Protection against accidental contacts with normal conducting magnets

Consolidation program
AD ring

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on behalf of TE-MSC-NCM
1. A progressive consolidation program upgrading the present protections to conformity was established, so called Phase 1, and was engaged with the objective of being completed by the end of LS2
2. Priority was given to eliminate level category “e” magnets with best effort also on level category “d”
3. In case of work in proximity of a magnet, the risk of accidental contact with live conductors is removed by protective covers following EN 60529 (CEI 70-1) standards, with appropriate IP protection level

6. Level of protection provided by the covers

We define five levels graded from a to e, from the highest protection to the lowest protection.

- Level a: Full protection
- Level b: High protection
- Level c: Medium protection
- Level d: Low protection
- Level e: None – No protection

Recall

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Consolidation program
AD ring installation

1. The consolidation of the AD magnets was carried out until Friday, June 4.
2. Protective covers on 57/57 main quadrupoles were successfully installed and certified conform to IP standards by HSE.

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3. Dipole magnets could not be consolidated within the time allotted before restarting the machine.
4. One dipole was consolidated.
5. This first phase of consolidation will be completed during the next YETS as from November 15 in agreement with our colleagues from operation. It will concern 24 bending magnets of the AD machine and represents one week of installation work.