



MERIT - Status of the Experiment

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MERIT safety review (3)

<http://cern.ch/merit>



Outline



- Status of the MERIT control room
- Status of experimental zone TT2A

- Schedule

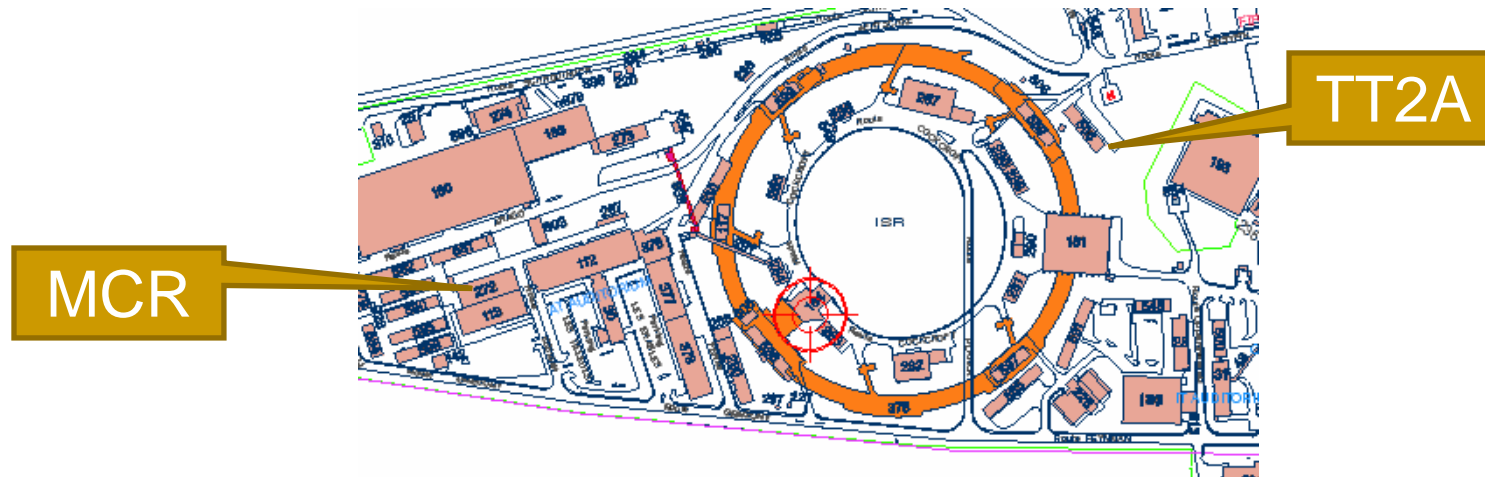
- Access of personnel and material to TT2/A from ISR
 - Access door D201
 - Installation during PS operation
 - Access door D202



MERIT control room



- Located in building 272
 - 272 S-002
 - Equipped with 12 Ethernet ports (currently 4 PCs installed and 2 portable outlets)



- Communicates with the experimental setup in TT2/A ONLY via Ethernet (no hard wires).



TT2A



- TT2A: Ready for goods reception.





Doors



- D201 for access
- D202 for emergency exit only
- Layout of access system by TS/CSE:
<https://edms.cern.ch/document/811612/1>



Access



For Personnel and small material via ISR



For heavy goods via the access pit





Schedule



ID	Task Name	Duration	Start	Finish	Timeline (Days)																															
					March							April							May							June							July		Aug	
					18-02	25-02	04-03	11-03	18-03	25-03	01-04	09-04	15-04	22-04	29-04	06-05	13-05	20-05	27-05	03-06	10-06	17-06	24-06	01-07	08-07	15-07	22-07	29-07								
1	Hg-loop at MIT	0 d	26 Feb '07	26 Feb '07																																
2	Combined tests at MIT	3 d	26 Feb '07	01 Mar '07																																
3	Transport (Hg-loop + solenoid)	7.2 d	14 Mar '07	26 Mar '07																																
4																																				
5	Hg-loop + solenoid at CERN	0.8 d	26 Mar '07	26 Mar '07																																
6																																				
7	Magnet tests at bat.180	15.2 d	27 Mar '07	23 Apr '07																																
8	Installation	1.6 d	27 Mar '07	28 Mar '07																																
9	Connection to the cryo system	4 d	29 Mar '07	04 Apr '07																																
10	Room temperature tests	2.4 d	05 Apr '07	10 Apr '07																																
11	Cold tests / recycling	7.2 d	11 Apr '07	23 Apr '07																																
12																																				
13	Pre-installation safety review	1 d	29 Mar '07	30 Mar '07																																
14	Eastern	1 d?	06 Apr '07	10 Apr '07																																
15	PS with beam	144 d	16 Apr '07	21 Dec '07																																
16	SPS with beam	#####	08 May '07	21 Dec '07																																
17																																				
18	Installation in TT2/TT2A	4.8 d	24 Apr '07	01 May '07																																
19	Lowering of material	0.8 d	24 Apr '07	24 Apr '07																																
20	Position solenoid + Hg loop to	0.8 d	24 Apr '07	24 Apr '07																																
21	Position beam elements	1 d	25 Apr '07	26 Apr '07																																
22	Installation cryo and racks in	1 d	27 Apr '07	30 Apr '07																																
23	Close shaft - activate access	0.8 d	01 May '07	01 May '07																																
24	Commissioning	10.4 d	02 May '07	21 May '07																																
25	Cryogenics + solenoid + power	2 d	02 May '07	04 May '07																																
26	Hg-loop + optic diagnostics	3.6 d	07 May '07	11 May '07																																
27	Insert Hg-loop into solenoid	2 d	11 May '07	15 May '07																																
28	Combined tests	2 d	16 May '07	18 May '07																																
29	all systems operational remotely	0.8 d	18 May '07	21 May '07																																
30	Finalize installation	12 d	21 May '07	11 Jun '07																																
31	fine-tune beam diagnostics	12 d	21 May '07	11 Jun '07																																
32	fine-tune particle detectors	12 d	21 May '07	11 Jun '07																																
33	precise alignment	2.4 d	05 Jun '07	07 Jun '07																																
34	fine-tune all systems	12 d	21 May '07	11 Jun '07																																
35	Waiting for beam	4 d	12 Jun '07	18 Jun '07																																
36	Commissioning with beam	7.2 d	19 Jun '07	29 Jun '07																																
37	timing setup	5.6 d	19 Jun '07	27 Jun '07																																
38	parameter logging verification	7.2 d	19 Jun '07	29 Jun '07																																
39	pilot pulses	7.2 d	19 Jun '07	29 Jun '07																																
40	MERIT run	8.8 d	03 Jul '07	17 Jul '07																																



Access during PS operation



During PS operation

- Radiation monitor in the safety chain of PS operation.
- Extended “safety” area up to the ISR tunnel
 - Panels: Visual information for area with limited access
 - Ribbon: Indicating area limits
 - Film badge and electronic dosimeter obligatory
- For a limited time period.
- AB/OP is informed about the access to TT2A during PS operation. Access will be coordinated with beam operation.





Summary



- CERN site is prepared for installation and commissioning.
- Access to TT2A during PS operation is a remaining issue.
- Schedule is tight. MERIT will be ready for beam time in June/July.
- The MERIT collaboration thanks all people at CERN involved in the MERIT preparation for their support: TS/EL, AT/ECR, AB/ABP, AB/CO, AB/PO, TS/CE, AT/VAC, TS/IC, TS/CSE, AT/MEL, AB/ATB, AB/SU and safety commission