



**Muon Campus AIP**  
**Change Request Form**

**CR#:DR008**

<b>1) DATE:</b> 2/4/15	<b>2) WBS:</b> DR1	<b>3) Originator:</b> Ken Domann <i>KD</i>
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**4) WBS Description of Primary Affected Tasks:** Delivery Ring AIP

**5) Technical Description & Primary Motivation for Change:** This change request documents the changes to escalation calculations caused by entering new resource rates into Cobra that incorporated past experience on resource costs. It was not initially understood that Cobra does not automatically recalculate based on these new rates and therefore the old escalation values were not revised. The total change to the ~~Beam Transport~~ budget is \$43,142.  
*Delivery Ring*

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

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

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

<b>9) Approvals:</b>		
<b>AIP Project Manager:</b>	<i>Serald Annala</i>	<b>Date:</b> <u>2/4/15</u>
<b>AIP Project Coordinator:</b>	<i>Wang</i>	<b>Date:</b> <u>2/5/15</u>
<b>AD Div Director:</b>	_____	<b>Date:</b> _____
<b>Directorate:</b>	_____	<b>Date:</b> _____

Delivery Ring Pre CR008 CAP

Control Account		FY12	FY13	FY14	FY15	FY16	FY17	Cumulative
A1304.01.02.02 Delivery Ring Proj Mgmt OS - FY14	Scheduled	0.00	0.00	202,519.42	0.00	0.00	0.00	202,519.42
A1304.01.02.03 Delivery Ring Project Management Oversight - FY15	Scheduled	0.00	0.00	5,745.92	172,223.05	0.00	0.00	177,968.96
A1304.01.02.04 Delivery Ring Project Management Oversight - FY16	Scheduled	0.00	0.00	0.00	5,306.01	191,061.18	0.00	196,367.18
A1304.02 Collider Equipment Removal & Configuration	Scheduled	0.00	0.00	284,664.11	55,662.49	0.00	0.00	340,326.60
A1304.03 Delivery Ring Electrical Infrastructure	Scheduled	0.00	0.00	184,257.84	231,245.75	81,268.60	0.00	496,772.19
A1304.04 Delivery Ring Controls	Scheduled	0.00	0.00	337,819.33	57,692.73	2,536.17	0.00	398,048.23
A1304.05 Delivery Ring Instrumentation	Scheduled	0.00	0.00	0.00	0.00	192,344.08	0.00	192,344.08
A1304.06.01.01 Septa Supplies	Scheduled	0.00	0.00	8,821.22	633,869.97	67,997.90	0.00	710,689.09
A1304.06.01.02 Inj Kicker Power Supply	Scheduled	0.00	0.00	230,517.90	667,584.61	263,623.52	0.00	1,161,726.04
A1304.06.01.03 Abort Kicker Power Supply	Scheduled	0.00	0.00	83,910.98	572,642.20	430,913.70	0.00	1,087,466.87
A1304.06.02 New DC Supplies	Scheduled	0.00	0.00	0.00	0.00	385,250.90	0.00	385,250.90
A1304.07.01 Delivery Ring Repurposed Magnets	Scheduled	0.00	0.00	0.00	0.00	15,391.15	0.00	15,391.15
A1304.07.02 Delivery Ring Inj C Magnet	Scheduled	0.00	0.00	8,322.95	7,741.38	253,876.76	0.00	269,941.09
A1304.07.03 Delivery Ring Inj Kicker Magnet Refurbishment	Scheduled	0.00	0.00	1,497.74	0.00	84,554.66	0.00	86,052.40
A1304.07.04 Delivery Ring Magnetic Septa Magnets (1 spare)	Scheduled	0.00	0.00	0.00	0.00	396,127.68	0.00	396,127.68
A1304.08.01 Tunnel Installation	Scheduled	0.00	0.00	40,477.84	0.00	753,250.57	0.00	793,728.41
A1304.08.02 Cable Installation	Scheduled	0.00	0.00	0.00	0.00	177,007.41	0.00	177,007.41
Grand Total	Scheduled	0.00	0.00	1,388,555.25	2,403,968.18	3,295,204.26	0.00	7,087,727.70

Delivery Ring Post CR008 CAP

Control Account	Results	FY12	FY13	FY14	FY15	FY16	FY17	Cumulative
A1304.01.02.02 Delivery Ring Proj Mgmt OS - FY14	Scheduled	0.00	0.00	202,519.42	0.00	0.00	0.00	202,519.42
A1304.01.02.03 Delivery Ring Project Management Oversight - FY15	Scheduled	0.00	0.00	5,745.92	172,223.05	0.00	0.00	177,968.96
A1304.01.02.04 Delivery Ring Project Management Oversight - FY16	Scheduled	0.00	0.00	0.00	5,306.01	195,501.07	0.00	200,807.08
A1304.02 Collider Equipment Removal & Configuration	Scheduled	0.00	0.00	284,664.11	55,662.49	0.00	0.00	340,326.60
A1304.03 Delivery Ring Electrical Infrastructure	Scheduled	0.00	0.00	184,257.84	231,245.75	81,883.71	0.00	497,387.30
A1304.04 Delivery Ring Controls	Scheduled	0.00	0.00	337,819.33	57,692.73	2,612.25	0.00	398,124.31
A1304.05 Delivery Ring Instrumentation	Scheduled	0.00	0.00	0.00	0.00	197,414.49	0.00	197,414.49
A1304.06.01.01 Septa Supplies	Scheduled	0.00	0.00	8,821.22	633,869.97	70,037.84	0.00	712,729.03
A1304.06.01.02 Inj Kicker Power Supply	Scheduled	0.00	0.00	230,517.90	667,584.61	267,728.15	0.00	1,165,830.66
A1304.06.01.03 Abort Kicker Power Supply	Scheduled	0.00	0.00	83,910.98	572,642.20	436,599.59	0.00	1,093,152.77
A1304.06.02 New DC Supplies	Scheduled	0.00	0.00	0.00	0.00	391,266.10	0.00	391,266.10
A1304.07.01 Delivery Ring Repurposed Magnets	Scheduled	0.00	0.00	0.00	0.00	15,735.71	0.00	15,735.71
A1304.07.02 Delivery Ring Inj C Magnet	Scheduled	0.00	0.00	8,322.95	7,741.38	253,876.76	0.00	269,941.09
A1304.07.03 Delivery Ring Inj Kicker Magnet Refurbishment	Scheduled	0.00	0.00	1,497.74	0.00	86,075.79	0.00	87,573.53
A1304.07.04 Delivery Ring Magnetic Septa Magnets (1 spare)	Scheduled	0.00	0.00	0.00	0.00	396,176.95	0.00	396,176.95
A1304.08.01 Tunnel Installation	Scheduled	0.00	0.00	40,477.84	0.00	763,942.83	0.00	804,420.67
A1304.08.02 Cable Installation	Scheduled	0.00	0.00	0.00	0.00	179,494.91	0.00	179,494.91
Grand Total	Scheduled	0.00	0.00	1,388,555.25	2,403,968.18	3,338,346.14	0.00	7,130,869.58