



Muon Campus AIP

Change Request Form

CR#: BT014

1) DATE: 8/28/15

2) WBS: BT1.04.03

3) Originator: Ken Domann

4) WBS Description of Primary Affected Tasks: Beamline Instrumentation & Controls

5) Technical Description & Primary Motivation for Change: The AP1 line SEMs were found to be in functional order. As a result, we will not need to remove them from the beam line to perform the refurbishment procedure. The net effect is to decrease the budget by \$101,135 with a corresponding increase in contingency.

6) Assessment of Cost Impact (Use attachments if needed): See Attached.

7) Assessment of Schedule Impact (Use attachments if needed): NA

8) Secondary Impact & Other Comments: N/A

9) Approvals:

AIP Project Manager:

Date: 8/31/15

AIP Project Coordinator:

Date: 8/31/15

AD Div Director:

Date: 9/03/15

Directorate:

Date: _____

Beam Transport CR014 Hours Delta

UID	WBS	Name	New Hours	Old Hours	Delta	Comments
18	BT1.04.03	Beamline Instrumentation & Controls	0	641	-641	
768	BT1.04.03.02.08	SEM & Multiwires Procure ** Deleted **	0	16	-16	Scope deleted
		FNAD_ELTN_DESIGN_EN	0	16	-16	
38	BT1.04.03.02.09	SEM & Multiwires Implementation ** Deleted **	0	625	-625	Scope deleted
		FNAD_MECH_DESIGN_EN	0	72	-72	
		FNAD_MECH_ASMBY_TECH	0	408	-408	
		FNPD_METROLOGIST	0	40	-40	
		FNPD_GEODEIST	0	80	-80	
		FNAD_AC_SYSTEM_SPCCLST	0	25	-25	

Beam Transport CR014 Material and Services Delta

UID	WBS	Name	Original M&S	New M&S	Delta
18	BT1.04.03	Beamline Instrumentation & Controls	\$25,000	\$0	-\$25,000
724	BT1.04.03.02	Beamline Instrumentation & Controls Implementation	\$25,000	\$0	-\$25,000

Beam Transport AIP Post CR014 CAP

Control Account	FY12	FY13	FY14	FY15	FY16	Cumulative
A1303.01.02.01 Project Management Oversight FY13	Scheduled	0.00	56,415.81	0.00	0.00	56,415.81
A1303.01.02.02 Project Management Oversight FY14	Scheduled	0.00	0.00	0.00	0.00	0.00
A1303.01.02.03 Project Management Oversight FY15	Scheduled	0.00	139,404.50	0.00	0.00	139,404.50
A1303.01.02.04 Project Management Oversight FY16	Scheduled	0.00	0.00	3,062.52	118,198.79	121,261.31
A1303.02.01 Beam Transport Lambertson (MLAW) Magnet	Scheduled	0.00	0.00	0.00	2,374.71	35,283.86
A1303.02.02.01 Beam Transport Extraction Kicker Magnets (RRK 2)	Scheduled	0.00	0.00	295,983.41	0.00	295,983.41
A1303.02.02.02 Beam Transport Extraction Kicker Power Supplies	Scheduled	0.00	6,218.93	163,023.76	0.00	169,242.68
A1303.02.02.03 Beam Transport Kicker Loads & Cooling System	Scheduled	0.00	0.00	32,213.32	348,017.93	458,641.41
A1303.02.02.04 Beam Transport Recycler Ring Extraction Insert Installa	Scheduled	0.00	6,218.93	389,354.87	33,663.44	429,237.24
A1303.03.01.01 RR to P1 Vertical Bending Dipole ADCW (1)	Scheduled	0.00	0.00	426,269.95	177,816.02	801,205.46
A1303.03.01.02 RR to P1 Permanent Magnets RQA (4)	Scheduled	0.00	0.00	24,275.42	0.00	24,275.42
A1303.03.01.03 RR to P1 Trim Quad STQB (4+1)	Scheduled	0.00	0.00	0.00	58,902.55	58,902.55
A1303.03.01.05 RR to P1 Vertical Dipole Correctors (1+1)	Scheduled	0.00	0.00	159,220.31	0.00	159,220.31
A1303.03.02.01 RR to P1 Lambertson PS	Scheduled	0.00	8,653.56	0.00	0.00	8,653.56
A1303.03.02.02 RR to P1 Vertical Magnet PS	Scheduled	0.00	0.00	50,020.25	10,489.67	60,509.92
A1303.03.02.03 RR to P1 Trim Dipole PS(2)	Scheduled	0.00	0.00	50,020.25	10,489.67	60,509.92
A1303.03.02.04 RR to P1 Trim Quad PS(4)	Scheduled	0.00	26,087.02	0.00	0.00	26,087.02
A1303.03.03 Beam Transport RR to P1 Instrumentation	Scheduled	0.00	30,932.88	0.00	0.00	30,932.88
A1303.03.04 Beam Transport RR to P1 Installation	Scheduled	0.00	0.00	264,774.05	0.00	264,774.05
A1303.04.01.01 Beamline B2 Dipole Magnet (1) (V714 Replacement)	Scheduled	0.00	0.00	456,427.59	0.00	456,427.59
A1303.04.01.01.02 Beamline Existing Magnets to be Repurposed	Scheduled	0.00	0.00	39,771.00	9,730.06	49,501.06
A1303.04.01.01.03 Beamline CDA Magnet (F-17C Replacement)	Scheduled	0.00	5,094.81	15,337.52	0.00	20,432.33
A1303.04.01.02 Beamline PS	Scheduled	0.00	3,170.09	41,543.02	0.00	42,713.11
A1303.04.01.03 Beam Line Installation & Mechanical	Scheduled	0.00	10,704.52	199,273.97	8,119.63	218,098.12
A1303.04.01.04 RR to AP-0 Target Station and RR to M3 Line optics	Scheduled	0.00	79,833.55	373,296.51	0.00	453,130.05
A1303.04.02 Beam Transport Electrical Infrastructure	Scheduled	0.00	67,641.57	0.00	0.00	67,641.57
A1303.04.03 Beamline Instrumentation & Controls	Scheduled	0.00	10,433.98	169,962.38	0.00	180,396.36
Grand Total	Scheduled	0.00	68,853.67	2,094,870.67	2,716,425.91	5,227,190.91