Air Force Auxiliary Mission Brief
For 2008 AF Emergency Preparedness
Liaison Officer (EPLO) Conference
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This Briefing is: UNCLASSIFIED
Outline

- Organization
- The Mission Approval Process
- Platforms / Technology
Civil Air Patrol Presence

Overseas Units
3 - Japan
2 - Germany
In Accordance With Air Force Instruction (AFI) 10-2701, 1st AF is the mission approval authority for all Air Force assigned missions in the Northern Command (NORTHCOM) Area Of Responsibility (AOR) except:

- CAP Training flights, Reserve Officer Training Corps (ROTC) flights, Cadet Orientation, Ferry Flights – mission approval for these is through CAP-USAF commander
- Alaska-11th AF Commander
Department of Defense (DoD) policies that govern coordination and approval of requests for support to civil authorities normally do not apply to the Air Force Auxiliary.

The Secretary of the Air Force (SECAF) designee (1/11\textsuperscript{th} CC), may respond directly to civil-support requests, including those involving counter-drug activities, using the services of CAP.

Approval authorities must ensure that CAP missions supporting State/local agencies or Non-Government Organizations (NGO)s as Air Force Assigned Missions (AFAM)s must demonstrate a “federal interest” in the activity.

CAP may only support an agency or department of the Federal government in its capacity as the Air Force Auxiliary.
Request for Air Auxiliary

NORTHCOM

AFNORTH-1AF (CAOC)

CAP (National Ops Center) 888-211-1812

CAP Wing

DoD

Federal Agencies

State/local Agencies or NGOs

CAP … Remain Under Military Control/Direction …
All Joint Forces Air Component Commander (JFACC) approved missions (Including AF Aux) are published on the CONR/AFNORTH Air Tasking Order (ATO)

As of 20 Jan 06, all AF Aux missions receiving JFACC approval have been published on Classified ATO.

“Public” Unclassified taskings available through CAP run Web based Mission Information and Reporting System (WMIRS)
Day to Day

- Majority of missions
- Handled by normal ATO process
- Requests validated by CAPNOC and CAP- USAF
- Does CAP have Assets/Legal
- Approval-at bi-weekly ATO approval brief
- Approved missions will be
  - Updated on WMIRS
  - Published on Classified ATO
- Tracked daily via AFNORTH Situation Report (SITREP)
- Mission closeout responsibility of CAP
Immediate Response Requests

• Immediate response is appropriate when necessary to:
  • Save lives
  • Prevent human suffering
  • Mitigate great property damage under imminently serious conditions

• CAP must receive authorization from the 1AF AFNORTH/CC (Commander) or his/her designee to conduct an immediate response mission
• Mission **within** ATO execution phase
• Requests validated by:
  CAP National Operations Center (CAPNOC) and CAP-USAF or
  AFNORTH Senior Duty Officer (SODO)
• Approval authority is the JFACC or his/her designee at CONR/AFNORTH
  Combined Air Operations Center (CAOC)
  • Available 24/7 365 Days
• Approved missions will be passed via telcon/e-mail to the NOC/Requester
  • Updated on WMIRS
  • Published on Classified ATO
AF AUX Capabilities/Assets

- Aerial Imaging- Ability to image, transmit and download high resolution digital photos from airborne platforms
- Airborne Visual Reconnaissance- Reconnaissance of isolated locations, border and coastal areas, ports and harbors and critical infrastructure
- Satellite Link Airborne Dynamic Retasking
- Light Air Transport / Air Taxi- Capability for human blood or organs, equipment, passengers, or search dog teams to austere or remote airfields.
- Air and Ground Fleet Availability- Fleet of over 530 aircraft, 940 ground vehicles
- Communications Support- VHF and HF capability and aerial communications relay
- Personnel- Cadre of 650+ Chaplains available for weekly religious services or general support.
- Law Enforcement Support- Ability to take law enforcement or VIP personnel aloft for visual reconnaissance of areas of interest

*****Normally can launch within 4 hours
Posse Comitatus Act

- Cannot:
  - Search
  - Seize
  - Arrest
  - Interrogate
  - Direct Law Enforcement Activities (LEA)
Mission Authorities

- Law Enforcement Agents (LEA) Transportation Authority:
  - May transport LEA for coordination and support force protection
  - May not transport prisoners or contraband (some exceptions – chain of custody)
  - May not transport in direct tactical support of LEA operational missions
  - May not transport where hostilities are imminent
- CAP Personnel may make spot reports of suspicious activities to LEAs
Air Force Auxiliary is not an Intelligence Surveillance Reconnaissance (ISR) asset and therefore does not conduct INCIDENT AWARENESS AND ASSESSMENT (IAA) MISSIONS

- USAF AUXILIARY CONDUCTS CIVIL SUPPORT MISSIONS FOR NON-INTELLIGENCE PURPOSES

AF Aux Does NOT collect, disseminate, or retain information about U.S. persons

- All information belongs to the requester
- USAF can use info for force protection, then dispose

Information includes:

- Photographs
- Video
- Identifying information
CAP Resources

- 950 Vehicles
- 530 Aircraft
- 2,100 Fixed Land Radios
- 8,000 Mobile Radios
- 56,155 Members
  - 34,682 Officers
  - 21,473 Cadets
- 14,900 Portable Radios
Platforms

Cessna 172 (262)
Cruise speed 110-135 kts
Range 520-730 NM

Cessna 182 (235)
Can operate with 2500’ runway
VHF AM and FM radio

Gippsland GA-8 (16)

Cessna 206 (22)

Cessna 172 (262)
Cost-effective Force Multiplier

- Auxiliary - Cessna
- UAV - Predator
- Helicopter - HH60G
- Airlift - HC-130
103 lives saved in FY07

Large Scale effort during Fossett Search

Wildfires in CA, FL, GA, SD, UT; Floods in IA, KS, NE, OK, SD

ARCHER system used: to provide oil spill data for Environmental Protection Agency (EPA) and United States Geological Survey (USGS); to assist with Fossett search; to assist State of CA with vegetation and soil analysis after wildfires
January:
MO, IL, WI – Tornado damage assessment for National Oceanographic & Atmospheric Agency (NOAA)

Ongoing:
DC, AZ, SD, CA, FL, VT & TX – Air Defense Sector support
DE, MD, & AZ - Traffic monitoring missions
FL - Eglin AFB Fire Patrol
CA - Imperial Valley counterdrug
SD - Collared animal surveys (mountain lions)
OH, SD, AR, AZ - Low Level route surveys
ME - Escort for new Navy ships

Upcoming:
WA & OR – Prep for Vancouver Olympics
WA & Middle East Region - Ardent Sentry exercise
SITUATION: Incident caused damage to the Kentucky Dam on the Tennessee River

REQUIREMENT: Damage assessment photos as soon as possible

RESULT: CAP Images delivered within hours
Exercises

Federal Emergency Management Agency (FEMA)
Heartland Response
- New Madrid Fault Exercise

NORTHCOM Support
- United Defense
- Determined Promise
- Top Officials 3/Ardent Sentry

CT

OH
Hurricanes Katrina, Rita, Ophelia and Wilma

- 1,048 Air Sorties
- 2,023 Flight Hours; 131 Ground Team Missions
- Provided air transportation for hundreds of people
Additional Support

- Critical infrastructure
- Restricted or sensitive areas
- Borders
Operations

SDIS
Satellite-Transmitted Digital Imaging System

- Status
  - 100 systems in service now

ARCHER
Airborne Real-time Cueing Hyperspectral Enhanced Recon

- Status
  - 16 systems fielded
What is SDIS?

Satellite-transmitted

Digital

Imaging

System
SDIS

Digital Photo automatically loaded into aircraft laptop

Image attached to an e-mail and sent via satellite phone

E-mail with image sent by satellite to Globalstar Internet Gateway

Globalstar USA

World Wide Web

Our Customers View in WMIRS

Locate the target.
Take a digital photo
Technology that enables CAP to send high resolution digital imagery from CAP aircraft to anyone anywhere in the world.

Images are sent as JPEG attachments via standard e-mail to multiple addresses and/or a password-protected website.

Imagery is transmitted near real-time. Files take less than 2 minutes to transmit.
What is ARCHER?

Airborne
Real-Time
Cueing
Hyperspectral
Enhanced
Recon
ARCHER

- ARCHER is a custom-designed system of hyperspectral imaging (HSI) hardware and software.

- HSI is a technology that allows a sensor on a moving platform to detect and/or gather reflected radiation (light) from man-made or natural objects on the ground.

- Hyperspectral Imaging will support current and future CAP missions
  - Search and Rescue (SAR)
  - Disaster Relief (DR)
  - Homeland Security (HLS)
ARCHER executes three separate algorithms for target acquisition and identification:

- **Spectral signature matching**: detects specific spectral signatures using matched filters (find things with known spectral properties)
  - Potential Missions: HLS

- **Anomaly detection**: detects spectral anomalies (things that do not “belong”)
  - Potential Missions: Search and Rescue, Disaster Relief

- **Change detection**: detects changes over time through a pixel-by-pixel comparison.
  - Potential Missions: HLS, Disaster Relief
• ARCHER is a **non-invasive** reflective light technology

• ARCHER will **NOT** make detections:
  • Through solid materials (e.g., roofs, buildings, walls, floors, etc.)
  • Underground
  • Under snow
  • Under water
  • At night
Fort AP Hill Test Mission:
Match Filter Detection
ARCHER Change Detection

Sortie 1

Sortie 2
The Future for AF Aux

- Assume increased role in Civil Support mission
- More seamless integration within the Combined Air Operations Center and Air Force North (AFNORTH)
Civil Air Patrol

... performing missions for America!
Questions?