



Contribution ID: 1335 Contribution code: WEPM021

Type: **Poster Presentation**

The record of RF transmitter power supply module maintenance in NSRRC

Wednesday, 10 May 2023 16:30 (2 hours)

The RF group constructed a second radio frequency (RF) system for the Taiwan Photon Source (TPS) RF system. This RF system employs a high-power RF transmitter to deliver RF energy to the cavity. The RF transmitter is composed of multiple power supply modules (PSMs) that are installed in series. PSMs are critical and fragile components of the RF transmitter.

This article presents the maintenance history of PSMs from 2011 to 2022 and provides guidance on how to troubleshoot and diagnose fault problems. Furthermore, this article proposes an improvement strategy for preventing any failure events.

Funding Agency

Footnotes

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Session Classification: Wednesday Poster Session

Track Classification: MC7: Accelerator Technology and Sustainability; MC7.T08: RF Power Sources