Technical Meeting on Management Strategies for Accelerator Facilities

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Lessons from the Proton Engineering Frontier Project

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We had recently completed the Proton Engineering Frontier Project (PEFP) and established the Korea Multipurpose Accelerator Complex (KOMAC) in 2012. Launched in 2002 as a 21st Century Frontier R&D Program of Korea government, the primary goal of the PEFP was to develop a high-intensity 100-MeV, 20-mA proton linear accelerator in order to be utilize proton beams in scientific, medical, and industrial R&D. Second and third goals of the project were to foster proton beam user community in various fields and to explore industrial applications of accelerator technology, respectively. Upon completion of the PEFP, the KOMAC, as a satellite laboratory of Korea Atomic Energy Research Institute (KAERI), started operations of the 100-MeV proton accelerator and several ion implanters in 2013.

In this presentation, we review the PEFP, from its planning stage to completion, focusing lessons from the management to complete the three major missions of the project with limited resources. Unexpected issues and their influences are to be noted for references for the on-going or future big-science project. (This work was supported by the Ministry of Science, ICT and Future Planning of Korea.)

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