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
<b>VA State</b>															
1.9.5.1	12 GeV Hall D Solenoid														199
1.9.5.2	12 GeV Hall D Detectors														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
<b>NSF</b>															
1.10	Non DOE Scope										624				624
	<b>Total</b>	-	-	-	-	-	-	<b>1,004</b>	-	<b>624</b>	<b>3,429</b>	-	-	<b>4,281</b>	<b>9,338</b>