First Operation of the Upgraded SLAC A Line*,
R. ERICKSON, S. ANDERSON, A. BAKER,
S. DeBARGER, T.K. INMAN, R. IVerson,
H. Smith, M. STANEK, J. TRUHER, SLAC - The
SLAC A-Line has been upgraded to transport electrons
to fixed target experiments in End Station A with
ergies up to 50 GeV. In September through
November, 1995, this beam line was commissioned and
used to deliver 48.36 GeV polarized electrons to
Experiment E-154 at 120 pulses/sec and up to $10^{11}$ e–
pulse. The beam had a full width momentum spread
of less than 0.5 percent, and was focused to a small
spot ($\sigma = 0.7$ mm) at the target. In this paper we
describe the first operational experience with this new
beam line.

* Work supported by Department of Energy
contract DE-AC03-76SF00515.