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Operation Status and Upgrade Plan of the KOMAC Proton Irradiation Facility

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. At KOMAC (Korea Multi-purpose Accelerator Complex), a 100-MeV proton linac has been started to operate since 2013. Nowadays, the constructions of the total six beamlines are completed. Among them, 20 MeV or 100 MeV proton beam has been provided to various users through the three proton beam irradiation facilities. The proton beam irradiation facilities could provide the pulsed proton beam and the available proton energy range is from 20 MeV to 100 MeV. And also, could provide the various beam spot size according to user's demand. The proton irradiation is performed in the air, therefore, the intensity and profile and position of provided proton beam should be measured in the air. To assure the beam quality, we have been constructed own QA procedure and has been acquired the ISO9001:2015 at 2015.

In this paper, we will introduce the operation status of the proton beam irradiation facility at KOMA, and the details on the beam diagnostics tool in these facilities will be given. In addition to, the future upgrade plan for the improved beam quality will be discussed.

Primary authors: YUN, Sang-Pil (Korea Atomic Energy Institute); Dr SONG, Young-Gi (KOMAC / Korea Atomic Energy Research Institute); Dr KIM, Yu-Mi (KOMAC, Korea Atomic Energy Research Institute); Dr DANG, Jeong-Jeung (KOMAC, Korea Atomic Energy Research Institute); Dr LEE, Pil-Soo (KOMAC, Korea Atomic Energy Research Institute); Dr KIM, Han-sung (KOMAC, Korea Atomic Energy Research Institute); Dr KWON, Hyeok-Jung (KOMAC, Korea Atomic Energy Research Institute)

Presenter: YUN, Sang-Pil (Korea Atomic Energy Institute)

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