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## Magnets repair for 3-4 sectors

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The incident in 3-4 sector has affected some 50 main LHC magnets. Such a scenario was never considered as realistic in the past. Our reserve of magnet has been barely sufficient (some 40 dipoles and 14 SSS, in some cases the reserve magnet types are not compatible with the one damaged).

Furthermore the subsequent measurements on other sectors have shown the necessity to replace other magnets.

The plan and methods for assessing the damage that occurred to a cold mass and the decision on its substitution, rather than a simple revamping of the magnet itself, will be discussed. The question if the magnets in the sector are adequate for powering and beam operation will be addressed. The implementation of the changes and their traceability will be presented. Finally the spare situation, which includes the plan for repairing and testing of all damaged cold masses of sector 3-4 and the impact on it of the 3-4 incident, is discussed.

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