

Operating Experience at CEBAF*, R. LEGG, CEBAF - CEBAF, the Continuous Electron Beam Accelerator Facility, is a five-pass, recirculating, superconducting rf linac designed to provide exceptional beam quality at 4 GeV up to 200 microamperes CW. It is made up of two linacs and nine arcs having a total beam line length of more than 5 kilometres with over 120,000 control points. On November 5, 1995 CEBAF delivered a 4 GeV, 25 microampere continuous electron beam to the first of three experimental halls and the first experimental physics experiment was started 10 days later. The accelerator availability during the first month of the experimental run exceeded 75%. Beam properties measured in the experimental hall to date are a one sigma momentum spread of $5E-5$ and an un-normalized RMS emittance of 0.2 nanometer-radians, better than the design specification for CEBAF. CW beam has been provided from all five passes at 800 MeV intervals. Outstanding performance of the superconducting linacs suggests a machine energy upgrade to 6 GeV in the near term with eventual machine operation at 8 - 10 GeV. Results from the commissioning and operations experience since the last conference will be presented.

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