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Status of 84 GHz Transmission Line System of KSTAR ECH System

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The 84-GHz, 500-kW electron cyclotron heating (ECH) system has been developed and installed for the KSTAR tokamak at National Fusion Research Center (NFRC). The 84-GHz millimeter wave is transmitted from the gyrotron to the launcher through 31.75 mm-ID circular corrugated waveguide with propagation mode of the HE11 mode. In this paper, we present the status of the KSTAR 84 GHz ECH transmission line system, the alignment method during the assembly of the waveguide components, and the evacuated system.