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A New Modification for RHIC Abort Kicker System

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Pre-fire problem in the abort kicker system have been last for a long time during the past 17 years of operation in RHIC. In order to limit the number of pre-fire events, a new system is implemented, installed and tested pre start of Run 17. We have installed two new Relay Control Units into the RHIC abort kicker system, one in Blue Ring and one in Yellow Ring. The scheme is included a simple replay connected in series with PFN discharging thyatron. The electronics and modified block diagram will be described in this paper. Both Relay Control Units have been tested in place within blue ring and yellow ring PFN circuit. The PFN test voltage range is from 4kV to 30kV.

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