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C1Po1F-07: Control system based on EPICS for cryogenic distribution system of RAON SCL3

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There is a Rare isotope Accelerator complex for ON–line experiments (RAON), which is a heavy ion superconducting linear accelerator, in South Korea. The RAON Control System uses Experimental Physics and Industrial Control System (EPICS), that is known as distributed soft real-time control systems for scientific instruments. The cryogenic system is comprised of many devices and actuators from different manufacturers and all them installed accelerator area where a radiation controlled area, it is difficult for engineer to access to the area due to the distance restrictions and radiation. We have developed a control system for cryogenic distribution system which is based on EPICS, remotely check the status of actuators and control them at the same time by using CS-Studio. This paper describes the Control system for cryogenic distribution system, and shows the loop test result.

Author: Ms PARK, Mijeong (Institute for Basic Science)

Co-authors: Dr KIM, Seojeong (Institute for Basic Science); Mr CHOI, Yong Jun (Institute for Basic Science); Mr KIM, Yonghak (Institute for Basic Science); Mr SON, Changwook (Institute for Basic Science); Dr LEE, Sang-Gil (Institute for Basic Science); Dr PARK, Heechul (Institute for Basic Science); Mr KIM, Moosang (Institute for Basic Science)

Presenter: Ms PARK, Mijeong (Institute for Basic Science)

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