

# MEDNOVUS™

## SAFESCAN® MRI SENTINEL™ GS PORTALS

### MISCONCEPTION

A misconception is that our SAFESCAN® GS portals “emit electromagnetic radiation to detect objects.” This is absolutely FALSE. The SAFESCAN® GS portals emit no electromagnetic radiation!

(1) A radiated electromagnetic field is a propagating wave. It has at least three characteristics that are totally absent from the GS portals:

(a) Both E (electric) and B (magnetic) field components. The GS portal's field is a purely static non-moving magnetic field, lacking an electric component.

(b) An oscillation of the E and B fields to support the propagating wave. The E field is absent, and the B field is static (non-oscillating).

(c) A "far-field" radiating wave whose amplitude decays with distance from the source as  $1/r$ -squared. The portal's field, which is static, decays as  $1/r$ -cubed. At 2 feet from the portal, the field is approximately 4-5 G.

(2) The GS portal's field is a non-radiating DC field, as is the earth's field, the field of a refrigerator magnet, or the hand-held magnet sometimes used for screening patients prior to MRI. These are all passive, non-radiating magnetic fields.

(3) Producing electromagnetic radiation requires active electrical transmission apparatus, which is totally absent from the SAFESCAN® GS portals.