



Ultra-Low Profile Escape Hood



Problem:

The Escape Mask is an individual protection device intended to provide respiratory and ocular protection in the event of overt chemical or biological attack. The mask is for short duration use to escape an area of known or suspected contamination. The mouthpiece version of the mask is designed to provide protection for a general population of adults who may wear eyeglasses, have beards, long hair or other characteristics, which may preclude use of military-style masks. Nose-cup versions are not considered suitable for those with facial hair. The escape mask is packaged for storage until time of use with explicit and easy to understand instructions. There is a need for an ultra-low profile variant of the escape mask that is capable of being carried in a concealed manner for rapid deployment.

Solution:

Provide the U.S. Government with an Ultra-Low Profile Escape Respirator that is intended to meet the requirements of the National Institute for Occupational Safety and Health (NIOSH) Statement of Standard for Chemical, Biological, Radiological, and Nuclear (CBRN) – Air Purifying Escape Respirator, Attachment A, released in September of 2003. The Ultra-Low Profile Escape Respirator will have a minimum duration of fifteen (15) minutes, a ten (10) year shelf life, be able to be carried in a pocket, and be lightweight and constructed using flame and heat resistant materials.

Developer:

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