Vacuum Beam Losses in the Axial Injection Systems of the FLNR Heavy Ion Cyclotrons, M.N. EL-SHAZLY, G.G. GULBEKIAN, A.I. IVANENKO, M.V. KHABAROV, JINR - A simulation program was carried out to calculate the pressure distribution and the beam loss due to the charge exchange cross section in order to optimize the vacuum system parameters of the heavy ion transmission lines. A series of measurements was set up to evaluate the beam loss in the axial injection systems of the FLNR cyclotrons. The pressure measurements were compared with the program.