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RESEARCH

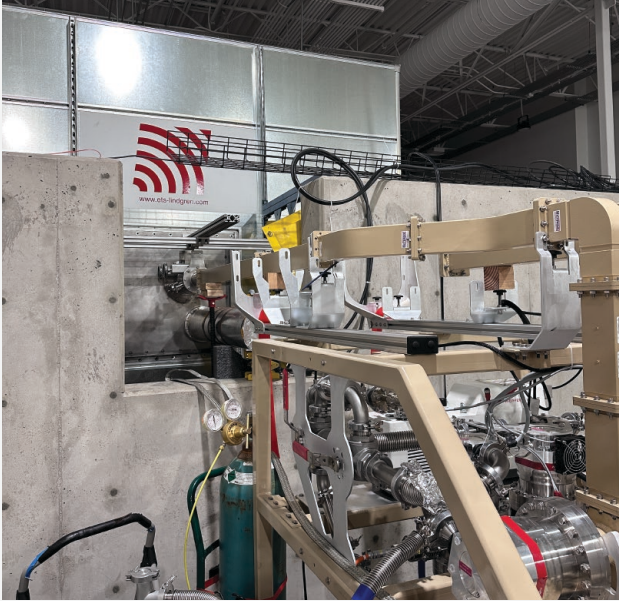
RAD-C

Radiation Crypt

RADIATION SHIELDED ENCLOSURE FOR TESTING OF HPM SYSTEMS



CREATING SOLUTIONS THAT MATTER



RAD-C

Radiation Crypt

RADIATION SHIELDED ENCLOSURE FOR TESTING OF HPM SYSTEMS

KEY FEATURES

- Poured concrete shielding eliminating line of sight cracks
- Easily removable 1.25" sliding lead door allows easy egress
- Entry allows forklift access
- Wide enough for multiple HPM system testing
- Fully integrated interlock system and personnel dosimetry
- Adjacent anechoic chamber penetration allows for free-field testing through the system antenna
- Certified by the State of New Mexico

SYSTEM USE CASES

- Testing a variety of HPM systems that produce x-rays
- Pressure testing vessels
- High energy laser testing
- High voltage/ high energy testing with no emission

CONTACT INFORMATION

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Rad-C is a concrete structure that protects personnel and equipment from ionizing radiation (x-rays) produced by systems operated within its walls. Specifically designed to test high power microwave (HPM) systems, it is adjacent to an anechoic chamber which allows full system operation through the output antenna.

KEY PERFORMANCE SPECIFICATIONS

SPECIFICATIONS	VALUE
Total size	25 ft L x 19 ft W x 8 ft H
Interior working space	20 ft L x 17 ft W x 8 ft H
Concrete wall shielding	1-ft thick
Nominal max beam voltage *	500 kV
Nominal max beam current *	5 kA
Nominal pulse duration *	200 ns

* Variations outside these parameters are possible with analysis and approval

