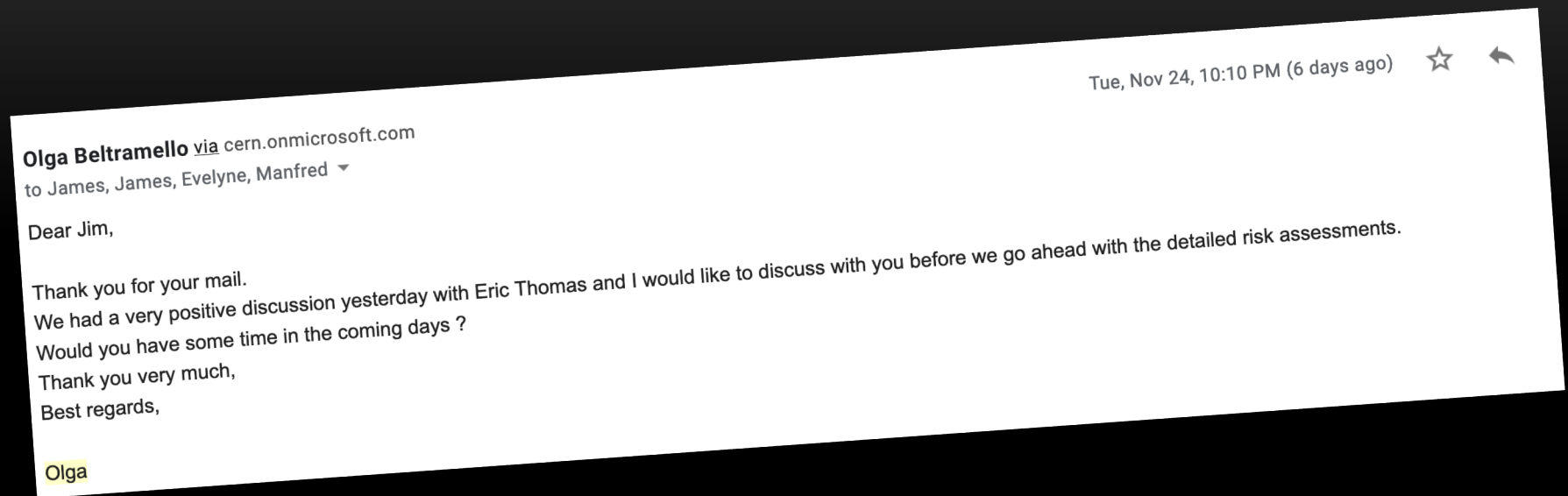


# INTERACTIONS WITH THE LHCC

James Pinfold, Richard Soluk  
for the MoEDAL-MAPP Collaboration

# Updates Since Last Meeting



- *Our first “face-to-face” with the EP Safety Group (chaired by Olga Beltramo) Took place on November 24<sup>th</sup>*
- *This meeting took place after the Safety Group met with Eric Thomas (LHCb Technical Coordination). Their meeting with LHCb was described to be very positive.*
- *Indeed we have a few potential breakthroughs from this meeting which if confirmed by LHCb Technical Coordination represents a substantial move forward*

# Main Points from Our Meeting With the EP Safety Group (1)

- *LHCb Technical Coordination (LTC) as represented by Eric Thomas agreed that:*
  1. *MoEDAL-MAPP could “connect into” the LHCb safety systems (fire safety, safety inspections etc.) 👍*
  2. *We can access the UGC1 gallery using a moveable ladder that can be stored underground - this was originally our preferred solution that was previously not accepted by LTC 👍*
  3. *We can continue to utilize the underground irradiated material storage, database and LHCb’s Radiation Protection people with as we did in RUN-2 as long as LHCb is reimbursed 👍*
- *We will write to LTC to clarify bullet 3. and ask if we can use the same approach (reimbursement) to disposing of any garbage generated in a radiation protected area (~ few kg/year)*

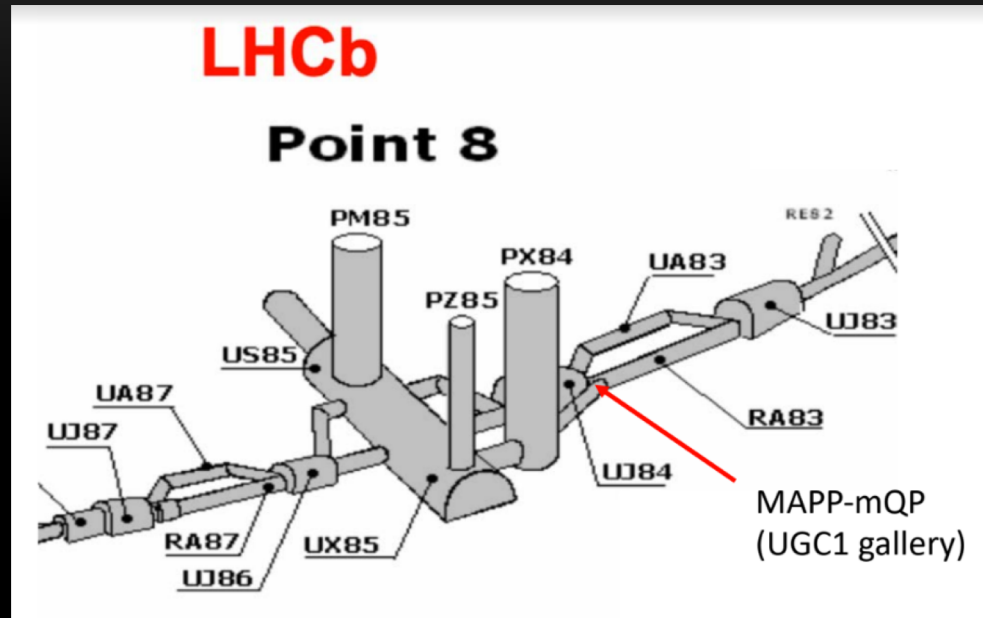
# Main Points from Our Meeting With the EP Safety Group (2)

- *Accessing the UGC1 gallery:*
  - *As stated previously it was agreed by LHCB we would use a moveable ladder to access the UGC1 gallery that could be stored underground*
  - *EP safety suggested we could use a loading bar in the mouth of the UGC1 gallery to raise detector elements from the floor to the mouth of UGC1*
- *This above approach eliminates the need for cherry pickers, scissor-lifts and then need to get them down to the floor of the cavern.*
- *This approach also means that we would not **need** to utilize the crane – although in year end TSs it may be the most efficient and timely solution.*

# Main Points from Our Meeting With the EP Safety Group (3)

- *Discussion on UGC1 Gallery - Issues: Floor flatness, small amount of standing water in grated floor drain, wall covering, ventilation, fire detection, safety fence at mouth of gallery*
  - *We argued that the floor flatness was not a problem (no detector pieces greater in mass than 20 kg + the use of levelled rails to mount the detector*
  - *We argued the shotcrete covered walls are fine and that a small amount of standing water in the grill covered central drain is not a problem for us*
  - *We presented our initial plan for ventilation.*
  - *We suggested the use of a lockable gate to reduce the need for lockdown inspections when the UGC1` gallery is not in use.*
- *We had a very amicable discussion on all aspects with the EP Safety Group who will try to present a few solutions to each issue in order to reduce costs.*
- *We await the final report on these issues from the EP Safety Group – before approaching HSE with solutions.*

# Acquisition of the LHC Clock



- *Thanks to Johannes Troller (CERN EN-EL-FC) and Tom Levens (CERN Beams Department) we have a possibility to supply the LHC BST clock from UA83 to the VELO cavern and UGC1*
- *We have now to use PLAN to specify the request precisely*
  - *To this end we have contacted the PLAN coordinator for our group (Davide Caforio) and also th EN-EL PLAN Coordinator (Stefano Meroli)*