



TESORO CORPORATION

A Tetra Tech Company

GAMMA KNIFE VAULT

Riverside Regional Medical Center, Newport News, Virginia

PROJECT CATEGORY:
Healthcare Facilities

CLIENT:
Riverside Regional Medical
Center

ARCHITECT:
Paul Finch and Associates
Norfolk, Virginia

PROJECT DELIVERY:
Design-Bid-Build

CONTRACT AMOUNT:
\$1.2 Million

COMPLETION DATE:
March 2007



Tesoro constructed a start-of-the-art, cobalt-source radio-surgery unit for the non-invasive treatment of tumors and cancer of the brain. This project entailed the complete retrofit of an existing concrete linear accelerator vault to receive Gamma Knife technology at Riverside Regional Medical Center, Newport News Virginia. This is only the third such installation in the state of Virginia.

Due to the significant weight and extremely low vibration tolerance of the Gamma Knife equipment, the vault required substantial structural upgrades. The existing structural concrete floor was removed and additional helical piling was installed to a depth of 35 feet. New pile caps and a new structural floor were then constructed.

The project also included cutting an exterior access through the 5-foot thick walls into the vault and installation of led-shielded doors. The access not only accommodated installation of the equipment, but also will permit future refueling of the cobalt source.

Significant upgrades to the vault security system were made as required by the Nuclear Regulatory Commission to safeguard the cobalt source, which is an alternative use radioactive material. All work was accomplished in an occupied space with functioning linear accelerators in adjacent vaults on both sides of the Gamma Knife project vault. Tesoro Corporation was hand picked by the owner for this work due to proven capability and past performance on high technology hospital projects in occupied spaces.

Integrity

Responsiveness

Experience

Professionalism

VISIT US AT WWW.TESOROCORP.COM

CORPORATE OFFICE
5250 Challedon Drive
Virginia Beach, VA 23462
Phone: (757) 518-8491
Fax: (757) 518-8589

NORTH CAROLINA
5458 Highway 70 West, Suite G
Morehead City, NC 28557
Phone: (252) 726-2532
Fax: (252) 726-3239

SOUTH CAROLINA
1937 Clements Ferry Road, Suite E
Charleston, SC 29492
Phone: (843) 216-2616
Fax: (843) 216-2628