



# CAP Green Flag Mission Overview



Civil Air Patrol  
GFE & GFW



This Briefing is:  
**UNCLASSIFIED**



# Presenter



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**Senior Program Manager for Special Missions**  
**National Headquarters**



# Rules of Engagement

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- Members in the field will be in **listen only mode**. We have several hundred members signed up, so having everyone with an open microphone is not supportable.
- We will try to answer questions throughout the webinar though. Just **type your questions**, and we will either answer you directly via text or provide a voice answer to your question.
- The webinar itself, questions, and chat log are **being recorded**, so please remain respectful.
- Time is limited...focus on the topic 😊



# Overview



- CAP Green Flag Program
- CAP Green Flag History
- Mission Coverage
- Operating Locations
- MX-15 Sensor Capabilities
- Airplanes – SRPAs
- SRPA Capabilities
- Operations Concept
- Green Flag University





# CAP Green Flag Program



## The Mission



- The “Surrogate Remotely Piloted Aircraft” (SRPA) mission a.k.a. “CAP Green Flag” mission is to utilize operational procedures and practices to provide supported units realistic training so they can effectively perform their combat missions.





# CAP Green Flag Program



## Purpose



- To provide realistic Predator/Reaper RPA integration into Air & Ground force battlefield combat training through the use of Civil Air Patrol (CAP) Surrogate sensor camera equipped airplanes (MQ-1/MQ-9 SRPAs).
- CAP utilizes airplanes specially equipped with an MX-15 sensor camera mounted to the airframe and has specifically trained aircrews to provide this essential training support.





# CAP Green Flag Program



## Benefit

- The benefit is realistic Predator or Reaper PRA integrated training support provided by CAP to soldiers, sailors, marines and airmen at a fraction of the cost while allowing for real MQ-1/MQ-9 RPAs to be utilized where needed elsewhere.





# CAP Green Flag Program



## Objective



- The objective is to provide Combined & Joint forces (both ground and air) with a Live Streaming Video asset identical to that provided by MQ-1/MQ-9 PRAs in support of critical military training; and to enhance Defense Support to Civil Authorities (DSCA) & Disaster Relief (DR) capabilities through CAP SRPA fleet upgrades and crew qualifications.





# CAP Green Flag Program



## Realistic Training Support

- Unless visual contact is made, there is no way to tell the difference. CAP Crews are highly trained as the 'White Cell' at Green Flag. From the ground team member's perspective, as well as other participating aircraft, they are a “real” Predator or Reaper.





# CAP Green Flag Program



## Requirements



- OPLAN: CAP, ACC, 1AF
  - Establishes responsibilities and procedures for use of Civil Air Patrol assets for the GF program.
- Modified CAP aircraft: are equipped with “Surrogate Reaper” systems, to support GREEN FLAG EAST & WEST and other events/exercises by exception.
- Qualified CAP aircrews: GF sorties are flown by pre-screened, highly experienced CAP crew members, that go through specific Surrogate Reaper mission training at GF University prior to becoming qualified.



# CAP Green Flag Program



## Oversight & Support



- Commander of Air Combat Command (ACC/CC)
  - ACC Training Managers
- Commander of 1<sup>st</sup> Air Force (1AF/CC)
  - 1AF Operational Staff
  - 1AF JAG





# CAP Green Flag Program



## Command Structure



- CAP Command National Commander
  - LA & NV CAP Wing Commanders
  - CAP Green Flag East & West Unit Commanders
    - Maj Al Spain, CAP & Lt Col Harvey Irby, CAP
- CAP-USAF Commander
  - Oversight of CAP's role as USAF Auxiliary
  - CAP-USAF Staff





# CAP Green Flag Program



## CAP Admin Structure



- Director of Operations (CAP/DO) – Maxwell AFB
- Senior National Program Manager (CAP/DOX)
  - On-site Mission Administrators (CAP/DOXE&W)
    - GFE : Shondrea Jones [sdinnat@greenflageast.com](mailto:sdinnat@greenflageast.com)
    - GFW : Irene Jaques [irene.jaques@greenflagwest.com](mailto:irene.jaques@greenflagwest.com)
- NHQ Finance (CAP/FM) – Maxwell AFB
  - Provides budget assistance





# CAP Green Flag History



## Our **GFE** History (Alexandria, LA)

- 2008—Coordination between HQ ACC, CAP USAF and CAP NHQ to develop program and airframe details.
- September 2009—ACC GFE Program Manager arrives.
- August 2009—The Hanger facility accepted by CAP NHQ.
- September 2009—First Initial Qualification Training taught.
- September 2009—SP#1 airplane arrives.
- November 2009—Facility operational.
- January 2010—First full up Pre-Ex Training.
- January 2010—GFE 10-03 is First GFE Mission executed.
- Approx. **35,000 U.S. & Coalition** receive Training annually.
- To Date: **220,000+ U.S. & Coalition** Trained for Combat.





# CAP Green Flag History



## Our **GFW** History (N. Las Vegas, NV)

- *July 2009- NVWG CAP accepts GFW mission from ACC .*
- *Multiple visits to GFE & extensive consultation enables GF.*
- *March 2010- ACC GFW Program Manager arrives .*
- *GFW starts to take shape in the early months of 2010.*
- *March 2010- Facility located and accepted by CAP NHQ .*
- *May 2010- First Initial Qualification Training (IQT) taught.*
- *June 2010- SP#2 airplane arrives.*
- *June 2010- Facility operational.*
- *June 2010- First full up Pre-Ex Training.*
- *July 2010- GFW 10-08 is First GFW Mission executed.*
- *Approx. 45,000 U.S. & Coalition receive Training annually.*
- *To Date: 365,000+ U.S. and Coalition trained for combat.*





# Mission Coverage



- Ground & Air troop training support to U.S. & Allies
- 22+ Green Flag Exercises/Events conducted annually
  - Continuous year-round operations
  - Planning, Preparation & Execution year round
- Approx. 15 Days each month at each location
  - Includes Travel Days
  - Continuation Training
  - Exercise/Event Operations
- Flying 2-3 sorties per day





# Operating Locations



## GFE Home Base: Alexandria, LA (AEX)

- Two-C182Q SRPA airplanes
- C2 Bus – Remote Ops Vehicle
- Ops Center
- Staff & Aircrews
- Exercises in Ft Polk, LA range
- Forward staging Ft Polk (POE), LA; if needed
- Collaborate & plan with the 548 CTS, Ft Polk, LA
- CAP IC, Ops Officer, Aircrews, Radios & Remotely Operated Video Enhanced Receiver (ROVER)





# Operating Locations



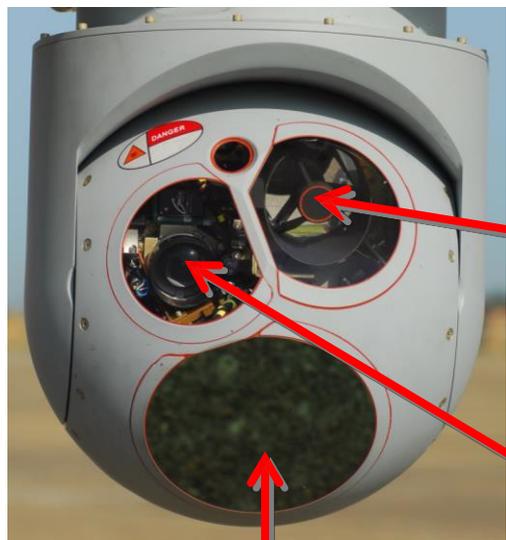
## GFW Home Base: North Las Vegas, NV (VGT)

- CT206H SRPA airplane
- CT206H G-1000 (Non-SRPA)
- GA-8 transport aircraft
- Ops Center
- Staff & Aircrews
- Exercises in Ft Irwin, CA range
- Forward staging at Barstow Daggett (DAG), CA; if needed
- Collaborate & plan with the 549 CTS, Nellis AFB, NV
- CAP IC, Ops Officer, Aircrews, Radios & Remotely Operated Video Enhanced Receiver (ROVER)





# MX-15 Sensor Capabilities



Infrared

## Electro-Optical Narrow Spotter



## Electro-Optical Wide Daylight TV





# Airplanes - SRPAs



## Cessna 182Q:

- C182Q with MX-15 Analog Sensor
  - 3 person Crew – MP, MC, SO
  - 3-hour VUL time/ 4.2 Total Fly Time
- MX-15 Pod transmitter sends data to JTAC, S2, S3, AWACS, JSTARS
- Simulated Load Out Ordnance:  
MQ-9 = 4 x AGM-114R (Hellfire Missiles)  
& 2 x GBU-12 (Laser Guided Bombs)
- Comms – 1 x UHF, 2 x VHF, 1 x FM
- GPS – G500
- Transmitter: AMP Microwave  
Advanced Microwave Products (AMP) -TX-1718-01
- Transceiver: General Dynamics URC-200 (V2)
- ROVER – Remotely Operated Video Enhanced Receiver (Ground Use) →





# Airplanes - SRPAs



## Cessna T206H:

- Cessna T206 w MX-15HD (Digital)
  - 3 person Crew – MP, MC, SO
  - 2-hour VUL time/ 4.2 Total Fly Time
- MX-15 Pod transmitter sends data to JTAC, S2, S3, AWACS, JSTARS
- Simulated Load Out Ordnance:  
MQ-9 = 3 x AGM-114R & 1 x AGM-114N (Hellfire Missiles),  
& 2 x GBU-12 (Laser Guided Bombs)
- Comms – 1x UHF, 2x VHF, 1x FM
- GPS-G1000
- Transmitter: AMP Microwave  
Advanced Microwave Products (AMP) -TX-1718-01
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# SRPA Capabilities



## C-T206H & 182Q planes w/MX-15 Sensor Camera

- Simulate a Predator or Reaper system for exercise participants
- Video Downlink (VDL): MX-15 transmits data to ROVER capable ground units in real time.
- 2-3 hour VUL time (Time on Station)

### And Provides capabilities of:

- Infrared (IR) for convoy over-watch
- Intel, Surveil & Recon (ISR)
- Combat Air Support (CAS)
- Strike Control And Recon (SCAR)
- Combat Search And Rescue (CSAR)





# SRPA Capabilities



**C2 Bus – “Mobile Operations Center”** from LAWG (provides)

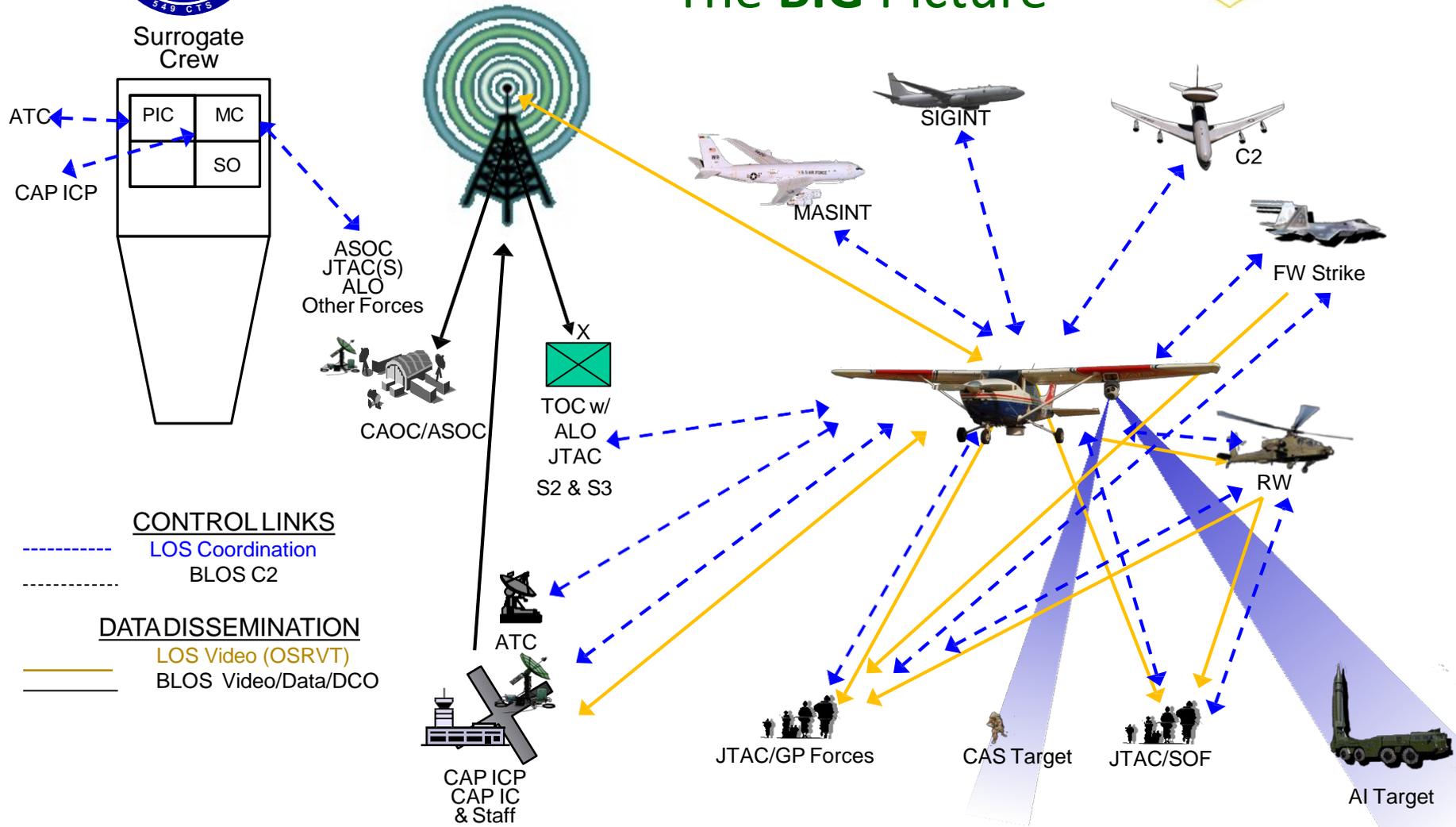
- Command & Control
- Mobile Admin/Ops Center Capability
- HF & CAP VHF net and Tactical UHF/VHF
- Internal networked computer systems
- Multiple antenna connections and Customizable Video Down Link (VDL) and comm output links
- Telephone interface (RJ 11/RJ 45)
- Cellular internet
- Rover 4 kit (Video Receiver)





# Operational Concept

## "The BIG Picture"



Common Positive and Procedural controls provide for dynamic re-tasking, airspace coordination, levels of interoperability and C2.



# GFE / 548<sup>th</sup> Night Support for the 82<sup>nd</sup> Airborne Air Assault





# GFW / 549<sup>th</sup> Day Support for the 2<sup>nd</sup> Infantry Division





# Green Flag University



- Two Green Flag Universities (GFU) are conducted annually.
- They provide specialized qualification training for CAP members.
- The next GFU is planned for N. Las Vegas, NV in Jan 2020.
- GFU applications are distributed thru Wing/CCs.
- The next applications are planned to go out later this month.
- Requesting experienced aircrew candidates.
- 3 Exercises expected annually from each GF member.





# CAP Green Flag





# Summary



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