



Muon Campus AIP
Change Request Form

CR#:BT008

1) DATE: 11/11/14

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:** This change request documents the effect of adjustments to the burden and indirect rates as directed by the finance group. The result is a decrease of \$140,232 to the Beam Transport AIP budget with the corresponding increase in contingency.

6) **Assessment of Cost Impact (Use attachments if needed):** See Attachments for changes.

7) **Assessment of Schedule Impact (Use attachments if needed):** N/A

8) **Secondary Impact & Other Comments:** N/A

9) Approvals:

AIP Project Manager:

M. Kumbau

Date: 11/11/14

AIP Project Coordinator:

Mary C

Date: 11/11/14

AD Div Director:

Date: _____

Directorate:

Date: _____

Control Account	FY12	FY13	FY14	FY15	FY16	Cumulative
A1303.01.02.01 Project Management Oversight FY13						
A1303.01.02.02 Project Management Oversight FY14	Scheduled	0.00	56,415.81	0.00	0.00	56,415.81
A1303.01.02.03 Project Management Oversight FY15	Scheduled	0.00	0.00	139,404.50	0.00	139,404.50
A1303.01.02.04 Project Management Oversight FY16	Scheduled	0.00	0.00	3,062.52	128,234.14	131,296.67
A1303.02.01 Beam Transport Lambertson (MLAW) Magnet	Scheduled	0.00	0.00	0.00	2,548.83	37,831.00
A1303.02.02.01 Beam Transport Extraction Kicker Magnets (RKB 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	368,709.96	81,794.30
A1303.02.02.04 Beam Transport Recycler Ring Extraction Insert Installa	Scheduled	0.00	6,218.93	389,354.87	37,790.01	0.00
A1303.03.01.01 RR to P1 Vertical Bending Dipole ADCW (1)	Scheduled	0.00	0.00	426,269.95	186,389.53	203,559.50
A1303.03.01.02 RR to P1 Permanent Magnets ROA (4)	Scheduled	0.00	0.00	24,275.42	0.00	0.00
A1303.03.01.03 RR to P1 Trim Quad STQB (4+1)	Scheduled	0.00	0.00	0.00	58,606.21	0.00
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	10,910.91	0.00
A1303.03.02.03 RR to P1 Trim Dipole PS(2)	Scheduled	0.00	0.00	50,020.25	10,910.91	0.00
A1303.03.02.04 RR to P1 Trim Quad PS(4)	Scheduled	0.00	0.00	26,087.02	0.00	0.00
A1303.03.03 Beam Transport RR to P1 Instrumentation	Scheduled	0.00	0.00	30,932.88	0.00	0.00
A1303.03.04 Beam Transport RR to P1 Installation	Scheduled	0.00	0.00	0.00	267,802.03	0.00
A1303.04.01.01.01 Beamline B2 Dipole Magnet (1) (V714 Replacement)	Scheduled	0.00	0.00	0.00	471,268.04	0.00
A1303.04.01.01.02 Beamline Existing Magnets to be Repurposed	Scheduled	0.00	0.00	39,771.00	9,847.54	0.00
A1303.04.01.01.03 Beamline CDA Magnet (F-17C Replacement)	Scheduled	0.00	0.00	5,094.81	16,429.91	0.00
A1303.04.01.02 Beamline PS	Scheduled	0.00	0.00	1,170.09	41,334.02	0.00
A1303.04.01.03 Beam Line Installation & Mechanical	Scheduled	0.00	0.00	10,704.52	213,229.08	5,825.61
A1303.04.01.04 RR to AP-Q Target Station and RR to M3 Line optics	Scheduled	0.00	0.00	83,830.87	381,251.64	0.00
A1303.04.02 Beam Transport Electrical Infrastructure	Scheduled	0.00	0.00	67,641.57	0.00	0.00
A1303.04.03 Beamline Instrumentation & Controls	Scheduled	0.00	0.00	10,433.98	172,202.93	0.00
Grand Total	Scheduled	0.00	68,853.67	2,098,868.00	2,891,303.13	326,461.58

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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	0.00	56,415.81
A1303.01.02.02 Project Management Oversight FY14	Scheduled	0.00	0.00	139,404.50	0.00	0.00	139,404.50
A1303.01.02.03 Project Management Oversight FY15	Scheduled	0.00	0.00	3,062.52	118,198.79	0.00	121,261.31
A1303.01.02.04 Project Management Oversight FY16	Scheduled	0.00	0.00	0.00	2,374.71	32,250.72	34,625.44
A1303.02.01 Beam Transport Lambertson (MLAW) Magnet	Scheduled	0.00	0.00	295,983.41	0.00	0.00	295,983.41
A1303.02.02.01 Beam Transport Extraction Kicker Magnets (RKB 2)	Scheduled	0.00	6,218.93	163,023.76	0.00	0.00	169,242.68
A1303.02.02.02 Beam Transport Extraction Kicker Power Supplies	Scheduled	0.00	0.00	32,213.32	348,017.93	77,491.50	457,722.76
A1303.02.02.03 Beam Transport Kicker Leads & Cooling System	Scheduled	0.00	6,218.93	389,354.87	33,663.44	0.00	429,237.24
A1303.02.02.04 Beam Transport Recycler Ring Extraction Inert Installa	Scheduled	0.00	0.00	426,269.95	177,816.02	195,210.80	799,296.77
A1303.03.01.01 RR to P1 Vertical Bending Dipole ADCW (1)	Scheduled	0.00	0.00	24,275.42	0.00	0.00	24,275.42
A1303.03.01.02 RR to P1 Permanent Magnets RQA (4)	Scheduled	0.00	0.00	0.00	58,902.55	0.00	58,902.55
A1303.03.01.03 RR to P1 Trim Quad STQB (4+1)	Scheduled	0.00	0.00	159,220.31	0.00	0.00	159,220.31
A1303.03.01.05 RR to P1 Vertical Dipole Correctors (1+1)	Scheduled	0.00	0.00	8,653.56	0.00	0.00	8,653.56
A1303.03.02.01 RR to P1 Lambertson PS	Scheduled	0.00	0.00	50,020.25	10,489.67	0.00	60,509.92
A1303.03.02.02 RR to P1 Vertical Magnet PS	Scheduled	0.00	0.00	50,020.25	10,489.67	0.00	60,509.92
A1303.03.02.03 RR to P1 Trim Dipole PS(2)	Scheduled	0.00	0.00	26,087.02	0.00	0.00	26,087.02
A1303.03.02.04 RR to P1 Trim Quad PS(4)	Scheduled	0.00	0.00	30,932.88	0.00	0.00	30,932.88
A1303.03.03 Beam Transport RR to P1 Instrumentation	Scheduled	0.00	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	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	0.00	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	0.00	20,432.33
A1303.04.01.01.03 Beamline CDA Magnet (F-17C Replacement)	Scheduled	0.00	0.00	1,170.09	41,543.02	0.00	42,713.11
A1303.04.01.02 Beamline PS	Scheduled	0.00	0.00	10,704.52	201,951.80	5,248.53	217,904.85
A1303.04.01.03 Beam Line Installation & Mechanical	Scheduled	0.00	0.00	83,830.87	369,570.09	0.00	453,400.96
A1303.04.01.04 RR to AP-0 Target Station and RR to M3 Line optics	Scheduled	0.00	0.00	67,641.57	0.00	0.00	67,641.57
A1303.04.02 Beam Transport Electrical Infrastructure	Scheduled	0.00	0.00	10,433.98	169,962.38	0.00	180,396.36
A1303.04.03 Beamline Instrumentation & Controls	Scheduled	0.00	0.00	81,699.13	478,081.35	0.00	559,780.48
Grand Total	Scheduled	0.00	68,853.67	2,098,868.00	2,767,330.64	310,201.55	5,245,253.85