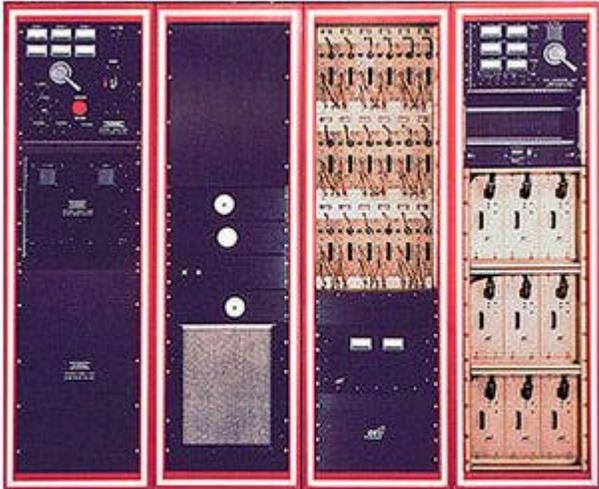




## **CUSTOM SCIENTIFIC PRODUCTS**



**55-Kilowatt Single Tube Tetrode RF Amplifier  
designed and built for Duke University FEL**

QEI Corporation can meet the needs of your custom system design. QEI is well equipped to fulfill any system requirement in a timely and cost effective manner. Our manufacturing and fabricating abilities allow us to meet production goals without the costly use of outside contractors. QEI personnel accomplish all manufacturing in the QEI factory. QEI has designed equipment to meet the demanding needs of the broadcast industry for 30 years. The broadcast industry requires equipment that is extremely reliable, cost effective, and easy to maintain. Broadcast Transmitters are designed to operate 24/7 for many (20+) years. QEI approaches all projects with these goals as paramount. Specializing in RF Amplifiers utilizing solid state, power grid tubes, and other electron beam devices, QEI is ready to discuss your specific needs.

QEI has supplied solid-state and vacuum tube RF amplifiers to a number of national research laboratories in the past twelve years. These projects include the following:

- 50 kilowatt long pulse, 90 mHz, air cooled triode amplifier for BNL (AGS)
- 65 kilowatt CW, 211 mHz, water cooled tetrode amplifier for BNL (NSLS).
- 55 kilowatt CW, 176 mHz, water cooled tetrode amplifier for Duke (FEL).
- 4 kilowatt CW, 52 mHz, air cooled solid state amplifier for BNL (NSLS).
- 4 kilowatt CW, 52 mHz, water cooled solid state amplifier for BNL (NSLS).
- 12 each 3.5 kilowatt CW, 196 mHz, water cooled solid state amplifier for BNL (RHIC).
- 6 each 20 kilowatt long pulse, 402 mHz, air cooled tetrode amplifier for LBL (SNS)
- 2 each 80 kilowatt long pulse, 2 mHz, air cooled tetrode amplifier for LBL (SNS).
- 8 kilowatt CW, 211 mHz, water cooled solid state amplifier for BNL (NSLS)
- 2 kilowatt CW, 200 mHz, air cooled solid state amplifier for Cornell University.
- 20 kilowatt CW, 27 mHz, air cooled solid state, mobile generator for KAI Technologies.

# Custom Scientific Products

Years of field proven experience in custom design will assure you of the best possible product, with the most effective interface and monitoring system.

QEI is always available to discuss your present and future needs. Please contact us so that we may quote on your project.

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**20 KW, 27 mHz, Solid-State Trailer Mounted (Mobile) Generator designed and built for KAI Technologies**



**80 KW, 2 mHz, RF Amplifier designed and built for LBL (SNS)**



**8 KW, 211 mHz RF Amplifier designed and built for BNL (NSLS)**



**20 KW, 402 mHz, RF Amplifier designed and built for LBL (SNS)**