

5 - 26 Progress of Control Group in 2014

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Accelerator control system (ACS) is the brain and nerves of accelerator. The main task of the accelerator control system development is system integration. In order to ensure the normal operation of HIRFL-CSR and improvement in 2014, we carried out the following works.

1. In 2014 summer, we updated the control system of CSRm high voltage power supply. We used the AT128 controller instead of gateway +1210 controllers to solve the problem of frequent crashes. The software structure is shown in Fig. 1.



Fig. 1 (color online) The software structure.



Fig. 2 (color online) User interface of control system.

2. A control system was built for the new 320 kV HV Platform on the 6th terminal. The user interface of control system is shown in Fig. 2.
3. The establishment of HIRFL control network monitoring platform. We have finished the switch monitoring system using asp.net and flash technology. The monitor system displays the network topology and the online/offline state of all switches. The link monitoring diagram is shown in Fig. 3.

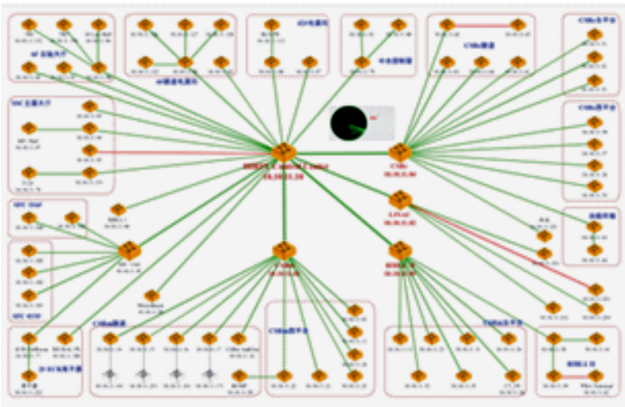


Fig. 3 (color online) Link monitoring diagram.

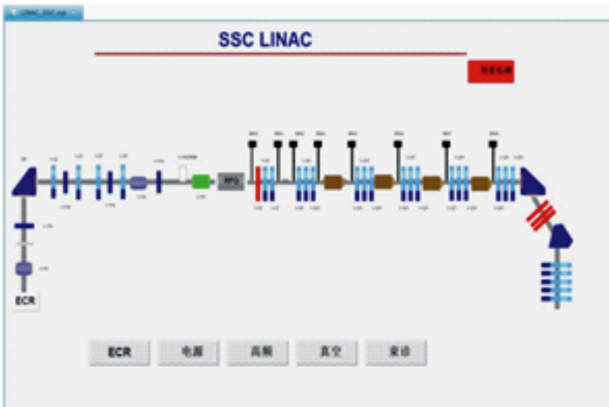


Fig. 4 (color online) User interface of SSC-LINAC control system.

4. The SSC-LINAC control system has been building and testing. We completed site development, deployment, commissioning work on EPICS system and ensure that the ion source, LEPT work. The user interface of SSC-LINAC control system is shown in Fig. 4.