

Femi Ogunjinmi

Background

No current capability for military and civil authorities to work side-by-side in response to the rise of domestic Weapons of Mass Destruction. Domestic response requires operators to work under NIOSH mandates. M53E1 mask is the first mask that meets rigorous military requirements in addition to NIOSH requirements. M53E1 mask offers exceptional versatility and a common platform for both military operators and DoD civilian operators.

Stakeholders

Program Manager–JPMP
 Project Manager- JSGPM
 Technical Manager-M53A1

M53E1 Specifications

- CBRN Agent Resistance: Mustard, Sarin, Soman, VX
- Performance is greater than 36 hours.
- Exhalation resistance negative pressure mode at 15mm WG for 85 l/min and 30mm WG for 160 l/min
- Exhalation resistance positive pressure mode at 54 mm WG
- 1.6 lbs
- Drinking flow rate >230 ml/min



PAPR

Advanced Technology Demonstration (ATD)

- Demonstrated M53E1 with Powered Air Purifying Respirator (PAPR) at Joint CBRNE Advanced Capability Sets (JCACS) ATD in Ft. Bliss, TX
- PAPR hose is connected to mask via filter mount assembly
- PAPR provides continuous air flow into the mask
- PAPR provides greater positive pressure and additional protection



Operator Comfort

- Available in four sizes for customized protection to accommodate all operators
- Interchangeable silicone nose cups for custom fit
- Comfortable reflex seal with low profile brow for helmet compatibility
- Removable outserts are available to provide additional ballistic protection, comfortable operation in sunlight, and blue light filtration for sharper sighting

M53E1



Operation

- Function in both negative and positive pressure modes (APR and PAPR)
- Lever located on VREU (Variable Resistance Exhalation Unit), switches mode from positive to Negative pressure without removal of VPU (Voice Projection Unit) or loss of protection
- Use with CBRN CF50 Canister, C2A1, and General Purpose Filter.
- Integrated voice communications capability with internal microphone for radio and voice projection unit use
- Electronic pass-through for external radio use

