**California Highway Patrol Judicial Protection Section**

**AED Selection Guidelines**

The California Highway Patrol Judicial Protection Section (CHP-JPS) has outlined certain guidelines for the selection of Automated External Defibrillators (AEDs) for the Supreme Court and Court of Appeal. These recommendations have been arrived through years of responding to and handling medical emergencies in both law enforcement and Emergency Medical Services (EMS) fields of work.

**Qualification**

* Any AED to be considered must meet FDA Pre-Market Approval. According to the American Heart Association (AHA), six companies meet this qualification.

**Dimensions and Weight**

* The AED should be lightweight and compact. A maximum weight of 5 lbs. and dimensions no greater than 3”x10”x10”. These specifications are to allow for easy transport in vehicles and bags.

**Carrying Case**

* The AED case must have storage for a razor, one way pocket mask, 4x4 gauze pads, trauma shears and gloves. In the interest of portability, the item or carrying case for the item shall have a handle or shoulder strap.

**Durability**

* The AED shall, at a minimum, meet IPX5 certification levels for resistance to water and IPX55 for resistance to dust. The AED shall be capable of properly operating in temperatures ranging from 0 to 50 degrees Celsius (32 to 122 degrees Fahrenheit) and relative humidity as high as 95% (non-condensing). Also, the AED shall withstand storage temperatures of a minimum 32 to122 degrees Fahrenheit. The AED shall meet or exceed the following International Electronic Committee (IEC) certification levels for vibration and shock, and a free fall drop: Vibration and Shock: Military Standard (MIL-STD)-810F method 514.5, Freefall drop: MIL-STD-810F method 514.5, procedure IV.

**Operation**

* The AED shall deliver shocks in a sequence of energy levels, which meet the latest AHA protocol/guidelines for the external defibrillation. The AED audio directions (prompts) for treating the subject throughout the rescue process, such as the sequence, interval, and duration of CPR attempts, shall also adhere to AHA protocols and guidelines.
* The AED shall require the operator to push no more than two buttons during the rescue attempt. The AED unit shall be designed so that once activated, it avoids accidental shutdown during operation. The AED unit shall have a pediatric attenuator if pediatric electrodes do not have a self-contained attenuator.

**Training**

* “Non-shocking” AED training units shall be provided which simulate AED use and provides CPR voice prompts. The AED trainer unit must look like and operate in the similar fashion as the "shock-capable" AED.
* Training unit kits shall contain all equipment required for the training purpose stated herein but is not limited to the following:
* Two “non-shocking” AED Training units
* Four (4) pairs of reusable training electrodes for the training units.
* Carrying case.
* Instruction manual
* The manufacturer or distributor shall provide, at no additional cost, training as scheduled by the State to certify users or instructors to be able to train others in the use of the AED. The training shall include all necessary equipment and literature to complete training.

**CHP Standard Issue**

The Emergency Medical Staff (EMS) at the CHP Academy has conducted extensive research of multiple AEDs and highly recommends one with the following specifications:

* Durability
* Portability
* Ease of use
* Reliability
* One piece design (They specifically chose an AED without a lid or cover)
* Cost