Performance of the TLS Storage Ring rf System.

W.K. LAU, L.H. CHANG, S.S. CHANG, Y.I. CHANG, K.R. CHU*, S.J. LIN, T.T. YANG, SRRC - The TLS storage ring rf system consists of two cavities driven by two separate 60 kW rf transmitters and controlled by two separate low level rf systems is described. It provides a total gap voltage of 800 kV at 200 mA beam current. The system has been operating for more than 10,000 hours since its first operation in March 1993. The performance of the system is reported. For 1.5 GeV and 300 mA operation, an rf system upgrade plan includes adding one more cavity to increase energy acceptance and phase lock loops to control beam loading is discussed.

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