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Multiplexed Pulsed RF Reference/Cavity Signals at the Spallation Neutron Source

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The Spallation Neutron Source (SNS) low-level RF (LLRF) control system currently utilizes separate channels to process 50 MHz down-converted pulsed Cavity IF and CW Reference IF signals. A new scheme creates pulsed Reference RF signals which are multiplexed with pulsed Cavity RF signals near the front-end and linear accelerator (linac) RF cavity structures. The multiplexed pulsed RF Reference/Cavity signals are transported to each LLRF control system via a coaxial cable and processed in a single channel. Implementation details and initial results are discussed.

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