Beam Loss due to the Charge Exchange with the Residual Gas in the FLNR Heavy Ion Cyclotrons, M.N. EL-SHAZLY, B.N. GIKAL, G.G. GULBEKIAN, A.V. TIKHOMIROV, JINR - A simulation program was developed to calculate the pressure distribution and the beam loss due to the charge exchange cross section in the FLNR heavy ion cyclotrons. A series of measurements was carried out to evaluate the beam loss. These measurements and the pressure distributions were compared with the program.