

The Mechanical Design and Preliminary Testing Results of Beam Position Monitors for the LANSCE Isotope Production Facility and Switchyard Kicker Projects

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Abstract

The Los Alamos Neutron Science Center (LANSCE-1) Beam Diagnostic Team is providing Beam Position Monitors (BPMs) to the LANSCE Facility for use in two on going projects: The Isotope Production Facility (IPF) and The Switchyard Kicker Upgrade (SYK). The BPM designs for both projects are very similar. The BPMs are classic, four, micro-stripline units having one end terminated in a 50 ohm load. This paper will discuss the mechanical design, fabrication, and alignment issues encountered for both sets of BPMs, as well as report the results obtained from the initial taught wire testing of the IPF BPMs.