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Upgrade Plan and Status of the ALS Storage Ring RF Control System

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The Advanced Light Source (ALS) at Lawrence Berkeley National Laboratory, a pioneering third-generation light source, has been operational since 1992. The ongoing ALS-U upgrade project aims to significantly enhance the brightness and coherent flux of X-rays with addition of a new Accumulator Ring and a new Storage Ring (SR). While the SR RF system remains unchanged for ALS-U, its control system, primarily consisting of Horner PLCs and EPICS, is undergoing a comprehensive upgrade. This upgrade plan addresses the replacement of the legacy relay-based cavity water system and the end-of-life Horner PLC hardware, and it is being implemented in multiple phases. This presentation will detail the upgrade plan and provide an update on its current status.

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