PC BASED ALARM ANNUNCIATOR SYSTEM

T. Samanta, Variable Energy Cyclotron Centre

At present, Panel-based alarm annunciator system for the existing 130Mev AVF cyclotron of our centre is used to draw the attention to the operator only for the 64 nos. of top level alarms. The lower level faults which caused the top level alarm can not be seen from it's control panel. Moreover, huge amount of maintenance cost and manpower is involved in keeping the system alive. To alleviate these problems, one PC-Based alarm annunciator system has been developed using C++ [1] under WIN-NT. A PC plug-in card from DMS[2]is used for the IO interface. The 64 top level alarms are displayed on the screen using buttons with pre-defined names and different colors are used to indicate the system's status ; e.g. RED for fault, GREEN for O.K. and BLINKING with AUDIO is for alarms. Lower level alarms can be displayed with a mouse click on the top level alarm. The system keeps records of different parameters with time stamp in a database. The facility has also been added to access the database over a LAN, to get the status of the alarms at any time through a www browser. The system is tested satisfactorily and it will be connected with the main system shortly.

[1] Visual C++/MFC ver 5.0 under WIN-NT4.0[2] Dynalog Micro Systems, model PCL-221