

# Handling of Critical Items for Transportation

LIU-PSB Meeting 127  
26<sup>th</sup> June 2014

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# Content

- List of “critical” items to be handled
  - BT.BHZ10 / BTM.BHZ10 handling
  - Reference magnet
  - Pile of transformers
- Study schedule

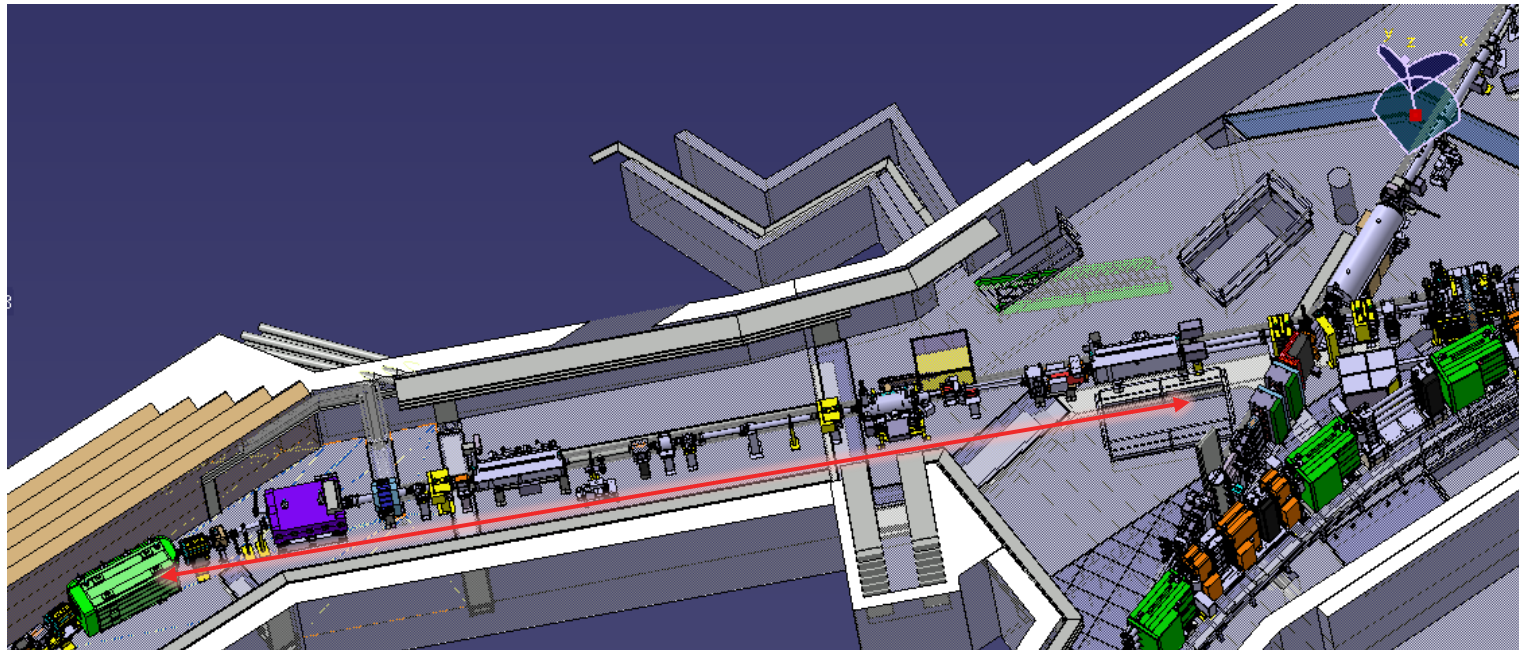
# List of “critical” items to be handled

- BT.BHZ10 / BTM.BHZ10 handling
- Reference magnet
- Pile of transformers between the extraction and the booster ring

Why critical: some elements seem have been installed from the PS before the installation of shielding wall (not any more dismountable)

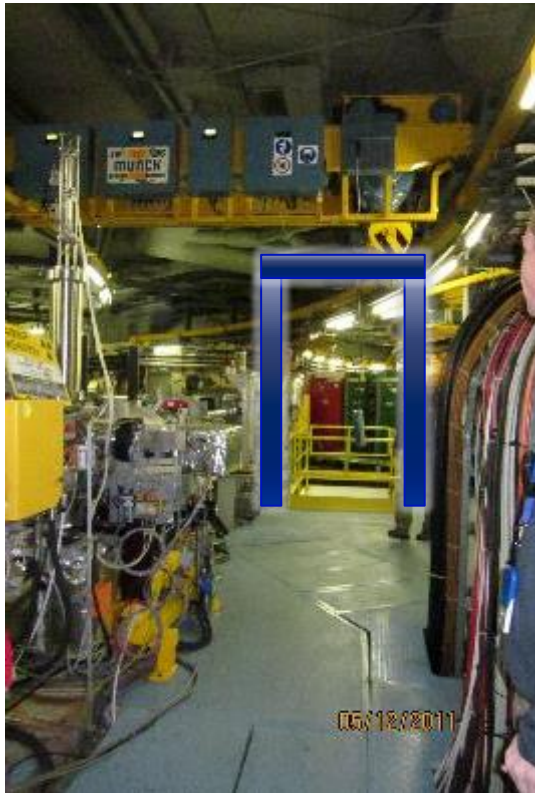
# BT.BHZ10 / BTM.BHZ10 handling

- Removal from the beam line close to the handling pit with hydraulics jack and rollers
- Some small elements need to be removed from the passage



# BT.BHZ10 / BTM.BHZ10 handling

- Gantry need to be installed over the pit  
lifting capacity of the crane not sufficient(10t)



# BT.BHZ10 / BTM.BHZ10 handling

- Transfert in the access tunnel
- And removal from the tunnel with overhead crane





# Reference magnet

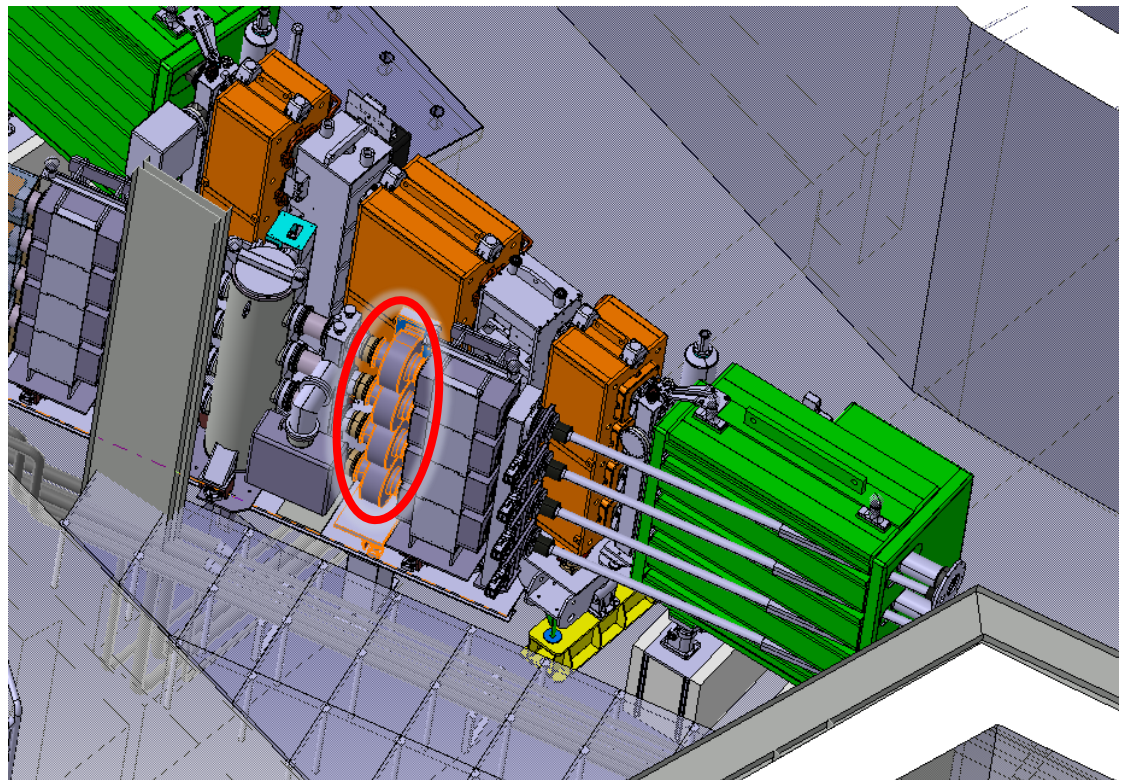
- Similar problem as BT/BTM.BHZ10 magnet handling
- No handling means not suitable for removal of the magnet

## 2 Options:

- False floor need to be reinforced (taking in consideration present infrastructure and future infrastructure) -> then transfer on roller
- Or dismantling of the magnet in smaller pieces
- Strategy to be decided

# Pile of transformers

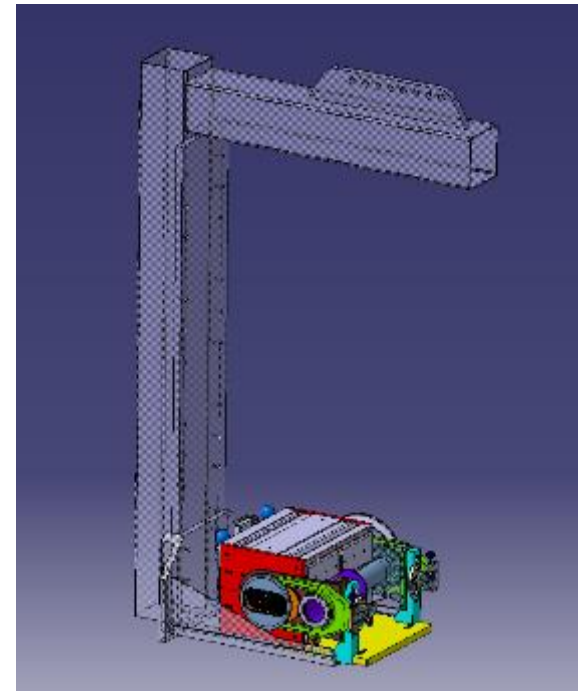
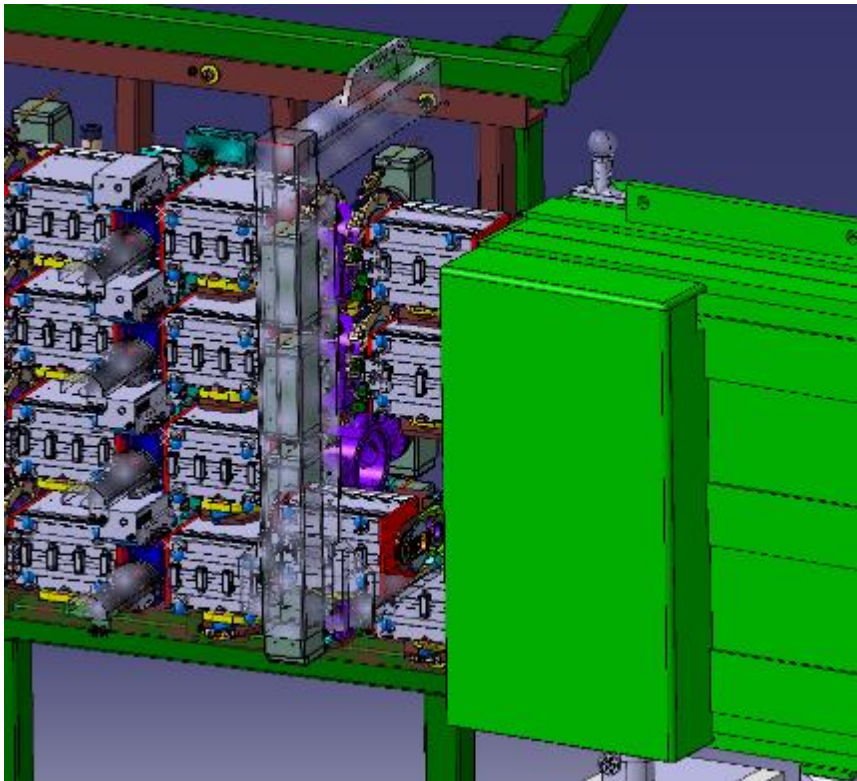
- Some tooling need to be build to replace one magnet at a time





# Pile of transformers

- Similar tooling under pre design for BSW magnets



# Study schedule

- Pre study start in autumn 2014
- Start of the design for the new handlings equipment 2015



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