Contribution ID: **16**   Type: **Poster**

Implementation of EPICS based Control System for RFT-30 Cyclotron

Thursday, November 14, 2024 1:00 PM (1h 30m)

An RFT-30 cyclotron is a 30 MeV proton accelerator for radioisotope(RI) production and fundamental research. In this work, we have implemented the Experimental Physics and Industrial Control System(EPICS) based control system for the RFT-30 cyclotron. We have replated the old relay based manual control system with new PLC based automated control system.

The EPICS IOC(Input Output Controller) server for PLC is constructed with s7nodave, which is a device support based on ASYN and communicates with the PLCs. A client program is made of control system studio(CSS). The proposed EPICS control system can enhance the performance of the cyclotron system and then provides the human operator with easy and stable operation for the RFT-30 cyclotron.

Paper submission Plan

Best Presentation

Contribution track

ICABU WG1. Accelerator Systems

Primary author: KONG, YOUNG BAE (KAERI)

Co-authors: Dr LEE, Jong Chul (KAERI); Mr JU, Jin Sik (KAERI); Dr HUR, Min Goo (KAERI); Dr PARK, Jeong Hoon (KAERI)

Presenter: KONG, YOUNG BAE (KAERI)

Session Classification: ICABU Poster Session

Track Classification: ICABU: ICABU WG1. Accelerator Systems