Mitigation of stray magnetic fields in MICE

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Editors:

- **KL:** Sections 1, 5 and 6;
- MG: Section 3 (KL and IT will fill in while MG away); and
- IT: Sections 2 and 4.

1 Introduction

1.1 The need for stray-field mitigation

Lead author: PS/CM/MC

1.2 West Wall mezzanine and Rack Room 2

Lead author: JT

1.3 Overview of strategy

Lead author: KL

2 Magnetic model of the MICE Hall

Lead author: PS

This section should include an appropriate discussion of the steps taken to validate the Hall model:

- Review by Vector fields; and
- (Limitted) measurements.

3 Baseline magnetic mitigation scheme

3.1 Overview

Lead author: PS

3.2 Inventry of sensitive items

Lead author: CM

3.4 Racks and compressors Lead author: MG 3.5 Cost, schedule and risk Lead author: CM/KL/RP 3.6 Summary Lead author: CM/KL 4 Partial return yoke 4.1 Overview Lead author: HW 4.2 Magnetic design Lead author: HW 4.3 Mechanical design Lead author: SP

3.3 Tracker readout systems

Lead author: KM

4.5 Cost, schedule and risk

4.4 Implementation in the MICE Hall

Lead author: HW/JT/RP

4.6 Summary

Lead author: JT

Lead author: JT/HW

5 Recommended action

Lead author: KL

6 Conclusions

Lead author: KL

References