

Contact: Andrea Anania

UNIVERSITY OF IOWA EQUIPMENT PURCHASE

Action Requested: Consider approval for the University of Iowa to purchase a Siemens Medical Solutions USA Incorporated Somatom FORCE CT Imaging System for \$2,783,600.

Executive Summary: Equipment purchases at the Regent institutions costing more than \$1 million are required by Board policy to be approved by the Board of Regents.

DESCRIPTION OF THE EQUIPMENT

X-ray computed tomography is a technology that uses computer-processed x-rays to produce tomographic images (virtual slices) of specific areas of the scanned body part, allowing the user to see what is inside it without cutting it open. Digital geometry processing is used to generate a three-dimensional image of the inside of an object from a large series of two-dimensional radiographic images taken around a single axis of rotation.

JUSTIFICATION OF THE NEED FOR THE EQUIPMENT

The University reports that:

- ▶ The Siemens FORCE CT Imaging System is requested by the University of Iowa Hospitals and Clinics (UIHC) Department of Radiology to replace a Siemens Sensation 16 slice CT that has been in use for over 11 years and is past its technological end of life. The useful life of a 16 slice CT is 7-8 years;
- ▶ If the equipment is not replaced, physicians and patients will not receive the benefits available through technical and clinical diagnostic improvements and continuing to use the existing equipment will result in increased repair costs;
- ▶ The requested FORCE CT Imaging System will be utilized to perform advanced state of the art CT imaging exams that far exceed those capabilities available on the CT being replaced. Among these are the ability to perform advanced cardiac imaging exams, greatly improved neurological imaging, and dual energy orthopedic exams;
- ▶ The advanced capabilities of this next generation CT will increase overall quality of care and patient satisfaction resulting in improved image quality, advanced diagnostic capabilities in multiple anatomical regions, decreased patient radiation dose exposure, elimination of sedation in some cases, shorter exam times, and decreased need for patient contrast; and
- ▶ The installation of a new state-of-the-art CT system will position the University of Iowa to meet the continuing growth in requests for clinical CT imaging studies, as well as enhance ability to serve patients within the region.

ANY KNOWN ALTERNATIVES TO THE EQUIPMENT PROPOSED

The equipment pricing is based on the Strategic Alliance Purchasing Agreement between Siemens Medical Solutions USA, Inc. and the University of Iowa. This agreement was executed after a competitive bidding process involving eight vendors. When the initial strategic alliance agreement reached the end of its term, it was extended to 2018.

The price of the Siemens FORCE CT Imaging System represents an approximate 37% savings off list prices. University of Iowa Hospitals and Clinics has standardized on Siemens equipment due to the advantages gained in equipment pricing, maintenance, and training.

ESTIMATED COST AND SOURCE OF FUNDING

The cost for the Siemens FORCE CT Imaging System is \$2,783,600. The source of funding is UIHC capital equipment acquisition funds.

Board Policy: Chapter 7.06B(12) of the Regents Policy Manual requires that:

- ▶ Equipment costing more than \$1,000,000 must be submitted to the Board for approval; and
 - ▶ Requests submitted to the Board Office for approval must include the following information:
 - ◆ Description of the equipment;
 - ◆ Justification of the need for the equipment;
 - ◆ Any known alternatives to the equipment proposed; and
 - ◆ Estimated cost and source of funding.
-