



Muon Campus AIP

Change Request Form

CR#: BT016

1) DATE: 11/9/15

2) WBS: BT1

3) Originator: Ken Domann / *KAD*

4) WBS Description of Primary Affected Tasks: Beam Transport AIP

5) Technical Description & Primary Motivation for Change: New labor rates were incorporated in Cobra. This change request documents the impact of these changes. The net effect is to decrease the budget by \$9,464 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:

Ken Domann

Date: 11/10/15

AIP Project Coordinator:

Mary E C

Date: 11/11/15

AD Div Director:

Date: _____

Directorate:

Date: _____

Beam Transport AIP Pre CR016 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	56,415.81
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	3,062.52	118,198.79	0.00	121,261.31
A1303.02.01 Beam Transport Lambertson (MLAW) Magnet		Scheduled	0.00	0.00	2,374.71	32,909.15	35,283.86
A1303.02.02.01 Beam Transport Extraction Kicker Magnets (RK3 2)		Scheduled	0.00	295,983.41	0.00	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	78,410.16	458,641.41
A1303.02.02.04 Beam Transport Recycler Ring Extraction Insert Installa		Scheduled	0.00	6,218.93	389,354.87	0.00	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	0.00	8,653.56	0.00	8,653.56
A1303.03.02.02 RR to P1 Vertical Magnet PS		Scheduled	0.00	0.00	50,020.25	0.00	60,509.92
A1303.03.02.03 RR to P1 Trim Dipole PS(2)		Scheduled	0.00	0.00	26,087.02	0.00	26,087.02
A1303.03.02.04 RR to P1 Trim Quad PS(4)		Scheduled	0.00	0.00	30,932.88	0.00	30,932.88
A1303.03.03 Beam Transport RR to P1 Instrumentation		Scheduled	0.00	0.00	264,774.05	0.00	264,774.05
A1303.03.04 Beam Transport RR to P1 Installation		Scheduled	0.00	0.00	456,427.59	0.00	456,427.59
A1303.04.01.01.01 Beamline B2 Dipole Magnet (1) (V714 Replacement)		Scheduled	0.00	0.00	39,771.00	9,730.06	49,501.06
A1303.04.01.01.02 Beamline Existing Magnets to be Repurposed		Scheduled	0.00	0.00	5,094.81	15,337.52	20,432.33
A1303.04.01.03 Beamline CDA Magnet (F-17C Replacement)		Scheduled	0.00	0.00	1,170.09	41,543.02	42,713.11
A1303.04.01.03 Beam Line Installation & Mechanical		Scheduled	0.00	0.00	10,704.52	199,273.97	218,098.12
A1303.04.01.04 RR to AP-0 Target Station and RR to M3 Line optics		Scheduled	0.00	0.00	79,833.55	373,296.51	453,130.05
A1303.04.02 Beam Transport Electrical Infrastructure		Scheduled	0.00	0.00	67,641.57	0.00	67,641.57
A1303.04.03 Beamline Instrumentation & Controls		Scheduled	0.00	0.00	10,433.98	169,962.38	180,396.36
Grand Total		Scheduled	0.00	68,853.67	2,094,870.67	2,716,425.91	5,227,190.91

Beam Transport Post CR016 CAP

Control Account		FY12	FY13	FY14	FY15	FY16	Cumulative
BT1.01.02.01 Project Management Oversight FY13	Scheduled	0.00	56,415.81	0.00	0.00	0.00	56,415.81
BT1.01.02.02 Project Management Oversight FY14	Scheduled	0.00	0.00	139,404.50	0.00	0.00	139,404.50
BT1.01.02.03 Project Management Oversight FY15	Scheduled	0.00	0.00	3,062.52	118,198.79	0.00	121,261.31
BT1.01.02.04 Project Management Oversight FY16	Scheduled	0.00	0.00	0.00	2,374.71	33,305.15	35,679.86
BT1.02.01 Beam Transport Lambertson (MLAW) Magnet	Scheduled	0.00	0.00	295,983.41	0.00	0.00	295,983.41
BT1.02.02.01 Beam Transport Extraction Kicker Magnets (RK8 2)	Scheduled	0.00	6,218.93	163,023.76	0.00	0.00	169,242.68
BT1.02.02.02 Beam Transport Extraction Kicker Power Supplies	Scheduled	0.00	0.00	32,213.32	348,017.93	77,452.82	457,684.07
BT1.02.02.03 Beam Transport Kicker Loads & Cooling System	Scheduled	0.00	6,218.93	389,354.87	33,663.44	0.00	429,237.24
BT1.02.02.04 Beam Transport Recycler Ring Extraction Insert Installat	Scheduled	0.00	0.00	426,269.95	177,816.02	189,124.38	793,210.35
BT1.03.01.01 RR to P1 Vertical Bending Dipole ADCW(1)	Scheduled	0.00	0.00	24,275.42	0.00	0.00	24,275.42
BT1.03.01.02 RR to P1 Permanent Magnets RQA (4)	Scheduled	0.00	0.00	0.00	58,902.55	0.00	58,902.55
BT1.03.01.03 RR to P1 Trim Quad STQB (4+1)	Scheduled	0.00	0.00	159,220.31	0.00	0.00	159,220.31
BT1.03.01.05 RR to P1 Vertical Dipole Correctors (1+1)	Scheduled	0.00	0.00	8,653.56	0.00	0.00	8,653.56
BT1.03.02.01 RR to P1 Lambertson PS	Scheduled	0.00	0.00	50,020.25	10,489.67	0.00	60,509.92
BT1.03.02.02 RR to P1 Vertical Magnet PS	Scheduled	0.00	0.00	50,020.25	10,489.67	0.00	60,509.92
BT1.03.02.03 RR to P1 Trim Dipole PS(2)	Scheduled	0.00	0.00	26,087.02	0.00	0.00	26,087.02
BT1.03.02.04 RR to P1 Trim Quad PS(4)	Scheduled	0.00	0.00	30,932.88	0.00	0.00	30,932.88
BT1.03.03 Beam Transport RR to P1 Instrumentation	Scheduled	0.00	0.00	0.00	264,774.05	0.00	264,774.05
BT1.03.04 Beam Transport RR to P1 Installation	Scheduled	0.00	0.00	0.00	456,427.59	0.00	456,427.59
BT1.04.01.01 Beamline Magnets	Scheduled	0.00	0.00	46,035.89	66,610.61	0.00	112,646.50
BT1.04.01.02 Beamline PS	Scheduled	0.00	0.00	10,704.52	199,273.97	8,088.86	218,067.35
BT1.04.01.03 Beam Line Installation & Mechanical	Scheduled	0.00	0.00	79,833.55	373,296.51	0.00	453,130.06
BT1.04.01.04 RR to AP-O Target Station and RR to W3 Line optics	Scheduled	0.00	0.00	67,641.57	0.00	0.00	67,641.57
BT1.04.02 Beam Transport Electrical Infrastructure	Scheduled	0.00	0.00	10,433.98	169,962.38	0.00	180,396.36
BT1.04.03 Beamline Instrumentation & Controls	Scheduled	0.00	0.00	81,699.13	426,128.04	29,605.38	537,432.55
Grand Total	Scheduled	0.00	68,853.67	2,094,870.67	2,716,425.91	337,576.59	5,217,726.84