

# **PROPOSAL FOR AN AUTOMATED EXTERNAL DEFIBRILLATOR (AED) IN L. J. SMITH HALL**

## **DETAILS OF THE AED UNIT**

**Reasons for the Need:** The acquisition of Automatic External Defibrillators (AEDs) by University departments is currently voluntary and, while not required, is recommended for all WSU units for placement in the workplace. AED units have long been proven to aid in survival by those suffering from a heart attack or heart stoppage due to accident or injury.

Early defibrillation with an on-site AED can be the difference between life and death. The time to the first defibrillation shock is the most critical factor in determining survival rates for sudden cardiac arrest (SCA). The best results for defibrillation occur in the first three minutes, measured from the moment the victim collapses to when the defibrillation shock is delivered. Depending on circumstances, it can take several minutes for Emergency Medical Services (EMS) to arrive. Having an AED readily accessible wherever University personnel are located makes good preventive sense.

**Type and Quantity of AEDs:** The AED model that is advised for use on the WSU campus is the *Medtronic Physio-Control Biphasic LifePak 500* because it is compatible with more advanced defibrillators used by the Pullman Fire Department and Pullman Emergency Medical Services. Fire Marshall Rod Holmes recommends buying a refurbished unit (which reduces the cost to about 50% of the cost of a new unit), but added to make sure that the unit comes with a warranty. This unit would also include a 5-year non-rechargeable battery (1-yr warranty). There is need for only one AED unit in L. J. Smith Hall because, if it is centrally-located, a person would be able to leave a victim located anywhere in the building, get the AED unit, and return to the victim in 1 minute or less.

## **EXPENSES**

### **Quotes on Refurbished Medtronic Physio-Control Biphasic LifePak 500 AED:**

- 1) [www.lifelinemed.com](http://www.lifelinemed.com), \$1,203.95 incl. shipping, 2 year warranty on parts and service with loaner program.
- 2) [www.dixiemed.com](http://www.dixiemed.com), \$1,145.00 incl. shipping, 2 year warranty on parts and service with loaner program.
- 3) [www.dremed.com](http://www.dremed.com), \$1,675.00 not incl. shipping, 2 year warranty on parts and service, no loaner program.

### **Quotes on Standard Size Surface-Mounted AED Wall Cabinet:**

- 1) [www.aedsuperstore.com](http://www.aedsuperstore.com), \$239.00 incl. shipping with strobe light and alarm.
- 2) [www.nkhaed.com](http://www.nkhaed.com), \$229.00 incl. shipping with strobe light and alarm.
- 3) [www.newhousemedical.com](http://www.newhousemedical.com), \$249.00 incl. shipping with strobe light and alarm.

**Estimate on installation of AED Cabinet by WSU Facilities:** \$100.

**Total Initial Estimate Range:** From \$1,474.00 to \$2,024.00

### **Estimate of maintenance costs:**

- Replace battery every 3 years at \$243
- Replace 1 pair of electrode pads every 2 years at \$42

### **SUPPORTING DETAILS**

- ✓ If this proposal is approved by the Biological Systems Engineering Department, the site information and user disclaimer forms contained in a new WSU Public Access Defibrillation protocol need to be filled out by the Biological Systems Engineering Department. The completed forms shall be given to Fire Marshall Rod Holmes, who will review the information and, if approved, request Dr. Dennis Garcia to review the information and, if all is correct, provide this department with a prescription for the AED unit. The Pullman Fire Department will also make an initial assessment of proper location and placement of the proposed AED cabinet. After these requirements are completed, an AED unit can then be purchased.
- ✓ After speaking with John Anderson, Administrative Manager for the Biological Systems Engineering Department, he suggested that the most appropriate location for the AED would be fastened to the east wall of the Central Corridor (on the 2<sup>nd</sup> floor) of L. J. Smith Hall, next to the fire hose that is next to the north stairwell double doors. The logic for this location is both for accessibility and security. First, it would be easily accessible to the public from anywhere in the building within a 30-second time frame. Second, if anyone were to try to steal the unit, both an alarm would sound and strobe light flash, alerting staff that someone had removed the unit and was heading downstairs. Any potential thief would have to think twice about carrying this unit downstairs, while opening doors and passing through the corridors while an alarm was alerting people to the fact that the AED was removed.
- ✓ The Biological Systems Engineering Department will insure that there are a minimum of 2 other faculty or staff persons, as well as the FACOP Custodian for L. J. Smith Hall, who hold valid Adult CPR/AED certificates at all times. The current certificate holders are:
  - Tonya Prewitt, FACOP Custodian, Room 109, phone 5-9000 (ask them to page Tonya, pager #0999467, and state that she is needed for emergency AED use on a victim in L.J. Smith Hall giving exact location within the building). If unavailable, contact
  - John Morse, ARS Engineering Tech., Room 253, phone 5-1232. If unavailable, contact
  - Wynn Van Ausdle, Instructor, Room 120 (next to Wood Shop - adjacent building on south side), phone 5-2902 or cell 509-595-8275.
- ✓ Inspection of the AED unit itself, as well as AED cabinet condition, will be performed on an annual basis by assigned departmental staff.