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The operation experience of TLS&TPS RF transmitter and the development solid-state amplifier in NSRRC

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At present, two synchrotron radiation facilities – Taiwan Light Source (TLS) & Taiwan Photon Source (TPS) are in operation simultaneously in NSRRC. Both RF systems of these facilities use superconducting cavities as electron accelerating components in storage ring. The RF power for the cavity and electron beam is provided by klystrons with high voltage (HV) power supplies. For TLS, the klystron is supplied by a crowbar type HV power supply, while in TPS, the klystron is supplied by a PSM crowbar-less HV supply unit. The operation experience in daily operation and commission will be presented. Besides, to satisfy the coming RF requirement in Phase-II beam-line construction in TPS, solid-state amplifier is also developed in NSRRC. The latest progress will also be described here.

Summary

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