GE LightSpeed VCT 64 Site Guide Summary

Room Layout & Dimensions

- Minimum Room Size: 20 ft (L) x 11.5 ft (W) x 7 ft (H)

- Gantry Aperture: 70 cm

- Table Weight Capacity: 500 lbs

- Operator Console Room: Adjacent, shielded, approx. 8 ft x 10 ft recommended

Power Requirements

- Main Power: 400-480 VAC, 3-phase, 50/60 Hz

- Power Consumption: Approx. 100 kVA (with full system running)

- Dedicated Power Panel: Required, with appropriate grounding

- Isolation Transformer: Often recommended

- Uninterruptible Power Supply (UPS): Strongly suggested for the console and image storage components

- Surge Protection: Required to prevent damage to electronics

Environmental Requirements

- Room Temperature: 68-75°F (20-24°C)

- Humidity: 30%–70% non-condensing

- Ventilation: Minimum 6 air changes per hour recommended

- Heat Output:

- Gantry: Up to 22,000 BTU/hr

- Console Room: Up to 5,000 BTU/hr

- Air Conditioning: Must support total heat load (approx. 27,000 BTU/hr total)

- Dust Control: Clean, filtered environment to protect sensitive electronics

Safety & Shielding

- Radiation Shielding: Required per state/local regulations (typically 1/16" lead equivalent)
- Door Interlock System: Often required
- Warning Lights: Installed outside scan room
- Emergency Power-Off (EPO): Installed near gantry and control room