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Maintenance at ALBA Synchrotron Light Source - part - Electronics & Controls

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After two years of successful exploitation with external users at ALBA synchrotron the current preventive maintenance approach is giving excellent results with high rate availabilities.

An accelerator maintenance singularity is the conjunction of a high complex conventional facility with an intrinsic dynamically changing scientific environment. The dense preventive maintenance program matches tightly with the operation plan that at the same time is going shorter in order to increase beam time hours for users. Shutdown periods are the best availability window to execute the critical scheduled maintenance joined to the improvements and upgrades of the whole facility. The Computerized Maintenance Management Systems (CMMS) are the tools to coordinate whole year process activities related to maintenance and analyze operation calendar updates and facility upgrades.

The cost associated with the preventive maintenance and the complexity in arranging the needed activities and operations are the motivation to explore the viability of Condition Based Maintenance (CBM) approach at ALBA, seeking for optimizing the maintenance frequency and, consequently, cost and reliability.

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