

Mu2e news + Calo Schedule



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04/03/24

S.Miscetti @Mu2eltaly - Mu2e Status and Calo schedule

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Short Summary of News - 1

- **TS in installed!** 😊

Party on the 15th of March with Lia and Bonnie and Magnet team

- **Working Schedule for other magnets:**

→ PS almost completed, **2 MAY 2024, 90 % CL**

→ DS drives the schedule, **30 SEP 2024**

but GA is slipping again (there is a threat of other 1-2 months)

- **An INFN related visit to Mu2e will be done by Hep President on the 27 of March: Calo, Tracker, Hall + Meeting with Lia and Bonnie**

→ Occasion to discuss about MOF and other issues ..

→ Discuss again about housing trying to move it to formal INFN-FNAL agreement for the long range

Short Summary of News - 2

- **Tracker**

- They are looking for PostDoc and Technical help (IB-request).
- Behind for QC of preamps and boards (PhD, PostDoc shifts?)
- Behind for Electronics installation on panels → Techs or experts, any idea of Techs for August/September?

- **Accelerator**

- beam should be re-established in the coming week also for Muon Campus
- AC Dipole construction is finally progressing OK , Second 1-m dipole completed
- **ESS-1**

- It looks like the situation is almost understood.
- Clean room is being improved
- Found the spark reason on Silver plated screws
- Repairing of missing foils and backout in progress
- Test again with HV
- Progressing with ESS-2 preparation

- **Relevant meetings/important dates**

- Global TDAQ RUN → 10-18 March, June ... and then see what's going on
- Mu2e CM, March 18-23
- Mu2e DOE IPR → Briefing, end of May , **REVIEW : End of June**
- B&R Operation Review (All Fermilab Intensity Frontier) → **REVIEW: End of July**

Calorimeter Schedule in P6

WBS	WBS Name	Activity ID	Activity Name	Activity Status	Planned Duration	Remaining Duration	Activity % Complet	(*)BL Project Start	START (working schedule)	(*)BL Project Finish	Finish	ACTUAL FINISH?	
475W.07.05	Digitizer and Front End Electronics	47507.5.002020	Delivery of MB with SEL protection - Second half	Not Started	1	1	0	Thursday, 1 February 2024	Monday, 1 April 2024	Thursday, 1 February 2024	Monday, 1 April 2024		
475W.07.05	Digitizer and Front End Electronics	47507.5.001025	SVT: INFN delivery of digital electronics Second half	Not Started	4	4	0	Tuesday, 12 September 2023	Thursday, 29 February 2024	Friday, 12 January 2024	Tuesday, 5 March 2024		
475W.07.07	Calorimeter Power	47507.7.001020	Install high voltage system in electronics room Part 3	In Progress	87	22	68	Wednesday, 1 February 2023	Wednesday, 1 February 2023	Thursday, 1 February 2024	Thursday, 1 February 2024	Sunday, 2 June 2024	
475W.07.08	Assembly Disk1		Insert FEE-MB cables before digital boards for Disk 1	In progress	59	70	70,00	Friday, 10 March 2023	Friday, 1 September 2023	Tuesday, 23 May 2023	Monday, 25 March 2024	Monday, 25 March 2024	
		47507.8.002580	SVT: Insert digital boards in crates for Disk 1	Not Started	20	20	0	Thursday, 4 January 2024	Tuesday, 26 March 2024	Thursday, 1 February 2024	Monday, 22 April 2024	Wednesday, 22 May 2024	Defer 1 mont
		47507.8.002560	SVT: Installation of laser fiber on Disk 1 crystals	Not Started	15	15	0	Wednesday, 8 March 2023	Tuesday, 23 April 2024	Tuesday, 28 March 2023	Monday, 13 May 2024	Thursday, 13 June 2024	Defer 1 mont
475W.07.08	Assembly Disk1	47507.8.001880	Insert digital boards in crates for Disk 0 (+FEE-MB cabling)	Not Started	15	15	0	Friday, 2 February 2024	Tuesday, 23 April 2024	Thursday, 22 February 2024	Monday, 13 May 2024	Sunday, 30 June 2024	Defer 1.5 mon
		47507.8.001810	Install laser distribution box on Disk 0 support	Not Started	5	5	0	Friday, 11 August 2023	Tuesday, 2 January 2024	Thursday, 17 August 2023	Monday, 8 January 2024	Saturday, 2 March 2024	Can we do it no Daniele?
		47507.8.001820	Installation of laser fiber on Disk 0 crystals	Not Started	15	15	0	Friday, 8 September 2023	Tuesday, 14 May 2024	Thursday, 28 September 2023	Tuesday, 4 June 2024	Monday, 15 July 2024	Defer1.5 mont
		47507.8.001900	SVT: Insert TDAQ fibers and test Calorimeter readout for Disk 0	Not Started	0	0	0	Friday, 8 March 2024	Wednesday, 29 May 2024	Thursday, 28 March 2024	Wednesday, 29 May 2024	Saturday, 20 July 2024	Last Round of fib preparing te
		47507.8.001920	Install inner bore temperature monitoring system for Disk 0	Not Started	5	5	0	Friday, 29 March 2024	Thursday, 20 June 2024	Thursday, 4 April 2024	Wednesday, 26 June 2024	Tuesday, 30 July 2024	Defer 1 Mont
		47507.8.001980	SVT: Prepare disk 0 for move	Not Started	0	0	0	Friday, 5 April 2024	Thursday, 27 June 2024	Friday, 12 April 2024	Thursday, 27 June 2024	Sunday, 15 September 2024	Defer 2 montl
475W.07.08	Prepare to Move	47507.8.002740	T5 - DISK 1 is completed and ready to move to rails	Not Started	0	0	0			Thursday, 14 March 2024	Thursday, 11 July 2024	Saturday, 21 September 2024	Defer 2 montl
		47507.8.002000	T5 - DISK 0 is completed and ready to move to rails	Not Started	0	0	0			Friday, 12 April 2024	Thursday, 27 June 2024	Sunday, 29 September 2024	Defer 2 montl
		47507.8.002746	Disk Lifting tool delivered	Not Started	22	22	0		Wednesday, 29 May 2024				
		47507.8.002753	Final Transportation Review	Not Started	3	3	0		Monday, 1 July 2024		Wednesday, 3 July 2024		
		47507.8.002840	Move Disk 1 to Mu2e Detector Enclosure	Not Started	1	1	0	Friday, 12 July 2024	Wednesday, 21 August 2024	Friday, 12 July 2024	Wednesday, 21 August 2024	Saturday, 21 September 2024	Defer 1 mont
		47507.8.002780	Move Disk 0 to Mu2e Detector Enclosure	Not Started	1	1	0	Monday, 22 July 2024	Thursday, 29 August 2024	Monday, 22 July 2024	Thursday, 29 August 2024	Sunday, 29 September 2024	Defer 1 mont

NO CONSIDERATION ON INSTALLATION OF CRT .. IF NEEDED

George overview .. With Muon BeamLine

	January Baseline Start	January Baseline Finish	January Working Start	January Working Finish
* Install cable management system	3-Nov-23		21-Dec-23	30-Jan-24
* Preparation of cables	1-Dec-23	3-Jan-24	1-Apr-24	26-Apr-24
* Working start delayed by an artificial link				
* Install cal cables and fibers on south side	4-Jan-24	16-Jan-24	29-Apr-24	8-May-24
* Install tracker cables and fibers	1-Mar-24	9-May-24		
* Baseline start delayed by an artificial link				
* Install cal cables and fibers on north side	10-May-24	21-May-24	23-Jul-24	1-Aug-24
* Install and align external rail system	22-May-24	12-Jun-24	2-Aug-24	22-Aug-24
* Install east end hatch blocks	13-Jun-24	14-Jun-24	23-Aug-24	26-Aug-24
* Install isolation barrier	26-Jun-24	10-Jul-24	27-Aug-24	10-Sep-24
* Install muon beam stop on rails	11-Jul-24	15-Jul-24	11-Sep-24	13-Sep-24
* Align muon beam stop	16-Jul-24	19-Jul-24	16-Sep-24	19-Sep-24
* Move disk 1 to Mu2e building	22-Jul-24	22-Jul-24	20-Sep-24	20-Sep-24
* Install disk 1	23-Jul-24	29-Jul-24	23-Sep-24	27-Sep-24
* Move disk 0 to Mu2e building	30-Jul-24	30-Jul-24	30-Sep-24	30-Sep-24
* Install disk 0	31-Jul-24	6-Aug-24	1-Oct-24	7-Oct-24
* Connect disk 0 to disk 1	7-Aug-24	20-Aug-24	8-Oct-24	21-Oct-24
* Note that duration of task 47507.8.002900 should be increased from 5 days to 10 days to match 47507.8.002940				
* Test movement	21-Aug-24	28-Aug-24	22-Oct-24	29-Oct-24
* Couple calorimeter and muon beam stop	29-Aug-24	4-Sep-24	30-Oct-24	4-Nov-24
* Install and align IFB	5-Sep-24	19-Sep-24	5-Nov-24	19-Nov-24

S. Misner - Mu2e Italy - Mu2e-2024 and Calo schedule