

THE PRESENT STATUS OF THE NAC CONTROL SYSTEM

Pj Theron, National Accelerator Centre; M. Hogan, National Accelerator Centre; Ih Kohler, National Accelerator Centre; Hj Krijt, National Accelerator Centre; K. Prince, National Accelerator Centre; L. Schulein, National Accelerator Centre; J. Van Der Merwe, National Accelerator Centre; J. Van Niekerk, National Accelerator Centre

The control system used for the 200 MeV and two injector cyclotron facilities at NAC, is a PC based distributed control system that has been in operation since 1990. The system currently consists of 45 PC's grouped into functions of operator consoles, instrumentation nodes and database servers, communicating over an Ethernet LAN. The PC's run OS/2, Windows NT and DOS operating systems, and use NETBIOS and TCP/IP to communicate over the network. To keep up with the short life cycles of PC hardware and software technologies, an upgrade and integration strategy was designed. This paper briefly looks at the control system design, the strategy followed for upgrading hardware and the integration of new software technologies into the existing environment.