

A Control System for BEPC Storage Ring Injection Supplies, Q.S. LU, H. ZHANG, R.Y. ZHANG - This is a computer control system which will be put into operation for BEPC ring injection power supply control in the next working session. The i302 industrial control computer with iRMX for windows, a real time, multi task, operating system in the PC which acts as a gateway in the system, routes up to the existent DECNET network and drives down to the BITBUS distributed network with six nodes. The friendly graphic interactive human-machine interface makes it possible that the whole system can properly do the autonomic work and administrate the BITBUS network completely, which also can be controlled at the central x-window of the central control room through i302. The control system has been tested in the experiment area under the condition of the out of the DECNET. Next, it will be examined in the working field. The one of the host on the DECNET is VAX-4500, the DEC TCP/IP service for VMS has installed in it. The communication process is programming.