



**ARIZONA DEPARTMENT OF CORRECTIONS
ARIZONA STATE PRISON COMPLEX-PERRYVILLE
TACTICAL SUPPORT UNIT**

MEMORANDUM

TO: D. Harkins, Deputy Warden, Complex Security

THROUGH: M. Morgan, Commander, ASPC-PV Tactical Support Unit

FROM: N. Ambrosio, 3rd Squad Leader/Lead Instructor, ASPC-PV Tactical Support Unit

DATE: August 21, 2003

SUBJECT: New O.C. Spray

Sir,

On August 16, 2003, the Perryville Tactical Support Unit tested a product known as "Sabre Red H₂O". The product is a water base O.C. Spray. As per our early conversation, about the study that was done by the Phoenix Police Department and the Arizona Department of Public Safety, we came to some of the same conclusions, and this could benefit the team and the department as a whole.

First off, the product did fire with the can in any position, this is very significant, because sometimes it is not always possible to keep your O.C. can in an upright position, while dealing with a combative inmate. Next, was the product its self, I have tested many other O.C. products before, and this water based product proved to be the best for incapacitating a person. It rates at 2,000,000 Schoville Heat Units (SHU) and 1.33% Major Capsaicinoids (MCC) at 10%. Which represents the heat bearing and pain producing components of the defensive spray, and the higher the MCC the stronger the spray.

The product was also Non-flammable which is beneficial, since the department started using Tasers. The fact that we used a water based spray equates to faster decontamination time. When someone is sprayed with an oil based product it takes considerably longer for the oil to be removed from the skin.

The products effectiveness was unsurpassed by anything we are currently using. Having used and been exposed to the other products that we are currently using at this institution, the Sabre Red H₂O was the hottest O.C. spray I have been exposed to. This was also the consensus of many of the other Tactical Support team members.

The final point we believe makes this product the best for our applications is that every can will have the same effectiveness. After contacting David Nance at Security Equipment Corporation, makers of Sabre Red, he told me that they use an in-house High Performance Liquid Chromatography (HPLC) Laboratory this ensures that officers will never be taken be surprise by too much or not enough heat when deploying their aerosols.

For these reasons we are requesting that Perryville be able to switch through attrition, and start ordering Sabre Red H₂O, or at least be given permission for the Tactical Support Unit to carry this O.C. spray.

Thank you.