

Project Name: Vietnam War Stories

Tape/File # WCNAM A05 Air Force Electronic War

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Keywords: Tactical Electronic Warfare, Hanoi, Iron Hand Flight, Radar, Jamming Quads, ECM (Electronic Counter-Measures), Planning and implementing missions, Electronic Warfare Officers (EWOS), Aircraft (EB-66), Using information gathered for later missions,

[05:00:07;08]

Tactical Electronic Warfare in Sea: United States Air Force Training Film, 1968

SUMMARY OF DEFENSE AROUND HANOI

[05:00:08;26]

Shot: 3 planes flying in the sky

Shot: View flying over Hanoi

Discussion of different types of radar as highlights on map of Vietnam

Shot: Dropping bombs

SUMMARY OF TACTICAL ELECTRONIC WARFARE

[05:01:17;16]

Shot: Abrasive electronic device

Explain: Tactical electronic warfare

Shot: looking out on air force base from moving vehicle

Explain: Tactical electronic warfare and aircraft used

Shot: Single plane

Discussion of Iron Hand Flight.

[05:02:16;02]

Shot: Radar jamming quads as they move towards the screen

Explain: Use

Shot: Multiple planes taking off

REASONS FOR TACTICAL ELECTRONIC WARFARE

[05:02:59;01]

Shot: Map of Hanoi

Explanation of change in hostile radar since the start of the air war

Shot: Highlighted on map as discussed

[05:03:47;27]

Shot: Planes taking off

Paraphrase famous statement: There is no guarantee an air craft flying into a hostile environment will return, but almost guaranteed an aircraft without ECM will not return.

[05:04:13;09]

Shot: Men walking out of a building

Explain: Understanding of tactical electronic warfare role is essential to successful mission accomplishment and summary of what will video will cover.

AIRBASES INVOLVED

[05:04:26;24]

Shot: Pacific Air Forces shield, camera zooms out to see building it is on

Explain: "PACAF" coordinates strikes in Southeast Asia

Shot: Building sign explaining what is located on each floor

Explain: 13th Air Force Airbase is responsible administrative and logistic support of activities operating in Thailand

[05:04:54;02]

Shot: 7th Air Force Airbase - Tan Son Nhut

Explain: Responsible for operational responsibility for air operations in Southeast Asia

PLANNING

[05:05:05;28]

Shot: Men working at desks

Explain: How 7th Air Force Commander determines which targets will be struck and how men in different government strike agencies advise decision

[05:05:31;12]

Shot: Close-up on one of the men, locating targets on map

Explain: When strike order decided, goes to Alpha, or Bravo Division and Alpha team beings preparatory orders

Shot: Close-up on map where strategy outlined

Explain: Fragmentary Orders (FRAGS) include all important data

Shot: Worker handing map to another person

Explain: Data coordinated until fit critical time schedule

INFORMATION DISTRIBUTED

[05:06:31;25]

Shot: Hands typing at a keyboard

Explain: When strike order completed, transmitted to involved organizations

Shot: Close-up on hands

Shot: Close-up on letter being typed

[05:06:40;15]

Shot: Illustrate how message distributed on map of Vietnam

BEGIN ACTIVITIES

Shot: Men walking in/out of building

Explain: When FRAG orders arrive, start variety of activities

Shot: Men working in office

Explain: Men work on mission planning

Shot: Men working in Mission Planning Room

Explain: Crews plan flights

Shot: Close-up on one soldier

Explain: Electronic Warfare Officers (EWOS) copy pertinent information

Shot: Man gets up, walks over and points to thing on map

Explain: Each aircraft assigned an orbit or route

Shot: Close-up on map

Explain: what an orbit is

[05:08:14;14]

Shot: 3 flying planes

Explain: 3 models of planes that are used

[05:08:18;16]

Shot: Close-up on soldier's face as another soldier explains strategy on map

Explain: How map describes plan

Shot: Soldier's individual map

Explain: EWOS prepare own worksheets to be used on aircraft

Shot: Compass on map, camera moves sideways and rests on strategy notes on map

Explain: Role of EB-66 aircraft

Shot: Men wrap up working in office

Explain: Mission planning complete

[05:09:43;09]

Shot: One man pointing to map as others watch

Explain: Information given at briefing

Shot: Close-up on man explaining map

Shot: Close-up on map

Shot: Men in audience

Shot: Men getting up and leaving

[05:10:24;25]

Shot: Air force grounds

Shot: Close-ups on individual aircrafts and specific parts

Explain: Specific jobs of each aircraft model and brief history and design of each

EMBARKING ON MISSION

[05:12:00;14]

Shot: Men climbing in to aircraft

Explain: Crews board plane

Shot: EB-66 Aircraft taking off

Explain: Role is to screen strike aircraft

Explain: Flying facts

[05:12:41;06]

Shot: 3 Aircraft flying

Explain: Turn on equipment to warm up

Shot: Men working on plane

Explain: In-flight checks performed

[05:12:54;02]

Shot: Two C models flying

Explain: C model can check B and E models and sync

Shot: Man working in plane

Shot: C model flying

Shot: Man working in plane

Shot: Three EB flying

Shot: Three EB flying with larger plane

Shot: One aircraft refueling by receiving fuel from another plane while in-flight

Explain: Refueling

Shot: Three EB flying with larger plane

SURVEYING RADAR

[05:13:46;28]

Shot: Close-up on radar

Explain: Begin receiving surveillance radars from North Vietnam

Explain: C-model surveys radar and B and E models begin jamming early-monitoring radars

Shot: Men working in plane

Explain: As radars come up, analyze and record

Shot: Hand recording data on chart

Shot: Close-up on man's eyes

Shot: Close-up on radar

Explain: Look-out for specific radar

Shot: Man working in plane

Explain: What they are watching for

[05:14:43;16]

Shot: Three EBs flying

Explain: Environment becomes more active

[05:14:59;00]

Shot: Man working on control panel in plane

Explain: C model coordinates B and E model jammers

Shot: Single aircraft flying

Explain: Aircraft reach individual orbits and explanation of model roles

Shot: Back end of aircraft

Explain: All three models start dispensing chap and purpose

[05:15:45;13]

Shot: Man working in the control room of aircraft

Shot: Radar screen

Explain: Before dispensing, use every type of radar

Explain: Discussion of different radar

Shot: Close-up on hand working in control room of aircraft

Shot: Close-up on radar screen

Shot: Close-up on soldier's face

Explain: Trying to get a clear picture of what's going on

[05:04:14;03]

Shot: Four aircraft flying in sync

Explain: Radar increases as aircraft reach target

Shot: Close-up on soldier's hand, zooms out to man working on controls in plane

[05:16:59;01]

Shot: Three aircraft flying, view from under the planes

Explain: All aircraft carry self-protectant jamming quads

Shot: View looking down from plane

Explain: Quads and jamming make it possible to carry out mission

Shot: Trucks being blown up, red smoke

MISSION COMPLETE

[05:17:25;10]

Shot: Three aircraft flying away
Explain: Presence and use of missiles, keep SAM and radar off-air. Then leave and Iron Hand Flight steps in.

Shot: Control room of plane
Explain: Changes in radar as return to base

[05:18:09;23]

Shot: Strike force flying
Explain: Strike force passes jamming orbit

Shot: Three aircraft (Strike Force) flying
Explain: When out of the area, being to RTV

Shot: Single aircraft
Explain: Jamming and surveillance continues

Shot: Control room of plane
Explain: Radar being used.
Explain: Job of electronic reconnaissance.

Shot: Three aircraft flying in-sync

[05:19:13;24]

Shot: Aircraft slowing down on runway
Explain: Electronic data gathered used for later missions.

INFORMATION GATHERED USED FOR LATER MISSIONS

[05:19:26;15]

Shot: Men entering building
Explain: Crews go through electronic intelligence debriefing

Shot: Men working at table
Explain: Mission reconstructed with gathered information

Shot: Close-up on two soldiers talking

Shot: Man working at control panel

Shot: Close-up on radar screen
Explain: Tape-recordings provide accurate information

Shot: Men working at table

Explain: Information recorded and have a clear picture of the mission. Tactics and techniques evaluated.

Shot: Men leaving building

Explain: Role, need for update-to-date equipment.

Shot: Plane taking off

Shot: Four aircraft flying in-sync

Explain: Repeat paraphrased quote from earlier

Shot: Fades to black screen that says "The End"