



Muon Campus AIP
Change Request Form

CR#:DR015

1) DATE: 3/29/16	2) WBS: DR1	3) Originator: Ken Domann <i>KAJ</i>
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4) WBS Description of Primary Affected Tasks: Delivery Ring AIP

5) Technical Description & Primary Motivation for Change: Add \$500,000 to the Delivery Ring AIP project to cover the increased scope for the Power Distribution Upgrade. New scope also includes the mitigation of an issue with deficient magnet adjuster hardware that is located throughout the Muon Campus. A future change request will be processed to add these new scope items to the project.

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

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

8) Secondary Impact & Other Comments: N/A

9) Approvals:		
AIP Project Manager:	<i>Gerald Annala</i>	Date: <u>4/1/16</u>
AIP Project Director:	<i>Gerald Annala</i>	Date: <u>4/1/16</u>
AIP Project Coordinator:	<i>May E</i>	Date: <u>4/1/16</u>
AD Div Director:	<i>S. Wagner</i>	Date: <u>4/01/16</u>
Directorate:	<i>S. Wagner</i>	Date: <u>4/01/16</u>
Federal Project Director:	<i>Paul R. Peltz</i>	Date: <u>4-4-16</u>
DOE Site Manager:	<i>MSM</i>	Date: <u>4/5/16</u>

Delivery Ring Pre CR015 CAP

CTC	FY12	FY13	FY14	FY15	FY16	FY17	Cumulative
DR1.01.02.02 Delivery Ring Project Management Oversight - FY14	Scheduled	0.00	0.00	202,519.42	0.00	0.00	202,519.42
DR1.01.02.03 Delivery Ring Project Management Oversight - FY15	Scheduled	0.00	0.00	5,745.92	172,223.05	0.00	177,968.96
DR1.01.02.04 Delivery Ring Project Management Oversight - FY16	Scheduled	0.00	0.00	0.00	5,306.01	194,104.53	199,410.53
DR1.02 Collider Equipment Removal & Configuration	Scheduled	0.00	0.00	284,664.11	55,662.49	0.00	340,326.60
DR1.03 Delivery Ring Electrical Infrastructure	Scheduled	0.00	0.00	184,257.84	231,245.75	80,618.31	496,121.90
DR1.04 Delivery Ring Controls	Scheduled	0.00	0.00	337,819.33	57,692.73	2,231.79	397,743.85
DR1.05 Delivery Ring Instrumentation	Scheduled	0.00	0.00	0.00	0.00	277,431.59	277,431.59
DR1.06.01.01 Septa Supplies	Scheduled	0.00	0.00	8,821.22	685,282.98	357,171.37	1,051,275.57
DR1.06.01.02 Inj Kicker Power Supply	Scheduled	0.00	0.00	230,517.90	535,764.96	435,132.72	1,201,415.58
DR1.06.01.03 Abort Kicker Power Supply	Scheduled	0.00	0.00	83,910.98	507,491.84	711,627.79	1,303,030.61
DR1.06.02 New DC Supplies	Scheduled	0.00	0.00	0.00	0.00	384,903.25	384,903.25
DR1.07.01 Delivery Ring Repurposed Magnets	Scheduled	0.00	0.00	0.00	0.00	15,690.01	15,690.01
DR1.07.02 Delivery Ring Inj C Magnet	Scheduled	0.00	0.00	8,322.95	7,741.38	252,725.88	268,790.21
DR1.07.03 Delivery Ring Inj Kicker Magnet Refurbishment	Scheduled	0.00	0.00	1,497.74	0.00	85,156.03	86,653.77
DR1.07.04 Delivery Ring Magnetic Septa Magnets (1 spare)	Scheduled	0.00	0.00	0.00	0.00	394,401.44	394,401.44
DR1.08.01 Tunnel Installation	Scheduled	0.00	0.00	40,477.84	145,057.51	614,894.31	800,429.66
DR1.08.02 Cable Installation	Scheduled	0.00	0.00	0.00	0.00	176,098.55	176,098.55
Grand Total	Scheduled	0.00	0.00	1,388,555.25	2,403,468.70	3,982,187.57	7,774,211.52

Delivery Ring Post CR015 CAP

CTC	FY12	FY13	FY14	FY15	FY16	FY17	Cumulative
DR1.01.02.02 Delivery Ring Project Management Oversight - FY14	Scheduled	0.00	0.00	202,519.42	0.00	0.00	202,519.42
DR1.01.02.03 Delivery Ring Project Management Oversight - FY15	Scheduled	0.00	0.00	5,745.92	172,223.05	0.00	177,968.96
DR1.01.02.04 Delivery Ring Project Management Oversight - FY16	Scheduled	0.00	0.00	0.00	5,306.01	194,104.53	199,410.53
DR1.02 Collider Equipment Removal & Configuration	Scheduled	0.00	0.00	284,664.11	55,662.49	0.00	340,326.60
DR1.03 Delivery Ring Electrical Infrastructure	Scheduled	0.00	0.00	184,257.84	231,245.75	80,618.31	496,121.90
DR1.04 Delivery Ring Controls	Scheduled	0.00	0.00	337,819.33	57,692.73	2,231.79	397,743.85
DR1.05 Delivery Ring Instrumentation	Scheduled	0.00	0.00	0.00	0.00	277,431.59	277,431.59
DR1.06.01.01 Septa Supplies	Scheduled	0.00	0.00	8,821.22	685,282.98	357,171.37	1,051,275.57
DR1.06.01.02 Inj Kicker Power Supply	Scheduled	0.00	0.00	230,517.90	535,764.96	435,132.72	1,201,415.58
DR1.06.01.03 Abort Kicker Power Supply	Scheduled	0.00	0.00	83,910.98	507,491.84	711,627.79	1,303,030.61
DR1.06.02 New DC Supplies	Scheduled	0.00	0.00	0.00	0.00	384,903.25	384,903.25
DR1.07.01 Delivery Ring Repurposed Magnets	Scheduled	0.00	0.00	0.00	0.00	15,690.01	15,690.01
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DR1.07.03 Delivery Ring Inj Kicker Magnet Refurbishment	Scheduled	0.00	0.00	1,497.74	0.00	85,156.03	86,653.77
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