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MAPP TS2 2024 STATUS



TS2 2024

- TS2 was scheduled for Oct 21-23, 2024
- Goals
 - Replace all the NTD plastic for MoEDAL around the LHCb VELO alcove
 - Replace TPX power supply just outside of the VELO alcove
 - Reconfigure MAPP in UA83 so that all 4 scintillator frames had a 7x7 array of scintillator blocks with PMTs and all cabling connected
 - Close MAPP and complete all requirements for a safety inspection to receive run clearance
 - Install MAPP electronics and commission data readout of partial detector





Actual Schedule TS2 2024

- PM85 lift required a cable replacement on Oct 21, zone not cleared by RP until 16:30 allowing approximately 1 hour of access
 - UA83 access Oct 22 and Oct 23 (only till 5PM)
- Part of VELO alcove now has radiation levels that raised it from a supervised to a controlled area limiting access
 - People without controlled area training could still work in the area outside the VELO alcove

UA83





- NTD replacement over 3 days
 - Oct 21 Jack Lindon, Abhinab Mukhopadhyay, Richard Soluk
 - Oct 22 Jack Lindon, Richard Soluk
 - Oct 23 Jack Lindon, Richard Soluk
- TPX power supply repair
 - Oct 22 Martin Farkas
- All NTDs replaced and new temporary TPX power supply installed for use until YETS



UA83



MAPP UA83



- Flame shield removal.
 - Oct 21 brief access Mukhopadhyay, Soluk
- Detector frames moved (>1 ton)
- Scintillator bars reconfigured to 7x7 array with PMTs and colinear between frames
- Cabling done on both sides of detector patch panel
- Flame shield reinstalled and all seams sealed
 - Oct 22 Subash Behera, Mukhopadhyay, Soluk
 - Oct 23 Behera, Soluk







MAPP Electronics

- Electronics installation and rack configuration
- All detector frames individually grounded
 - Oct 22, 23 Paul Davis
- Safety inspection done 12:30 Oct 23
 - Special thanks to Evelyne Dho and James Devine for making the safety inspection possible







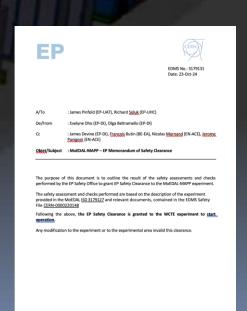


MAPP Electronics

- Minor modifications needed to satisfy safety requirements
 - Mainly IP2X requirement that electronic components could not accidentally be touched
- Run certificate granted









Electronics Cabling

- Oct 23 access ran out before electronics-side cabling could be done or second ADC board installed
- Oct 24 short access granted, warned it could be as short as 20 minutes
- Installed 64 channels on first ADC board
- Installed second ADC board and connected additional 64 channels

