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A Large Scale UPS for the Australian Synchrotron

At The Australian Synchrotron we routinely deliver around 98% of scheduled beam time to users. As many internal causes of beam loss have been eliminated, the major cause of lost time is now due to beam loss from incoming power disturbances.

A project has been underway for the last 18 months to gain a greater understanding of the failure patterns of different systems of the accelerator and to ensure that an Uninterruptible Power Supply (UPS) will protect the Facility from most external power disturbances.

A large UPS system is being installed at the Australian Synchrotron. This paper will discuss our findings and highlight the factors influencing our decisions and tradeoffs inherent in deciding upon a suitable solution.

Summary

A large UPS system is being installed at the Australian Synchrotron.

Why is it needed and what benefits do we hope to achieve?

What are the requirements to achieve our goals and what downsides are inevitable for any solution?

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