

# RELIABILITY IMPROVEMENTS AT THE ALBA SYNCHROTRON LIGHT SOURCE FACILITY

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The ALBA synchrotron light source started the regular operation with users in 2012. From that moment we have moved from Decay to Top-Up and we have standardized the operation procedures. An improvement of the Mean Time Between Failures (MTBF) can be observed along the years.

However, it has not always been a smooth path. During these years, different issues have worsened the beam availability statistics. Various actions have been taken to overcome them. Here, we will report about four problems and the correction means we have applied: a storage ring kicker electronics repetitive failure, the collapse of the water cooling distribution, the fragility of the Radiofrequency IOTs and the preventive maintenance of the magnet power supplies. These enhancements on the hardware and procedures are mirrored in the evolution of the number of failures.

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