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PO16 - CLS Operation Visual Aids

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Visual aids play a crucial role in the operation of Canadian Light Source, providing valuable information to scientists, engineers, and operators. Multiple screens represent real time data about the machine's status, its parameters, and diagnostics in an easy to read and understandable form. These visual aids allow operators in particular to monitor and control various aspects of the synchrotron operation, such as beam energy, current, stability, determine the position of the beam, measure its shape and intensity distribution. Available software allows operators to customize screens that display data accounting for personal preferences and visual challenges. Ionizing radiation monitoring systems help ensure safety of the personnel and users working on the experimental floor. Visualization of potential radiation level increases can improve alarm response times. Operational statistics visualization makes it possible to determine trends in equipment reliability by utilizing data analysis and applying measures to improve beam availability. Visualization of maintenance tasks planning and progress tracking allows personnel to have a better understanding of the interferences of the affected systems and the overall systems readiness. Overall, visual aids play a vital role in synchrotron operation, providing essential information and helping in achieving high-quality results.

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