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PO17 - Operational tool for management of electromagnet power supplies at RIBF

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“At RIKEN RIBF, a large number of electromagnet power supplies are implemented. In the control system, these electromagnet power supplies are managed in a database on a per-experimental-beamline basis, and programs are created based on this database. However, during operation, it took much work to determine the location of the controlled power supplies and what was used for the control controller. For example, when there was a malfunction in an electromagnet power supply during operation, it sometimes took time for the accelerator operator to go to the site for confirmation. Therefore, we decided to create a web application based on the database, which was previously only used for program creation, to solve these problems.

In practice, a list of electromagnet power supplies is output in the order of the experimental beamlines, allowing easy identification of which electromagnet power supplies are connected to which electromagnets. Additionally, it became possible to incorporate photos, drawings, and features of the power supplies into the web application without HTML coding, thus supporting the management of electromagnet power supplies. These systems will be reported in meetings to provide detailed information.”

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Session Classification: Poster / Demo Sessions