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A Long Term Reliability Challenge at the RHIC

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Long term reliability is critical for any successful particle accelerator operation. The Relativistic Heavy Ion Collider (RHIC) is now faced with a reliability challenge owing to age, continual performance improvements, and even best practice design considerations. This presentation will focus on our experience with the RHIC quench protection diodes; a passive part of the machine protection system. The history and the affect that failed diodes have had on RHIC operations during the recently completed Runs 16 and 17 will be reviewed.

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