Overview

- WEG & 83 FWS Mission
- Targets
- Air-to-Air Engagements
- Results
- Future
Provide senior leaders an annual assessment of weapon system effectiveness & suitability through kill chain evaluations on all combinations of fighter, bomber, and remotely piloted aircraft employing both air-to-air & air-to-ground weapons in realistic scenarios that enhance training.

Provide threat representative aerial targets for WSEP, DoD, and FMS weapons testing programs.
Provide senior leaders an annual assessment of weapon system effectiveness & suitability through kill chain evaluations on all combinations of fighter, bomber, and remotely piloted aircraft employing both air-to-air & air-to-ground weapons in realistic scenarios that enhance training.

Provide threat representative aerial targets for WSEP, DoD, and FMS weapons testing programs.

**Weapons-Build Through Impact Analysis of the A/A and A/G Kill Chains Aerial Target Systems** for WSEP, DoD and FMS Test Programs
Provide a Tailored Force Development Evaluation on the overall effectiveness & reliability of DOD air-to-air weapons systems

Validate & expand air-to-air tactics, techniques, and procedures

Provide air-to-air missile experience to participating units
Targets

- Adaptive Full Spectrum Threat-Realistic Expendable Target
- 3-Dimensional
  - Low OR High
  - Slow OR Fast
  - Level OR Highly Maneuvering
  - RCS/RF/EA/IR/Easily Seen
- Roles…
  - Fighter
  - Cruise Missile/UAS
  - Plus…Airliner, Cessna, Helo
Air-to-Air Engagement

- **COMBAT**
  - Fluid, Dynamic, Un-constrained, Dangerous and Expensive!

- **TRAINING**
  - Ideally, similar w/o real death & danger
  - ...Fluid ~ Structured
  - ...Dynamic ~ Repetitive
  - ...Un-constrained ~ Bounded
  - ...Expensive ~ Affordable

- **VALID**
  - Validated as we gather quantifiable data/info for analysis

- **CUSTOMER** - Can I have it ready yesterday and again tomorrow?
TYPICAL COMBAT ARCHER SCHEDULED RANGES

- **AIRSPACE**
  - W151 A, B, D, E2, F

- **TIME**
  - 3 Hours

0 - 70,000' 
SUPersonic 10,000 
CHAFF / FLARES / EA-EP
SHOOT BOX REQUIREMENT
3150 SQUARE STATUTE MILES

- AIRSPACE
  - W151 A, B, D, E2, F
- TIME
  - 3 Hours

Typical Shoot Box

0 - 70,000'
SUPERSONIC 10,000
CHAFF / FLARES / EA-EP
SHOOT BOX REQUIREMENT
9800 SQUARE STATUTE MILES

- AIRSPACE
  - W151 A, B, D, E2, F
- TIME
  - 3 Hours

140SM
70SM

Typical F-22 Shoot Box

0 - 70,000'
SUPersonic 10,000
CHAFF / FLARES / EA-EP
RESULTS

- TACTICAL
  - 3-1, TTPs, SHOT-KILL

- OPERATIONAL
  - OPLANS
  - IN-THEATER WEAPONS EFFECTS

- STRATEGIC
  - TO CSAF ANNUALLY – FILTER TO OSD
  - CNO GROWTH

- DEFENSE INDUSTRY
  - WEAPONS – WPNS SYSTEMS - TARGETS
NDIA TAKE-AWAYS

TARGETS
- Evaluate Multi-Role Platforms (Combined WSEPs)
- Target Set Expansion!
- Incorporate New Weapons Systems (F22/F35/UAS)
- Incorporate New Weapons

RANGES
- Optimize Efficient Use across Users…Joint Ops
- Optimize Growth (Higher, Faster, Farther, +Data Fidelity)
- Play Well with others…
  - Civilian use…Business use…
  - Gov’t (FAA) use…
  - Continued Military use
QUESTIONS?

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