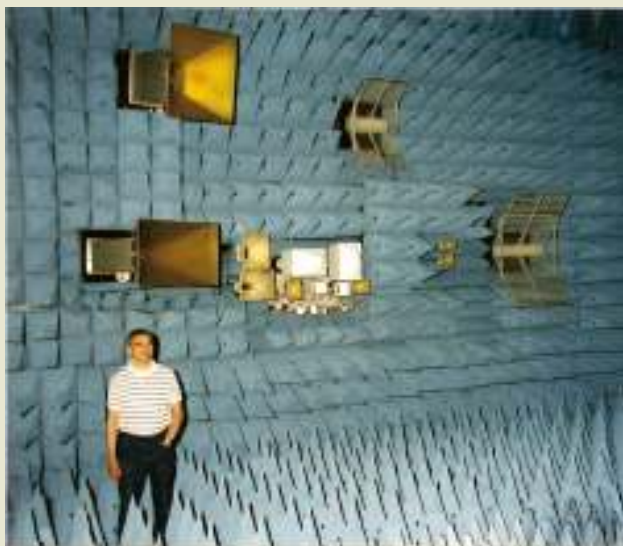




High Power RF Susceptibility Systems

H6 Systems Inc. manufactures high power tube based RF transmitters used in the susceptibility testing of military aircraft and ordinance.

In business since 1980, the company builds high power transmitters and pulsed power RF amplifiers based on magnetrons, klystrons, tetrodes and triodes with frequencies ranging from 150 MHz to 35 GHz and power outputs up to 7.5 megawatts.



How It's Done

We integrate vacuum tubes with customized control systems, software, fault monitors, modulators, enclosures, cooling systems, antennas and antenna positioners to provide turnkey systems that meet our customer's testing requirements.

Magnetrons

Triode

TWT

Tetrode

Klystron



Some of our Delivered Systems

Description	Frequency	Power
A/B/C Band Cavity Amplifier Three tunable tetrode cavities. Frequencies from 200 – 960 MHz.	960 MHz	325 KW
CREMES <u>Compact Radiating electromagnetic Source.</u> This system accepts swappable, 1 megawatt magnetrons. The system breaks down for air shipping. Frequencies from 1.53 GHz To 5.75 GHz.	5750 MHz	1000 KW
D Band Cavity Amplifier A triode based amplifier and part of the Mini-MUTES system. 2 stages of Amplification, 5 cavities. Frequencies from 1.25 – 1.35 MHz.	1300 MHz	64 KW
REES <u>Radar Environment Emulator System</u> 10 magnetrons and one oscillator built into a single turnkey system. Frequencies from .75 - 35 GHz.	3500 MHz	2000 KW
EHPAS <u>Extremely High Power Amplifier System</u> 4 klystrons built into a single turnkey system. Frequencies from 1.25 – 5.9 GHz.	5900 MHz	7500 KW
H6T-140 A traveling wave tube built into a turnkey system. Instantaneous bandwidth from 3.0 – 3.3 GHz.	3.3 GHz	140 KW
NBHPMS (short pulse) <u>Narrow Band High Power Microwave Source.</u> 35nS wide pulses from 4 magnetrons, 1 control system. Frequencies from 2.0 – 9.8 GHz.	2 GHz	1000 KW (35nS)