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AUTHORITY
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2^d LAAM Bn
c/c
Jan. June 70

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AUTHORITY
BY [signature] NARA DATE 1/28

HEADQUARTERS
2nd Light Antiaircraft Missile Battalion
Marine Air Control Group 38
3rd Marine Aircraft Wing, FMFPac
Twentynine Palms, California 92278

03:RKS:dlw
5750
10 July 1970

From: Commanding Officer
To: Commanding Officer, Marine Air Control Group 38

Subj: Command Chronology; submission of

Ref: (a) WgO 5750.1D
(b) GruO 5750.1A

Encl: (1) - Command Chronology for period 1 January to 30 June 1970.
(2) - Detachment Alpha, Command Chronology for period 1 January 1970 to 30 June 1970.
(3) 1st and 3rd Redeye Platoons, Command Chronology for period 1 January 1970 to 30 June 1970.

1. In accordance with references (a) and (b), enclosures (1), (2) and (3) are submitted.

L. A. Sollberger
L. A. SOLLBERGER

REF 1492181

Jan - June 1970

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HEADQUARTERS
2nd Light Antiaircraft Missile Battalion
Marine Air Control Group 38
3rd Marine Aircraft Wing, FMFPac
Twentynine Palms, California 92278

COMMAND CHRONOLOGY REPORT

1 January 1970 to 30 June 1970

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PART I

ORGANIZATIONAL DATA

1. DESIGNATION
(RUC 22960)

2nd Light Antiaircraft Missile Battalion

COMMANDER

Major H. J. BALDWIN
1 Jan 70 to 10 Jun 70
Major L. A. SOLLBERGER
11 Jun 70 to 30 Jun 70

SUBORDINATE UNITS

Detachment Alpha

Major A. D. GLAD
1 Jan 70 to 27 Feb 70
Major W. H. ALLEN Jr.
28 Feb 70 to 8 Jun 70
Major J. W. SPIVEY
9 Jun 70 to 30 Jun 70

1st Redeye Platoon

1stLt. G. M. SMITH
1 Jan 70 to 15 Jan 70
1stLt. R. E. HAMANN
16 Jan 70 to 30 Jun 70

3rd Redeye Platoon

1stLt. G. M. SMITH
1 Jan 70 to 15 Jan 70
1stLt. G. S. BUCKLIN
16 Jan 70 to 8 Apr 70
2ndLt. F. C. THOMAS
9 Apr 70 to 30 Jun 70

H&S Battery

Capt. F. H. ROBERTS
1 Jan 70 to 30 Jun 70

Sub Unit #1 of H&S

Capt. R. C. GODFREY
1 Jan 70 to 12 Apr 70
Capt. H. B. JOHNSON
13 Apr 70 to 30 Apr 70
2ndLt. D. S. HEMPHILL
1 May 70 to 30 Jun 70

Battery "A"

Capt. R. E. BALSKE
1 Jan 70 to 15 Jan 70
Capt. B. S. BOFENKAMP
16 Jan 70 to 30 Jun 70

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Battery "B"

Capt. A. O CRAVETS
 1 Jan 70 to 30 Jun 70

Battery "C"

Capt. H. B. JOHNSON
 1 Jan 70 to 5 Jan 70
 1stLt. C. W. CLARK II
 6 Jan 70 to 30 Jun 70

Battery "D"

Capt. D. L. BAGLEY
 1 Jan 70 to 12 Feb 70
 1stLt. D. J. KULIG
 13 Feb 70 to 30 Jun 70

2. LOCATION
 14 October 1968 to 30 June 1970: 2nd LAAMBN - MCB Twentynine Palms, California; Detachment Alpha 2nd LAAMBN, MCAS Yuma, Arizona.

3. STAFF OFFICERS

Battalion Executive Officer

Major K. L. SCARBOROUGH
 1 Jan 70 to 1 May 70
 Major L. A. SOLLBERGER
 2 May 70 to 10 Jun 70
 Major J. K. TAYLOR
 11 Jun 70 to 30 Jun 70

S-1 Officer

Capt. R. F. K. LINN
 1 Jan 70 to 30 Jun 70

S-2/S-3 Officer

Capt. H. J. BARBER
 1 Jan 70 to 30 Jun 70

S-4 Officer

Major F. J. SNYDER
 1 Jan 70 to 31 Jan 70
 Capt. R. E. BALSKE
 1 Feb 70 to 1 Mar 70
 1stLt. C. K. GARNER
 2 Mar 70 to 26 Jun 70
 1stLt. M. D. SHANNON
 27 Jun 70 to 30 Jun 70

Supply Officer

Major F. J. SNYDER
 1 Jan 70 to 5 Apr 70
 1stLt F. D. SETH
 6 Apr 70 to 30 Jun 70

Motor T Officer

1stLt. F. J. FALGOUT
 1 Jan 70 to 30 Jun 70

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Weapons System Maintenance Officer

Capt. C. C. SCHLEUSNER
1 Jan 70 to 30 Jun 70

Communications Officer

Capt. D. W. BLAIR
1 Jan 70 to 30 Jun 70

Detachment Alpha

S-1 Officer

Capt. R. C. GODFREY
1 Jan 70 to 9 Jun 70
CWO-2 W. F. GREEN
10 Jun 70 to 30 Jun 70

S-2/S-3 Officer

Capt. L. G. MALONE
1 Jan 70 to 28 Feb 70
Major A. D. GLAD
1 Mar 70 to 9 Jun 70
Capt. L. G. MALONE
10 Jun 70 to 30 Jun 70

S-4 Officer

Capt. D. L. WELKER
1 Jan 70 to 5 Jan 70
Capt. H. B. JOHNSON
6 Jan 70 to 12 Apr 70
1stLt. R. L. SANFORD
13 Apr 70 to 30 Jun 70

Supply Officer

Capt. D. L. WELKER
1 Jan 70 to 5 Jan 70
Capt. H. B. JOHNSON
6 Jan 70 to 12 Apr 70
1stLt. R. L. SANFORD
13 Apr 70 to 30 Jun 70

Motor T Officer

Capt R. C. GODFREY
1 Jan 70 to 19 Jun 70
1stLt R. L. SANFORD
20 Jun 70 to 30 Jun 70

Weapons System Maintenance Officer

CWO-3 J. PL HEDRICK
1 Jan 70 to 30 Jun 70

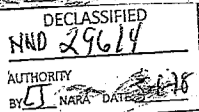
Communications Officer

Capt. L. G. MALONE
1 Jan 70 to 30 Jun 70

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4. AVERAGE MONTHLY STRENGTH

	<u>USMC</u>		<u>USN</u>		<u>OTHER</u>	
	<u>OFF</u>	<u>ENL</u>	<u>OFF</u>	<u>ENL</u>	<u>OFF</u>	<u>ENL</u>
JAN	34	768	1	16		NONE
FEB	35	783	1	16		NONE
MAR	34	766	1	17		NONE
APR	35	750	1	16		NONE
MAY	41	784	1	14		NONE
JUN	39	813	1	17		NONE



PART II

NARRATIVE SUMMARY

During the month of January 1970 2ndLAAMBn had two (2) batteries deployed in the field. Battery "C" of Detachment Alpha in Yuma deployed to Blaisdell, Arizona, for Automatic Data Link Operations with the Detachment Operations Center (OC). Toward the end of January, Battery "B" deployed to Camp Pendleton, California, to work with MACS-7 in testing the new GSA-77 in the battery BCC.

Both Redeye Platoons were attached to firing batteries during January, in an effort to enhance the training program. The 1st Redeye Platoon was attached to Battery "B" for administrative and training purposes, and the 3rd Redeye Platoon was assigned to Battery "A". 1st and 3rd Redeye Platoons also took part in Phase I of Air Control Exercise 1-70 at El Toro during the latter part of January.

On 16 January 1970, Captain B. S. BOFENKAMP assumed command of Battery "A" relieving Captain R. C. BALSKE. Captain BALSKE was subsequently re-assigned as the Battalion S-4.

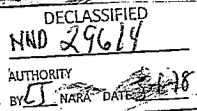
All hands of 2nd LAAMBn at MCB twentynine Palms participated in the January SNCO Parade held on the battalion grinder 23 January. Colonel T. I. GUNNING, Commanding Officer of MACG-38, was the Reviewing Officer and made the awards presentation.

During the month of February 1970, Batteries "A" and "B" participated in Automatic Data Link/Tracking exercises with MACS-7 at Camp Pendleton. Towards the middle of February, Detachment "A" at Yuma deployed as a unit to Colfred Airfield, Tacna, Arizona, for an AAWEX exercise.

The 1st and 3rd Redeye Platoons had fifteen (15) Redeye Gunners participate in the Phase II of Air Control Exercise 1-70 at Camp Pendleton in conjunction with the Fifth Marine Expeditionary Brigade Command Post Exercise, (See enclosure 3).

The Commanding General of 3rd MAW, General R. G. OWENS Jr., visited Detachment "A" at MCAS Yuma and attended the Battery "D" Change of Command and Retirement Ceremony honoring Capt. D. L. BAGLEY. Colonel T. I. GUNNING, Commanding Officer of MACG-38, visited Detachment "A" on the same day in preparation for the Commandant of the Marine Corps visit to MCAS Yuma. The Commandant visited the MACS/LAAMS Training Site (P-111) on the following day, 13 February, and was briefed as to its mission. Towards the end of February, General R. G. OWENS Jr. made a short command visit to 2nd LAAMBn at MCB 29 Palms. While he was here, he presented the Navy Commendation Medal to Major K. L. SCARBOROUGH, Executive Officer of 2nd LAAMBn. Detachment "A" held a Change of Command Ceremony for Major W. H. ALLEN who relieved Major A. D. GLAD as Detachment Officer in Charge.

In the month of March 1970, Detachment "A" deployed Battery "D" to Niland, California, in support of COMFIRSTFLT Exercise ROPEVAL 1-70. Battery "B" at 29 Palms, took part in an ECCM Exercise in the ALPHA area of MCB, 29 Palms. Battery "A" displaced for ten (10) days during the first part of the month for a tracking drill in the X-ray area of 29 Palms.



Also during this period of time Detachment "A" hosted three (3) static displays of HAWK equipment. One display was provided for the students of Kofa High School, Yuma, Arizona. Another was provided for a group of foreign officers at the request of MCAS Yuma. A third display was put on in conjunction with MCAS Yuma's Military Appreciation Day.

Towards the middle of the month, one (1) Officer and sixteen (16) enlisted personnel from the Redeye Platoon participated in Phiblex 1-70 (See enclosure 3).

It was during this month that Major A. D. GLAD assumed the duties as the new Detachment "A" S-3 Officer relieving Captain L. G. MALONE. First Lieutenant C. K. GARNER also took over as the Battalion S-4, relieving Capt. R. K. BALSKE.

In the first part of April, Battery "B" conducted an ECCM exercise from Hawk Site #1, 29 Palms, with the assistance of a Navy B-47 aircraft. Towards the middle of the month, Battery "A" displaced to Camp Pendleton to take part in MEBFEX 1-70. Battery "B" also provided one Assault Fire Unit (AFU) consisting of one (1) officer and eighteen (18) enlisted personnel, in support of MEBFEX 1-70. Meanwhile, during this same period, Battery "C" of Detachment "A" deployed to Miland, California, in support of COMFIRSTFLT Exercise ROPEVAL 2-70, (See enclosure 2). Toward the last part of April, both Battery "A" and Battery "B" displaced to Hawk Site #1 at MCB, 29 Palms, in preparation for the up-coming FIREX in May.

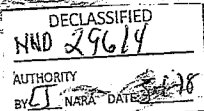
During the middle of April 1970, one (1) officer and fifteen (15) enlisted personnel from the 1st Redeye Platoon participated in MEBFEX 1-70 (See enclosure 3). Later on in April, both Redeye Platoons took part in a school held by General Dynamics Corporation. The training consisted of new techniques of firing and new tracking procedures in preparation for the LADS testing to be conducted at Yuma Proving Grounds during May and June 1970. (See enclosure 3).

On the first day of April, Lieutenant Colonel H. J. BALDWIN, the Commanding Officer of 2nd LAAM Bn was officially promoted to his present rank. A few days later Major R. J. SNYDER was relieved as Battalion Supply Officer by First Lieutenant F. D. SETH Jr.

It was also during this month that the Battalion initiated a more stringent weapons security policy. Battalion Supply personnel moved into building #1305 (armory) and established a 24 hour security watch on all weapons. Meanwhile plans were underway for the construction of a Battalion Armory in Building #1326.

During the month of May 1970, all four (4) firing batteries of 2nd LAAM Bn fired missiles in two (2) separate FIREX's. Batteries "A" and "B" participated in the Battalion FIREX at MCB, 29 Palms, Hawk Site #1 from 4 - 6 May. Six (6) missiles were successfully launched during this FIREX utilizing both the manual and automatic mode of operation. Batteries "C" and "D" of Detachment Alpha deployed to Colfred Air Strip, Tacna, Arizona, for their FIREX to be held from 18 - 21 May. Seven (7) missiles were successfully launched using both manual and automatic mode of operation. One (1) practice missile was fired in conjunction with the Raytheon Tests on the Arctic Blanket for Hawk Missiles. Both Batteries "A" and "B" also participated in the Battalion CPX held at Camp Pendleton after the Battalion FIREX. This exercise was coordinated with MABS-56.

The 1st and 3rd Redeye Platoons deployed to Yuma Proving Grounds (YPG) in Yuma, Arizona for the LADS Test to be conducted from 10 May 1970, to 30 June 1970.



The Battalion was inspected by the FMFPac Inspection Team. The general overall rating was satisfactory with minor discrepancies and some noteworthy comments. All discrepancies found were corrected or are in the process of being corrected.

Toward the end of May, Battery "A" departed for USNS San Diego to embark aboard ship for MEBLEX 1-70.

During the first part of June 1970, the Battalion held a change of command ceremony and parade prior to the departure of Lt.Col. H.J. BALDWIN. Lt.Col. BALDWIN was relieved as 2nd LAAM Bn. Commanding Officer by Major L.A. SOLLBERGER. Lt.Col. BALDWIN is slated to become the next MACG-38 S-3.

At this same time, Major J.W. SPIVEY relieved Major W.H. ALLEN Jr. as Officer in Charge of Detachment Alpha. Major ALLEN and Major A.D. GLAD were both transferred from the Detachment to new assignments.

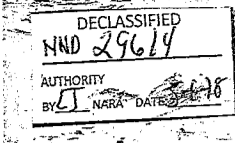
During June, Colonel T.I. GUNNING, Commanding Officer of MACG-38 paid a visit to Detachment Alpha enroute to Yuma Proving Grounds to observe the IADS Tests being conducted there. The 2nd LAAM Bn. at 29 Palms was visited later on in June by Major C.J. SMITH of the Royal Marines.

June started out with 2nd LAAM Bn. deeply involved in MEBLEX 1-70. The entire Battalion at MGB 29 Palms took part in the exercise. The MEBLEX was a tactical exercise involving an amphibious landing and aggressor actions.

During the entire month of June the 1st and 3rd Redeye Platoons continued in the IADS Test at Yuma Proving Grounds (YPG), Yuma, Arizona (see enclosure 3).

All weapons were moved into the new Battalion Armory during June. New armory procedures should be formulated by mid - July under the guidance of the Battalion armorer.

There were several awards in the month of June. The Navy Commendation Medal was presented to SSgt. J.W. AUSTIN, and the Navy Achievement Medal was awarded to CWO-2 W.F. GREEN, both of Detachment Alpha, during a Detachment formation. The month and this reporting period for the Command Chronology was brought to an end with 1stLt M.D. SHANNON becoming the new Battalion S-4 in relief of 1stLt C.K. GARNER.



PART III

SEQUENTIAL LISTING OF SIGNIFICANT EVENTS

- 15 January 1970 1st and 3rd Redeye Platoons were transferred to Battery "B" and Battery "A" respectively.
Ref: 1st and 3rd Redeye Cmd. Chron.
(enclosure 3)

- 16 January 1970 Capt. B. S. BOFENKAMP assumed command of Battery "A" relieving Capt. R. G. BALSKE.

- 19-23 January 1970 Battery "C" held an AAWEX in the Blaisdell, Arizona area.
Ref: Detachment "A" Cmd. Chron.
(enclosure 2)

- 23 January 1970 2nd LAAMBN Staff NCO Parade was held on the battalion grinder and reviewed by the Colonel T. I. GUNNING, CO of MACG-38

- 26 January 1970 Battery "B" deployed to Camp Pendleton for a training exercise with MACS-7.

- 26-31 January 1970 1st and 3rd Redeye Platoons participated in Phase I of Air Control Exercise 1-70 at El Moro.
Ref: 1st and 3rd Redeye Cmd. Chron.
(enclosure 3)

- 1-6 February 1970 Fifteen (15) Redeye Gunners from 1st and 3rd Redeye Platoons participated in Phase II of Air Control Exercise 1-70.
Ref: 1st and 3rd Redeye Cmd. Chron.
(enclosure 3)

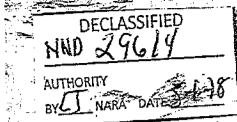
- 2-11 February 1970 Batteries "A" and "B" participated in ADL/Tracking exercise with MACS-7 at Camp Pendleton.

- 12 February 1970 The Commanding General of 3rd MAW, General R. G. OWENS Jr., visited Detachment "A".
Colonel T. I. GUNNING, Commanding Officer of MACG-38, visited Detachment "A".

- 13 February 1970 The Commandant of the Marine Corps visited the MACS/LAAMS Training Site (P-111) at MCAS Yuma.

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- 16-21 February 1970 Detachment "A" conducted an AAWEX at Colfred Airfield, Tacna, Arizona.
 Ref: Detachment "A" Cmd. Chron.
 (Enclosure 2)
- 26 February 1970 The Commanding General of 3rd MAW, General R. G. OWENS Jr., made a command visit to 2nd LAAMEN, MCB, 29 Palms.
- 27 February 1970 Major W. H. ALLEN relieved Major A. D. GLAD as Detachment Alpha Officer in Charge.
 Ref: Detachment "A" Cmd. Chron.
 (enclosure 2)
- 2 March 1970 Battery "D", Detachment "A", deployed to Miland, California, in support of COMFIRSTELT Operations ROPEVAL 1-70.
 Ref: Detachment "A" Cmd. Chron.
 (enclosure 2)
- 2-10 March 1970 Battery "A" held a tracking drill at X-ray missile tracking site, 29 Palms.
- 3 March 1970 Major A. D. GLAD assumed duties as the new Detachment "A" S-3.
- 7 March 1970 Battery "C" of Detachment "A" provided a static display in connection with Military Appreciation Day.
- 13-20 March 1970 1st Redeye Platoon participated in PHIDLEX 1-70 at Camp Pendleton.
 Ref: 1st and 3rd Redeye Cmd. Chron.
 (enclosure 3)
- 16 March 1970 Battery "D" of Detachment "A" provided a static display for students of Kofa High School, Yuma, Arizona.
- 20 March 1970 Battery "D" of Detachment "A" provided a static display for a group of foreign officers at the request of MCAS Yuma.
- 23-25 March 1970 Battery "B" conducted an MCCM exercise in the ALPHA area of MCB 29 Palms.
- 1 April 1970 Lieutenant Colonel H. J. BALDWIN, 2nd LAAMEN CC, was promoted to his present rank.
 The battalion initiated a more stringent weapons security policy.



- 6 April 1970 Battery "B" conducted an ECCM exercise from Hawk Site #1 with a Navy B-47 aircraft. Major F. J. SNYDER was relieved as Battalion Supply Officer by 1stLt. F. D. SETH Jr.
- 11-17 April 1970 Battery "A" and one (1) AFU from Battery "B" participated in the MEBFEX 1-70.
- 12-17 April 1970 1st and 3rd Redeye Platoons participated in MEBFEX 1-70. Ref: 1st and 3rd Redeye Cmd. Chron.
- 13-20 April 1970 Battery "C", Detachment "A", deployed to Niland, California, in support of COMFIRSTFLT Operation Ropeval 2-70. Ref: Detachment "A" Cmd. Chron. (enclosure 2)
- 27-30 April 1970 1st and 3rd Redeye Platoons attended a school by General Dynamics Corporation. Ref: 1st and 3rd Redeye Cmd. Chron. (enclosure 3)
- 4-6 May 1970 Battery "A" and Battery "B" participated in FIREX 1-70 at Hawk Site #1 MCB 29 Palms.
- 7 May 1970 FMFPac Inspection Team inspected 2nd LAAMBN, MCB 29 Palms.
- 10 May 1970 1st and 3rd Redeye Platoons deployed to YPG, Yuma, Arizona for LADS Tests. Ref: 1st and 3rd Redeye Cmd. Chron. (enclosure 3)
- 11-12 May 1970 Both Battery "A" and "B" took part in Battalion CPX at Camp Pendleton.
- 18-21 May 1970 Detachment "A" deployed to Colfred Air Strip, Tacna, Arizona, for FIREX 1-70. Ref: Detachment "A" Cmd. Chron. (enclosure 2)
- 27 May 1970 Battery "A" departed for USNS San Diego, to embark aboard ship for MEBLEX 1-70.
- 1-8 June 1970 2nd LAAMBN at MCB 29 Palms took part in annual MEBLEX 1-70 at Camp Pendleton.

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1-30 June 1970

1st and 3rd Redeye Platoons participated in the LADS Test project at YPG, Yuma.
Ref: 1st and 3rd Redeye Cmd. Chron.
(enclosure 3)

8 June 1970

Colonel T. I. GUNNING visited Detachment "A" enroute to LADS Test being held at YPG, Yuma.

9 June 1970

Major J. W. SPIVEY relieved Major W. H. ALLEN Jr. as Officer in Charge of Detachment "A".
Ref: Detachment "A" Cmd. Chron.
(enclosure 2)

11 June 1970

Change of Command Ceremony and Parade for the departing Lt. Col H. J. BALDWIN.

22-23 June 1970

All weapons were moved into the new Battalion Armory.

23 June 1970

Major C. J. SMITH of the Royal Marines toured the Battalion area.

26 June 1970

SSgt. J. W. AUSTIN received the Navy Commendation Medal, and CWO-2 W. F. GREEN received the Navy Achievement Medal during a Detachment "A" formation.
1stLt. C. K. GARNER was relieved as Battalion S-4 by 1stLt. M. D. SHANNON.

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PART IV

SUPPORTING DOCUMENTS

- Enclosure (2) - Detachment Alpha Cmd. Chron. for period 1 January 1970 to 30 June 1970.
- Enclosure (3) 1st and 3rd Redeye Platoons Cmd. Chron. for period 1 January 1970 to 30 June 1970.

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DETACHMENT ALPHA
2d Light Antiaircraft Missile Battalion
MACG-38, 3dMAW, FMFPac
Marine Corps Air Station
Yuma, Arizona 85364

03:JWM:jwa
5750
25 June 1970

From: Officer in Charge
To: Commanding Officer, Marine Air Control Group 38 (Attn: S-3)
Via: Commanding Officer, 2d Light Antiaircraft Missile Battalion,
MCB, Twentynine Palms, California 92278

Subj: Command Chronology for period 1 January 1970 to 30 June 1970

Ref: (a) WgO 5750.1D
(b) GruO 5750.1A

- Encl: (1) Detachment Alpha, 2d Light Antiaircraft Missile Battalion,
Command Chronology
(2) Detachment Alpha, Operation Order 1-70
(3) Detachment Alpha, Operation Order 2-70
(4) Detachment Alpha, Operation Order 3-70
(5) Detachment Alpha, Operation Order 4-70
(6) Detachment Alpha, Operation Order 5-70

1. In accordance with the provisions of references (a) and (b),
enclosures (1-6) is herewith submitted.

J. W. Spivey
J. W. SPIVEY

Det. Alpha, 2d MAW, FMFPac

Spivey - June 1970

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DETACHMENT ALPHA
2d Light Antiaircraft Missile Battalion
MACG-38, 3dMAW, FMFPac
Marine Corps Air Station
Yuma, Arizona 85364

COMMAND CHRONOLOGY

1 JANUARY 1970 TO 30 JUNE 1970

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PART I

ORGANIZATIONAL DATA

1. DESIGNATION

COMMANDER

DETACHMENT ALPHA 2d Light Antiaircraft Missile
 Battalion

Major Andrew D. Glad
 Major William H. Allen Jr.
 Major John W. Spivey

01Jan70 - 27Feb70
 28Feb70 - 08Jun70
 09Jun70 - 30Jun70

SUBORDINATE UNITS

Sub Unit#1 Headquarters & Service Battery

Captain Robert C. Godfrey
 Captain Harold B. Johnson
 Second Lieutenant Daniel S. Hemphill

01Jan70 - 12Apr70
 13Apr70 - 30Apr70
 01May70 - 30Jun70

Battery C

Captain Harold B. Johnson
 First Lieutenant Clair W. Clark II

01Jan70 - 05Jan70
 06Jan70 - 30Jun70

Battery D

Captain David L. Bagley
 First Lieutenant Douglas Kulig

01Jan70 - 12Feb70
 13Feb70 - 30Jun70

2. LOCATION

DETACHMENT ALPHA

01Jan70 - 30Jun70
 MCAS, Yuma

3. STAFF OFFICERS

S-1 Officer

Captain Robert C. Godfrey
 CWO-2 William F. Green

01Jan70 - 09Jun70
 10Jun70 - 30Jun70

S-2/3

Captain Larry G. Malone
 Major Andrew D. Glad
 Captain Larry G. Malone

01Jan70 - 28Feb70
 01Mar70 - 09Jun70
 10Jun70 - 30Jun70

S-4

Captain Daniel L. Welker
 Captain Harold B. Johnson
 First Lieutenant Raymond L. Sanford

01Jan70 - 05Jan70
 06Jan70 - 12Apr70
 13Apr70 - 30Jun70

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Supply Officer	01Jan70 - 05Jan70
Captain Daniel L. Welker	06Jan70 - 12Apr70
Captain Harold B. Johnson	13Apr70 - 30Jun70
First Lieutenant Raymond L. Sanford	
Motor Transport Officer	01Jan70 - 19Jun70
Captain Robert C. Godfrey	20Jun70 - 30Jun70
First Lieutenant Raymond L. Sanford	
Communications Officer	01Jan70 - 30Jun70
Captain Larry G. Malone	
Hawk Maintenance Officer	01Jan70 - 30Jun70
CWO-3 Joseph P. Hedrick	

4. AVERAGE MONTHLY STRENGTH

	USMC		USN		OTHER	
	OFF	ENL	OFF	ENL	OFF	ENL
Jan	11	292	1	14	0	0
Feb	11	292	1	14	0	0
Mar	11	293	1	14	0	0
Apr	11	282	1	13	0	0
May	14	300	1	13	0	0
Jun	14	291	1	13	0	0

PART II

NARRATIVE SUMMARY

1. During this period Detachment Alpha participated in two COMFIRSTFLT Operations. Battery D participated in Ropeval 1-70 during March and Battery C participated in Ropeval 2-70 during April. Both operations exercised the use of the Automatic Data Link with MACS-1 utilizing the AN/TRC-97. This network provided a system of reliable communications between the two units separated by a distance of approximately 65 miles.

Detachment Alpha deployed in February for an AAWEX. Aggressor forces were deployed against the Detachment to accomplish the necessary, basic training requirements.

3d MAW visited MCAS, Yuma with a team to provide presentations on DDIRE. Detachment Alpha attended the lectures and received a better understanding on drugs.

Two Majors and two Captains were transferred. One Captain retired. The Hughes Aircraft Field Engineer was transferred without replacement. Commencing in May and June Detachment Alpha provided personnel an equipment in support of the LADS test.

In May 1970, the Detachment deployed to Colfred Airstrip near Tacna, Arizona, for the fourth quarter FIREX. An Automatic Data Link was established with MACS-1, in passing MRDL, utilizing the AN/TRC-97 system, with the

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04 May - 30 May 70 Detachment Alpha commenced support of MCDEC's IADS test with personnel.

16 May - 30 Jun 70 Equipment was committed to the support of the IADS test.

16 May 70 Captain Harold B. Johnson transferred.

08 Jun 70 Major Andrew D. Glad transferred.

09 Jun 70 Major John W. Spivey relieved Major William H. Allen Jr. as OIC of the Detachment. Major Allen transferred.

19 Jun 70 Captain Robert C. Godfrey transferred.

PART IV

SUPPORTING DOCUMENTS

- ✓ Enclosure (2) Detachment Alpha Operations Order 1-70
- ✓ Enclosure (3) Detachment Alpha Operations Order 2-70
- ✓ Enclosure (4) Detachment Alpha Operations Order 3-70
- ✓ Enclosure (5) Detachment Alpha Operations Order 4-70
- ✓ Enclosure (6) Detachment Alpha Operations Order 5-70

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 120800T January 1970

OPERATION ORDER 4-70

Ref: (a) Maps: Fortuna Sheet 3149III 1:50,000 Series V 798
 (b) BnO 3120.1

TIME ZONE: TANGO (+7)

TASK ORGANIZATION:

Det Alpha, 2d LAAM Bn
 Battery C

Major GLAD
 Lt. CLARK

1. SITUATION

a. Enemy Forces. Reference (b)

b. Friendly Forces.

(1) Reference (b)

(2) MACS-1 will operate from their present position and provide early warning and other air defense data via Missile Battery Data Link (MBDL).

2. MISSION

Upon order Battery C (Rein) will commence tracking operations from position adjacent to Blaisdale, Arizona to implement Battery Operational training syllabus in the automatic and manual modes.

3. EXECUTION

a. Sub Unit #1. Provide logistic, communication, and administrative support as required.

b. Battery C (Rein): Upon order, displace to the area adjacent to Blaisdale, Arizona and prepare to carry out air and ground defense operations.

c. Concept of Operations.

(1) Battery C will proceed by motor convoy to the Blaisdale area, emplace and establish a MBDL and ground defense on arrival.

(2) Commence tracking operations from position to implement the Battery Operational training Syllabus in the automatic and manual modes.

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- (3) Engagement commands will be initiated by SMD Via AN/TRC.27
- (4) In the event of communications failure on the AN/TRC 27, Battery C will operate in the automomous mode of operations.
- (5) Conduct perimeter defense operations in a realistic environment.
- (6) Conduct GMS Training

d. Co-ordinating Instructions

- (1) Commanding Officer, Battery C will notify the Officer in Charge, Det Alpha, 2d LAAM Bn and S-3 of all unit movement.
- (2) Detachment S-3 will notify TACC of departure and arrival time of Battery C movements and time of commencement and termination of operations.
- (3) Commanding Officer, Battery C will submit a Post Exercise report to S-3 within three working days following the exercise.

4. ADMINISTRATION AND LOGISTICS. Annex A
(Administration and Logistics)

5. COMMAND

- a. Detachment Alpha Command Post will remain at MCAS, Yuma Arizona.

A. D. Glad

A. D. GLAD
Major U. S. Marine Corps
OIC

ANNEXES: A Administration and Logistics
B Agressor Forces Operation Order (Classified),
DISTRIBUTION: ANNEX C (Distribution) to Operation
Order 1-70

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 120800T January 1970

ANNEX A (Administration and logistics) to Operation Order 1-70

Ref: (a) Maps: Fortuna Sheet 3149III 1:50,000 Series V789
 (b) BnO 3120.1

TIME ZONE: TANGO (+7)

1. MISSION AND CONCEPT OF OPERATION (Operation Order 1-70)
2. SUMMARY STATEMENT OF LOGISTIC SUPPORT

Operating and safety levels of supply will be maintained by Battery C. The Battery Commander will control all assigned vehicles and secure additional Class I and II supplies as needed. Det. Alpha located at MCAS, Yuma, will be prepared to provide additional requirements as needed.

3. REQUIREMENTS

a. Supply

(1) Personnel to be supported:

Battery C (with drivers)	74
Communications (AM/TFC-27)	5
Messhall	7
Corpsman	1
TOTAL	87

(2) Class I:

(a) Meals

- 1 "A" Rations as required.
- 2 "C" Rations first, last and one back up meal

- (b) Water - 5 gallons per individual per day.
- (c) Ice - as required.

(3) Class II: As required to accomplish the mission.

(4) Class III: Five (5) days.

(5) Uniform: Utilities, Field jackets, rifles, belts, 1st aid pouch, AMMO pouches, canteen, bayonets, helmets, and entrenching tool, knife, fork, and spoon.

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b. Transportation

- (1) Line Hauls:
 Out: Approx. 25 miles
 In: Approx. 25 miles
- (2) Route: See Appendix 1
- (3) Transportation means:

M-36	2½	13
M-37	3/4T	1
M-38A1	¼T	1
M-543	5T	1
M-49A2	Gas Tanker	1
M-49A2	Diesel Tanker	1
M-107	Water Trailer	1
M-37	3/4T standby for contact team	1

c. Service

- (1) Maintenance of equipment:
 - (a) First and second echelon maintenance will be performed by the battery
 - (b) Third and fourth echelon maintenance will be provided by a contact team located at MCAS, Yuma, Arizona, if required.
- (2) Service units and installations required:
 - (a) Det. Alpha, MCAS, Yuma, for Class I and III water, ice, and refueling.
 - (b) Det. Alpha, MCAS, Yuma, for third and fourth echelon maintenance and supplies.
 - (c) MCAS, Yuma, for emergency helicopter evacuation.

d. Medical

- (1) Corpsman will be attached to Battery C.
- (2) The dispensary located aboard MCAS, Yuma will serve as emergency medical facility.

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- (3) Emergency helicopter evacuation will be requested by field communication to the Detachment Officer of the Day who will notify Station Search and Rescue (Ext. 2176).

4. ACTION

- a. Supply. Class I and III supplies will be maintained by the using unit in the objective area. Replenishment of those supplies will be drawn as required from MCAS, Yuma.
- b. Transportation. Transportation will be provided by Det. Motor Transport.
- c. Services. First and second echelon maintenance is inherent within the battery organization. Third and fourth echelon maintenance will be performed at the objective area by the Detachment contact team on 24 hours call from MCAS, Yuma.
- d. The use of Blaisdale Range will be restored to its original configuration when this operation is secured.
- e. Indoctrination. A DUD indoctrination will be held to All Battery Personnel Prior to Departure to the Field

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A. D. GLAD
Major U. S. Marine Corps
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TIME ZONE: TANGO (+7)

2d LAAM Bn	2
OIC, Det A, 2d LAAM Bn	1
S-3, Det A, 2d LAAM Bn	3
Battery G Less ANNEX B	3

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 MCAS YUMA, ARIZONA
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OPERATION ORDER 2-70

- Ref: (a) Maps: Tacna, Arizona, 1:24000 Sheet No AMS 3249 III NW series V 898
 (b) Battalion Order P 5000.1
 (c) Det Alpha Order P3100. (Operation SOP)

TIME ZONE: TANGO

TASK ORGANIZATION:

Det Alpha, 2d LAAM Bn
 Sub Unit #1, H&S Battery
 Battery C
 Battery D

Maj A.D. GLAD
 Capt R.C. GODFREY
 Lt. C.W. CLARK
 Lt. D. KULIG

1. SITUATION

a. Enemy Forces

- (1) During the period 16-20 February 1970 targets will simulate day and night attacks against the Colfred Airfield complex.
- (2) It is possible that attack aircraft will create an ECM environment
- (3) Unauthorized personnel may filter into the area on foot. These personnel will be questioned and escorted to Det. S-2.

b. Attachments and Detachments

- (1) Two AN/TRC-97 with teams, MACS-1, attached effective 160800T.

c. Assumption

- (1) Target presentations will be enemy aircraft.
- (2) Intelligence reports indicate enemy aggressor probe from the south.

2. MISSION

Upon order Detachment Alpha will commence Antiair Warfare and ground defense training from positions in the Colfred Air Field area.

3. EXECUTION

- a. Concept of Operation. On 16 February 1970, Detachment Alpha will proceed administratively by convoy to the Colfred Air strip area. Upon Order 16 February 1970 the Detachment will commence TSQ-57 systems checks. At 1800 16 February 1970 the Detachment will commence the Antiair Warfare exercise and be prepared to defend its position from any ground action. On or about 20 February 1970 the Detachment will return administratively by convoy to MCAS, Yuma.

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b. Sub Unit #1 H&S Battery. Deploy 16 February 1970 to the center of the south runway of Colfred Airstrip; provide administrative and logistic support as required. Provide facilities for operational control of this exercise.

c. Battery C. Deploy 16 February 1970 to the Southeast position adjacent to Colfred Airfield and prepare to commence Anti Air defense and ground defense training operations on order.

d. Battery D. Deploy 16 February 1970 to the Southwest position adjacent to Colfred Airfield and prepare to commence Anti Air defense and ground defense training operations on order.

e. Coordinating Instructions

(1) Battery commanders will submit movement reports, departure and arrival times to the Detachment Officer in Charge (Att: S-3).

(2) Battery commanders will insure that all personnel do not go further than $\frac{1}{2}$ mile south of their position. A "DUD" introduction will be presented to their personnel prior to departure from MCAS.

(3) Reports required


(a) Post Operation Report to the S-3 officer, three working days after completion of the field exercise.

4. ADMINISTRATION AND LOGISTICS

(a) Administration and Logistics. Annex A

5. COMMUNICATIONS

(a) Communications. Annex B



A. D. GLAD
Major U. S. Marine Corps
Officer in Charge

ANNEXES: A Administration and Logistics
B Communications

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Annex A (Administration and Logistics) to Operation Order 2-70

- Ref: (a) Maps: Tacna, Arizona, 1:24000 Sheet No AMS 3249 III NW Series
 V 898
 (b) Battalion Order F 5000.1
 (c) Det Alpha Order P3100. (Operation SOP)

TIME ZONE: TANGO (+7)

1. MISSION AND CONCEPT OF OPERATION (Operation Order 2-70)
2. SUMMARY STATEMENT OF LOGISTIC SUPPORT

Operation and safety levels of supply will be maintained by Det A. The Det S-4 will control all assigned vehicles and secure additional class I and III supplies as needed.

3. REQUIREMENTS

a. Supply

- (1) Personnel to be supported:

Det A 250

- (2) Class I:

(a) Meals

- 1 "A" Rations as required.
- 2 "C" Rations; First, Last and one meal back-up.

(b) Water - 5 gallons per individual per day.

(c) Ice - as required.

- (3) Class II: As required to accomplish the mission.

- (4) Class III: Five (5) days.

- (5) Uniform: Officers and SNCO'S utilities T.O. weapon, pistol belt, holster canteen, first aid packet, and helmet.

Uniform Sgts. and Below utilities, rifle, cartridge belt, holster, canteen, bayonet, two magazines, and helmet.

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b. Transportation

(1) Line Hauls:
 Out: approx. 45 miles
 In: approx. 45 miles

(2) Route: See Appendix 1

(3) Transportation means:

M-2	5T Semi	2
M-36	2 $\frac{1}{2}$ T	50
M-37	3/4T	1
M-38A1	$\frac{1}{4}$ T	8
M-543	5T	2
M-83	Radio Trk	6
M-49A2	Gas Tanker	1
M-49A2	Diesel Tanker	1
M-107	Water Trailer	4
M-37	3/4T stand by for contact team	1

c. Service

(1) Maintenance of equipment:

(a) First and second echelon maintenance will be performed by the battery.

(b) Third and fourth echelon maintenance will be provided by Detachment Alpha

(2) Service units and installations required:

- (a) MCAS, Yuma, for class III refueling, and ice.
- (b) Tacna, Arizona, for water
- (c) MCAS, Yuma, for emergency helicopter evacuation.

d. Evacuation and Hospitalization

(1) Proper supervision and extreme caution will be used to prevent heat casualties.

(2) Corpsman will be attached to each Battery and Sub Unit #1

(3) The dispensary located at MCAS, Yuma, will serve as an emergency medical facility.

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(4) Emergency Helicopter evacuation will be requested by field communication to the Detachment Officer of the Day who will notify Station Search and Rescue (Ext. 2176)

4. PROVISION OF LOGISTIC SUPPORT

- a. Supply. Class I and III supplies will be maintained by the using unit in the objective area. Replenishment of these supplies will be drawn as required from MCAS, Yuma.
- b. Transportation. Transportation will be provided by Det Motor Transport.
- c. Services. First and second echelon maintenance is inherent within the battery organization. Third and fourth echelon maintenance will be performed at the objective area.

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A. D. GLAD
Major U. S. Marine Corps
Officer in Charge

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Annex B (Communications-Electronics) to Operations Order 2-70

- References: (a) Map: (1) Tacna, Arizona 1:24000 Sheet No AMS 3249 III NW Series V:898
 (b) 3d MAR AIR WgO P 02000.4A (COI)
 (c) Battalion Order P 2000.1 (COMSOR)

TIME ZONE: TANGO

1. SITUATION

a. Friendly Forces:

- (1) Communication section provides communications for Det-A during movement to operation area.
- (2) Command Post:
 - (a) Det-A Rear 2d LAAM Bn MCAS, Yuma
 - (b) Det-A 2d LAAM Bn adjacent Colfred Air Strip, Tacna Arizona
 - (c) Subordinate Units Report CP Locations when established.

2. MISSION

Det-A communication section provide communication in support of operation 2-70

3. EXECUTION

a. Det. Radio Relay team MACS-1

- (1) MACS-1 provide 2 AN/TRC-97 Radio Relay teams and equipment. Install, operate, and maintain Radio Relay Communications between MCAS Yuma and Det-A 2d LAAM Bn vicinity Colfred Airstrip Tacna, Arizona.
- (2) (appendix-1) Wire and Radio Relay plan
- (3) (appendix-2) Radio Relay channelization.

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(b) Coordinating Instructions

(1) References (B) and (C)

(2) Wire

- a. Mountain state telephone install (1) one commercial telephone line to MACS-1 switchboard.
- b. Det-A 2d LAAM Bn provides (2) men for switchboard watch at MACS-1 MCAS Yuma.
- c. Install and maintain wire lines between AN/TRC-97 Radio Relay and MACS-1 switch board MCAS, Yuma.
- d. Install and maintain wire lines between AN/TRC-97 Radio Relay and Det-A CC.
- e. Install and maintain wire lines between AN/TRC-97 Radio Relay and CC.
- f. Provide internal wire communication Det-A CP.
- g. Appendix 1 (wire and Radio Relay plan)
- h. Appendix 2&3 (Radio Relay channelization)
- i. Appendix 4 (commercial telephone number terminating at MACS-1 switchboard 2717)

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(3) Radio Relay.

- a. Establish AN/TRC-27 Radio Relay communications between Det-A OC and Battery "C" and "D" GSA-77/BCC.
- b. Appendix 1 (wire and Radio Relay plan)
- c. Appendix 2&3 (Radio Relay channelization)

(4) Radio.

- a. Provide convoy communications as required.
- b. Establish on order logal security Radio nets Det-A H&S Battery and Battery "C" and "D".
- c. Be prepared to provide HF communications between Det-A and Det-A rear, Yuma.
- d. Be prepared to establish UHF communications with participating aircraft.
- e. Appendix 5 (Radio plan)

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(5) Batteries "C" and "D".

- a. Provide convoy communications.
- b. Install and maintain wire lines between Radio Relay AN/TRC-27 and GSA-77/BCC.
- c. Provide internal CP communications.
- d. Appendixes 2&3 (Radio Relay channelization)
- e. Appendix 5 (Radio plan)
- f. Appendix 6 (Wire hook up of GSA-77)

(6) Messenger service.

- a. Instructions for vehicular messenger service will be disseminated upon establishment of command post.
- b. Emergency helicopter messenger service and medical and Evacuation will be provided Helicopter landing in Vicinity H&S Battery CP.

(7) Visual and sound.

- a. Red smoke for actual casualty that can not be moved.
- b. Reference (b) and (c)

4. ADMINISTRATION AND LOGISTICS.

- (a) Administrative plan 2-70.
- (b) Communication repair facilities located MCAS, Yuma.
- (c) Emergency vehicular delivery of equipment for repair will be establish by Det-A communications.

A. D. Glad

A. D. Glad
Major U.S. Marine Corps
Officer in Charge

APPENDIXES:

1. Wire and Radio Relay plan
2. Radio Relay channelization AN/TRC-97
3. Radio Relay channelization AN/TRC-27
4. Commercial telephone numbers
5. Radio plan
6. Wire hook up of GSA-77

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B-3

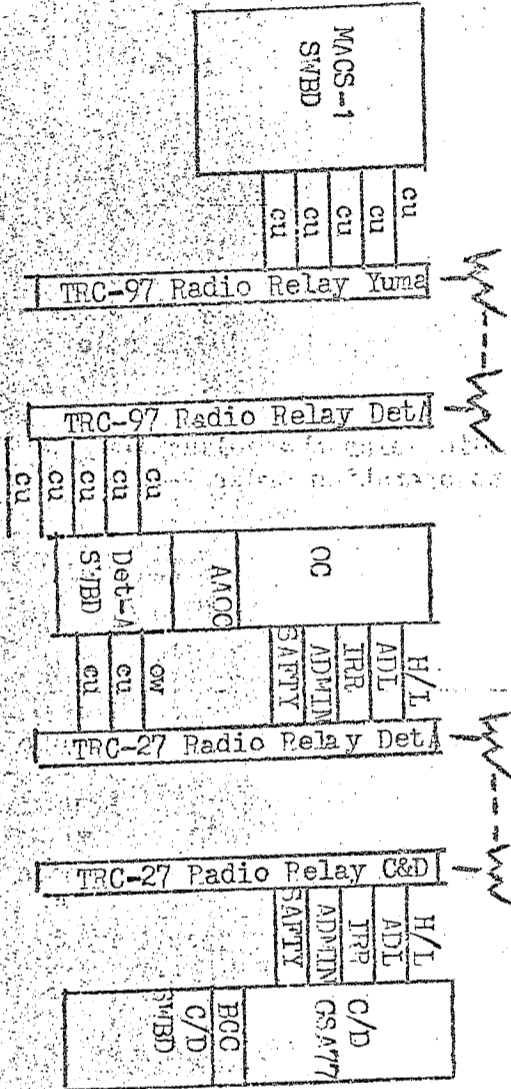
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APPENDIX 1 (Wire and Radio Relay plan) to ANNEX B (communication-electronic) to operation order 2-70. Time Zone T



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APPENDIX 2 (Radio Relay channelization) to ANNEX B (communications-Electronics) to operation order 2-70.

Time Zone: T

AN/TRC-97

CHANNEL

1	Radio Relay order wire
2	CU commercial telephone
3	CU " "
4	CU " "
5	Spare
6	"
7	"
8	"
9	"
11	"
12	"

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APPENDIX 3 (Radio Relay channelization) to APPENDIX B (communications-
Electronics) to operations order 2-70.

Time Zone: T

AN/TPC-27

CHANNEL

- 1 Radio Relay order wire
- 2 (H/L) Hot loop (Lw)
- 3 (ADI) Auto matic data link (Lw)
- 4 (IRR) Intelligence Radar Reporting (Lw)
- 5 Btry Admin (2w)
- 6 Safty (2w)
- 7 CU
- 8 CU

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APPENDIX 4 (Commercial telephone number) to ANNEX B (communications-
Electronics) to operations order 2-70.

NUMBER

1. 2717

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OPERATION ORDER 3-70

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- Ref: (a) Maps: USAF Operational Navigational Chart 1:1,000,000
Sheet No. ONCG-18
(b) COMFIRSTFLT Op Order 1-70 (C)
(c) DetO P3100.1 (Operation SOP)

TIME ZONE: TANGO (+7)

TASK ORGANIZATION:

Det. Alpha, 2d LAAMBn	Major ALLEN
Battery D	1stLt KULIG

1. SITUATION

- a. Enemy Forces. Reference (b)
- b. Friendly Forces. Annex B (Anti-Air Warfare) (C).
- c. Attachments and Detachments. One (1) AN/TRC-97 team from MACS-1, attached effective 020600 March 1970.

2. MISSION

Upon order Battery D (-)(Reinf) will commence aggressor operations from positions in the Niland, California/Chocolate Mountain Area in support of Operation ROPEVAL.

3. EXECUTION

- a. Concept of Operations. Annex B (Anti-Air Warfare) (C)
- b. Sub Unit #1. Provide logistic, communications and administrative support as required.
- c. Battery C (-)(Reinf). Upon order, displace to the Niland, California/Chocolate Mountain Area and prepare to carry out operations as outlined by references (b), and Annex B (Anti-Air Warfare) (C).
- d. Coordinating Instructions.
(1) Commanding Officer, Battery D, will notify the Officer

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in Charge, Det. Alpha, 2d LAAMPn and the S-3 of all unit movements involved during Operation ROPEVAL using the following format.

- (a) unit
 - (b) actual time of departure
 - (c) estimated time of arrival at deployment site
 - (d) number of personnel deploying
 - (e) number of vehicles in convoy
 - (f) actual time of arrival at destination
 - (g) time of ready
- (2) Detachment S-3 will notify TACC of departure and arrival times of Battery D movements and time of commencement and termination of the Operation ROPEVAL
 - (3) The SMD will submit daily SITREPS to the SAD at the TACC at 0800 (T), 1200 (T), and 1600 (T) during the operation.
 - (4) Commanding Officer, Battery D, will submit a Post Exercise report to S-3 three working days following the exercise.
 - (5) Arizona time zone TANGO (+7). California time zone UNIFORM (+7).

4. ADMINISTRATION AND LOGISTICS. Annex C (Administration and Logistics).

5. COMMAND AND COMMUNICATIONS

- a. Annex A (Command and Communications and Electronics)
- b. Detachment Alpha Command Post will remain at MCAS, Yuma, Arizona
- c. Communications will be maintained between Detachment Command Post and Battery D via HF radio, 24 hours daily.

W. H. Allen

W. H. ALLEN
Major U. S. Marine Corps
Officer in Charge

ANNEXES: A. Intelligence
B. Anti-Air Warfare (C) (NOTAL)
C. Administration and Logistics
D. Command and Communications- Electronics

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Annex A (Intelligence) to Operation Order 3-70

Ref: (a) Map: USAF Operational Navigational Chart 1:1,000,000
Sheet No. ONCG-18

(b) Map: USDI/GS Iris Wash California 1:24, 000

(c) DetO 3800.1 (Intelligence SOP)

TIME ZONE: TANGO (+7)

1. SUMMARY OF SITUATION. Annex (B) to Operation Order 3-70

2. ESSENTIAL ELEMENTS OF INFORMATION

- a. Aggressor air strength and location.
- b. Type and characteristics of aggressor aircraft.
- c. Aggressor electronic counter-measure capabilities.
- d. The above tasks are not listed as to priority.

3. INTELLIGENCE ACQUISITION TASKS

a. Orders to subordinate units.

(1) Battery D (-)(Reif)

(a) Conduct surveillance as required within zone of action.

(b) Question all unauthorized personnel entering Battery area.

b. Request to adjacent units.

(1) Commander, MACS-1. Request early warning reports of aggressor aircraft approaching Battery site in Chocolate Mountain area.

4. MEASURES FOR HANDLING PERSONNEL

a. Unauthorized personnel will be questioned and brought initially to Battery Headquarters.

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5. DOCUMENTS REQUIRED

- a. Reference (a) is designated as the standard map for this operation.
- b. Maps and charts will be issued as available.

6. COUNTERINTELLIGENCE. Appendix 2 to Annex A (Intelligence)

7. MISCELLANEOUS INSTRUCTIONS

- a. Units in contact, question and escort all unauthorized personnel to Battery Headquarters.

W. H. Allen

W. H. ALLEN
Major U. S. Marine Corps
Officer in Charge

APPENDICES:

- 1. Tactical Study of Weather and Terrain
- 2. Counterintelligence Plan
- 3. Aerological and Astronomical Data

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Appendix 1 (Tactical Study of Weather and Terrain) to Annex A
(Intelligence) to Operation Order 3-70

TIME ZONE: TANGO (+7)

1. WEATHER - Period covering 2 - 10 March 1970.
 - a. Precipitation - less than one inch
 - b. Temperature - 80 high - 50 low
 - c. Humidith - 30% - 39% night, 20% - 25% day
 - d. Wind - SSE - 8 Knts, Gusts to 25 Knts
2. TERRAIN - Sandy - gently rolling, small knolls, trafficable.

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Appendix 2 (Counterintelligence Plan) to Annex A (Intelligence) to
Operation Order 3-70

TIME ZONE: TANGO(+7)

Battery D will carry out the following continuous measures;

1. All unauthorized personnel will be processed through the Battery Commander.
2. Supervision of communications security.
3. Conduct investigation into circumstances surrounding compromise.
4. Maintain : strict and continued_ censorship when required.

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W. H. ALLEN
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Appendix 3 (Aerological and Astronomical) Data to Annex A
(Intelligence) to Operation Order 3-70

TIME ZONE: TANGO (+7)

1. ASTRONOMICAL

a.	Date	Sunrise	Sunset
	2Mar	0706	1835
	3Mar	0704	1836
	4Mar	0703	1837
	5Mar	0702	1838
	6Mar	0701	1839
	7Mar	0700	1839
	8Mar	0658	1840
	9Mar	0657	1841
	10Mar	0656	1841

2. AEROLOGICAL Clear Skies

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Annex C (Administration and Logistics) to Operation Order 3-70

- Ref: (a) Maps: USAF Operational Navigation Chart 1:1,000,000
 Sheet No. ONCG-18
 (b) Maps: USDI/GS Iris Wash California 1:24,000

TIME ZONE: TANGO (+7)

1. MISSION AND CONCEPTION OF OPERATION (Operation Order 3-70)
2. SUMMARY STATEMENT OF LOGISTIC SUPPORT

Operating and safety levels of supply will be maintained by Battery D. The Battery Commander will control all assigned vehicles and secure additional Class I and III supplies as needed. Det. Alpha located at MCAS, Yuma, will be prepared to provide additional requirements as needed.

3. REQUIREMENTS

a. Supply

(1) Personnel to be supported:

Battery D (with drivers)	65
Communications (AN/TRC-97)	3
Messhall	4
Corpsman	1
	<hr/>
	73

(2) Class I:

(a) MEALS

- 1 "A" Rations as required.
- 2 "C" Rations; 1st meal and one meal back-up.
- (b) Water - 5 gallons per individual per day.
- (c) Ice - as required.

(3) Class II: As required to accomplish the mission.

(4) Class III: Ten (10) days. accomplish the mission.

(5) Uniform: As prescribed by Battery Commander.

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b. Transportation

- (1) Line Hauls:
 Out: Approx. 100 miles
 In: Approx. 100 miles
- (2) Route: See Appendix 1.
- (3) Transportation means:

M-36	2½T	16
M-37	3/4T	1
M-38A1	¼T	1
M-543	5T	1
MRC-83	Radio Jeep	2
M-49A2	Gas Tanker	1
M-49A2	Diesel Tanker	1
M-107	Water Trailer	2
M-37	3/4T standby for contact team	1

c. Service

(1) Maintenance of equipment:

- (a) First and second echelon maintenance will be performed by the battery.
- (b) Third and fourth echelon maintenance will be provided by a contact team located at MCAS, Yuma, Airzona, if required.

(2) Service units and installations required:

- (a) Det. Alpha, MCAS, Yuma, and/or NAF, El Centro, for Class I and III, water, ice, and refueling.
- (b) Det. Alpha, MCAS, Yuma, for third and Fourth echelon maintenance and supplies.
- (c) MCAS, Yuma, for emergency helicopter evacuation.

d. Medical

- (1) Proper supervision and extreme caution will be used to prevent heat casualties.
- (2) Corpsman will be attached to Battery D.
- (3) The dispensaries located aboard MCAS, Yuma, and NAF, El Centro, will serve as emergency medical facilities.

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(4) Emergency helicopter evacuation will be requested by field communication to the Detachment Officer of the Day who will notify Station Search and Rescue (Ext. 2176).

4. ACTION

- a. Supply. Class I and III supplies will be maintained by the using unit in the objective area. Replenishment of these supplies will be drawn as required from MCAS, Yuma.
- b. Transportation. Transportation will be provided by Det. Motor Transport.
- c. Services. First and second echelon maintenance is inherent within the battery organization. Third and fourth echelon maintenance will be performed at the objective area by the Detachment contact teams on 24 hour call from MCAS, Yuma.

W. H. Allen

W. H. ALLEN
Major U. S. Marine Corps
Officer in Charge

APPENDIX:

- 1. Route Map

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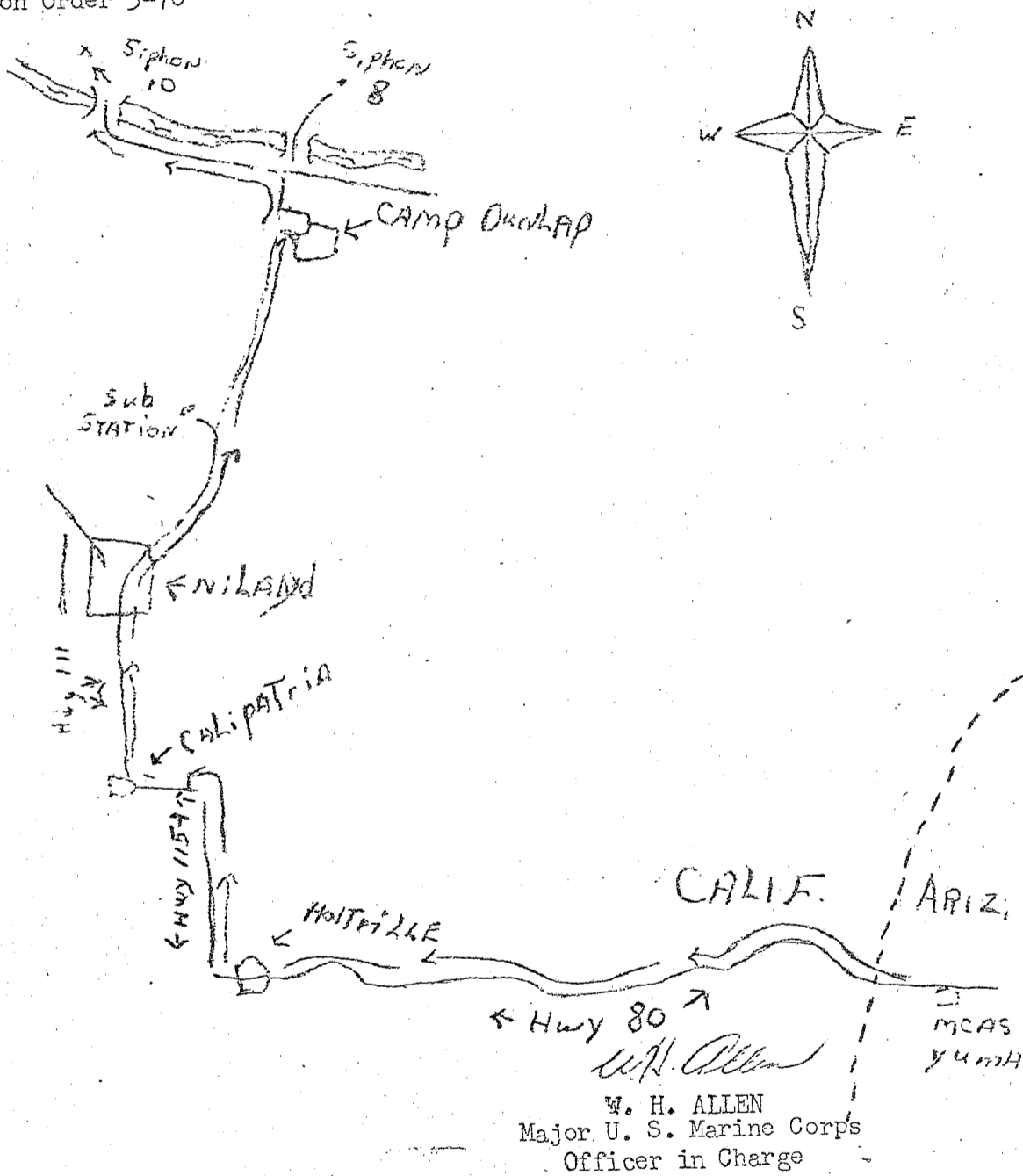
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Appendix 1 (Route Map) to Annex C (Administration & Logistics) to Operation Order 3-70



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Annex D (Communications-Electronics) to Operation Order 3-70

Ref: (a) Maps: USAF Operational Navigation Chart 1:1,000,000
Sheet No. ONCG-18

(b) BnO P2000.1 (SOP)

TIME ZONE: TANGO (+7)

1. SITUATION

a. Enemy Forces. Annex B (Anti-Air Warfare) (C) to Operation Order 3-70

b. Friendly Forces. Annex B (Anti-Air Warfare) (C) to Operation Order 3-70

c. Command Posts

(1) Det. Alpha MCAS, Yuma, Arizona

(2) Battery D Annex B

(3) MACS-1 MCAS, Yuma, Arizona

2. MISSION

Commencing on order, provided communication support for Operation ROPEVAL

3. EXECUTION

a. Communications will be in accordance with reference (b) and this order.

(1) MACS-1 provides two AN/TRC-97 radio sets with crews; installs, operates, and maintains radio relay communications between MCAS, Yuma, and Battery D.

(2) Channelization. See Appendix 1.

b. Detachment Communication Platoon

(1) Provide one HF radio circuit in standby between Det. Alpha and Battery D.

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(2) Provide ground to air communications as required by reference (b).

c. Battery D

(1) Install, operate, and maintain internal communications as required.

(2) Install and maintain wire lines from AN/TRC-97 site to appropriate Battery equipment.

(3) Provide logistic support for one AN/TRC-97 and crew.

4. ADMINISTRATION AND LOGISTICS

There will be limited 3d echelon repair for communications available at Detachment Alpha.

W. H. Allen

W. H. ALLEN
Major U. S. Marine Corps
Officer in Charge

APPENDIXES:

1. Radio Relay Channelization
2. Integrated Wire and Radio Relay Plan

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Appendix 1 (Radio Relay Channelization) to Annex D (Communications-
Electronics) to Operation Order 3-70

CHANNEL	SUBSCRIBER
1	SPARE
2	H/L 4W
3	ADL 4W
4	GSA-77
5	Admin 2W
6	SPARE
7	SPARE
8	SPARE
9	SPARE
10	SPARE
11	SPARE
12	SPARE

1	SPARE
2	H/L 4W
3	ADL 4W
4	GSA-77
5	Admin 2W
6	SPARE
7	SPARE
8	SPARE
9	SPARE
10	SPARE
11	SPARE
12	SPARE

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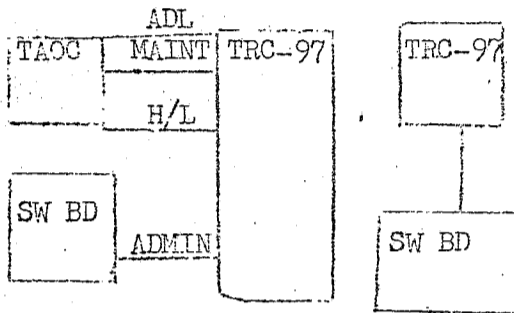
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Appendix 2 (Integrated Wire and Radio Relay Plan) to Annex D
(Communications-Electronics) to Operation Order 3-70



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OPERATION ORDER 4-70

- Ref: (a) Maps: USAF Operational Navigational Chart 1:1,000,000
 Sheet No. CMC-18
 (b) COMFIRSTFLT Op Order 301 A-(68) W/Supplement for Exercise
 Ropeval 2-70 dtd 19 March 1970
 (c) DetO F3100.1 (Operation SCP)

TIME ZONE: TANGO (+7)

TASK ORGANIZATION:

Det. Alpha, 2d IAAM Bn	Major ALLEN
Battery C	1stLt CLARK
Sub Unit 1	Capt GODFREY

1. SITUATION

- a. Enemy Forces. Reference (b)
- b. Friendly Forces. Annex B (Anti-Air Warfare)(C)
- c. Attachments and Detachments. One (1) AN/TRC-97 team from
 MACS-1, attached effective 100800 April 1970

2. MISSION

Upon Order Battery C (-)(Reinf) will commence aggressor operations from positions in the Miland, California/Chocolate Mountain Area in support of Operation ROPEVAL 2-70.

3. EXECUTION

- a. Concept of Operations. Annex B (Anti-Air Warfare)(C)
- b. Sub Unit #1. Provide logistic, communications and administrative support as required.
- c. Battery C (-)(Reinf). Upon order, displace to the Miland, California/Chocolate Mountain Area and prepare to carry out operations as outlined by references (b), and Annex B.
- d. Coordinating Instructions.

(1) Commanding Officer, Battery C, will notify the Officer

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in Charge, Det. Alpha, 2d LAAMBn and the S-3 of all unit movements involved during Operation ROPEVAL 2-70.

- (a) unit
 - (b) actual time of departure
 - (c) estimated time of arrival at deployment site
 - (d) number of personnel deploying
 - (e) number of vehicles in convoy
 - (f) actual time of arrival at destination
 - (g) time of ready
- (2) Detachment S-3 will notify TACC of departure and arrival times of Battery C movements and time of commencement and termination of the Operation ROPEVAL 2-70.
 - (3) The SMD will submit daily SITREFS to the SAD at the TACC at 0800 (T), 1200 (T), and 1600 (t) during the operation.
 - (4) Commanding Officer, Battery C, will submit a Post Exercise report to S-3 three working days following the exercise.
 - (5) Arizona time zone TANGO (+7). California time zone UNIFORM (+8).

4. ADMINISTRATION AND LOGISTICS. Annex C (Administration and Logistics).

5. COMMAND AND COMMUNICATIONS

- a. Annex A (Command and Communications and Electronics)
- b. Detachment Alpha Command Post will remain at MCAS, Yuma, Arizona
- c. Communication will be maintained between Detachment Command Post and Battery C via HF radio, 24 hours daily.

W. H. Allen Jr.
 W. H. ALLEN Jr.
 Major U. S. Marine Corps
 Officer in Charge

- ANNEXES: A. Intelligence
 B. Anti-Air Warfare (C) (NOTAL)
 C. Administration and Logistics
 D. Command and Communications-Electronics

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Annex A (Intelligence) to Operation Order 4-70

Ref: (a) Map: USAF Operational Navigational Chart 1:1,000,000
Sheet No. ONCG-18

(b) Map: USDI/GS Iris Wash California 1:24,000

(c) DetO 3800.1 (Intelligence SOP)

TIME ZONE: TANGO (+7)

1. SUMMARY OF SITUATION. Annex (B) to Operation Order 4-70.

2. ESSENTIAL ELEMENTS OF INFORMATION

- a. Aggressor air strength and location.
- b. Type and characteristics of aggressor aircraft.
- c. Aggressor electronic counter-measure capabilities.
- d. The above tasks are not listed as to priority.

3. INTELLIGENCE ACQUISITION TASKS

a. Orders to subordinate units.

(1) Battery C (-)(Reif)

(a) Conduct surveillance as required within zone of action.

(b) Question all unauthorized personnel entering Battery area.

b. Request to adjacent units.

(1) Commander, MACS-1. Request early warning reports of aggressor aircraft approaching Battery site in Chocolate Mountain area.

4. MEASURES FOR HANDLING PERSONNEL

a. Unauthorized personnel will be questioned and brought initially to Battery Headquarters.

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5. DOCUMENTS REQUIRED

a. Reference (a) is designated as the standard map for this operation.

b. Maps and charts will be issued as available.

6. COUNTERINTELLIGENCE: Appendix 2 to Annex A (Intelligence)

7. MISCELLANEOUS INSTRUCTIONS

a. Units in contact, question and escort all unauthorized personnel to Battery Headquarters.

W. H. Allen Jr.
W. H. ALLEN Jr.
Major U. S. Marine Corps
Officer in Charge

APPENDIXES:

1. Tactical Study of Weather and Terrain
2. Counterintelligence Plan
3. Aerological and Astronomical Data

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Appendix 1 (Tactical Study of Weather and Terrain) to Annex A
(Intelligence) to Operation Order 4-70

TIME ZONE: TANGO(+7)

1. WEATHER - Period covering 9 - 20 April 1970.
 - a. Precipitation - less than one inch
 - b. Temperature - 86 high - 54 low
 - c. Relative Humidity 38%
 - d. Wind - SSE - 8 Knts, Gusts to 28 Knts

TERRAIN - Sandy - gently rolling, small knolls, trafficable.

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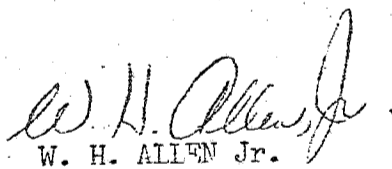
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Appendix 2 (Counterintelligence Plan) to Annex A (Intelligence) to
Operation Order 4-70

TIME ZONE: TANGO (+7)

Battery C will carry out the following continuous measures;

1. All unauthorized personnel will be processed through the Battery Commander.
2. Supervision of communications security.
3. Conduct investigation into circumstances surrounding compromise.
4. Maintain strict and continued censorship when required.



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Appendix 3 (Aerological and Astronomical) Data to Annex A
(Intelligence) to Operation Order 4-70

TIME ZONE: TANGO (+7)

1. ASTRONOMICAL

a. Date	Sunrise	Sunset
13Apr	0611	1906
14Apr	0610	1907
15Apr	0609	1908
16Apr	0608	1908
17Apr	0607	19 9
18Apr	0606	1910
19Apr	0605	1910
20Apr	0603	1911

2. AEROLOGICAL Clear Skies

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ANNEX D (Communications-Electronics) to Operation Order 4-70

- Ref: (a) Maps: USAF Operational Navigation Chart 1:1,000,000
 Sheet No. ONCG-18
 (b) 3d Marine Air WgO. PO2000.4A (COI)
 (c) BnO P2000.1 (SOP)

TIME ZONE: TANGO (+7)

1. SITUATION

- a. Enemy Forces. Annex B (Anti-Air Warfare) (C) to Operations Order 4-70
- b. Friendly Forces. Annex B (Anti-Air Warfare) (c) to Operations Order 4-70
- c. Command Posts
 - (1) Det. Alpha MCAS, Yuma, Arizona
 - (2) Battery C Annex B
 - (3) MACS-1 MCAS, Yuma, Arizona

2. MISSION

Commencing on order, Det, Radio Relay Team of MACS-1, Communication section assigned Charlie Btry, provided Communication support for Operation ROPEVAL 2-70

3. EXECUTION

- a. Communications will be in accordance with reference (b),(c) and this order.
 - (1) MACS-1 will provide two AN/TRC-97 Radio Relay Terminal sets with one (1) technician 2831 and two (2) Radio Relay Operator 2532's with each set and sufficient spare parts to keep both terminal operative. Install, operate, and maintain radio relay communications between TAOC, MCAS, Yuma and Battery "C" in vicinity Niland California.
 - (2) Channelization for AN/TRC-97 (See Appendix 1) to Operation Order 4-70
- b. Detachment Communication Platoon
 - (1) Provide HF radio circuit for convey control.

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- (2) Provide HF radio circuit between Det. Alpha and Charlie Battery C.P. in vicinity Niland California commencing at 0600 8 April 1970.
- (3) Provide ground to air communications for Charlie Battery as required.
- (4) Provide wire and personnel to MACS-1 C.P. at MCAS, Yuma to install and maintain wire lines from TAOC to AN/TRC-97.
- (5) Provide operator for 24 Hour operation.
- (6) Wire plan (See Appendix 2,3) to Operation Order 4-70.
- (7) Radio plan (See Appendix 4) to Operation Order 4-70.

c. Charlie Battery

- (1) Install, operate, and maintain internal communication as required.
- (2) Install and maintain wire lines form AN/TRC-97 site to RCC thru GSA-77.
- (3) Provide Logistic support for one AN/TPC-97 and team, and Det "A" Communication personnel.

4. ADMINISTRATION AND LOGISTICS

Limited 3d echelon repair for communications available at Detachment Alpha Bldg 460 MEAS, Yuma.

W. H. Allen Jr.
 W. H. ALLEN Jr.
 Major U. S. Marine Corps
 Officer in Charge

APPENDIXES:

- 1. Channelization AN/TRC-97
- 2. Wire plan MACS-1 MCAS, Yuma
- 3. Wire plan "C" Btry Niland California
- 4. Radio plan

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Appendix 1 (Radio Relay Channelization) to Annex D (Communications-Electronics) to Operation Order 4-70

TIME ZONE: TANGO (+7)

CHANNEL

SUBSCRIBER

1	SPARE
	ADL TX
2	ADL RX
	H/L TX
3	H/4 PX
	IBR TX
4	IBR RX
5	GRD RX 2W
6	CU
7	CU
8	CU
9	CU
10	CU
11	

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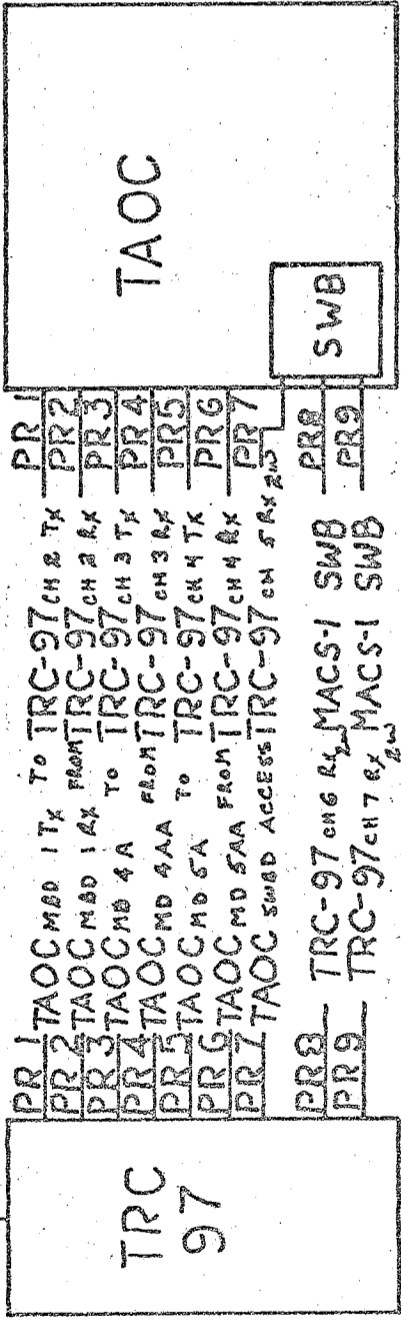
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APPENDIX 2 (Wire plan MACS-1 MCAS, Yuma) to operation order 4-70

Time Zone: T+7



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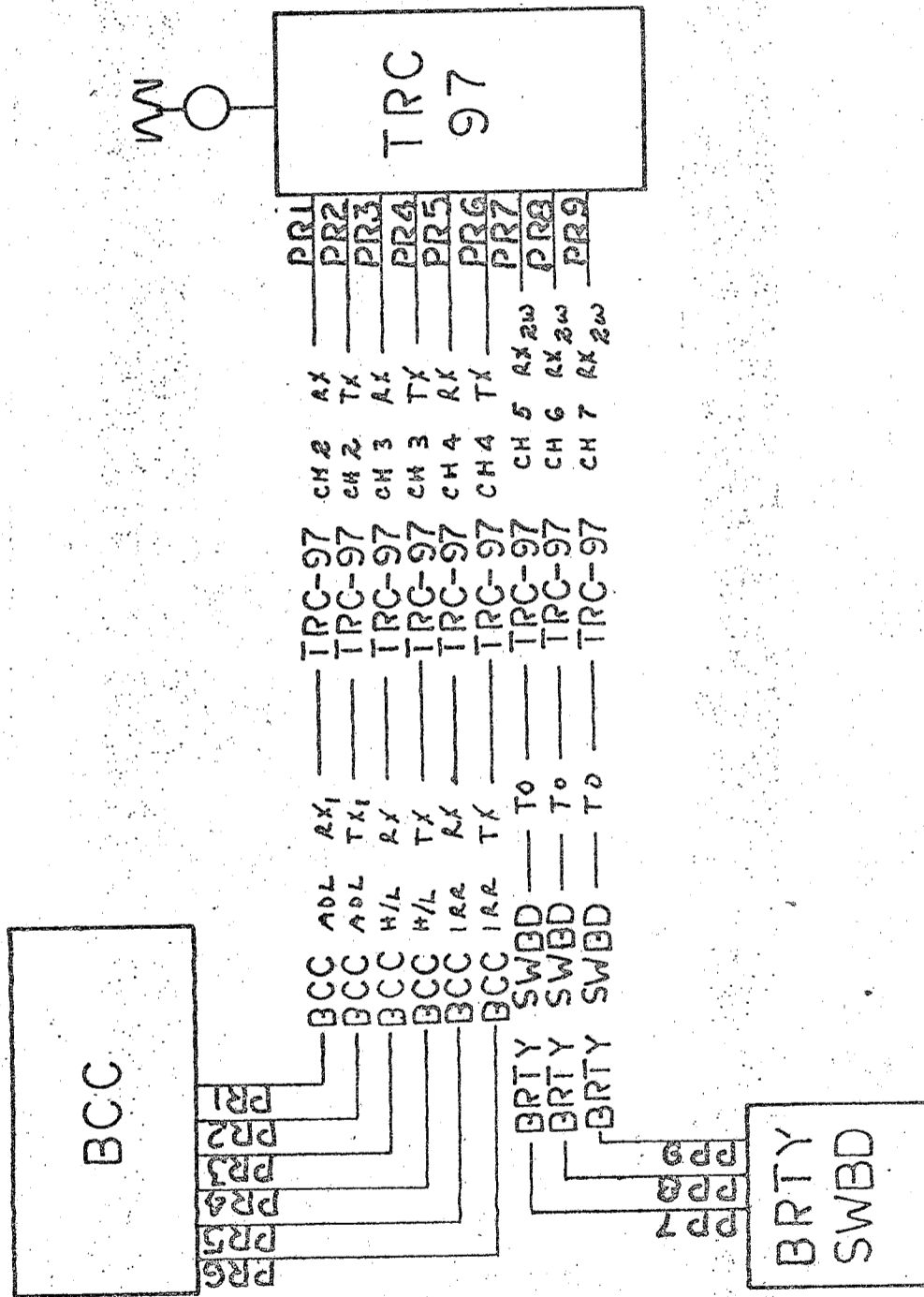
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APPENDIX 3 (Wire plan "C" Btry Niland) to operation order 4-70

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Annex C (Administration and Logistics) to Operation Order 4-70

Ref: (a) Maps: USAF Operational Navigation Chart 1:1,000,000
 Sheet No. ONCG-18
 (b) USDI/GS Iris Wash California 1:24,000

TIME ZONE: TANGO (+7)

1. MISSION AND CONCEPTION OF OPERATION (operation Order 4-70)
2. SUMMARY STATEMENT OF LOGISTIC SUPPORT

Operating safety levels of supply will be maintained by Battery C. The Battery Commander will control all assigned vehicles and secure additional Class I and III supplies as needed. Det. Alpha located at MCAS, Yuma, will be prepared to provide additional requirements as needed.

3. REQUIREMENTS

a. Supply

(1) Personnel to be supported:

Battery C (with drivers)	72
Communications (AN/TRC-97)	3
Messhall	4
Corpsman	1
	<u>80</u>

(2) Class I:

(a) MEALS

1 "A" Rations as required.

2 "C" Rations; 1st meal and one meal back-up.

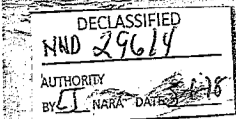
(b) Water -- 5 gallons per individual per day.

(c) Ice -- as required.

(3) Class II: As required to accomplish the mission.

(4) Class III: Seven (7) days. Accomplish the mission

(5) Uniform: As prescribed by Battery Commander.



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b. Transportation

(1) Line Hauls:

Out: Approx. 100 miles
 In: Approx. 100 miles

(2) Route: See Appendix 1

(3) Transportation means:

M-36	2 1/2 T	15
M-37	3/4 T	1
M-38A1	1/4 T	1
M-543	5	1
MRC-83	Radio Jeep	2
M-49A2	Gas Tanker	1
M-49A2	Diesel Tanker	1
M-107	Water Trailer	2
M-37	3/4 standby for contact team	1

e. Service

(1) Maintenance of equipment:

- (a) First and second echelon maintenance will be performed by the battery.
- (b) Third and fourth echelon maintenance will be provided by a contact team located at MCAS, Yuma, Arizona, if required.

(2) Service units and installations required:

- (a) Det. Alpha, MCAS, Yuma, and/or NAF, El Centro, for Class I and III, water, ice, and refueling.
- (b) Det. Alpha, MCAS, Yuma, for third and fourth echelon maintenance and supplies.
- (c) MCAS, Yuma, for emergency helicopter evacuation.

d. Medical

- (1) Proper supervision and extreme caution will be used to prevent heat casualties.
- (2) Corpsman will be attached to Battery C
- (3) The dispensaries located aboard MCAS, Yuma, and NAF, El Centro, will serve as emergency medical facilities.

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(4) Emergency helicopter evacuation will be requested by field communication to the Detachment Officer of the Day who will notify Station Search and Rescue (Ext. 2176).

4. ACTION

- a. Supply. Class I and III supplies will be maintained by the using unit in the objective area. Replenishment of these supplies will be drawn as required from MCAS, Yuma.
- b. Transportation. Transportation will be provided by Det. Motor Transport.
- c. Services. First and second echelon maintenance is inherent within the battery organization. Third and fourth echelon maintenance will be performed at the objective area by the Detachment contact teams on 24 hour call from MCAS, Yuma.

W. H. Alien, Jr.

W. H. ALIEN Jr.
Major U. S. Marine Corps
Officer in Charge

APPENDIX:

- 1. Route Map

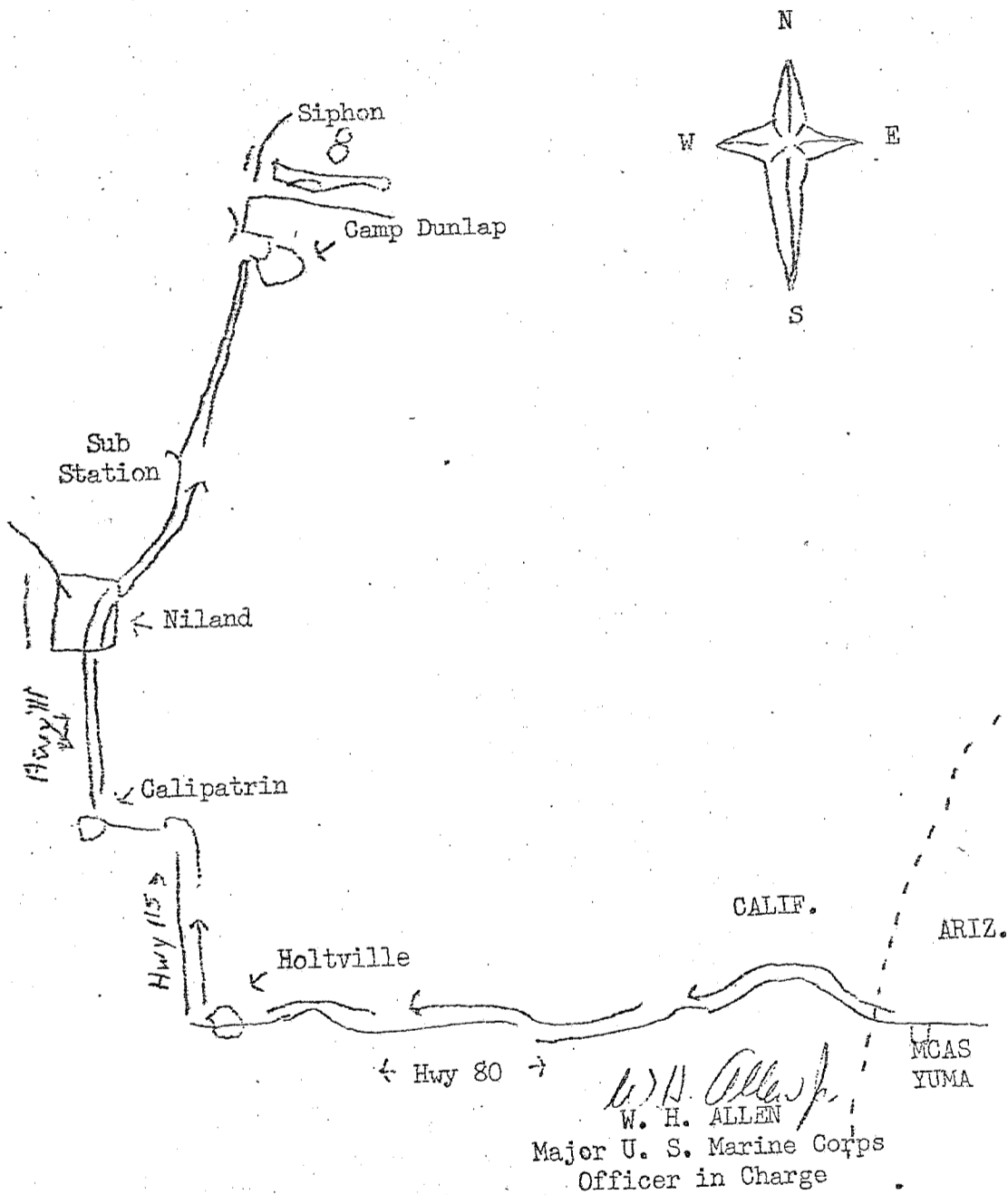
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Appendix 1 (Route Map) to Annex C (Administration & Logistics) to Operation Order



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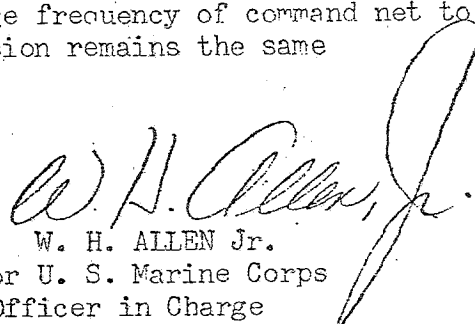
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Change # 1 (To Annex D) (Communications-Electronics) to Operation Order 4-70

- Ref: (a) Maps: USAF Operational Navigation Chart 1:1,000,000
Sheet No. ONCC-18
(b) 3d Marine Air WgO. P02000.4A (COI)
(c) BnO P2000.1 (SOF)

TIME ZONE: TANGO(+7)

APPENDIX 4 (Radio Plan) to Annex D (Communication-Electronics) to Operation Order 4-70 change frequency of command net to read 2590 vice 2418. Emission remains the same


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DETACHMENT ALPHA

2d Light Antiaircraft Missile Battalion
MACG-38, 3dMAW, FMFPac
Marine Corps Air Station
Yuma, Arizona 85364

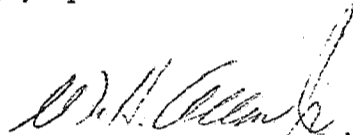
03:JWA:wwh
3100
7 April 1970

From: Officer In Charge
To: Distribution List C
MACS-1

Subj: Cancellation of Op Order 4-70

Ref: (a) COMFIRSTFLT Message 0716502

1. In accordance with reference (a) operations Order 4-70 is cancelled.


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OPERATION ORDER 5-70

- Ref: (a) Maps: El Centro 1:250000 Sheet No. N1-11-12
Ajo 1:250000 Sheet No N1-12-10
- (b) BnO 3600.1 FIREX SOP
- (c) Det Alpha Order P3600.1 (FIREX SOP)
- (d) Det Alpha Order P3100.1, (Operation SOP)

TIME ZONE: TANGO (+7)

TASK ORGANIZATION:

Det. Alpha, 2nd LAAM Bn
Sub Unit #1, H&S Battery, Det. A
"C" Battery
"D" Battery

Maj W. H. ALLEN Jr.
1stLt. D. S. HEMPHILL
1stLt. C. W. CLARK
1stLt. D. J. KILIG

1. SITUATION

a. Enemy Forces.

(1) During the period 18-22 May 1970, target will simulate day and night attack against the Colfred Airfield complex. These attacks are expected from 141 to 172 magnetic degrees from the Airfield.

(2) It is possible that attack aircraft will create an ECM environment.

(3) Unauthorized personnel may filter into the area on foot. These personnel will be questioned and escorted to Det S-2.

b. Friendly Forces. Annex A (Anti-Air Warfare)

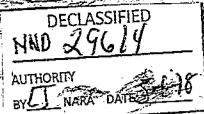
c. Attachments and Detachments.

(1) One (1) AN/TRC-97 with team, MACS-1, attached effective 110600T.

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ENCLOSURE (2)

PL IV (6)



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d. Assumption

- (1) Target presentations will be provided as required.
- (2) Target service will be provided by Fleet Composite Squadron-3 (VC-3).

2. MISSION

Detachment Alpha, Second Light Antiaircraft Missile Battalion will conduct a Hawk Missile Fire Exercise (FIREX) between 18-22 May 1970 in the area of Colfred Airstrip, Tacna, Arizona in order to improve combat readiness and to evaluate Detachment operations.

3. EXECUTION

- a. Concept of operation. Detachment Alpha elements will commence deployment on 11 May 1970 and complete emplacement prior to 1600T 14 May 1970. Upon order on 16 May 1970 Detachment operations will commence to determine system capabilities. On 18 May 1970 actual FIREX operations will commence and continue as scheduled until all allotted missiles have been fired. On or about 22 May 1970 Detachment elements will return administratively by motor march to Yuma.
- b. Sub Unit #1, H&S Battery. Deploy 11-13 May 1970 to Colfred Airstrip and provide administrative and logistic support as required. Provide facilities for operational control of FIREX.
- c. "C" Battery. Deploy 14 May 1970 to Colfred Airstrip and prepare to commence air defense training operations on order.
- d. "D" Battery. Deploy 14 May 1970 to Colfred Airstrip and prepare to commence air defense training operations on order.
- e. Coordinating Instructions.

(1) Battery Commanders will submit movement reports to the Detachment S-3 in the following format.

Time of Departure
En Route Check
Number of Vehicles
Number of personnel
Estimated Time of Arrival

(2) Operational procedures and safety requirements are set forth in Annex A and references (b), (c), and (d).

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(3) Reports required.

(a) Firing Report, Reference (d)

(b) Malfunction Report, Reference (d)

(c) After Exercise Report, Reference (d)

(d) Daily Exercise Report. A written narrative report containing a concise summary of operational capabilities, problems and result will be submitted by 0900 daily to the S-3 by the following:

(i) Battery Commanders

(ii) Hawk Maintenance

(iii) Communications

(iv) S-4 (Logistics and Services)

(v) AAOC-TAOC (SMD)

4. ADMINISTRATION AND LOGISTICS

a. Administration and Logistics. Annex B

5. COMMAND AND COMMUNICATIONS-ELECTRONICS

a. Communications. Annex C

b. Command Posts.

- (1) Detachment Alpha Colfred Airstrip, Tacna, Arizona
- (2) Sub Unit #1 Colfred Airstrip, Tacna, Arizona
- (3) "C" Battery Colfred Airstrip, Tacna, Arizona
- (4) "D" Battery Colfred Airstrip, Tacna, Arizona
- (5) Det Alpha (Rear) MCAS Yuma, Arizona

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W. H. ALLEN Jr.
Major U. S. Marine Corps
Officer in Charge

ANNEXES: A Anti-Air Warfare

B Administration and Logistics

C Communications-Electronics

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Annex A (Anti-Air Warfare) to Operation Order 5-70

- Ref: (a) Map: El Centro 1:250,000 Sheet No. N1-11-12
 Ajo 1:250,000 Sheet No. N1-12-10
 (b) BnO 3600.1 FIREX SOP
 (c) Det Alpha Order P3600.1 (FIREX SOP)

TIME ZONE TANGO (+7)

1. SITUATION

a. Enemy Forces

- (1) MQM-74A will simulate low flying attack aircraft.

b. Friendly Forces

(1) Marine Corps

- (a) MACS-1 will operate at MCAS, Yuma and will provide early warning and other air defense data from the TAOC.

- (b) MCAS, Yuma will provide helicopter emergency medical evacuation.

(2) Navy

- (a) Fleet Composite Squadron-3 (VC-3), NAS North Island, will provide MQM-74A targets.

- (3) Attachments and Detachments Raytheon HAWK Improvement Team (HIT) EL Paso, Texas will be attached to provide telemetry support for FIREX.

2. MISSION

Conduct air defense operations using the TAOC as a primary means of conducting a scheduled FIREX. Be prepared to conduct air defense operations from the AOC as primary control.

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3. EXECUTION

a. Concept of Operations

- (1) Operations will be conducted in accordance with references (b),(c),(d), and Appendix 1.
- (2) On order AAOC and BGC operations will commence using Missile Battery Data Link (MBDL) with voice-tell as back-up for the FIREX.
- (3) Integration with the TAOC will be established and evaluated prior to the first scheduled missile firing.

b. Air Support for Anti-Air Warfare

(1) General

- (a) MQM-74A targets will be used as targets for missile firing.

(2) Allocations for Anti-Air Warfare

- (a) Firing Batteries have been allotted four missiles each for conducting FIREX.
- (b) TAOC operations will be provided by MACS-1.

(3) Miscellaneous

- (a) R2301 has been cleared for FIREX operations for the period 18-22 May 1970.
- (b) Zones of fire depicted in Appendix 2.

c. AA Missile Support

(1) General

- (a) Sub Unit #1 will be located near the East-West runway of Colfred Airstrip to provide Logistic and Administrative support and control for FIREX.

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(b) Firing Batteries. Will be located on positions designated by Detachment "A" S-3 and will provide missile defense against low altitude attack aircraft.

d. Coordination Instruction

- (1) Safety is paramount.
- (2) All personnel will remain clear of R2301 at all times
- (3) Target scheduling will be in accordance with appendix 3.
- (4) All radars will be oriented to TRUE North.
- (5) All voice-tell plots will be in bearing degrees and range in miles.
- (6) Detachment S-3 will pass SITREP to TAC Center as required. Phone number 951-2428

4. ADMINISTRATION AND LOGISTICS

- a. Annex B (Administration and logistics)
- b. All control agencies will maintain a log of all operation activities to include difficulties encountered, target position upon acquisition and kill.
- c. Watch schedule will be published by Det S-3.

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5. COMMAND AND COMMUNICATIONS -ELECTRONICS

a. Annex C (Command and Communications-Electronics)

b. Agencies

TACC	MCAS, Yuma, Arizona
AAOC	Colfred Airstrip, Tacna, Arizona
"C" Battery	Colfred Airstrip, Tacna, Arizona
"D" Battery	Colfred Airstrip, Tacna, Arizona

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APPENDIXES:

1. Operational and Safety Procedures
2. Zone of Fire
3. Operations Schedule

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Appendix 1 (Operational and Safety Procedures) to Annex
 (Anti-Air Warfare) to Operation Order 5-70

- Ref: (a) Det Order 3600.1 (FIREX SOF)
 (b) TI-02343A-25/2 Explosive Malfunctions and Accident Reports
 (c) FMFFacO 8821.1A HAWK Missile Firing Reports
 (d) FMFFacO 8821.2A HAWK FIREX Reporting Procedures

TIME ZONE: TANGO (+7)

1. GENERAL CONCEPT

- A. All missile firing will be as near tactical as safety permits.
- B. The procedures set forth in this appendix may be altered only by the Detachment OIC or the Detachment S-3.

2. OPERATIONAL CONTROL

- A. Automatic Mode This will be the primary method of control with engagement commands passed to the firing batteries via Missile Battery Data Link (MBDL) from the TACC or the AACC.
 - (1) The AACC will be the control agency during missile firings at MCM-74A drone targets.
 - (2) Voice communications will be employed to supplement MBDL transmission to necessarily include the following:
 - (a) All transmissions concerning range safety.
 - (b) To command C.A.S.E. ENGAGEMENT to the batteries not assigned the track engagement.
 - (c) To confirm Telemetry check on missile.
- B. Manual Mode This will be the alternate method of control which will be employed only when the SMD designates.
 - (1) The AACC will be the manual control agency.

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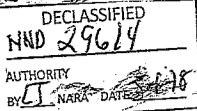
- (2) Voice communications nets will be utilized to pass all engagement commands.
- (3) Target tracking information and safety reports will be passed on the AAI net.
- (4) TCO's will keep SMD's informed on tracking/firing.
- (5) Batteries will fire one missile from the assault fire unit when directed by the SMD.

3. OPERATIONAL DUTIES

A. Detachment S-3

- (1) Supervises the conduct of the FIREX.
- (2) Is responsible for the operation of the Anti-air Operations Center (AOC).
- (3) Conducts necessary liaison with M.CS-1 to insure smooth operation of the TAOC.
- (4) Will publish AOC/TAOC watch schedule.
- (5) Insures proper target coordination.
- (6) Designates firing battery positions.
- (7) Is designated the Range Safety Officer (RSO) and as such:
 - (a) Will insure that all FIREX safety requirements are fulfilled.
 - (b) Will monitor the AAC and AAI nets during firings.
 - (c) Declares the "Range is Hot" when all safety requirements are met and the target is under positive control.
 - (d) Has authority to command any fire restriction deemed necessary.

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C. Senior Missile Director (SMD)

- (1) Control tactical operations from the TACC/AAOC.
- (2) Be responsible to the Range Safety Officer for range safety during a "Hot Run".
- (3) Be net control for the Anti-Air Command (AAC) net.
- (4) Determine the range is clear prior to commencing any engagements.
- (5) Conduct firing operations as nearly tactical as safety restrictions will permit.
- (6) Has authority to command any fire restrictions as deemed necessary.

D. Assistant Missile Director (AMD)

- (1) Assists the SMD in the conduct of firing operations and tracking exercises.
- (2) Be net control for the Anti-Air Intelligence (AAI) net.
- (3) Insure positive confirmation of range clearance from Battery Safety Officers prior to any "Hot Run".
- (4) Keep SMD informed of possible or actual intruding aircraft in firing zone.
- (5) Be designated by Det. "A" S-3.
- (6) Monitor Target Control Net in the AAOC.
- (7) Keep SMD and RSO informed of target progress.
- (8) Insure timely launch of targets.

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- (9) Monitor the AAC net.
- (10) Maintain the Missile Engagement Log.

G. Telemetry Liaison Officer

- (1) Guard the AAC net.
- (2) Position himself at the telemetry collection point.
- (3) Keep telemetry operators (TELLY), SMD, and TCO's informed of FIREM progress as required.
- (4) Confirm telemetry check with TCO as requested.

H. Detachment Visual Safety Officer

- (1) Guard the AAI/Safety net.
- (2) Be stationed on commanding terrain near the AAC.
- (3) Be equipped with binoculars and search downrange for any hazardous conditions.
- (4) Insure that range limit markers are employed as a general reference in observing the missile firing area.
- (5) Instantly appraise the RSO of any unsafe conditions.

I. Firing Battery Commanders

- (1) Be responsible for the conduct of firing operations of their respective batteries including compliance with all safety regulations.
- (2) Insure that an integrated system check is performed after arrival at the firing site.
- (3) Insure that pre-firing checks are conducted immediately prior to commencing firing operations each day.
- (4) Insure safety regulations are adhered to during missile check-out and arming.
- (5) Designate and supervise Tactical Control Officers and Battery Safety Officers.

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J. Tactical Control Officer (TCO)

- (1) Be responsible for all BCC operations during engagements .
- (2) Guard the AAC net .
- (3) Closely supervise the Firing Console Operator (FCO) .
- (4) Activate launchers only after receipt of the command "Range is Hot" .
- (5) Confirm HIPIR/Missile "lock" with telemetry as necessary .
- (6) Employ the Cease/Resume Fire Switch to control firings .
- (7) Request missile evaluation from TELLY subsequent to launcher activation. If "Missile sounds OK" is not received from TELLY, the missile will not be fired .
- (8) Command DESTRICT when it becomes apparent that the missile has gone by the target, leaves the designated firing zone, or at any time an apparent unsafe condition exists.
- (9) Insure that the range limits and firing zone are reproduced on the Tactical Command Console (TCC) and Firing Console .

K. Tactical Control Assistant (TCA)

- (1) Guard the AAI net.
- (2) Assist the TCO by plotting the target tracks on the TCC.
- (3) Immediately inform the TCO of any unsafe condition reported on the AAI net .
- (4) Pass plots of any range intruders to AMD/RSO .
- (5) Sound battery alerts as required .

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L. Battery Safety Officer (BSO)

- (1) Guard the AAI/Safety net.
- (2) Be responsible for reporting any unsafe or abnormal missile condition of function to the TCA/RSO .
- (3) Position himself during firing where he can best supervise battery safety procedures .
- (4) Set in range limit markers for use in checking missile flight and range observation .
- (5) Establish and control an internal battery safety net which will include, but is not limited to, qualified personnel stationed at:
 - (a) The Launcher Section Control Box (LSCB) .
 - (b) Visual Reconnaissance Position(s) .
 - (c) The battery event recorder .
 - (d) The target tracking Illuminator .

4. TARGET ATTACK AND MISSILE ENGAGEMENT PROCEDURES

A. Drone Targets MQM-74A

- (1) Will normally fly a track directly at the firing site. See Appendix 2 to this Annex .
- (2) Drone tracks will be monitored by the Target Coordinator .
- (3) Drone targets may be attacked when approaching or receding .

B. Normal Sequence of Events in MQM-74A Engagements

- (1) Initial range clearance check. BSO's report to RSO .
- (2) RSO informs target coordinator to have drone launched. Drone begins down range run .
- (3) Range declared "Hot". All batteries are assigned to track. TCO's assign FCO (launcher activate) and command cease fire .

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- (4) Firing sections lock on drone. SMD commands HOLD FIRE .
- (5) SMD selects battery to fire and commands all others batteries CEASE ENGAGEMENT .
- (6) RSO conducts final range clearance check and informs SMD "Range is Hot - clear to fire".
- (7) TELLY informs TCO "Missile sounds OK" .
- (8) SMD commands RESUME FIRE .
- (9) TCO acknowledges and missile is fired when drone comes in range .
- (10) FCO pushes KILL or NO KILL as appropriate .

C. Fire Restriction Commands

- (1) HOLD FIRE commands the TCO to take the following action:
 - (a) DO NOT FIRE .
 - (b) DO NOT DESTRICT MISSILES IN FLIGHT .
 - (c) CONTINUE TO TRACK .
- (2) RESUME FIRE indicates resumption of engagements and will terminate a HOLD FIRE command .
- (3) CEASE FIRE commands TCO to take following action:
 - (a) DO NOT FIRE .
 - (b) DESTRICT MISSILES IN FLIGHT .
 - (c) CEASE TRACKING .
- (4) CEASE ENGAGEMENT commands batteries not selected to fire to cease tracking and deactivate all launchers.
- (5) DESTRICT will cause all destruct buttons in all batteries to be depressed and held down for at least 10 seconds or until missile destruction is visually verified .

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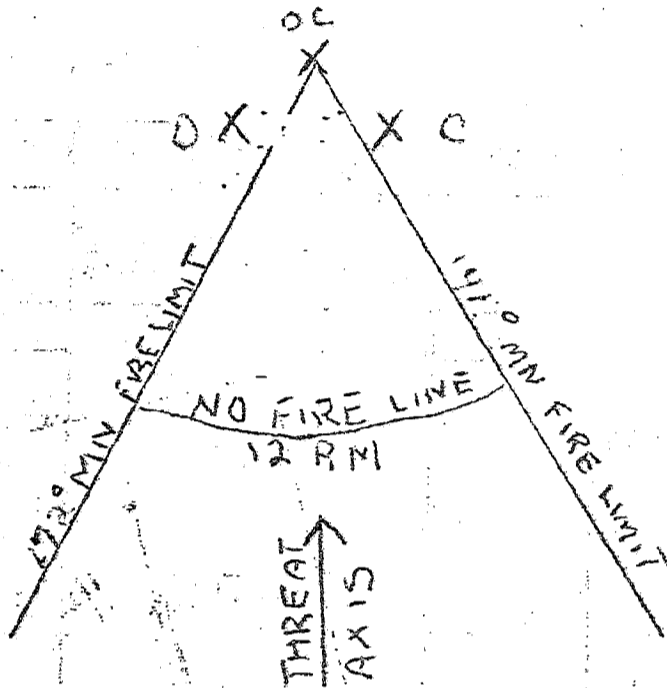
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Appendix 2 (Fire Zone) to Annex A (Anti-Air Warfare) to
Operation Order 5-70

TIME ZONE: TANGO (+7)

1. Fire zone limit.



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Appendix 3 (Operations Schedule) to Annex A (Anti-Air Warfare)
to Operation Order 5-70

Ref: None

TIME ZONE: TANGO (+7)

1. OPERATIONS SCHEDULE - ALL TIMES TANGO

a. Saturday 16 May 1970

- (1) COMEX 0700-0800
- (2) MBDL with Macs-1 0900-

b. Sunday 17 May 1970

- (1) ARM Missiles 1300-1500
- (2) COMEX/MBDL 1700-1900
- (3) Critique 1930-2000

c. Monday 18 May 1970

- (1) COMEX 0700-0800
- (2) FIREX 0800-1100
- (3) Critique 1130-1200
- (4) FIREX 1330-1600

d. Tuesday 19 May 1970

- (1) COMEX 0700-0800
- (2) FIREX 0800-1100
- (3) Critique 1130-1200
- (4) FIREX 1330-1600

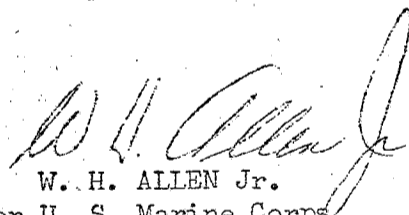
e. Wednesday 20 May 1970

- (1) COMEX 0700-0800
- (2) FIREX 0800-1100
- (3) Critique 1130-1200
- (4) FIREX 1330-1600

f. Thursday-Friday 21-22 May 1970

- (1) FIREX TRA

2. The Detachment S-3 will coordinate all operations and may alter this schedule as necessary.


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Annex B (Administration and Logistics) to Operation Order 5-70

Ref: (a) Maps: El Centro 1:250,000 Sheet No. N1-11-12
 Ajo 1:250,000 Sheet No. N1-12-10

(b) BnO 5000.1A Ch 4 (Logistics Services and Requirements)

TIME ZONE: TANGO (+7)

1. SUPPLY

a. General

- (1) All classes of supplies required are available in sufficient amounts from normal sources.
- (2) S-4 will be responsible for procurement, movement, storage, and distribution of all classes of supplies.

b. Supplies and Equipment Available

(1) Class 1

- (a) "A" rations -10 days for 2nd LAAM Bn and supporting personnel.
- (b) "C" rations will be required for all meals in the field prior to the evening meal on Wednesday, 13 May 1970. Sub Unit, #1 Battery COs and section heads will draw "C" rations for their personnel who are in the field 11 thru noon meal 13 May 1970. Requests will be turned in to Detachment Alpha S-4 by 4 May 1970.
- (c) Camp Commandant and Battery CO's will draw enough rations to supply the last meal for their units. In addition, draw one meal per man as back-up.
- (d) Water. 5 gallons per individual per day. Batteries will carry one M-107 water trailer to be utilized as the battery water supply point. Motor Transport section will carry one M-107 water trailer and the Mess Section will carry two M-107s.

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(e) Only water transported by water truck or water trailer will be consumed.

(2) Class II

(a) T/E items as required to accomplish mission.

(3) Class III

(a) All vehicles will have full fuel tanks and 5 gallon gas cans prior to motor convoy.

(b) Required lubricants will be drawn from the Motor Transport Section.

(c) Two M-49 refuelers, one diesel and one gasoline, will be on call through the S-4 to unit commanders for refueling requirements.

(4) Class IV. As required.

(5) Class V. The Detachment HAWK Maintenance Section will load missiles at 0900 8 May 1970 at Station Ordnance, and remain there until they move to the FIREX site on 11 May 1970.

(6) Medical. Appendix 1 (Medical).

(7) Maps

(a) Battery commanders will procure area maps from the S-2,

(b) Convoy route maps. Tab A to Appendix 2 (Transportation)

c. Control and Distribution

(1) Normal throughout exercise for all classes of supplies.

(2) Location of supply dumps and storage areas as designated by battery commanders and Camp Commandant.

d. Resupply

(1) All resupply will be the responsibility of and coordinated through the S-4.

(2) Resupply to unit commanders will be on a call-as-required basis.

(3) "A" rations will be procured from MCAS, Yuma.

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- (4) Water point will be at Tacna, Arizona.
- (5) Resupply of POL will be as required from MCAS, Yuma.
- 2. EVACUATION AND HOSPITALIZATION. Appendix 1 (Medical)
- 3. TRANSPORTATION. Appendix 2 (Transportation)
- 4. SERVICE
 - a. General: All maintenance of equipment and services will be performed by Detachment units except as noted herein.
 - b. Assignment of Responsibilities
 - (1) Det. Maintenance Section. Provide contact team and third echelon maintenance for surveillance radars and associated equipment as required.
 - (2) Det. HAWK Maintenance Section. Provide contact team and third and fourth echelon maintenance for all HAWK peculiar equipment as required. On-site calibration support will be provided by a team from 5th FSR on 11 through 16 May 1970.
 - (3) Det. Engineer Section
 - (a) Provide contact team as required.
 - (b) Provide support for improvement of existing emplacements and safety pits as required.
 - (4) Det. Motor Transport Section
 - (a) Provide contact team and second and third echelon maintenance for all Motor Transport equipment as required.
 - (b) Provide jeep and driver on a 24 hour basis for repair parts.
 - (5) Det. Supply Section. Provide supplies as required.
 - c. Billeting. Battery Commanders and Camp Commandant will provide billeting for all personnel in or attached to their command.

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5. PERSONNEL. Appendix 3 (Personnel)

6. MISCELLANEOUS

a. Rear echelon. Personnel required to continue essential Detachment functions and those required to maintain security of government property.

b. Uniform and Equipment. Appendix 3 (Personnel)

c. Fiscal Instructions

(1) Commuted rations for sergeants and below will be terminated for personnel in the field for 3 days or longer.

(2) Money collected and ration statements for "C" rations consumed by officers and SNCOs will be turned into Det. Supply on the first working day after the FIREX.

(3) Money collected and ration statements for "A" rations consumed by officers and SNCOs will be turned in to MCAS Messhall within 24 hours after return to MCAS, Yuma.

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W. H. ALLEN Jr.
Major U. S. Marine Corps
Officer in Charge

APPENDIXES:

- 1 Medical
- 2 Transportation
- 3 Personnel

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Appendix 1 (medical) to Annex B (Administration and Logistics) to Operation Order 5-70

Ref: (a) BnO 5000.1A Ch 4 (Logistics Service and Requirements)

TIME ZONE: TLHGO (+7)

1. ORGANIZATION

- a. Medical Officer and one corpsman establish a Aid Station at Detachment Headquarters.
- b. One Corpsman attached to each Battery.

2. MISSION

- a. To provide medical support for Detachment Alpha during the FIREX.

3. SANITATION

- a. Maximum sanitary discipline commensurate with combat conditions will be insured by all unit commanders.
- b. Only water from approved water points will be consumed.
- c. Prior to each meal, medical personnel will inspect the galley and messing facilities and report any discrepancies to the Camp Commandant.
- d. Personnel should be watchful for rattlesnakes as they do inhabit the area and are active. Available anti-venom will be on hand at the Detachment Aid Station.

4. EVACUATION AND HOSPITALIZATION

- a. All casualties requiring evacuation to MCAS, Yuma, will be evacuated by the most expeditious means.
- b. The Dispensary located at MCAS, Yuma, will serve as an emergency medical facility.
- c. An ambulance will be attached throughout the exercise and located at the Detachment Aid Station. Emergency helicopter evacuation will be available through MCAS, Yuma.

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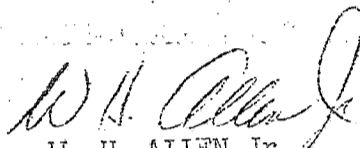
d. Emergency evacuation requests will be transmitted by field communications to Detachment Alpha (Rear) Officer of the Day, who will notify Station Search and Rescue, Ext 2176.

5. MEDICAL SUPPLIES

- a. Corpsman will carry unit 1 bags.
- b. Additional supplies will be maintained at Detachment Aid Station.

6. MEDICAL ADMINISTRATION

- a. All evacuation and casualty reports will be forwarded to the Detachment Officer In Charge



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Appendix 2 (Transportation) to Annex B (Administration and Logistics)
 to Operation Order 5-70

Ref: (a) WgO P11240.6, (SOP Motor Transportation)

1. SITUATION

- a. Enemy Forces. Operations Order 5-70
- b. Friendly Forces. Annex A (Anti-Air Warfare)
- c. Attachments and Detachments
 - (1) Eleven M-35 Trucks attached.
 - (2) Two semi-trailer (high-bed); one semi-trailer (low-bed), MACS-1, attached effective 080800 May 1970.

2. MISSION

To provide ground transportation for Det. Alpha in support of FIREX.

3. EXECUTION

- a. Concept of Operation. All supplies, equipment and personnel will be transported to the FIREX site by motor convoy. Detachment Motor Transport will provide 6x6s listed below for convoys. Batteries/sections will provide organic and attached vehicles as required.

- (1) Convoy I, (Consisting of two serials), will be formed by HMK Maintenance Missile Test Section, Det. Communications, and will depart MCAS, Yuma at 0800 and 0830 11 May 1970. The HMK Maintenance Officer will designate Convoy Commanders.

1st serial

- (a) 9 - 6x6s
- (b) 1 - M-38 w/trailer
- (c) 1 - M-37
- (d) 1 - semi/low bed
- (e) 1 - M-83
- (f) 1 - M-543

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2nd serial

- (a) 4 - 6x6s (Missions)
- (b) 1 - M-543

(2) Convoy II, (Camp Commandant is Convoy Commander) will be formed by the Camp Commandant and the Messhall. It will depart for the FIREX site at 0800 on 13 May 1970. It will include:

1st serial

- (a) 6 - 6x6s
- (b) 2 - M-38 w/trailer
- (c) 1 - MRC-83
- (d) 1 - M-543

(3) Convoy III, (HAWK Maintenance Officer to designate Convoy Commander), will be formed by HAWK Maintenance, and depart MCAS, Yuma for the FIREX site at 1300 13 May 1970 and will include:

- (a) 6 - 6x6s
- (b) 1 - M-38
- (c) 1 - semi/high bed
- (d) 1 - M-543

(4) Convoy IV (Commanding Officer Battery D is Convoy Commander), will be formed by Battery D and depart MCAS, Yuma, for the FIREX site at 0600 14 May 1970 and will include:

- (a) 15 - 6x6s
- (b) 1 - M-38 w/trailer
- (c) 1 - M-37
- (d) 1 - MRC-83
- (e) 1 - M-543

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(5) Convoy V, (Commanding Officer Battery C is Convoy Commander), will be formed by Battery C and depart MCAS, Yuma, for the FIREX site at 1400 14 May 1970 and will include:

1st serial

- (a) 15 - 6x6s
- (b) 1 - M-38 w/trailer
- (c) 1 - M-37
- (d) 1 - MRC-83
 1 - M-543

(6) Command and Communications vehicles will be designated by Convoy Commanders.

b. Briefing

(1) All Convoy Commanders from MCAS, Yuma, will be briefed by the Detachment Motor Transport Officer at 0900 6 May 1970 in the Detachment Classroom.

c. Coordinating Instructions

- (1) All vehicle movement to and from the FIREX site will be coordinated by the S-4. No vehicle will operate without a current and valid trip ticket.
- (2) Convoy routes. Tab A.
- (3) A vehicle control point will be established by the Detachment Motor Transport. All vehicles moving into or out of the FIREX site will report to the dispatcher at the control point, who will in turn notify the S-4 Officer.
- (4) Transportation will be available for A.W.C. students. Personnel requiring transportation will muster at 1615 at the S-3 tent
- (5) All vehicles returning to MCAS, will check in and out with the S-4 officer during working hours and the OCD after working hours

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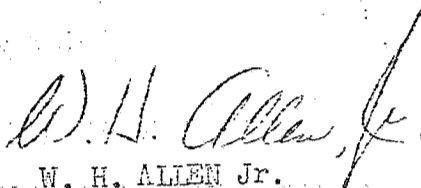
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4. ADMINISTRATION AND LOGISTICS. Annex B (Administration and Logistics)
to Operation Order 5-70

5. CONVOY CONTROL

- a. GySgt Tinseth is designated as the Convoy Control Officer.
- b. Convoy procedures will be in accordance with reference (a) and as delineated herein.
- c. Control of convoy while on the road will be by MRC-83 radios or AN/PRC-25 radios.



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T.L.B: Convoy Route

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APPENDIX 3 (Personnel) to Annex B (Administration and Logistics) to
 Operation Order 5-70

Ref: (a) MCO P5000.3, (Marine Corps Personnel Manual)

(b) WgO P5000.1, (SOP for Personnel Administrative Procedure)

TIME ZONE: TANGO (+7)

1. STRENGTHS

a. All effective Detachment Personnel will participate.

2. REPLACEMENTS - None.

3. MORALE AND PERSONNEL SERVICES

a. Leave and Liberty - Emergency leave only during exercise.

b. Information - Queries from news media or other sources concerning
 the FIREX will be referred to the Detachment CP for disposition.

c. Mail - Will be delivered by 1600 daily to Batteries/sections by
 the Detachment Mail Orderlies.

d. Divine services T.B.A.

e. Pay call T.B.A.

4. UNIFORM AND EQUIPMENT

a. Utility Uniform

b. Equipment

(1) Cartridge belt and jungle kit

(2) One canteen w/cup and cover

(3) Mountain bag w/cover and mattress

(4) Cot

(5) Helmet w/liner

(6) Knife, fork, & spoon

(7) Pan, mess kit, w/cover

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5. PERSONNEL PROCEDURES

- a. Will be in accordance with references (a) and (b).
- b. Prior to FIREX, unit commanders will check I.D. cards and tags for currency/accuracy.
- c. Casualty/injury reports will be in accordance with reference (a) and will be submitted to this Headquarters.
- d. Service records, health records, dental records and pay records will remain in the rear.

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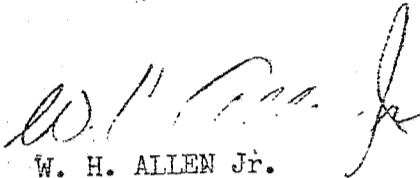
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Annex C (Communication Electronics) to Operation Order 5-70

Ref: (a) Maps: El Central 1:250,000 Sheet No. N1-11-12
 Ajo 1:250,000 Sheet No. N1-11-10

(b) 3dMWO P02000.4A (COI)

(c) BnO P2000.1 (COM SOP)

TIME ZONE: TINGO (+7)

1. SITUATION

a. Enemy Forces. Annex A (Anti-air Warfare)

b. Friendly Forces. Annex A (Anti-Air Warfare)

1. Command Posts. See Operation Order 5-70

2. MISSION.

Commencing 13 May 1970, Communications Platoon will install, operate and maintain communications in support of Operations Order 5-70

3. EXECUTION

a. Concept of Operation. An integrated wire/radio relay communications system will be the primary means of communications for voice and automatic data link (ADL) transmission. HF (SSB) will be used for coordination with Drone Control. A field telephone switchboard will be installed for internal command and administrative function.

b. Communication Platoon. Provide Communications Radio Center in vicinity of MOC at Missile Firing site.

c. Wire Section.

(1) Install and maintain wire lines between AN/TRC-97 Radio Relay, MOC, and TAO3 (Yuma)

(2) Install and maintain wire lines between AN/TRC-27 Radio Relay and MOC.

(3) Provide internal CP communications.

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(4) Install and maintain wire lines for the Safety Net between the MOC and Missile Batteries.

(5) Channelization. Appendix 4.

d. Radio Relay Section.

(1) Attached LN/TRC-97 Teams establish radio relay communications between MCAS, Yuma and Detachment Alpha (-) at Colfred Airstrip.

(2) Establish LN/TRC-27 radio relay communications between MOC and Batteries C and D.

(3) Appendix 2 and 4

e. Radio Section.

(1) Provide Convoy communications as required.

(2) Establish on order Voice Radio Communications between MOC and VC-3, Welton Arizona.

(3) Establish an Order Voice Radio Communications between Drone Launch site (VC-3) and VC-3 Control, Welton Arizona.

(4) Provide HF communication between the field and MCAS, Yuma.

(5) Radio Plan. Appendix 3

f. Batteries C and D.

(1) Provide Convoy Communications.

(2) Install and maintain wire lines between collocated Radio Relay Teams and LN-77/BC3.

(3) Provide internal CP communications.

(4) Install and maintain wire lines for the Safety Net.

h. Coordinating Instructions.

(1) References (b) and (c).

(2) Wire.

(a) Appendixes 1, 2 and 4

(b) Telephone Directory. (Issued Separate)

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(3) Radio Relay.

(a) Appendixes 1, 2 and 4.

(4) Radio.

(a) Appendixes 3.

4. ADMINISTRATION AND LOGISTICS.

Limited second echelon maintenance available in the field. Equipment failures will be evacuated through the maintenance Section to Det. A (Rear) for processing through normal channels.



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- APPENDIXES:
1. AN/TRC-97 Channelization
 2. AN/TRC-27 Channelization
 3. Radio Plan
 4. Integrated Fire and Radio Relay Plan

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Appendix 1 (AN/TRC-97 Channelization) to Annex C (Communication Electronics)
to operations Order 5-70

<u>Channel</u>	<u>Subscriber</u>
1.	Spare
2.	Hot Loop (4W)
3.	ADL (4W)
4.	IRR (4W)
5.	Safety Net (2W)
6.	Rad Rel/HAWK Maint. Coord. (2W)
7.	Admin Trunk (2W)
8.	Spare
9.	Spare
10.	Spare
11.	Spare
12.	Spare

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Appendix 2 (AN/TRC-27 Channelization) to Annex C (Communication Electronics) to Operation Order 5-70.

<u>Channel</u>	<u>Subscriber</u>
1.	Order Wire
2.	Hot Loop (4W)
3.	ADL (4W)
4.	IRR (4W) GSA-77
5.	OC/Maint (2W)
6.	Rad Rel/HAWK Maint. Coord. (2W)
7.	Spare
8.	Spare

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Appendix 3 (Radio Plan) To Annex C (Communications) to Operation Order 5-70

Legend:

- C - Control
- X - Guard
- A - As Required

Radio Nets	HF (SSB) En CMD	VC-3 CORD	A/G DISTRESS
Units	(HF) (SSB)		UHF
Det. A	C	C	X
Det. (Rear)	X		
VC-3		X C	
VC-3 A		X	

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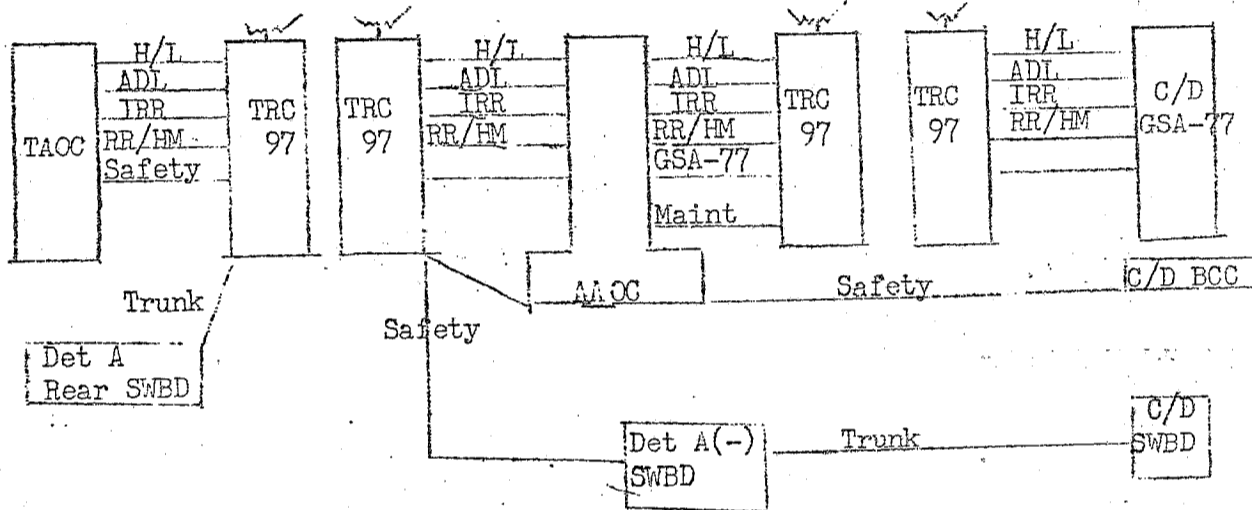
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Appendix 4 (Integrated Wire and Radio Relay Plan) to Annex C
(Communication-Electronics) to Operation Order 5-70

TIME ZONE: (+7)

Intergrated Wire and Radio Relay Plan



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1ST AND 3RD REDEYE PLATOONS
2nd Light Antiaircraft Missile Battalion
Marine Air Control Group-38
3rd Marine Aircraft Wing, FMFPac
Twentynine Palms, California 92278

REH:edt
5750
30Jun70

From: Platoon Commanders, 1st and 3rd Redeye Platoons
To: Commanding Officer, 2nd Light Antiaircraft Missile Battalion
Subj: Command Chronology for the period 01 Jan 1970 to 30 June 1970;
submission of
Ref: (a) WgO 5750.1D
(b) GruO 5750.1A
Encl: (1) Subject Report

1. In accordance with the provisions of references (a) and (b) the following Command Chronology Report is submitted as enclosure (1).

R. E. Hamann
R. E. HAMANN
1stLt USMCR

F. C. Thomas III
F. C. THOMAS III
2ndLt USMCR

1st & 3rd Redeye Platoons, 2d Lt Hamann, 30 Jun 1970

Jan - June 1970

ENCLOSURE (3)

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1ST AND 3RD REDEYE PLATOONS
2nd Light Antiaircraft Missile Battalion
Marine Air Control Group-38
3rd Marine Aircraft Wing, FMFPac
Twentynine Palms, California 92278

COMMAND CHRONOLOGY REPORT

01 Jan 1970 to 30 June 1970

INDEX

- PART I - Organizational Data
- PART II - Narrative Summary
- PART III - Sequential Listing of Significant Events

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PART II

NARRATIVE SUMMARY

On 15 January 1970 the 1st and 3rd Redeye Platoons were joined with Battery B and A, 2nd LAAMBn Bn., respectively. The platoons are under administrative control of the batteries.

During the period from 26 January 1970 to 01 February 1970, fifteen Redeye Gunners from 1st and 3rd Redeye Platoons participated in Air Control Exercise 1-70 in conjunction with Marine Expeditionary Brigade Command Post Exercises. Briefings concerning Redeye deployment and command and control procedures were given to MACG-38 personnel at MCAS, El Toro, California.

R Redeye Personnel were deployed in the vicinity of the 5th Marine Expeditionary Brigade Command Post at Camp Pendleton, California from 02 February 1970 to 06 February 1970. The deployment was in conjunction with Air Control Exercise 1-70 and was conducted primarily to provide exercise of command and control procedures for tactical air operations where Redeye is employed.

From 13 March 1970 to 20 March 1970 one officer and sixteen enlisted personnel from the 1st Redeye Platoon participated in PHIBLEX 1-70. The exercise was conducted at Camp Pendleton, California in conjunction with the 5th Marine Expeditionary Brigade. The exercise provided training in command and control procedures, communications procedures, and Redeye team deployment. Redeye teams were attached to infantry companies of the 3rd Battalion, 3rd Marines, operating as a Battalion Landing Team.

One officer and fifteen enlisted personnel from the 1st Redeye Platoon participated in MEBEEX 1-70 from 13 April 1970 to 20 April 1970. The exercise was conducted in conjunction with the Fifth Marine Expeditionary Brigade at Camp Pendleton, California. Redeye teams were attached to Infantry units of the 3rd Marine Regiment, as well as to units of 2nd LAAMBn and MACS-7. Redeye headquarters was attached to the DASC operated by Sub-Unit 1 of H&HS 38. Valuable experience in command and control procedures for Redeye employment while working with the TACC was gained.

Third Redeye Platoon personnel were at the MCB 29 Palms Rifle Range from 16 March to 27 March undergoing annual marksmanship training.

1st and 3rd Redeye platoons participated in schooling held by General Dynamics Corp from 27 April to 30 April 70. The training was held at 29 Palms and consisted of new techniques of tracking and searching methods in preparation for USMC LADS testing held at Yuma Proving Ground.

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1st and 3rd Redeye platoons participated in the Lightweight Air Defense System test project at Yuma Proving Grounds; Yuma, Arizona from 10 May - 30 June 1970. The MCDEC sponsored project is a test of man's capability of employing a man-portable lightweight air defense system in the forward aspect. The test consists, in part, of Redeye personnel detecting and tracking F-8 aircraft flown by VC-7 squadron personnel from Miramar Naval Air Station. The project has offered Redeye personnel valuable experience in detecting, tracking, and simulated engagement of high speed, high performance aircraft. Additional experience in command and control procedures was gained by extensive use of the "clock-system" method of early warning.

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PART III

SEQUENTIAL LISTING OF SIGNIFICANT EVENTS

- 15Jan70 1st and 3rd Redeye Platoons joined with Battery B and A respectively.
- 26Jan - 01Feb70 - 1st and 3rd Redeye Platoons participated in Phase I of ACE 1-70 at El Toro, Calif.
- 02Feb - 06Feb70 - 1st and 3rd Redeye participated in Phase II of ACE 1-70 at Camp Pendleton.
- 13Mar - 20Mar70 - 1st Redeye participated in PHIBLEX 1-70 at Camp Pendleton, California.
- 13Apr - 20Apr70 - 1st Redeye participated in MEBLEX 1-70 at Camp Pendleton, California.
- 16Mar - 27Mar70 - 3rd Redeye was at 29 Palms Rifle Range for Marksmanship Training.
- 27Apr - 30Apr70 - 1st and 3rd Redeye participated in schooling held by General Dynamics Corp. at 29 Palms, Calif.
- 10May - 30Jun70 - 1st and 3rd Redeye participated in MCDEC sponsored LADS test project at Yuma Proving Grounds, Yuma, Arizona.