



Muon Campus AIP

Change Request Form

CR#: BT017

1) DATE: 3/29/16 2) WBS: BT1 3) Originator: Ken Domann *[Signature]*

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

5) Technical Description & Primary Motivation for Change: Release the \$500k added to Management Reserve in October 2015 since it is not needed to complete the project.

6) Assessment of Cost Impact (Use attachments if needed): No change to the project budget, contingency is reduced by \$500,000.

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

8) Secondary Impact & Other Comments: N/A

9) Approvals:

AIP Project Manager:	<i>[Signature]</i>	Date: 4/1/16
AIP Project Director:	<i>[Signature]</i>	Date: 4/1/16
AIP Project Coordinator:	<i>[Signature]</i>	Date: 4/1/16
AD Div Director:	<i>[Signature]</i>	Date: 4/1/16
Directorate:	<i>[Signature]</i>	Date: 4/01/16
Federal Project Director:	<i>[Signature]</i>	Date: 4-4-16
DOE Site Manager:	<i>[Signature]</i>	Date: 4/5/16

Beam Transport Pre CR017 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	56,415.81
BT1.01.02.02 Project Management Oversight FY14	Scheduled	0.00	0.00	139,404.50	0.00	139,404.50
BT1.01.02.03 Project Management Oversight FY15	Scheduled	0.00	0.00	3,062.52	118,198.79	121,261.31
BT1.01.02.04 Project Management Oversight FY16	Scheduled	0.00	0.00	0.00	2,374.71	33,305.15
BT1.02.01 Beam Transport Lambertson (MLAW) Magnet	Scheduled	0.00	0.00	295,983.41	0.00	295,983.41
BT1.02.02.01 Beam Transport Extraction Kicker Magnets (RKB 2)	Scheduled	0.00	6,218.93	163,023.76	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
BT1.02.02.03 Beam Transport Kicker Loads & Cooling System	Scheduled	0.00	6,218.93	389,354.87	33,663.44	0.00
BT1.02.02.04 Beam Transport Recycler Ring Extraction Insert Installati	Scheduled	0.00	0.00	426,269.95	177,816.02	189,124.38
BT1.03.01.01 RR to P1 Vertical Bending Dipole ADCW (1)	Scheduled	0.00	0.00	24,275.42	0.00	24,275.42
BT1.03.01.02 RR to P1 Permanent Magnets ROA (4)	Scheduled	0.00	0.00	0.00	58,902.55	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	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	8,653.56
BT1.03.02.01 RR to P1 Lambertson PS	Scheduled	0.00	0.00	50,020.25	10,489.67	60,509.92
BT1.03.02.02 RR to P1 Vertical Magnet PS	Scheduled	0.00	0.00	50,020.25	10,489.67	60,509.92
BT1.03.02.03 RR to P1 Trim Dipole PS(2)	Scheduled	0.00	0.00	26,087.02	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	30,932.88
BT1.03.03 Beam Transport RR to P1 Instrumentation	Scheduled	0.00	0.00	0.00	264,774.05	264,774.05
BT1.03.04 Beam Transport RR to P1 Installation	Scheduled	0.00	0.00	0.00	456,427.59	456,427.59
BT1.04.01.01 Beamline Magnets	Scheduled	0.00	0.00	46,035.89	66,610.61	112,646.50
BT1.04.01.02 Beamline PS	Scheduled	0.00	0.00	10,704.52	199,273.97	218,067.35
BT1.04.01.03 Beam Line Installation & Mechanical	Scheduled	0.00	0.00	79,833.55	373,296.51	453,130.06
BT1.04.01.04 RR to AP-0 Target Station and RR to M3 Line optics	Scheduled	0.00	0.00	67,641.57	0.00	67,641.57
BT1.04.02 Beam Transport Electrical Infrastructure	Scheduled	0.00	0.00	10,433.98	169,962.38	180,396.36
BT1.04.03 Beamline Instrumentation & Controls	Scheduled	0.00	0.00	81,699.13	426,128.04	537,432.55
Grand Total	Scheduled	0.00	68,853.67	2,094,870.67	2,716,425.91	5,217,726.84

Beam Transport Post CR017 CAP

Control Account:WBS (4)	FY13	FY14	FY15	FY16	Cumulative
BT1.01.02.01 Project Management Oversight FY13	Scheduled	56,415.81	0.00	0.00	56,415.81
BT1.01.02.02 Project Management Oversight FY14	Scheduled	0.00	139,404.50	0.00	139,404.50
BT1.01.02.03 Project Management Oversight FY15	Scheduled	0.00	3,062.52	118,198.79	121,261.31
BT1.01.02.04 Project Management Oversight FY16	Scheduled	0.00	0.00	2,374.71	33,305.15
BT1.02.01 Beam Transport Lambertson (MLAW) Magnet	Scheduled	0.00	295,983.41	0.00	295,983.41
BT1.02.02.01 Beam Transport Extraction Kicker Magnets (RKB 2)	Scheduled	6,218.93	163,023.76	0.00	169,242.68
BT1.02.02.02 Beam Transport Extraction Kicker Power Supplies	Scheduled	0.00	32,213.32	348,017.93	77,452.82
BT1.02.02.03 Beam Transport Kicker Loads & Cooling System	Scheduled	6,218.93	389,354.87	33,663.44	429,237.24
BT1.02.02.04 Beam Transport Recycler Ring Extraction Insert Installati	Scheduled	0.00	426,269.95	177,816.02	793,210.35
BT1.03.01.01 RR to P1 Vertical Bending Dipole ADCW (1)	Scheduled	0.00	24,275.42	0.00	24,275.42
BT1.03.01.02 RR to P1 Permanent Magnets RQA (4)	Scheduled	0.00	0.00	58,902.55	58,902.55
BT1.03.01.03 RR to P1 Trim Quad STQB (4+1)	Scheduled	0.00	159,220.31	0.00	159,220.31
BT1.03.01.05 RR to P1 Vertical Dipole Correctors (1+1)	Scheduled	0.00	8,653.56	0.00	8,653.56
BT1.03.02.01 RR to P1 Lambertson PS	Scheduled	0.00	50,020.25	10,489.67	60,509.92
BT1.03.02.02 RR to P1 Vertical Magnet PS	Scheduled	0.00	50,020.25	10,489.67	60,509.92
BT1.03.02.03 RR to P1 Trim Dipole PS(2)	Scheduled	0.00	26,087.02	0.00	26,087.02
BT1.03.02.04 RR to P1 Trim Quad PS(4)	Scheduled	0.00	30,932.88	0.00	30,932.88
BT1.03.03 Beam Transport RR to P1 Instrumentation	Scheduled	0.00	0.00	264,774.05	264,774.05
BT1.03.04 Beam Transport RR to P1 Installation	Scheduled	0.00	0.00	456,427.59	456,427.59
BT1.04.01.01 Beamline Magnets	Scheduled	0.00	46,035.89	66,610.61	112,646.50
BT1.04.01.02 Beamline PS	Scheduled	0.00	10,704.52	199,273.97	8,088.86
BT1.04.01.03 Beam Line Installation & Mechanical	Scheduled	0.00	79,833.55	373,296.51	453,130.06
BT1.04.01.04 RR to AP-O Target Station and RR to M3 Line optics	Scheduled	0.00	67,641.57	0.00	67,641.57
BT1.04.02 Beam Transport Electrical Infrastructure	Scheduled	0.00	10,433.98	169,962.38	180,396.36
BT1.04.03 Beamline Instrumentation & Controls	Scheduled	0.00	81,699.13	426,128.04	537,432.55
Grand Total	Scheduled	68,853.67	2,094,870.67	2,716,425.91	5,217,726.84