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Magnet Power Supplies Reliability Improvements at SOLEIL

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Maintenance and upgrades of the magnet power supplies are a critical consideration for our facility since the injector complex is already 10 years old and main of the storage ring equipment are approaching the same age.

This presentation first focuses on the main maintenance operations carried out on these systems, which represent more than 600 power converters. Two important reliability improvements implemented on the Booster 3Hz power supplies and on the Storage Ring quadrupole power supplies are then detailed.

Finally, the in-house construction of new spare power supplies, in order to improve the equipment availability, is presented. The strategy adopted regarding the spare parts for the whole of our equipment is also examined.

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