Muon Campus AIP

Change Request Form

CR#: Cryo003		
1) DATE: 3/25/14	2)WBS: Cryo1	3) Originator: Ken Domann KAD 3/25/14

4) WBS Description of Primary Affected Tasks: Cryogenics AIP

5) Technical Description & Primary Motivation for Change: This change requests approval to add scope to the Cryo AIP to paint the refrigeration system heat exchangers. The total cost of this effort, which will be performed under an existing FESS contract, will be $2,720.

6) Assessment of Cost Impact (Use attachments if needed): See above analysis of cost impact. 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:	Jay Hill	**Date:** 3/25/14
AIP Project Coordinator:	Mary C	**Date:** 3/25/14
AD Div Director:		**Date:**
Directorate:		**Date:**

Cryo CR003 Material Cost Deltas

3/25/2014

UID	WBS	CTC	Name	Original Base M&S	New Base M&S	Delta	Comments
1	**Cryo1**		**Muon Campus Cryogenics - AIP**	**$2,601,265**	**$2,603,940**	**$2,675**	
833	**Cryo1.04**		**Cryogenic plant sub systems**	**$1,818,025**	**$1,820,700**	**$2,675**	
835	**Cryo1.04.04**		**Cryo Refrigerator System**	**$730,990**	**$733,665**	**$2,675**	
959	**Cryo1.04.04.02**		**Refrig Syst Heat exchangers**	**$25,000**	**$27,675**	**$2,675**	
2662	**Cryo1.04.04.02.01**		**Prep Heat Exchangers for Installation**	**$25,000**	**$27,675**	**$2,675**	
2917	Cryo1.04.04.02.01.06	A1301.04.04	Paint Heat Exchangers	$0	$2,675	$2,675	New activity

Cryo Cap Pre CR003

3/25/2014

Control Account	Baseline		Actual		Forecast			
	Start	Finish	Start	Finish	Start	Finish	WBS	$K
Work Package	Cost Set	FY12	FY13	FY14	FY15	FY16	FY17	Cumulative
A1301.02.01.01 Cryo AIP General Project OS - FY13	8/1/13	9/20/13	6/17/13	9/20/13	6/17/13	9/20/13		
	Scheduled	0.00	51.35	0.00	0.00	0.00	0.00	51.35
A1301.02.01.02 Cryo AIP General Project OS - FY14	9/23/13	9/22/14	9/23/13		9/23/13	9/22/14		
	Scheduled	0.00	3.59	128.89	0.00	0.00	0.00	132.49
A1301.02.01.03 Cryo AIP General Project OS - FY15	9/23/14	9/22/15			9/23/14	9/22/15		
	Scheduled	0.00	0.00	3.20	133.89	0.00	0.00	137.09
A1301.02.01.04 Cryo AIP General Project OS - FY16	9/23/15	9/22/16			9/23/15	9/22/16		
	Scheduled	0.00	0.00	0.00	3.28	137.85	0.00	141.13
A1301.02.01.05 Cryo AIP General Project OS - FY17	9/23/16	6/22/17			9/23/16	6/22/17		
	Scheduled	0.00	0.00	0.00	0.00	3.98	123.36	127.34
A1301.03 Cryo Basic Engineering	6/17/13	5/26/17	6/17/13		6/17/13	5/26/17		
	Scheduled	0.00	33.09	234.74	77.84	80.34	53.52	479.53
A1301.04.01 Cryo LN2 system	8/30/13	9/2/14	8/30/13		8/30/13	9/2/14		
	Scheduled	0.00	4.52	442.82	0.00	0.00	0.00	447.34
A1301.04.02 Cryo Gas management system	6/17/13	7/14/14	6/17/13		6/17/13	7/14/14		
	Scheduled	0.00	57.84	178.03	0.00	0.00	0.00	235.87
A1301.04.03 Cryo ODH system	5/5/14	8/26/14			5/5/14	8/26/14		
	Scheduled	0.00	0.00	49.62	0.00	0.00	0.00	49.62
A1301.04.04 Cryo Refrigerator System	6/17/13	2/1/16	6/17/13		6/17/13	2/1/16		
	Scheduled	0.00	149.08	1,094.39	105.12	319.40	0.00	1,667.98
A1301.04.05 Cryo Compressor System	6/17/13	9/23/14	6/17/13		6/17/13	9/23/14		
	Scheduled	0.00	59.45	366.94	0.00	0.00	0.00	426.39
A1301.04.06 Cryo Interconnect Piping	7/26/13	7/30/14	7/26/13		7/26/13	7/30/14		
	Scheduled	0.00	225.59	582.36	0.00	0.00	0.00	807.96
A1301.04.07 Cryo Interconnect Electrical & Controls	6/17/13	5/23/14	6/17/13		6/17/13	5/23/14		
	Scheduled	0.00	46.63	119.53	0.00	0.00	0.00	166.15
A1301.05.01 Mu2e Interface Connection	5/22/14	3/27/17			5/22/14	3/27/17		
	Scheduled	0.00	0.00	69.54	214.73	1,035.76	341.59	1,661.62
A1301.05.02 g-2 Interface Connection	8/19/13	9/20/13	8/19/13	9/20/13	8/19/13	9/20/13		
	Scheduled	0.00	27.20	0.00	0.00	0.00	0.00	27.20
A1301.06 Cryo Safety Documents	10/1/13	9/2/14	10/1/13		10/1/13	9/2/14		
	Scheduled	0.00	0.00	154.53	0.00	0.00	0.00	154.53
A1301.07 g-2 Cryo Checkout	10/31/14	5/22/17			10/31/14	5/22/17		
	Scheduled	0.00	0.00	0.00	71.72	0.00	75.95	147.67
A1301.08 Cryo g-2 Acceptance Tests	9/29/14	10/24/14			9/29/14	10/24/14		
	Scheduled	0.00	0.00	11.72	108.03	0.00	0.00	119.75
A1301.09 Cryo Mu2e Acceptance Tests	3/28/17	4/24/17			3/28/17	4/24/17		
	Scheduled	0.00	0.00	0.00	0.00	0.00	104.33	104.33
Grand Total								
	Scheduled	0.00	658.34	3,436.32	714.61	1,577.32	698.75	7,085.33

Cryo Cap Post CR003

3/25/2014

	Baseline		Actual		Forecast		CAM	
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A1301.04.07 Cryo Interconnect Electrical & Controls	6/17/13	5/23/14	6/17/13		6/17/13	5/23/14		
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Grand Total								
	Scheduled	0.00	658.34	3,439.04	714.61	1,577.32	698.75	7,088.05