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2856-MHz, 45-MW Radio-Frequency Test Stand Power System

A 2856-MHz, 45-MW pulsed klystron and associated modulator system is utilized to test and condition radio-frequency (rf) system components such as waveguide rf windows, rf loads, miscellaneous waveguide components, and SLED assemblies. The system is also used as a test bed for pulsed klystrons. The test system includes a dedicated interlock system, and can produce continuous pulsed rf power at 2856 MHz at a maximum pulse width of 5 μ sec and a maximum repetition rate of 60 Hz.

Examples of use:

- Conditioning WR284 and WR340 waveguide windows
- Testing rf loads
- Testing and conditioning WR284 and WR340 waveguide switches
- SLED testing and conditioning
- PC gun testing
- Klystron testing



45-MW linac klystron and modulator