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Future Plans for the CLS Storage Ring LLRF

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The Canadian Light Source (CLS) operates a single-cell CESR-B superconducting RF cavity system in the 2.9 GeV storage ring, powered by a 310 kW klystron. After the successful implementation of ALBA's digital low-level radio frequency system (DLLRF) in the dual cavity booster ring at CLS, plans are in place to test the same system in the storage ring RF. The DLLRF also leaves open future possibilities for migrating from klystron to solid state power amplification, as well as adding a second superconducting cavity to the storage ring RF. We will discuss the design of the control system, operational parameters, and comparison to the existing LLRF system.

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