



MARINE CORPS SYSTEMS COMMAND

**Combat Equipment & Support Systems (CESS)
Program Manager, Infantry Combat Equipment**



Military Eye Protection System



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Military Eye Protection System

- **Current ballistic spectacle kits and goggle kits incl:**
 - clear and sun lenses
 - two spectacles, one goggle.
- **Meets military ballistic eyewear requirements per MIL-STD-662 as specified in:**
 - MIL-PRF-31013 Spectacles
 - MIL-PRF-43511C Goggles
 - And pending Draft MIL-PRF-ZZZZZ (Oct 2008).
- **Meets ANSI Z87.1 STD requirements**



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- Polycarbonate Prescription (Rx) lenses required
- Rx lenses: interchangeable between the spectacle and goggle
- Stronger Rx script wearers can experience distortion due to the angle of “wrap” style ballistic eyewear.
- Potential fix:
 - Reduce the Rx carrier angle for more perpendicular, flat-panel position
 - Extend peripheral coverage on outer eyewear.
 - Field a kit less wrapped for the higher script wearers, without sacrificing the closer fit design that accommodates majority of users.





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Military Eye Protection System

Objective: Improve the MEPS kits

- against snow glare (add new snow lens)
- comfort and fit of 5th – 95th population
- system durability, sturdier frames
- sturdier crush resistant case
- ease of use:
 - changing lenses
 - don and doff (one handed)
- confidence and uniformity
 - Add “Marine Corps authorized product” LOGO



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Military Eyewear Protection System

- Eyewear needs to be convenient to carry & (ready-to-wear)
- Durable during transport





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Military Eye Protection System

- **increase ballistic fragmentation protection with lighter, harder optical materials.**
- **scratch resistance still shortens life span**
- **improve fog resistance, system air flow, perm coating**
- **add laser protection when technology is ready, affordable, and acceptable to: see in day, dark, discern colors, and respond to unpredicted threats.**



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Military Eye Protection System

- Training with MEPS....get comfortable doing tasks with eye protection on!





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Questions?