

Military Combat Eye Protection (MCEP)

2008

Report Documentation Page

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EYE ARMOR WEAR IT!



Protected Eyes

OR NOT



Unprotected Eyes

EYE ARMOR



ELPE, M



EPCE, M



DWVG



ESS Land Operations Goggles



ESS Low Profile NVG Goggles



ESS Vehicle Operators Goggles



ESS Flight Deck Goggles



Wiley-X DG-1 Goggles III



Orbiter III



Uves XC (breath)



ESS IOC-2 (breath)



Revlon SAWFLY (with insert)



Wiley X RT 1



Arena FLAOR



Revlon Desert Locust



For more information contact: www.dodvision.com



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EYE ARMOR
COMBAT EYE PROTECTION SYSTEMS

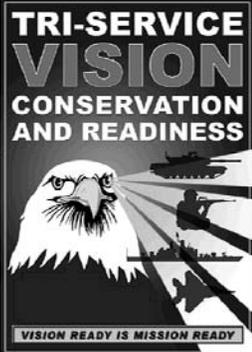


What is MCEPP?



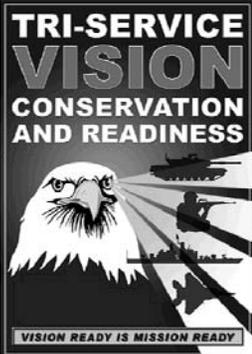
Military Combat Eye Protection Program

- Program established to validate and authorize protective eyewear devices for use by military personnel
- All devices must meet or exceed protective standards established by the Integrated Product Team (IPT)
- Base standard is the Ballistic Laser Eye Protection System (BLPS) and Sand, Wind and Dust Goggle (SWDG)





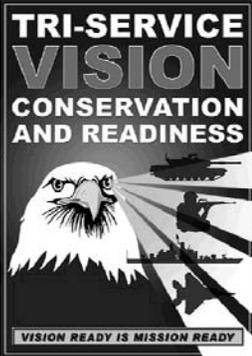
Who Manages the MCEPP?



- MCEPP is managed by Program Executive Office Soldier (PEO Soldier)
- MCEPP is executed under Product Manager Soldier Survivability (PM-SSV)
- The MCEPP-IPT is the advisory board to PEO Soldier on Combat Eye Protection



Who comprises the IPT?



Members from the following groups are part of the IPT:

- ✦ PM-SSV
- ✦ Ophthalmic Clinical Community
- ✦ Ophthalmic Fabrication Community
- ✦ Military Logistics Community
- ✦ Military End Users



What does the IPT do?



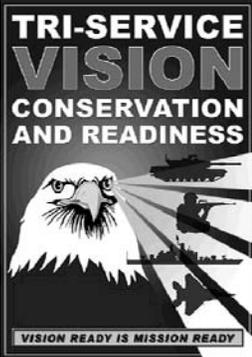
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- Validates safety standards and testing protocols
- Determines approval of new products for placement on the Authorized Protective Eyewear List (APEL)
- Recertifies current products on the Authorized Protective Eyewear List (APEL)



What is the APEL?



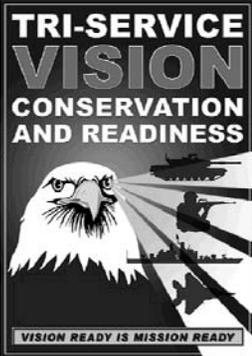
- A listing published by PEO Soldier of all eyewear products that have been approved for military use by the MCEPP-IPT
- All APEL items will be marked with this sticker on its packaging

AUTHORIZED
PROTECTIVE
EYEWEAR
LIST (APEL)
APPROVED

- *Members who purchase their own MCEP should look for this sticker*



Where do I find the APEL?



The APEL is published on the following websites:

<https://www.us.army.mil/suite/page/407>

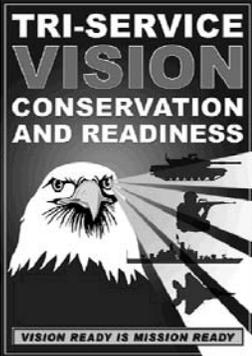
<https://peosoldier.army.mil/pmseq/eyewear.asp>

<http://chppm-www.apgea.army.mil/doem/vision/Army/default.asp>

The APEL is updated two times each year



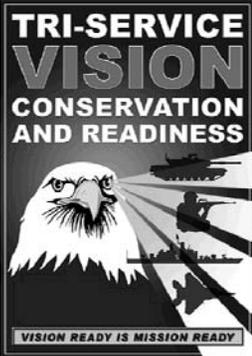
What are the MCEP requirements?



- For placement on the APEL, all MCEP must meet performance requirements that include:
 - System Configuration
 - System Weight
 - System Interfaces
 - Environmental Factors
 - Chemical Resistance
 - Ballistic Protection
 - Optical Characteristics
 - Flammability
 - Durability



Are products ever dropped from the APEL?



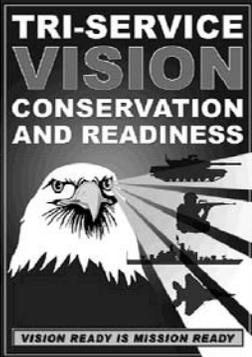
- Yes
 - All products are retested to current MCEP standards every two years
 - All products are routinely sampled for compliance with current MCEP standards
 - Any changes to the design or fabrication process of APEL items requires immediate retesting
 - Two spectacle systems have been removed from the APEL, to date



How do products get on the APEL?



- APEL Approval is a three-step process
 - Must first meet military combat eye protection requirements
 - Undergo user field testing
 - Receive approval from the MCEP-IPT





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COMBAT EYE PROTECTION SYSTEMS

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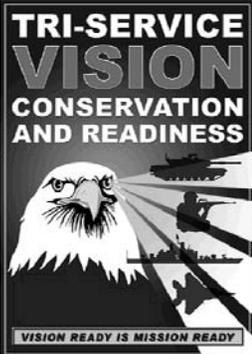


What are the current commercial products on the APEL?



Spectacle systems with prescription capability

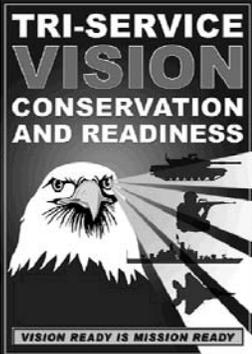
- ESS ICE II
 - Large
- ESS ICE NARO
 - Regular
- Both sizes utilize the same ESS prescription lens carrier





Spectacle systems with prescription capability

- Revision Sawfly
 - Regular
 - Large
- Both sizes utilize the same Revision prescription lens carrier





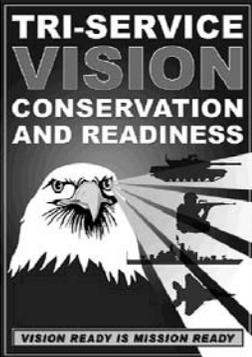
Spectacle systems with prescription capability

- UVEX Genesis
 - Regular
- UVEX XC
 - Large
- Both sizes utilize the same UVEX prescription lens carrier



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Spectacle systems with no prescription capability

- Oakley SI M 2.0



- Wiley X PT-1



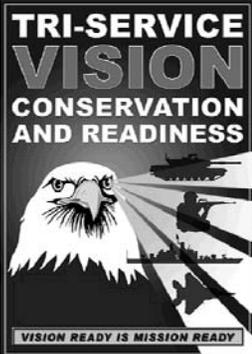
- Wiley X SG-1





Goggle systems with prescription capability

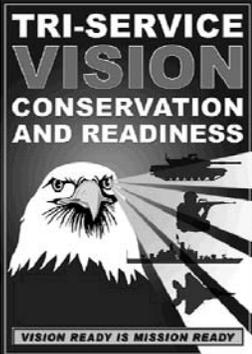
- ESS Profile NVG
 - Utilizes the same ESS prescription lens carrier that fits the ESS ICE II & ESS NARO

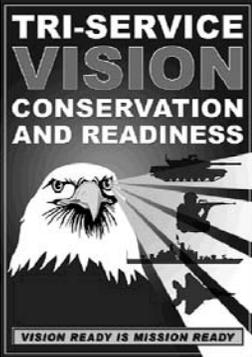




Goggle systems with prescription capability

- Revision Desert Locust
 - Utilizes the same Revision prescription lens carrier that fits the Revision Sawfly





Goggle systems that may be worn over LO military spectacles

- ESS Land Ops
 - May also be worn over LO military spectacles
- ESS Vehicle Ops
 - May also be worn over LO military spectacles

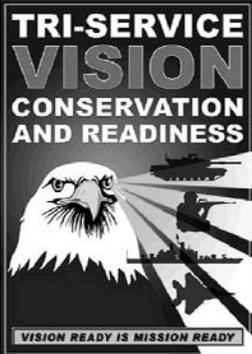


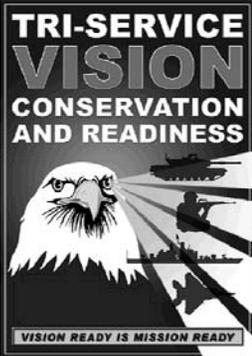


Goggle system with no prescription capability



- Arena Flak Jak
 - No prescription lens carrier
 - Does not fit over military LO spectacles

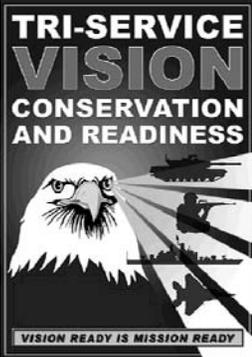




What are the current APEL products that provide LASER protection?



Military Spectacle Systems for Laser and Ballistic Protection



- SPECS (Spectacle Protective Eyewear Cylindrical System): No prescription capability
- BLPS (Ballistic Laser Protective Spectacles): Utilizes the M-40 Optical Insert

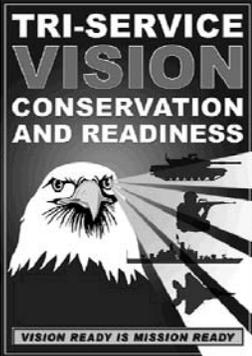




Military Goggle for Laser and Ballistic Protection

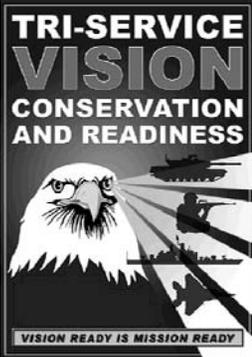


- Sand, Wind and Dust Goggle (SWDG): May be worn over spectacles





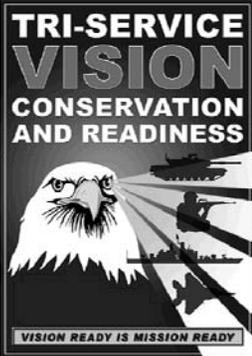
How do I get MCEP?



- Issued to all IET Soldiers
 - 2006 UVEX XC & ESS ICE II
 - 2007 Revision Sawfly
 - 2008 Determined by TRADOC
- Rapid Fielding Initiative
 - RFI issues one spectacle and one goggle to deploying Soldiers
 - Spectacle Systems
 - UVEX XC and UVEX Genesis
 - Goggle Systems
 - ESS Profile NVG and ESS Land Ops
 - Arena Flak Jak
 - Revision Desert Locust



How do I get MCEP?

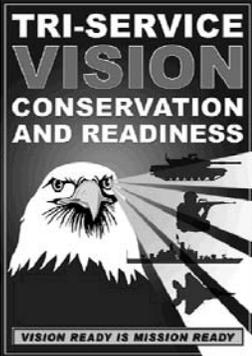


- Supplied by unit
 - All items are assigned National Stock Numbers and may be ordered through common logistics channels
- Self Purchase
 - All items stocked at Military Clothing and Sales Stores and Post Exchanges
 - Ensure items are marked with the APEL sticker before purchase

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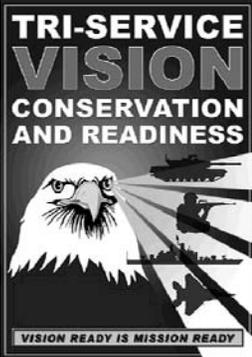
How do I get prescription lenses for my MCEP?



- Prescription Lens Carriers are a Class VIII medical item and are ordered through your local eye clinic.
 - Must have a valid prescription
 - Must know your MCEP spectacle and goggle system
 - The eye clinic **ONLY** provides the prescription lens carrier
 - The eye clinic **DOES NOT** provide MCEP spectacle and goggle systems



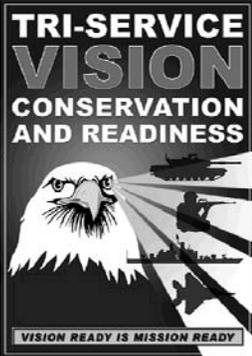
Why are there so many items on the APEL?



- More Choice
 - MCEP only works when worn
 - More choice increases the opportunity for users to find a product that meets their needs
- More Product
 - A system failure by one product can be overcome by the other vendors
- More Protection
 - Competition between vendors leads to improved devices that better address the needs of the user



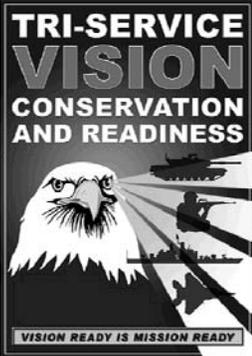
Is there a preferred product?



- There is no preferred product
- All items meet the same MCEP requirements
- Some items perform better on certain tests than others
 - Fogging, Scratch Resistance, etc.
- No single product performs best on all tests



Are there differences between the Services?



- Army
 - Units may purchase all items on the APEL
- Air Force
 - Units may purchase all items on the APEL
- Navy
 - Medical personnel are authorized items on the APEL
- Marine Corps
 - Limited to ESS ICE II, ESS NARO and ESS Profile NVG
 - Prescription lens carriers must contain polycarbonate lenses



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ESS LPE, 48



ESS SPECS, 48



DWVG



ESS Lead Operations Goggles



ESS Low Profile NVG Goggles



ESS Vehicle Operators Goggles



ESS Flight Deck Goggles



Wiley-X DG-1 Goggles III



Cobley III



Uvex XC (breath)



ESS IOC-2 (breath)



Revlon SAWFLY (with inserts)



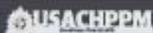
Wiley X PT 1



Avira FLAOR



Revlon Desert Locust



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