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Upgrade plan of the 3 MeV RFQ at KOMAC

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A 350 MHz, 3 MeV radio frequency quadrupole (RFQ) has been operating since 2005 at Korea Multi-purpose Accelerator Complex (KOMAC) as a low energy part of the 100 MeV proton linac. Recently, it was considered to upgrade the existing RFQ because of its low beam transmission rate and vane erosion. Several options were compared to upgrade the RFQ considering a number of sections, coupling plate and shaper energy. In this paper, the status of the existing RFQ was summarized and an upgrade plan is discussed.

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