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Improvements to the APS LINAC & SR / Booster klystron high-voltage power supplies and accomplishments of the 352MHz RFTS

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Two of the Fiscal Year 2014 Radio Frequency (RF) Group machine operation goals are to maintain mean time between faults at 100 hours or better and maintain injector, storage ring (SR), and x-ray production availability at 97% or better. To continue to meet these goals, an aggressive approach was instigated to combat parts obsolescence and aging of the accelerator systems. The latest improvements to the linac and SR/booster klystron high-voltage power supplies will be highlighted.

The APS 352MHz RF Test Stand (RFTS) was constructed to test and condition booster and SR rf cavity components. The adaptation of a pulsed rf conditioning method was introduced and tested. This methodology and performance of the RFTS will be discussed.

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