

MTE-KFA 4-13/21

New Building

Kick off meeting 28.02.19

Introduction

- Motivation
 - POPS + Project needs the space in the B367 occupied by the ABT's Kickers' System
- ABT's Kickers' System Constraints
 - Length of the HV Cable – Big impact delaying the HV pulses on the magnets
 - Mandatory
 - Keep the existing HV cables (saving $\sim > 1$ MCHF) and at the same length
 - Find a free location close to the PS ring – PR.SD04; PR.SD13; PR.SD21

Picture from Intersection B367 - Route Goward



Picture from Route Goward



Output of existing HV Cables to B367



B367- MTE's equipment



HV Cables involved- KFA 4-13-21



B367- Proposed location with last configuration



Rough first estimation New B-MTE						
What & Where	How Long		Who			Estimated Cost kCHF
	Start	Finish	EN	SMB	TE	
Removal of the barrack 6573	tbd	tbd	X	X		15
Construction New B-MTE (225 m2 – 10 m high)	tbd	tbd		X		900
Preparation infrastructure and Services (Electricity, air, water, lifting bridge, etc.)	tbd	tbd	X	X	X	400
Oil retention 180 m2 and false floor	tbd	tbd		X		180
Drawings	tbd	tbd			X	5
Building - Total estimated						1500
Removal of the HV TX Cables from B367	tbd	tbd			X	16
Removal of the PFN Drums from B367	tbd	tbd	X		X	1.6
Removal of the equipment from B367 (HW and Control)	tbd	tbd			X	100
Re-route of the HV TX Cables in B-MTE	tbd	tbd			X	10
Installation of the PFN Drums in B-MTE	tbd	tbd	X		X	2
Installation of the equipment in B-MTE (HW and Control)	tbd	tbd	X		X	120
Dismantling & Installation - Total estimated						249.6

Costs need another iteration to validate in detail with SMB and EN

Proposed Planning



Conclusion

- Estimated Budget for a new building ~ 1.5 MCHF (to validate)
 - Not included removal of B149!
- Milestone of the New building ready with all services – June 2024
- Optimization still possible: study on going during 2019
- In order to prepare properly and achieve the milestone defined the removal of barrack and 149 required to be managed quite soon in this project.