

Contact: Patrice Sayre

UNIVERSITY OF IOWA
EQUIPMENT PURCHASES

Action Requested: Consider approval of the following equipment purchases:

- ♦ Mobile Polarimetric Scanning Weather X-Band Radar System - \$1,260,200; and
- ♦ Parenteral Infusion Devices, Server, and Software - \$4,431,000.

Executive Summary: The University of Iowa requests approval to proceed with the purchase of four Mobile Polarimetric Scanning Weather X-Band Radars from ProSensing and Parenteral Infusion Devices, Server, and Software from Cardinal Health Alaris Products.

MOBILE POLARIMETRIC SCANNING WEATHER X-BAND RADAR SYSTEM

Description of Equipment

Four (4) Mobile Polarimetric Scanning Weather X-Band Radars.

Justification of Need for Equipment

The purchase of the radar systems for the Iowa Institute of Hydraulic Research--Hydroscience and Engineering is an approved equipment purchase under the National Science Foundation (NSF) Project "Magnetic Resonance Imaging (MRI): Acquisition of Mobile Facility for Providing High-Resolution Input to Hydrologic Observatories" Award No: 0723145. The network of radars will provide quantitative information on rainfall amounts that will facilitate forecasting and feed into severe weather warning systems.

Any Known Alternatives to the Equipment Proposed

Sole Source vendor: ProSensing specializes in building highly customizable systems and has agreed to share their software source code. Other companies do not share their software source code. Access to the software source code will allow researchers to modify the signal processor on the radar systems in research environments as needs arise. ProSensing was identified in the NSF proposal as the vendor to provide the radar systems. NSF has approved ProSensing as the vendor for the instrument acquisition for this award.

Estimated Cost and Source of Funding

The cost for the radar system equipment is \$1,260,200 and the source of funding is a federal award from the NSF.

PARENTERAL INFUSION DEVICES, SERVER AND SOFTWARE

Description of Equipment

Parenteral Infusion Processing Control Unit (PCU) devices, server, and software.

Justification of Need for Equipment

This equipment purchase is a critical part of a hospital-wide safety and quality initiative to standardize infusion devices and implement "smart pump" technology. The purchase of devices, server, and software for the University of Iowa Hospitals and Clinics (UIHC) Nursing Services department will improve efficiency and safety through standardization and greatly enhance the capabilities and safety of intravenous (IV) medication delivery. The Parenteral Infusion PCU devices will replace existing devices purchased from 1993 to 2005, which are beyond their useful life and are experiencing significant functional problems and repairs. The older devices do not possess the technologies (e.g., drug library, bar coding, wireless communication, connectivity to pharmacy and clinical information systems, quality data reports) that are critical today for an effective IV medication delivery system and ultimately for patient

safety. The new devices include these technologies, enabling the pumps to interact with the hospital medication point-of-care and clinical documentation systems.

Any Known Alternatives to the Equipment Proposed

Requests for Proposals were solicited for the infusion devices, server and software. Eight suppliers were contacted and five responses were received. Cardinal Health Alaris Products submitted the proposal which was determined by the Evaluation Committee to have the most comprehensive clinical features and best value. Standardizing on Alaris devices and systems will enable the UIHC to realize economies of scale in training, maintenance and acquisition of replacement parts.

Estimated Cost and Source of Funding

The cost for the parenteral infusion device is \$4,431,000 and the source of funding is UIHC capital equipment funds.

Board Policy:

Chapter 7.05B(12) of the Regent 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.