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Phoebus Alarm Test Environment for ALS-U

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The Advanced Light Source Upgrade project (ALS-U) will utilize a Phoebus-based alarm system for optimal control system operation. To achieve this, a virtualized alarm test environment was configured and deployed. This environment facilitates configuration of a structured alarm system using the Phoebus alarm service, which satisfies the alarm requirements of modern distributed control systems. The significance of this work extends beyond the software functionalities to encompass the systematic configuration and implementation of alarms based on a well-defined alarm philosophy tailored to the ALS-U facility. By proactively establishing a comprehensive alarm test environment, we aim to systematically define the alarm processing procedures and ensure the stable and reliable operation of ALS-U during beam commission through effective alarm system functionality.

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