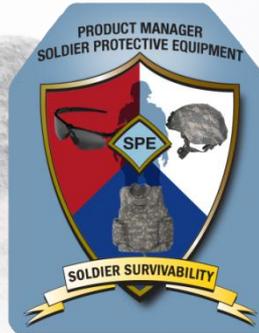




CENTER OF OUR STRENGTH

Program Executive Office Soldier



Military Combat Eye Protection (MCEP) Program *Advanced Planning Briefing for Industry (APBI)*

PM-Soldier Protective Equipment
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MCEP Program



The Military Combat Eye Protection (MCEP) Program is an umbrella program geared toward:

▪ Protecting the eye from external threats/hazards

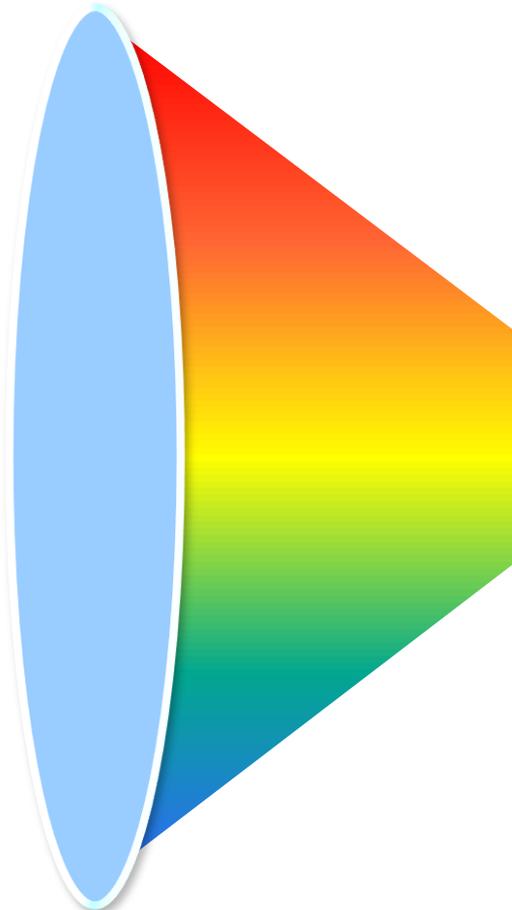
- Fragmentation
- Electromagnetic Radiation
- Wind/Sand/Dust

▪ Providing vision correction

- Accommodate corrective lenses
- Key role played by MEDCOM

▪ Encouraging use and feedback

- Promote User awareness through Army and MEDCOM channels
- Leverage feedback from the field to improve designs





MCEP Program Approach



CHOICE: MCEP offers eye protection to Soldiers in a variety of sizes and styles. By allowing Soldiers a choice in eye protection to meet mission needs, MCEP improves Soldier acceptance of authorized protective eyewear, thus reducing the likelihood of eye injuries.

TESTING: Products qualified by rigorous testing. Fragmentation, optical, and user testing in a field environment are among the tests that eyewear must successfully complete in order to be considered for approval. Commercial-off-the-shelf (COTS) products that meet the eyewear specification requirements and offer an overall improvement in performance over current products are included on the Authorized Protective Eyewear List (APEL).

FLEXIBILITY: Adapt to changing needs & technology - Products on the APEL are modified or added/subtracted as User needs change and as new technologies/design improvements become available.

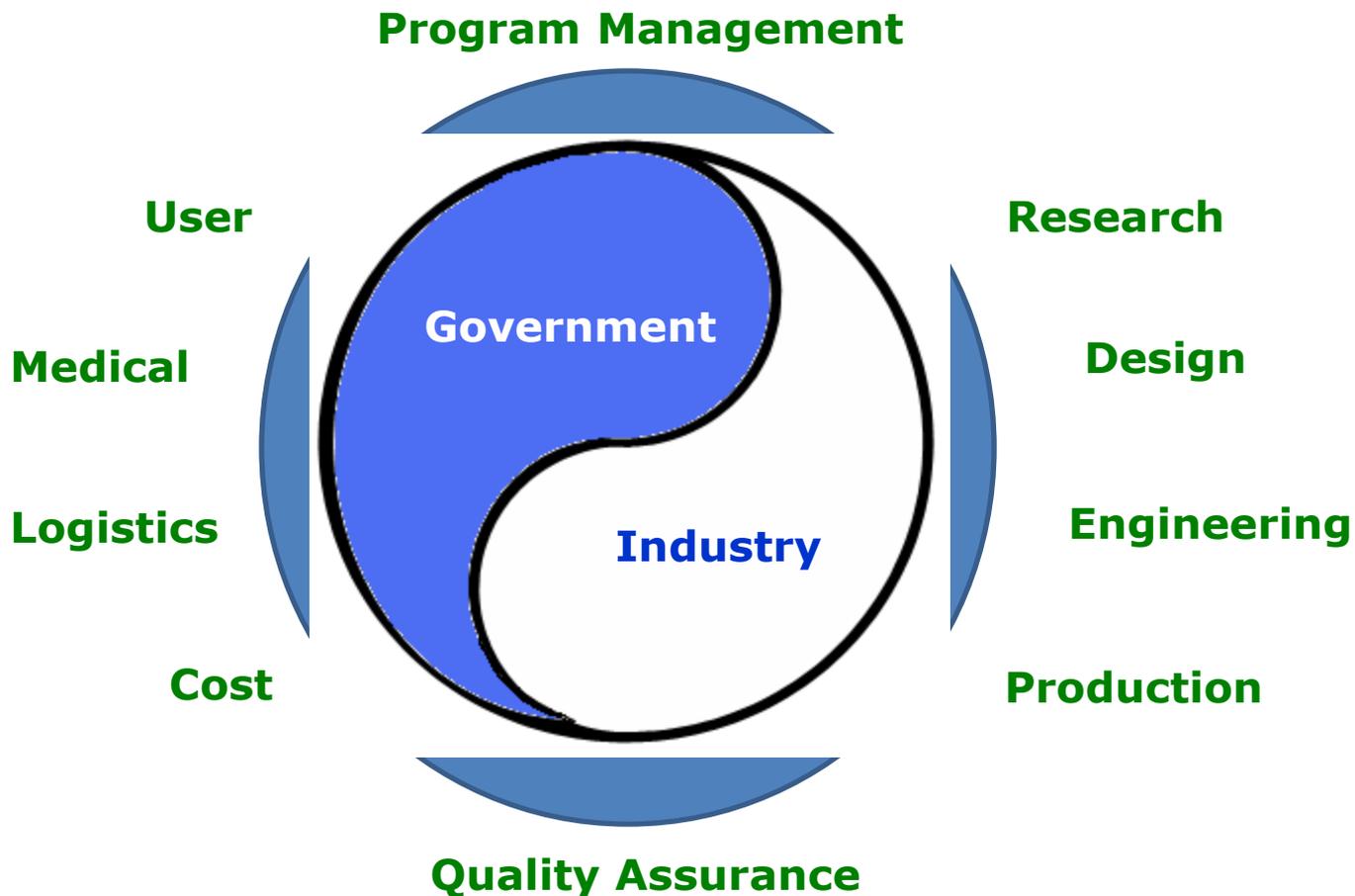
PARTNERING: Partner with Industry, the User community, the Medical Community, etc to arrive at a well rounded APEL list to best suit current and emerging User needs.



Integrated Approach



MCEP success dependent on various communities working together for a well rounded approach





APEL Spectacles



ESS CROSSBOW

NSN: 4240-01-583-5742

RX CAPABLE



REVISION SAWFLY

NSN: 4240-01-527-4051 Regular

NSN: 4240-01-527-4018 Large

RX CAPABLE



OAKLEY SI BALLISTIC M FRAME 2.0

NSN: 4240-01-525-3095

RX CAPABLE



SMITH OPTICS AEGIS

NSN: 4240-01-583-5206

RX CAPABLE



UVEX GENESIS

NSN: 4240-01-552-4131

RX CAPABLE



UVEX XC

NSN: 4240-01-516-5361

RX CAPABLE



WILEY X PT-1

NSN: 4240-01-510-7853



WILEY X SG-1

NSN: 4240-01-504-0994



WILEY X TALON

NSN 4240-01-583-5158

RX CAPABLE





APEL Goggles



ARENA FLAKJAK

NSN: 4240-01-548-7366 Grn

NSN: 4240-01-527-4076 Tan



ESS LAND OPS

NSN: 4240-01-540-5576 Grn

NSN: 4240-01-540-5580 Tan

WORN OVER GLASSES



ESS PROFILE NVG

NSN: 4240-01-540-5585 Grn

NSN: 4240-01-504-5727 Tan

NSN: 4240-01-504-6222 Blk

RX CAPABLE



REVISION DESERT LOCUST

NSN: 4240-01-547-6218 Grn

NSN: 4240-01-592-8619 Tan

NSN: 4240-01-547-6227 Blk

RX CAPABLE



SMITH OPTICS

OUTSIDE THE WIRE

NSN: 4240-01-583-4955 Grn

NSN: 4240-01-583-4954 Tan

NSN: 4240-01-583-4907 Blk

RX CAPABLE





APEL Submissions



New Submissions Shall Include:

- 40 samples of the product



- 3 complete kits (Carrying case, frame, clear & neutral grey lenses, retention strap, cleaning cloth, antifog wipe or solution)



- 37 frames with clear lens installed;



- 37 neutral grey sun lenses



- 20 prescription inserts per product



APEL Submissions



New Submissions Shall Include:

- Information about the product
 - Part numbers
 - Cost
 - Product Description (including materials used)
 - Material Safety Data Sheets (flame retardants, antifog/cleaning solutions, etc)
 - Name/location of manufacturing facility used for all components
 - Performance characteristics
 - Lot size used to produce samples submitted for evaluation and testing.





APEL Submissions



New Submissions Shall Include:

- Demonstration of compliance of the submitted product with:



- Buy American Act
- Trade Agreement Act
- Berry Amendment



Products made in the USA using foreign molded components shall identify this in use and care literature and on product packaging



APEL Submissions



New Submissions and Proposed APEL product design changes shall include:

- Test data for any testing the Manufacturer has conducted to verify compliance with APEL requirements
 - Manufacturers are encouraged to know/understand the capabilities of their products prior to submission.
 - Test data should include all observations
 - Government reserves the right to repeat testing





Test Reports



APEL Test reports in support of New Submissions, Retention and Recertification Shall Include:

- Date range of manufacture for the products tested
- Mold cavities tested
- Manufacturer/location for where the tested parts were produced.
- Test methods used and any observations
 - If there are no observations then the report shall state that no observations were noted.
- If Rx testing is performed, the material (i.e., CR39, polycarbonate) from which the prescription lenses were made and the source of the Rx lenses shall be stated in the report



Guidance Documentation



- Authorized Protective Eyewear List (APEL) for Military Combat Eye Protection (MCEP) Policy and Procedures (Change 1) dated 19 June 2009.
- Military Combat Eye Protection (MCEP) Purchase Description GL-PD 10-12 dated 16 April 2010.
- ANSI Z87.1.

Manufacturers are required to be compliant with the above



APEL Schedule – New Candidates



- Items can be submitted for consideration *any time* of the year.
 - Initial submission & samples needed NLT 15 January to be included in that years User evaluation
- User evaluation will be performed once a year, pending availability of funding & troops.
 - Anticipate May timeframe
 - Test samples needed NLT 15 April
- APEL List updated at least once a year.

January



Samples/Data for new submissions

February

March



April

May



User Evaluation

June

July



Retention Cycle

August

September

October

November

December



APEL Schedule – Authorized Items



- Retention test data required once every 6 months (January & July) for authorized items
- 2 year recertification test data due every 2 years in July.
- Design/process changes accepted *any time* of year
- Significant design changes may need to be included in User Evaluation

January

← Retention Cycle

February

March

April

May

← User Evaluation for significant design changes

June

July

← Retention Cycle (replaced by recertification cycle every two years)

August

September

Next retention cycle July 2011

October

November

Next recertification cycle July 2012

December





APEL Schedule – Authorized Items



- Next 6 month retention cycle July 2011
- APEL Manufacturers to provide:
 - Test data from Independent Lab
 - Ballistic fragmentation
 - ANSI Z87.1 (2003 version will be used)
 - Optical Distortion
 - Weight
 - Chemical resistance
 - Flame resistance (goggle strap)
 - Luminous Transmittance/Chromaticity/Neutrality
 - UV absorption
 - Abrasion
 - Ballistic fragmentation testing shall include prescription inserts (CR39)
 - ANSI Testing shall include prescription nosepiece (if applicable)

January

February

March

April

May

June

July

August

September

October

November

December



← Next 6 month retention cycle July 2011



APEL Logo



- All products being provided to the US military under the APEL must bear the APEL logo as of July 31, 2011
 - Only APEL approved eyewear using the materials/processes qualified through the Army APEL program are authorized to use the APEL logo
 - Only product sold for US military use (Government contract, AAFES, etc) may bear the “APEL” logo
 - Licensing agreement needed for eyewear sold to US military if not part of a US Government contract





APEL Logo



- “APEL” Logo shall be located on the left side of the frame
 - Letters may be embossed, debossed, pad printed, etc.
 - Letters must last for the life of the item (~ 6 months) and not be easily removed.



APEL

- Changes in format/location of logo shall be resubmitted for review/approval



Future Buys



- RFI Buys
 - Estimate a need for another 60K – 100K kits in FY 11
 - Estimate a need for 127K kits in FY 12
 - Items that will be bought must have a Spectacle and a Goggle with a shared/compatible prescription insert and be listed on the APEL.





Contracts



- Manufacturers are reminded that only the contracting officer can provide information/respond to questions regarding an open solicitation.
 - **Do not** contact the user, PEO or any other group/organization involved with the program to ask about a buy on the street.





Cost



- Cost reduction measures increasingly important as budgets get reduced
- Manufacturers can help by:
 - Identifying material, design & process solutions that help minimize overall cost of eye protection
 - Remain competitive
 - Provide durable products
 - Continue to maintain Quality/Performance
- Manufacturers should monitor prices their products are being sold for; inform us of any issues





Current & Future Interests



- Variable Transmission Lenses
 - Send us what you have
 - Lenses should be in an APEL format
 - Lenses need to meet APEL requirements
 - ANSI Z87.1
 - Ballistics
 - Neutral Grey in color
 - etc
 - Provide transmission range, time for full transition and any power requirements.





Current and Future Interests



MultiCam

- New Goggle Colors
 - Operation Enduring Freedom (OCP) Camouflage
 - Tan 499 to match
 - Current Tan APEL goggles should transition to new color as becomes available
 - Foliage green & black goggles will remain as is
 - Spectacles will remain black
 - FED-STD-595C "Colors Used in Government Procurement" available for color matching and Quality Assurance; Color chips also available
 - Universal Camouflage color for goggles



Current & Future Interests



- Improved Scratch, Fog, Impact Resistance
 - Fogging and scratching still among chief complaints
- Improved impact protection
 - Without sacrificing other APEL requirements
 - Maintain frame integrity
- Chemical Resistance - both sides of the lens
- Universal Prescription Insert - all APEL items
- Agile laser protection



Direction to manufacturers on the needs of the program will come from the Program Office



MCEP Summary



The APEL process is working – soldiers are wearing eye protection in combat and training, injuries have been prevented

Industry plays a key role in the evolution of the APEL products and the success of the program

*Thank You for your
Continued Support to
Our Soldiers*





MCEP



Combat Eyewear



– Your Sight, Your Choice