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1 of 7~~

HEADQUARTERS
Marine Aircraft Group 11
1st Marine Aircraft Wing, FMF, Pacific
FPO, San Francisco 96601

03:CEB:hbp
5750
003101266
12 January 1966

UNCLASSIFIED

From: Commanding Officer
To: Commanding General, 1st Marine Aircraft Wing
Subj: Command Chronology, 1-31 December 1965
Ref: (a) 1stMAW Order 5750.1A

1. In accordance with reference (a), the subject report, consisting of Parts One, Two, Three and Four, is submitted.
2. Original copy only contains complete documentation.
3. This cover letter is downgraded to UNCLASSIFIED upon removal of attached report.

E. O. Anglin Jr.
E. O. ANGLIN JR.

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[REDACTED]

UNCLASSIFIED

MARINE AIRCRAFT GROUP 11

COMMAND CHRONOLOGY

PERIOD COVERED

1 DECEMBER 1965 - 31 DECEMBER 1965

LOCATION

DANANG AIR BASE

REPUBLIC OF VIETNAM

UNCLASSIFIED

[REDACTED]

PART I
ORGANIZATIONAL DATA

1-1

UNCLASSIFIED

SECRETPART IA. ORGANIZATIONAL DATAHeadquarters, Marine Aircraft Group 11

1 December - 31 December 1965

MAG-11 - DANANG, RVN

Commanding Officer

Colonel Emmett O. ANGLIN JR.

1 December - 31 December 1965

Executive Officer

Lieutenant Colonel Ralph P. MANNING

1 December - 31 December 1965

S-1 Officer

Major Ralph J. SORENSEN

1 December - 31 December 1965

S-2 Officer

Major Charles L. RODGERS

1 December - 12 December 1965

Captain Victor F. PACHECO

13 December - 31 December 1965

S-3 Officer

Lieutenant Colonel Charles E. BOSWELL

1 December - 31 December 1965

SECRET

SECRETS-4 Officer

Major Ernest J. ANDERSEN

1 December 1965 - 21 December 1965

Lieutenant Colonel Richard A. SAVAGE
22 December 1965 - 31 December 1965B. TASK ORGANIZATION - 1 December - 31 December 1965

<u>UNIT</u>	<u>LOCATION</u>	<u>COMMANDERS</u>
<u>MAG-11</u>	DANANG, RVN	Colonel Emmett C. ANGLIN JR.
<u>H&MS-11</u> <u>MBS-11</u>	DANANG, RVN DANANG, RVN	LtCol. William H. BORTZ JR. LtCol. Eddie E. PEARCY (1-10Dec65) Major Douglas A. MCCAUGHEY (11-31Dec65)
<u>VMFA-115</u> <u>VMFA-323</u> <u>VMF(AW)-312</u>	DANANG, RVN DANANG, RVN DANANG, RVN	LtCol. Clyde R. JARRETT LtCol. Andrew W. O'DONNELL LtCol. Richard B. NEWPORT (19-31Dec65)
<u>VMFA-542</u>	DANANG, RVN	LtCol. Richard A. SAVAGE (1-3Dec65)
<u>VACJ-1</u>	DANANG, RVN	LtCol. Francis C. OPEKA

C. AVERAGE STRENGTH - 1 December - 31 December 1965

Marine Aircraft Group 11	2033
Headquarters and Maintenance Squadron 11	446
Marine Air Base Squadron 11	504
Marine Fighter Attack Squadron 115	313
Marine Fighter Attack Squadron 323	322
Marine All Weather Fighter Sqdn 312	195
Marine Composite Reconnaissance Sqdn 1	253

D. IMPORTANT VISITORS.

a. During the month of December 1965, Marine Aircraft Group 11 had the following visitors:

SECRET

Honorable Robert L. F. SIKES U. S. House of Representatives
Honorable Charles S. JOELSON U. S. House of Representatives
Honorable Glen P. LIPSCOMB U. S. House of Representatives
Honorable William E. MINSHALL U. S. House of Representatives
Honorable Clarence D. LONG U. S. House of Representatives
Honorable Joseph Y. RESNICK U. S. House of Representatives
Rear Admiral James KELLY Chief of Navy Chaplains, USN
LtGen. Victor H. KRULAK CG, FMFPAC, USMC
BrigGen. Lowell E. ENGLISH. . . . ADC, 3rd Marine Division, USMC

PART II
NARRATIVE SUMMARY
OF
SIGNIFICANT HIGHLIGHTS

SECRET

PART II

SIGNIFICANT HIGHLIGHTS

1. On 1 December 1965 VMFA-323 arrived in Da Nang, RVN.
2. On 3 December 1965 VMFA-542 was relieved by VMFA-323.
3. On 6 December 1965 MAG-11 commenced operations for "STEEL TIGER" missions. Attached squadrons flew 168 sorties in 216.8 hours during the period 6-31 December 1965. A total of 15½ tons of bombs, 138 ZUNI's and 1996 2.75 FFAR's were delivered on assigned targets.
4. During 9-20 December 1965 MAG-11 squadrons participated in Operation "HARVEST MOON". A total of 205 sorties were flown in 227.2 hours. Ordnance delivered was 214½ tons of bombs, 210 ZUNI's and 418 2.75 FFAR's. See Appendix 1 for squadron breakdown.
5. On 19 December 1965 VMF(AW)-312 deployed to Da Nang AB, RVN to join MAG-11 for Combat Operations. This is the first F8 squadron deployed as part of 1st MAW, in the Republic of Viet Nam.
6. On 26 December 1965 Major C. E. SMITH, in BuNo 149190, flew the first combat F8E, TPQ-10 mission in RVN. He dropped two MK-81 bombs on assigned target.
7. On 30 December 1965 VMFA-314 advance echelon arrived at Da Nang AB, RVN. It consisted of four officers and thirty enlisted men.

PART III
SIGNIFICANT EVENTS

SECRET

PART III

SIGNIFICANT EVENTS

1. Personnel

a. Strength as of 1 December 1965: 151 Marine Corps Officers
3 U. S. Navy Officers

1,621 Marine Corps Enlisted
18 U. S. Navy Enlisted

	<u>MC OFF</u>	<u>MC ENL</u>	<u>USN OFF</u>	<u>USN ENL</u>
H&MS-11	32	405	0	0
M&BS-11	13	407	1	14
VMFA-115	30	271	1	2
VMFA-323	45	276	1	2
VMFA-542	2	40	0	0
VMCJ-1	29	222	0	0

b. Strength as of 31 December 1965: 194 Marine Corps Officers
6 U. S. Navy Officers

1,849 Marine Corps Enlisted
16 U. S. Navy Enlisted

	<u>MC OFF</u>	<u>MC ENL</u>	<u>USN OFF</u>	<u>USN ENL</u>
H&MS-11	33	421	0	0
M&BS-11	12	481	4	12
VMFA-115	42	276	1	2
VMFA-323	43	276	1	1
VMCJ-1	33	221	0	1
VMF(AW)-312	21	174	0	0

Arrivals - 130

Departures - 49 Regular rotation and Emergency leave.

Average daily strength: 1850

2. Awards

During the month of December 1965, 175 Air Medals, 1 Navy Commendation for Achievement Ribbon, 11 Navy Commendation Medals and 4 Letters of Commendation were recommended for personnel of Marine Aircraft Group 11.

3. Casualties

On 7 December 1965 Major J. H. DUNN and CWO J. W. FREDERICK were listed as missing in action. Both men are still carried on VMAF-323 rolls.

4. Civic Action

- a. The MAG-11 Medical Team visited refugee camps twice during the month and held sick call.
- b. Personnel of MAG-11 attended a luncheon with Lieutenant and Madame KHOI and participated in a Christmas party at the Tin-Lanh Private School in Da Nang. Madame KHOI is principal of the school and Lieutenant KHOI is a Logistics Officer in the Republic of South Vietnam Army. Six hundred (600) bags of candy were donated by VMU-1 for the party.

5. Morale/Welfare Programs

- a. On 31 December 1965, on behalf of the officers and men of VMAF-115, LtCol. C. R. JARRETT presented the Marine Aircraft Group-11 Chapel with a bronze bell, weighing approximately 75 pounds and inscribed as follows:

"This bell tolls for those of MAG-11 who have given their lives to insure the rights of self determination for the people of South Vietnam Given by VMAF-115 in memory of:

Captain W. J. TEBOW
 First Lieutenant W. R. GENDREYEN
 First Lieutenant J. D. McHALE
 Chief Warrant Officer 2 J. R. PETTY Jr."

- b. On 27 December 1965 VMAF-115 donated \$200.00 to the Christian Elementary School, Da Nang.
- c. MABS-11 delivered and installed playground equipment consisting of two merry-go-rounds, two see-saws, and one large swing set. The equipment was built by MABS-11 personnel and presented to the Tin-Lanh private school in Da Nang.

6. Intelligence/Counterintelligence.

a. Intelligence

- (1) During the month of December 1965 Intelligence prepared 163 mission briefs which included: terrain appreciation, enemy situation, target description, escape, evasion and survival.

- (2) On 3 December 1965 a liaison visit was made with the unit responsible for "FRESH BREEZE" (Escape and Evasion information LAOS) at Udorn AFB, Thailand.
- (3) On 13 December 1965 an intelligence indoctrination lecture was presented to the officers and men of VAF(AW)-312; the following subjects were covered: ground order of battle USMC TACOR, recap of VC incidents from July to present date.
- (4) On 26 December 1965 a special Escape and Evasion briefing was presented to the MAG-11 officers covering the area of operations.

b. Counterintelligence

- (1) On 2 December 1965 an investigation was initiated through MSS (Vietnamese Counterintelligence) and M/F Industrial Relations on Mrs. PHAM THI AN for clearance to operate laundry service in the MAG-11 cantonment.
- (2) On 8 December 1965 Group Order 5512.1 (Visitor Control Bill) was published. (See Appendix 2)
- (3) On 23 December 1965 a Vietnamese boy living in the village adjacent to the MAG-11 cantonment turned over to Intelligence personnel a U. S. Fragmentation grenade.

7. Electronic Countermeasures

- a. During the period VMCG-1 RF-103 aircraft conducted electronic counter measures against AAA AND SA-2 fire control radars in North Vietnam. Forty-five (45) sorties were flown in support of the 7th Fleet.
- b. In addition to the above missions, fourteen (14) "Iron Hand" ELINT sorties in North Vietnam and five (5) ELINT missions in South Vietnam were conducted for the location and collection of AAA and SA-2 fire control radar emissions.

8. Photo

- a. VMCG-1 RF-8A aircraft flew sixty nine (69) in-country photographic reconnaissance missions in support of III MAF, and VMCG-1 Detachment ALPHA aboard the USS BON HOMME RICHARD (CVA-31) flew fourteen (14) photo sorties during December 1965.

9. Air Operations

a. The VMFA squadrons consisting of VMFA-115, VMFA-323, VMF(AW)-312 and VMFA-542 (up to 3Dec65), compiled a total of 1030 sorties during 1244.8 hours of flight.

b. These sorties were flown in support of:

I Corps	76 Missions	205 Sorties
II Corps	20 Missions	68 Sorties
III MAF	341 Missions	515 Sorties
2d AirDiv	84 Missions	242 Sorties

c. The following tasks were performed:

807 Interdiction	12 Landing Zone Prep
69 Helicopter Escort	19 Air Cover
61 Aircraft Escort	1 Airborne Alert
9 Air Defense	2 RESCAP
6 Close Air Support	2 GCI
13 Direct Air Support	27 Test
9 Administrative	

d. See paragraphs 7 and 8 above for VMCF-1 flight information.

e. Confirmed damage assessments included:

(1) Damaged: Fifty-two (52) structures, two (2) trench lines, two (2) automatic weapons, six (6) gun positions, two (2) bridges, one (1) bunker and two (2) boats.

(2) Destroyed: Two hundred fifty-two (252) structures, seventy (70) trench lines, thirteen (13) automatic weapons, six (6) gun positions, four (4) bridges, one (1) cave, five (5) bunkers, three (3) boats and one (1) rice field.

(3) Killed by Aircraft: Fifteen (15) known VC KBA.

(4) Other: One (1) road cratered and eight (8) secondary explosions observed.

f. The VMFA squadrons delivered a total of 1,030 tons of bombs on assigned targets during the period. The following is a breakdown by type:

28 - AN/M 57	2,309 - MK 82
176 - MK 77	650 - ZUNI's
56 - MK 79	3,590 - 2.75 FFAR's
2,208 - MK 81	11,400 - 20 MM Rounds

- g. During December two (2) aircraft were maintained on 15 minute ground alert status from 0700 to 1900 daily, and two on 30 minute alert status at all times. In addition to the above, two (2) aircraft were maintained on Base Defense alert when intelligence reports indicated an attack was probable; these aircraft were maintained on the same alert status as those listed above. During the month, the ground alert aircraft were scrambled 86 times for a total of 171 sorties. Scrambles were in support of III MAF and Republic of Vietnam Forces. Although the primary mission assigned to these aircraft was to be prepared for air-to-ground operations, they were also configured for air-to-air operations.
- h. On 30 December 1965 a helicopter escort alert was activated utilizing F8E aircraft. Two (2) aircraft are maintained on 15 minute strip alert to be responsive to unscheduled helicopter requirements between 0700-1900 daily.

10. Air Defense

- a. The air defense aircraft were scrambled five (5) times for a total of ten (10) sorties.
- b. Eight (8) of the sorties were intercepts of "Hot Tracks" which were identified as friendly aircraft. Two (2) sorties were recalled before intercept.

11. Special Operations

- a. M/G-11 aircraft flew 168 sorties in 216.8 hours in support of "Steel Tiger" missions.
- b. See Appendix 1 for information on Operation "Harvest Moon".

12. Ground Defense

- a. Group Order 03440.21 (Ground Defense and Internal Security) was published on 3 December 1965. See Appendix 3.

13. Command Relationship/Command Control

- a. On 1 December 1965 VMFA-323 reported for Operational control to M/G-11.
- b. On 3 December 1965 VMFA-542 reported for Operational control to M/G-13.
- c. On 19 December 1965 VMF(AW)-312 reported for Operational control to M/G-11.

14. NBC Warfare

- a. Group Order 3440.1H (NBC SOP) was published on 18Dec65. See Appendix 4.

15. Training

- a. Units of this Command continue training in; area indoctrination, escape and evasion, ground defense, weapons familiarization firing and on the job training.
- b. Quotas for Embarkation School have been received from 1st MAW. These quotas have been filled.

16. Logistics

- a. The advance echelon of VMF(AW)-312 arrived on 19 December 1965.

17. Supply

- a. No remarks.

18. Motor Transport

- a. During this reporting period fourteen (14) vehicles (Jeeps) were received to supplement this organizations thirty-two (32) Cerlists. Wing G-4 has directed that fourteen (14) Cerlists be prepared for turn-in to MCSC Barstow, during the month of January 1966.

19. Engineering

- a. Three (3) new rough terrain forklifts were received and added to the nine (9) already held. One of the new forklifts was transferred to MAG-12 at Chu Lai leaving MAG-11 with a total of eleven (11).
- b. On 28 December two (2) Fordson (farm type) tractors were received to be tested as tow tractors.

20. Maintenance

- a. During December a total of seven (7) RF-8A's received the "Shoe-horn" modification at NAS Cubi Point giving the aircraft a defense against the SA-2 missile.

PART IV
SUPPORTING DOCUMENTS

~~SECRET~~

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"Harvest Moon" - Period 9-20
December 1965

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Order 5512.1)

✓ APPENDIX 3 Ground Defense and Internal
Security (Group Order 03440.2B)

✓ APPENDIX 4 NDC SOP (Group Order 3440.1H)

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HEADQUARTERS
 Marine Aircraft Group 11
 1st Marine Aircraft Wing, FMF, Pacific
 FPO, San Francisco 96601

3:CEB:jdv
 3700
 03A35865
 24 Dec 1965

From: Commanding Officer, Marine Aircraft Group 11
 To: Commanding General, First Marine Aircraft Wing (Attn: G-3)
 Subj: After Action Report, Operation "Harvest Moon" - Period 9-20 Dec 65 (C)
 Ref: (a) 1st MAW Msg 231219Z Dec 1965

1. In accordance with the directions contained in reference (a) the following report is submitted:

a. VMFA-115

124.8 Hours
 112 Sorties
 111½ Tons Bomb

VMFA-323

102.8 Hours
 93 Sorties
 103 Tons Bombs

b. Ordnance Breakdown:

VMFA-115

12 AH/N-57
 14 MK-77
 16 MK-79
 330 MK-81
 224 MK-82
 145 ZUNI'S
 190 2.75 FFAR'S

VMFA-323

64 MK-77
 6 MK-79
 269 MK-81
 199 MK-82
 65 ZUNI'S
 228 2.75 FFAR'S

c. Grand Totals:

227.2 Hours
 205 Sorties
 214½ Ton Bombs

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APPENDIX 1

HEADQUARTERS
Marine Aircraft Group Eleven
First Marine Aircraft Wing, FMF, Pacific
FPO San Francisco 96601

GruO 5512.1
2:CLR:RDW:erl
8 Dec 1965

GROUP ORDER 5512.1

From: Commanding Officer
To: Distribution List

Subj: Visitor Control Bill

Ref: (a) OPNAV INST 5510.1B

1. Purpose. This order is promulgated in accordance with reference (a). Its purpose is to set forth the policy of this command concerning the control of visitors.

2. Scope. This order is applicable to all units of Marine Aircraft Group 11.

3. General

(a) Visitor. A visitor is any person not assigned, attached, or employed by Marine Aircraft Group 11, who is authorized to visit organizations and/or facilities of this command for the purpose of training, liaison, advice, orientation, or contracted business.

(1) All unescorted visitors will be directed to S-2.

4. Responsibilities

a. Commanding Officer, MAG-11. The CO, MAG-11 is responsible for:

(1) A determination as to whether or not a proposed unclassified or classified visit to this command will be permitted, even though the visit request emanated from higher authority.

(2) The imposition of any restrictions deemed necessary to safeguard MAG-11 classified matter.

(3) General visiting in those areas occupied by the Group Headquarters.

APPENDIX - 2

GruO 5512.1
8 Dec 1964

b. Squadron and Detachment Commanders. Squadron and Detachment Commanders are responsible for:

(1) A determination as to whether or not a proposed unclassified visit to their command will be permitted even though the visit request emanated from higher headquarters.

(2) The imposition of any restriction deemed necessary in order to protect classified matter under his jurisdiction.

(3) The preparation of a Visitor Control Bill which will indicate those areas open for general visiting. All general visiting will be on an unclassified basis. Absolutely no access to classified information or equipment will be allowed. The Visitor Control Bill will be based on the probable presence of foreign agents among visitors.

(4) In keeping with the policy set forth in article 1514, Chapter 14 of reference (a), Commanding Officers shall recognize clearances for access to classified information granted to visitors by competent authority. However, Commanding Officers are not relieved of their responsibility of determining the visitor's "need to know", or from his duty to withhold classified information when he considers such actions necessary.

(5) A Visitor Log will be maintained on all personnel visiting subordinate commands as outlined in article 1405 of reference (a).

c. Escort Responsibilities. Escorts of visitors and guests are responsible for the following:

(1) Escorts are directly responsible to the Commanding Officer to ensure that the visitor has access only to that information which he has been authorized to receive.

5. Security Areas and Precautions.

a. Precautions.

(1) Visitors and guests will not be allowed to carry cameras in the MAG-11 area of jurisdiction unless specifically authorized by the Commanding Officer or Group S-2. Cameras will be checked in at the Group S-2 until visit is completed.

b. Security Areas. Visitors or guests are not allowed in the following areas except by approval of the Commanding Officer of MAG-11 or Commanding Officer of Squadrons or Detachments concerned:

- (1) MAG-11 Flight Line
- (2) MAG-11 Hanger/operating Area
- (3) Bomb Dumps (No photography allowed)

GruO 5512.1
& Dec 1965

- (4) Fuel Dumps (No photography allowed)
- (5) Security Area (No photography allowed)
- (6) Billeting Area

6. Special Instructions. Photographic and visitor/guest access to areas outside of MAG-11 jurisdiction must be cleared by the appropriate Commander.

7. Action. Unit Commanders are responsible for the security control of visitors within their jurisdiction. They will comply with the provisions of Chapter 14 of reference (a) and this order.

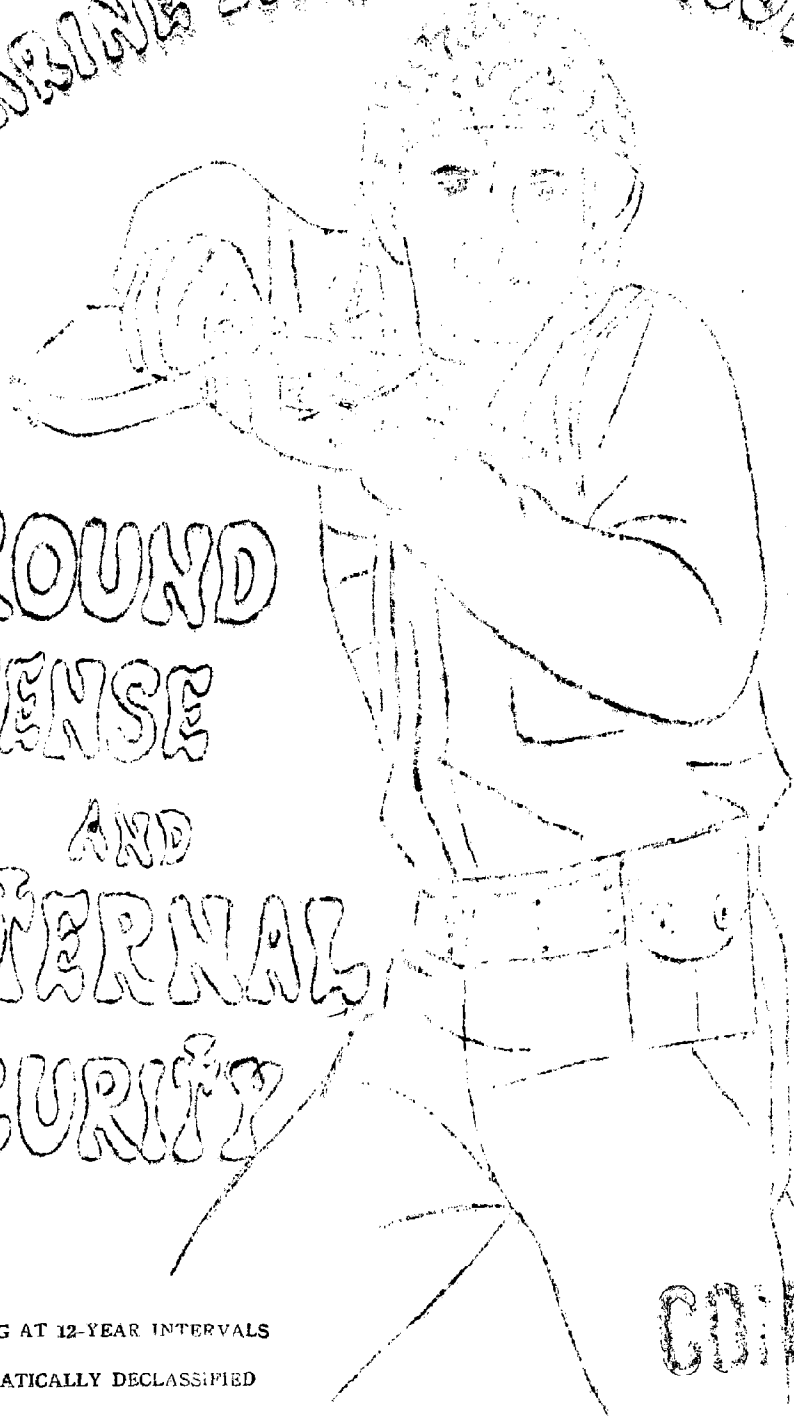

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DISTRIBUTION: "A"
plus CG, III MAF (5)
USAF Base Commander, DaNang (5)
VNAF Base Security, DaNang (5)
CG, 3rd MAR DIV (5)

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MAG-11 S&C
No. 02068-65
COPY 11 OF 51

MARINE AIRCRAFT GROUP 11



GROUND DEFENSE AND INTERNAL SECURITY

DOWNGRADING AT 12-YEAR INTERVALS

NOT AUTOMATICALLY DECLASSIFIED

DOD DIR 5200.10

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GROUP ORDER
03440.2B

APPENDIX 3

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HEADQUARTERS
 Marine Aircraft Group 11
 1st Marine Aircraft Wing, FMF, Pacific
 FPO, San Francisco 96601

GruO 03440.2B
 03:JKC:rpf
 3 December 1965

GROUP ORDER 03440.2B

From: Commanding Officer
 To: Distribution List

Subj: Ground Defense and Internal Security

Ref: (a) 1st MAW OpOrder 303-65 (S)

Encl: ✓(1) Plan for Defense of Area "A"
 ✓(2) Plan for Defense of Area "B"
 ✓(3) Plan for Defense of Area "C"
 ✓(4) Internal Security Plan
 ✓(5) Command and Control
 ✓(6) Communications
 ✓(7) Readiness Conditions
 ✓(8) Rules of Engagement

1. Purpose. The purpose of this Order is to establish guide lines for Ground Defense and Internal Security.

2. Cancellation. Group Order 3440.2A

3. Objectives. To establish and maintain a security posture to:

- a. Prevent infiltration, sabotage and pilferage.
- b. Repulse an enemy ground attack.
- c. Provide individual protection against mortar, artillery or air attack.

4. General.

- a. Enemy situation: See current Intelligence Summaries.
- b. Friendly forces:
 - (1) The Danang enclave is defended by the 3rd Marine Division.
 - (2) The perimeter defense of the air base is manned by an infantry battalion from the 3rd Marine Division.

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GruO 03440.2B
3 December 1965

(3) Elements of the 2nd Air Division, USAF provide security for USAF facilities.

(4) Republic of Vietnam Forces provide security for VNAF facilities.

5. Concept

a. For defensive and security purposes the MAG-11 facilities are designated as:

- (1) Area "A" - The main billeting and office space area.
- (2) Area "B" - The hangar and flight line area.
- (3) Area "C" - The VMJ-1 flight line area, on the new runway.

b. Each area will be defended by provisional platoons, composed of personnel billeted or working in that area. See enclosures (1), (2) and (3).

c. Internal security will be provided by the MABS-11 Security Platoon. This Platoon will be composed of personnel assigned to MABS-11 for a period of Temporary Additional Duty, of about 45 days. See enclosure (3).

6. Action

a. MABS-11

(1) Coordinate the defense of Area "A", and "C" in accordance with enclosures (1) and (3).

(2) Provide four (4) provisional rifle platoons for the defense of Area "A".

(3) Establish a security platoon to provide internal security for MAG-11 facilities, in accordance with enclosure (3).

b. H&MS-11

(1) Provide two (2) provisional rifle platoons for the defense of Area "A". See enclosure (1).

(2) Provide a provisional rifle platoon for the defense of Area "B".

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GruO 03440.2B
3 December 1965c. VMFA (Senior Squadron Commander)

(1) Provide one (1) Provisional rifle platoon for the defense of Area "A". See enclosure (1).

(2) Provide one (1) Provisional rifle platoon for the defense of Area "B". See enclosure (2).

(3) Coordinate the defense of Area "B", in accordance with enclosure (2).

d. VMFA

(1) Provide one (1) Provisional rifle platoon for the defense of Area "A". See enclosure (1).

(2) Provide one (1) Provisional rifle platoon for the defense of Area "B". See enclosure (2).

e. VMCJ-1

(1) Provide one (1) Provisional rifle platoon for the defense of Area "A". See enclosure (1).

(2) Organize night crew into a provisional rifle squad for the defense of Area "C". The squad will augment the sentries posted in Area "C" during Alert Condition #1 and #2.

7. Coordinating Instructions.

a. Alert Conditions - See enclosure (5).

b. Area Coordinators designated in paragraph 6. above will:

(1) Provide an Area Commander.

(2) Install sirens to sound alarms.

(3) Establish an Internal Communications Net.

(4) Muster provisional platoons as required.

(5) Construct barriers and bunkers as required.

c. Communications - See enclosure (6).

d. Individual protective positions will be constructed in the vicinity of all working and living spaces.

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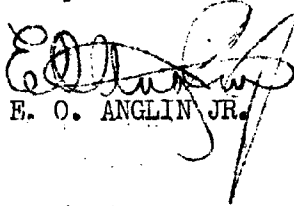
GrpO 03440.2B
3 December 1965

e. The Senior VMFA Squadron Commander is designated Coordinator of Area "B".

f. The Area "C" Sergeant of the Guard is designated Area "C" Defense Force Commander.

g. MAG-11 Command Bunker is located at 99827515.

h. The MAG-11, S-2 will insure that the III MAF and the 2nd Air Division passwords are disseminated to all squadrons.


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DISTRIBUTION: Special

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GRNO 03440.2B
3 December 1965

PLAN FOR DEFENSE OF AREA "A"

1. Concept. This area will be defended with seven (7) provisional rifle platoons, deployed in bunkers around the perimeter of the area, and two (2) provisional platoons in reserve.
2. Action
 - a. MABS-11
 - (1) Coordinate defense of the Area.
 - (2) Designate Area "A" Defense Force Commander.
 - (3) Install alarms.
 - (4) Construct barbed wire barrier around area.
 - (5) Coordinate construction of defensive positions.
 - (6) Provide four (4) provisional platoons.
 - (7) During alert periods, report to Group Command Bunker readiness posture and any unusual events.
 - (8) Maintain emergency ammunition block for Area "A".
 - (9) Establish and maintain a communications system in accordance with Tab "B".
 - (10) Muster defense platoons as required, to insure readiness posture.
 - b. H&MS-11
 - (1) Provide two (2) Provisional Platoons.
 - (2) Muster and deploy platoons as directed by Area "A" Defense Force Commander.
 - c. VMFA
 - (1) Provide one (1) provisional platoon.
 - (2) Muster and deploy platoon as directed by Area "A" Defense Force Commander.

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GruO 03440.2B
3 December 1965d. VMFA

- (1) Provide one (1) provisional platoon.
- (2) Muster and deploy platoons as directed by Area "A" Defense Force Commander.

e. VMCJ-1

- (1) Provide one (1) provisional platoon.
- (2) Muster and deploy platoon as directed by Area "A" Defense Force Commander.

3. Coordinating Instructions

a. The continuous wail of the siren indicates a ground attack, which could include mortars and artillery. Personnel will react as follows:

(1) Ground Defense Alert Platoons, procure weapons, helmets and ammunition. Muster and man defensive positions.

(2) Ground Defense Stand-by Platoons, procure weapons, helmets and ammunition. Muster in protected area designated by M&BS-11 Defense Force Commander.

(3) Personnel assigned tasks during alerts, procure weapons, helmets and ammunition. Proceed to assigned area.

(4) All others, procure weapons, helmets and ammunition. Occupy protective positions. Do not wander around area, if your help is needed it will be requested.

b. The stop-and-go wail of the siren indicates an air attack. Personnel will occupy the nearest protective position. The internal security platoon will maintain perimeter security. The Area "A" Defense Force Commander will order Alert Platoons to man defensive positions when feasible.

c. During an alert, all lights will be extinguished, except those in the Group Command Bunker and the RED LIGHTS in the M&BS-11 Security tent.

d. There will be no smoking during an alert.

e. Squadron Commanders will insure that all personnel are indoctrinated concerning rules of engagement, challenging procedures and use of the password, and that all personnel know the password of the day.

TAB ✓A -- Defense Diagram
 ✓B -- Communications Diagram
 ✓C -- Command and Control

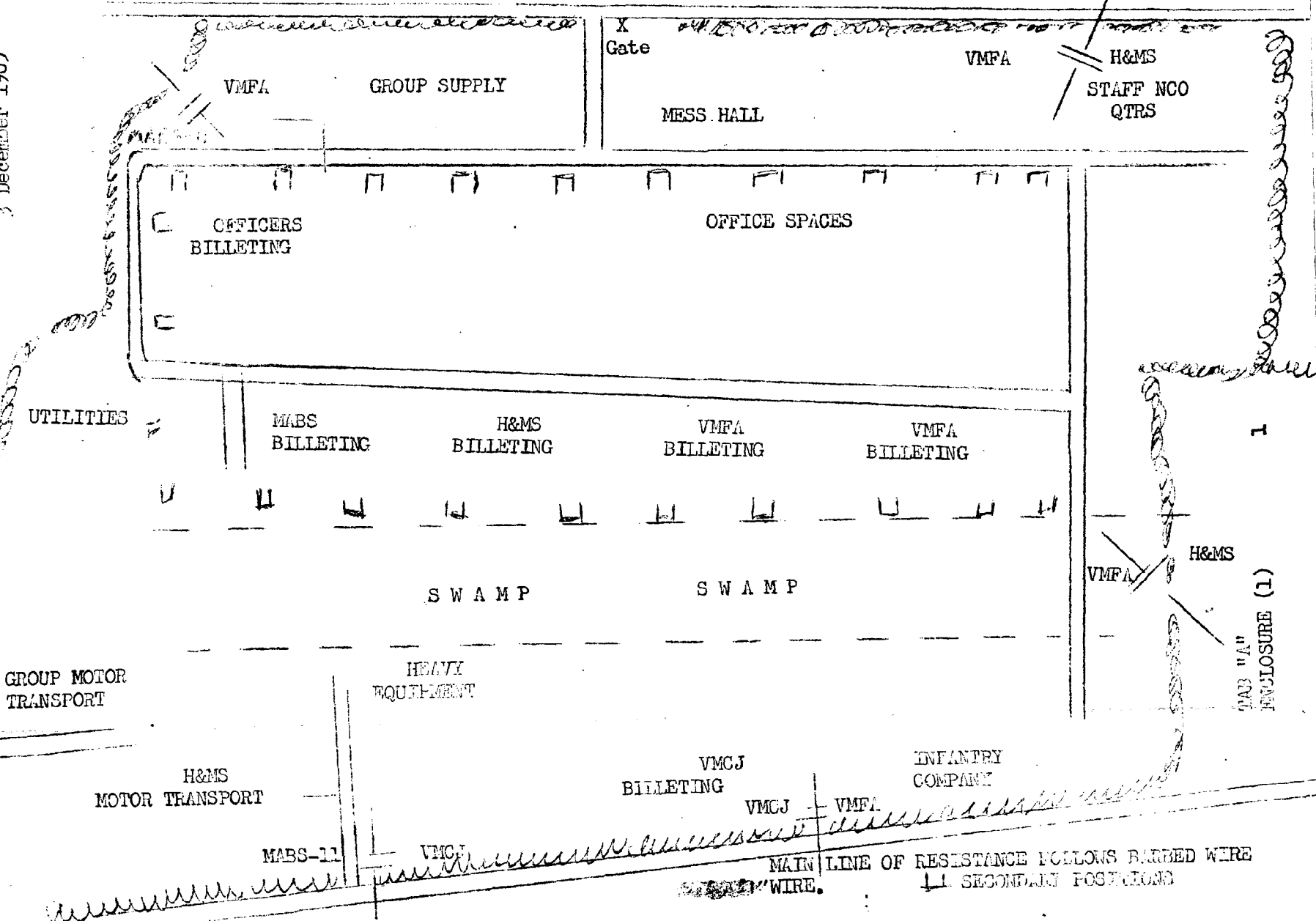
2

Enclosure (1)
CONFIDENTIAL

CONFIDENTIAL
GruO 03A/40.2B
3 December 1965

DECLASSIFIED

TAB "A" DEFENSE DIAGRAM



DECLASSIFIED

CONFIDENTIAL
Procedure (1)

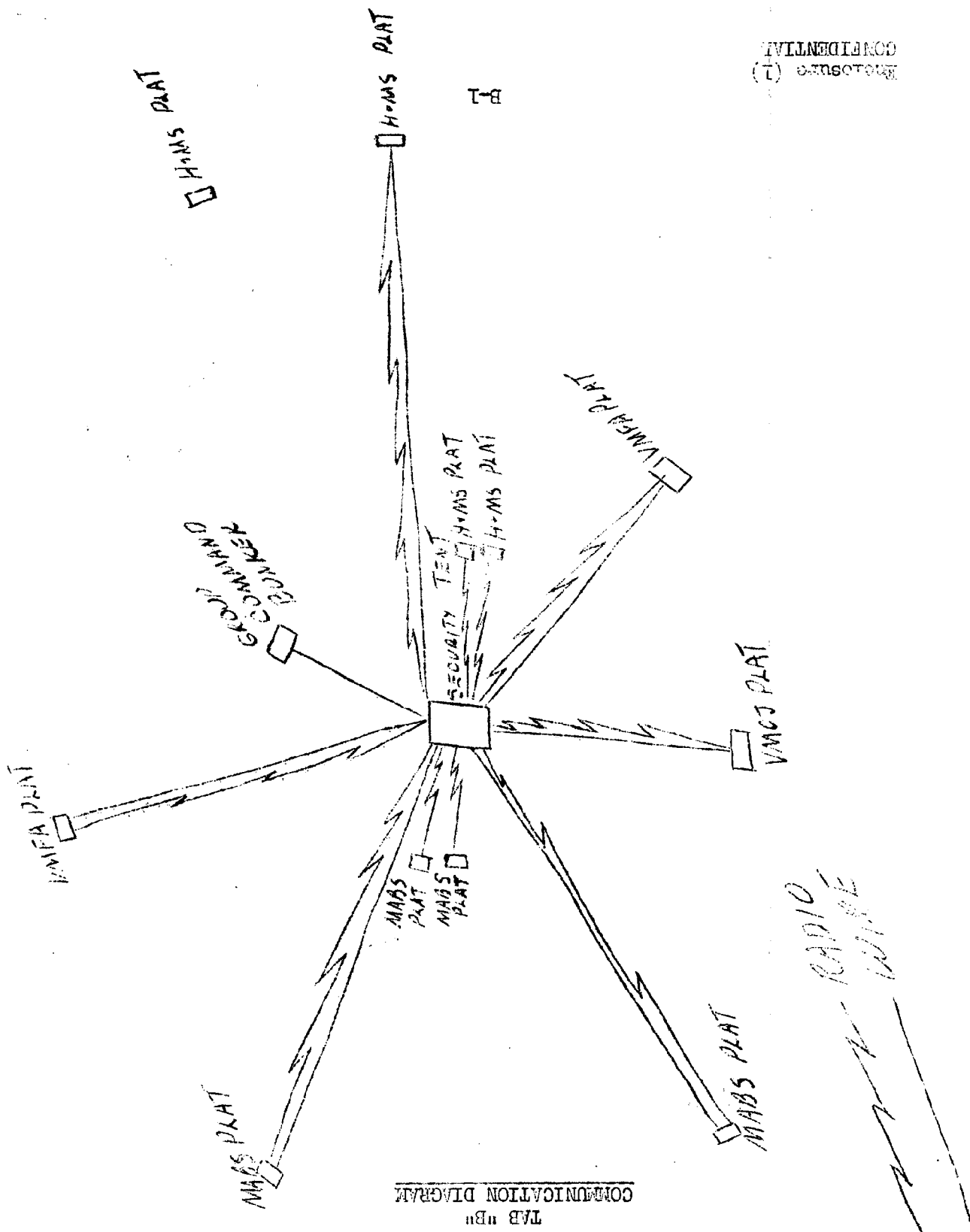


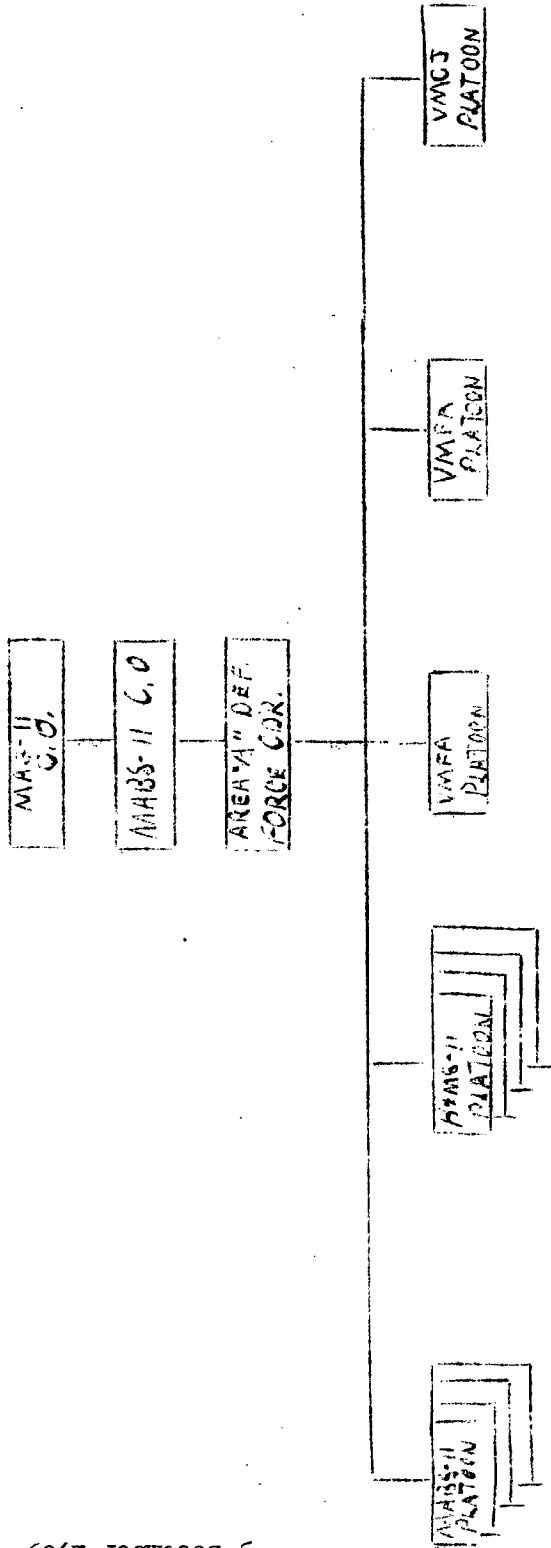
TABLE 1
COMMUNICATION DIAGRAM

Grno 03440.2B
3 December 1965

CONFIDENTIAL

CONFIDENTIAL
Enclosure (1)

C-1



PLATOON ORGANIZATION
 1 LT/100 PLATOON LDR. - 1
 1 SSGT/6Y SGT PLATOON SGT - 1
 1 SGT PLATOON GUIDE - 1
 3 SQUADS (9 MEN) - 27
 2 RUNNERS - 2
 2 RADIO OPERATORS - 2
 34

Grno 03470.2B
3 December 1965

CONFIDENTIAL

TAB ncu
COMMAND AND CONTROL

CONFIDENTIAL

GrpO 03440.2B
3 December 1965

PLAN FOR DEFENSE OF AREA "B"

1. Concept. This area will be defended by deploying three (3) Provisional rifle platoons in a perimeter defense, as shown on TAB "A". Three (3) provisional squads will be retained as a mobile reserve.

2. Actiona. VMFA (Senior Tactical Squadron Commander)

- (1) Coordinate defense of Area "B".
- (2) Designate Area "B" Defense Force Commander
- (3) Install alarms
- (4) Coordinate construction of defensive and protective bunkers.
- (5) Maintain emergency ammunition block.
- (6) Establish and maintain a communications network to control defense force.
- (7) Muster defense platoons as required.
- (8) Conduct drills as required.
- (9) During alert periods, report to the MAG-11 Command Bunker readiness posture and any unusual events.
- (10) Provide one (1) provisional rifle platoon for area defense.
- (11) Provide one (1) provisional squad for mobile reserve.
- (12) Coordinate Emergency Fire Plan.

b. VMFA

- (1) Provide one (1) provisional rifle platoon for area defense.
- (2) Provide one (1) provisional squad for mobile reserve
- (3) Muster and deploy provisional platoon and squad as directed by Area "B" Defense Force Commander.

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GruO 03/40,23
3 December 1965c. H&MS-11

- (1) Provide one (1) provisional rifle platoon for area defense.
- (2) Muster and deploy platoon as directed by Area "B" Defense Force Commander.

d. Area "B" Security Force.

- (1) Man assigned posts until Ground Defense Force has assumed perimeter defense.
- (2) When relieved by Area "B" Defense Force Commander, deploy as mobile reserve under operational control of the Area "B" Defense Force Commander.

3. Coordinating Instructions

a. The signal for a ground attack will be the continuous wail of a siren. Personnel will react as follows:

- (1) Defense platoons, procure weapons, helmets and ammunition. Man assigned positions.
- (2) VMFA Mobile Reserve Squads, procure weapons, helmets and ammunition. Muster in protected area in hangar.
- (3) Internal Security Force; personnel on post, remain on post until relieved by defense platoons, then proceed to guard shack. The Area "B" Commander of the Guard will deploy his guard near the guard shack, taking advantage of the best available cover, and await further orders from the Area "B" Defense Force Commander.
- (4) All other personnel, not assigned specific tasks during an alert, will procure weapons, helmets and ammunition and occupy protective positions.

b. The signal for an air attack will be the stop-and-go wailing of a siren. All personnel will occupy protective positions. The Ground Defense Force will be deployed by the Area "B" Defense Force Commander, when feasible.

c. All lights not required for air operations will be turned off during an alert.

d. There will be no smoking during an alert.

e. Both the III MAF and Air Force passwords will be used for challenging.

CONFIDENTIAL

GruO 03440.2B
3 December 1965

f. All personnel will be instructed concerning challenging, rules of engagement, and use of the password.

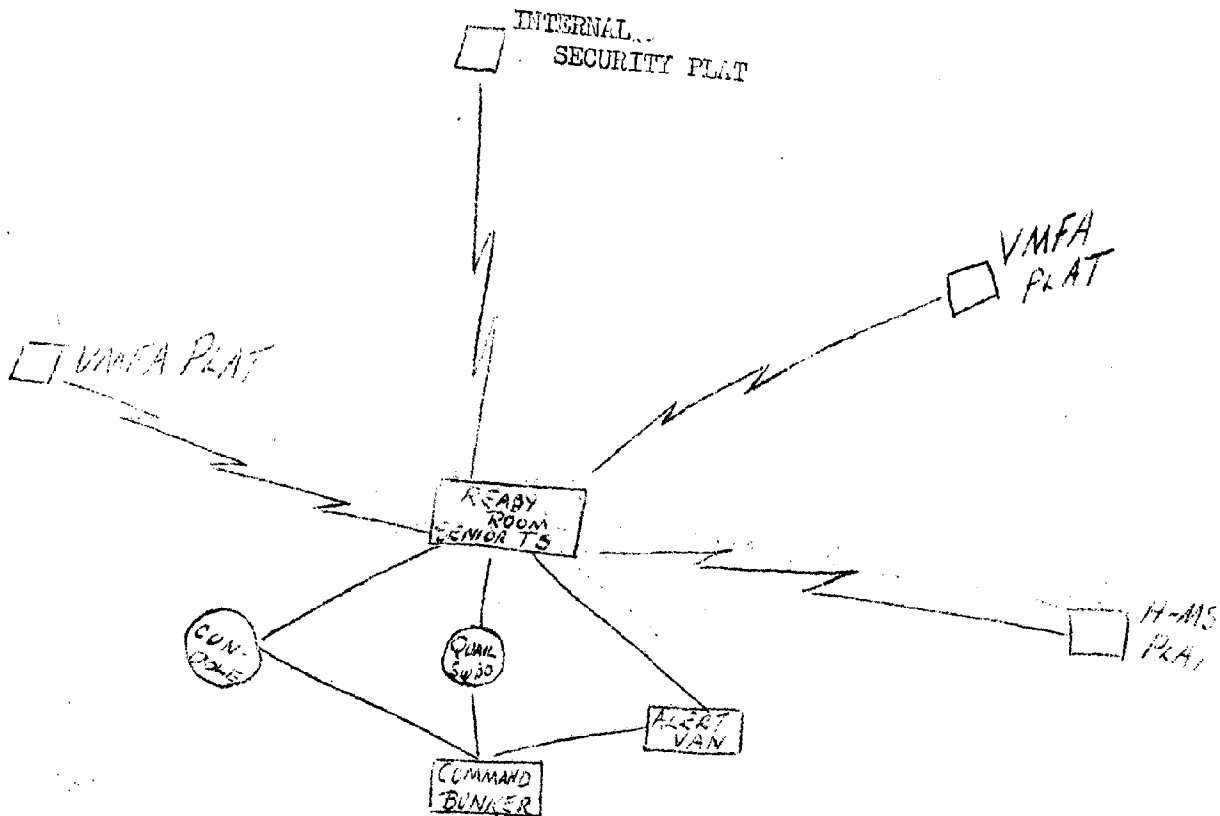
g. Personnel will be kept informed as to the current passwords, both III MAF and 2d Air Division.

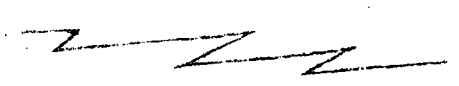

h. Aircraft will be dispersed as soon as flight operations permit, daily.

TAB ~~A~~ - Defense Diagram
 ~~B~~ - Communications Diagram
 ~~C~~ - Command and Control

CONFIDENTIAL
GruO 03440.2B
3 December 1965

TAB "B"
COMMUNICATIONS DIAGRAM

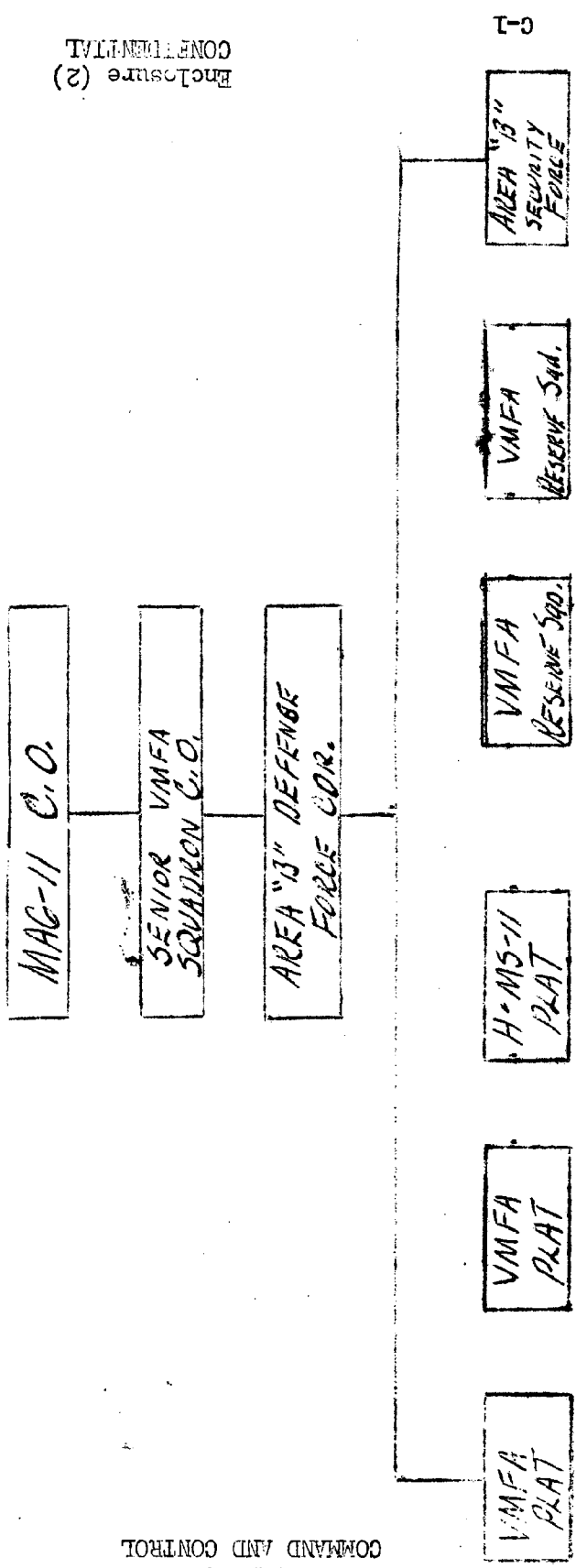


 RADIO
 WIRE

B-1

Enclosure (2)
CONFIDENTIAL

COMMAND AND CONTROL



Enclosure (2)
CONFIDENTIAL

TAB "G"
COMMAND AND CONTROL

03770.28
5 December 1965

CONFIDENTIAL

CONFIDENTIAL

GruO 03440.2B
3 December 1965PLAN FOR DEFENSE OF AREA "C"

1. Concept. Area "C" will be defended by the Internal Security Force, responsible for security of the area, augmented by VMCJ-1 personnel working in the area.

2. Action

a. Internal Security Force

(1) Construct defensive positions.

(2) Report readiness posture and unusual events to the MAG-11 Command Bunker during alerts.

b. VMCJ-1

(1) Organize night crew into a provisional rifle Squad.

(2) Be prepared to deploy provisional rifle squad under operational control of the Area "C" Sergeant of the Guard.

3. Coordinating Instructions

a. The signal for a ground attack will be the continuous wail of a siren. Personnel will react as follows :

(1) Defense Squad procure weapons, helmets and ammunition. Occupy defensive positions.

(2) The signal for an air attack will be the stop-and-go wailing of a siren. All personnel not assigned specific tasks will occupy protective positions.

(3) All lights not required for air operations will be turned off during an alert.

(4) There will be no smoking during an alert.

(5) Both the III MAF and Air Force passwords will be used for challenging.

(6) All personnel will be instructed concerning challenging, rules of engagement, and use of the password.

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GrwO 03449,2B
3 December 1965

(7) Personnel will be kept informed as to the current passwords, both III MAF and 2d Air Division.

(8) Aircraft will be dispersed as soon as flight operations permit, daily.

✓ TAB -- A - Communications Diagram

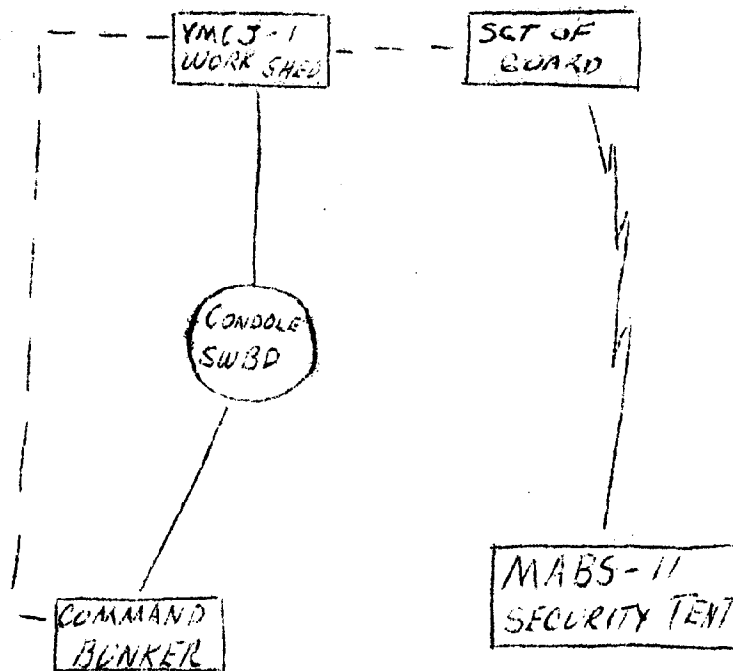
Enclosure (3)

CONFIDENTIAL

CONFIDENTIAL

Cruc 03440.2B
3 December 1965

TAB "A"
COMMUNICATIONS DIAGRAM



--- RADIO
—— TELEPHONE
- - - - HOT LINE

A-1

Enclosure (3)
CONFIDENTIAL

CONFIDENTIAL

GruO 03440.2B
3 December 1965INTERNAL SECURITY PLAN

1. Concept. MABS-11 will provide internal security for MAG-11 facilities. Personnel for the security platoon will be drawn from all squadrons. Security posts will be established in accordance with TABS "A", "B", and "C".

2. Action

a. All squadrons will provide personnel to the Security Platoon. Quotas will be directed by MAG-11, S-1.

3. Coordinating Instructions

a. Security Forces will be withdrawn in Areas "A" and "B", when the Ground Defense Force occupies perimeter defensive positions.

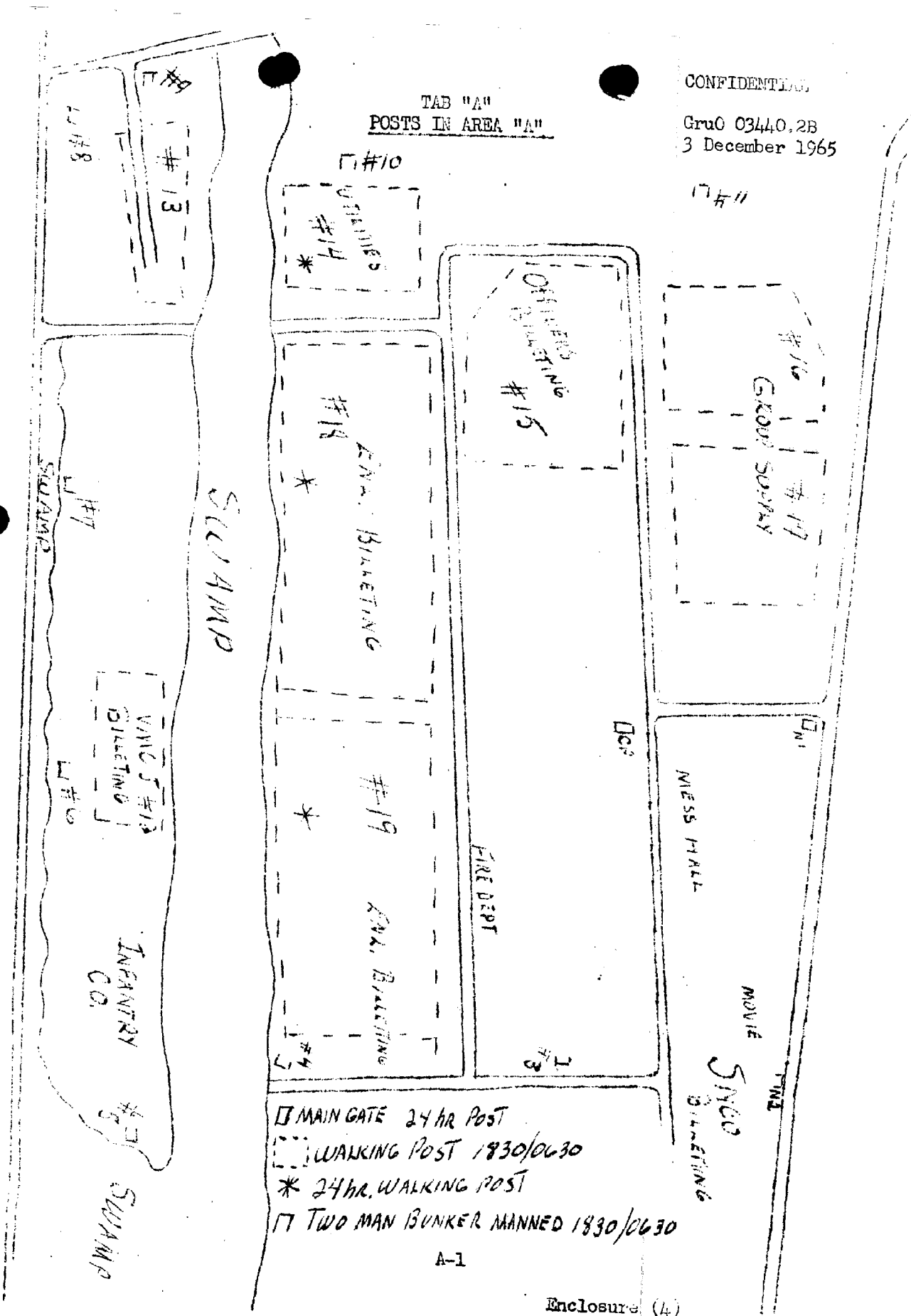
b. The Security Force will provide perimeter security in Area "C".

TAB -A - Posts in Area "A"
B - Posts in Area "B"
C - Posts in Area "C"
D - Local Security Hot Lines Area "A"

CONFIDENTIAL

GruO 03440,2B
3 December 1965

TAB "A"
POSTS IN AREA "A"



A-1

Enclosure (4)
CONFIDENTIAL

CONFIDENTIAL

GruO 03440.2B
3 December 1965

TAB "C"
POSTS IN AREA "C"

MAN POST 1800/0630



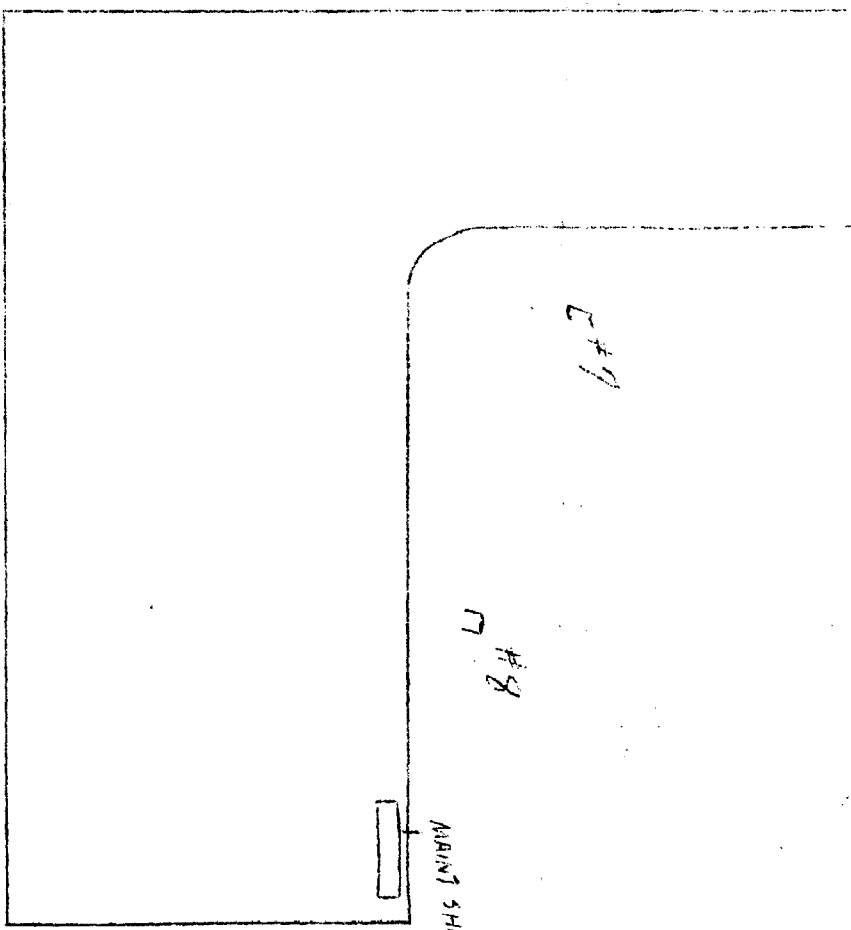
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MARINE SHED

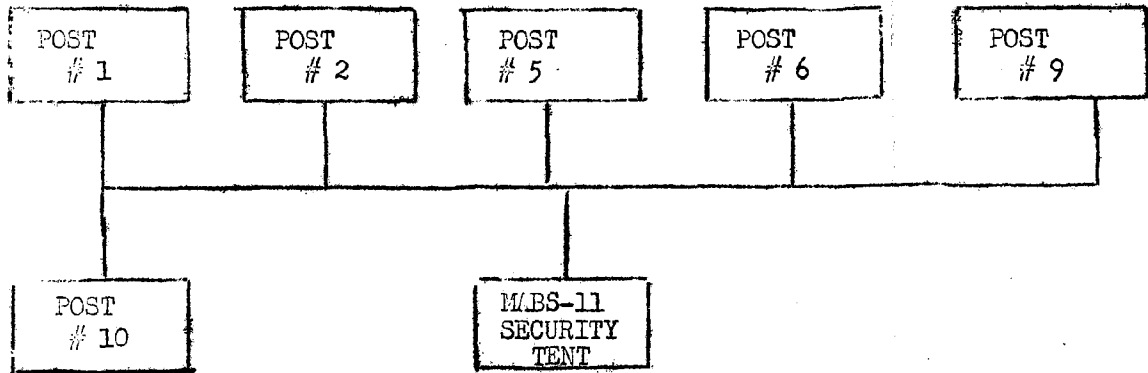
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Enclosure (4)
CONFIDENTIAL

CONFIDENTIAL

LOCAL SECURITY HOT LINES
AREA "A"

GruO 03440.2B
3 Dec 1965

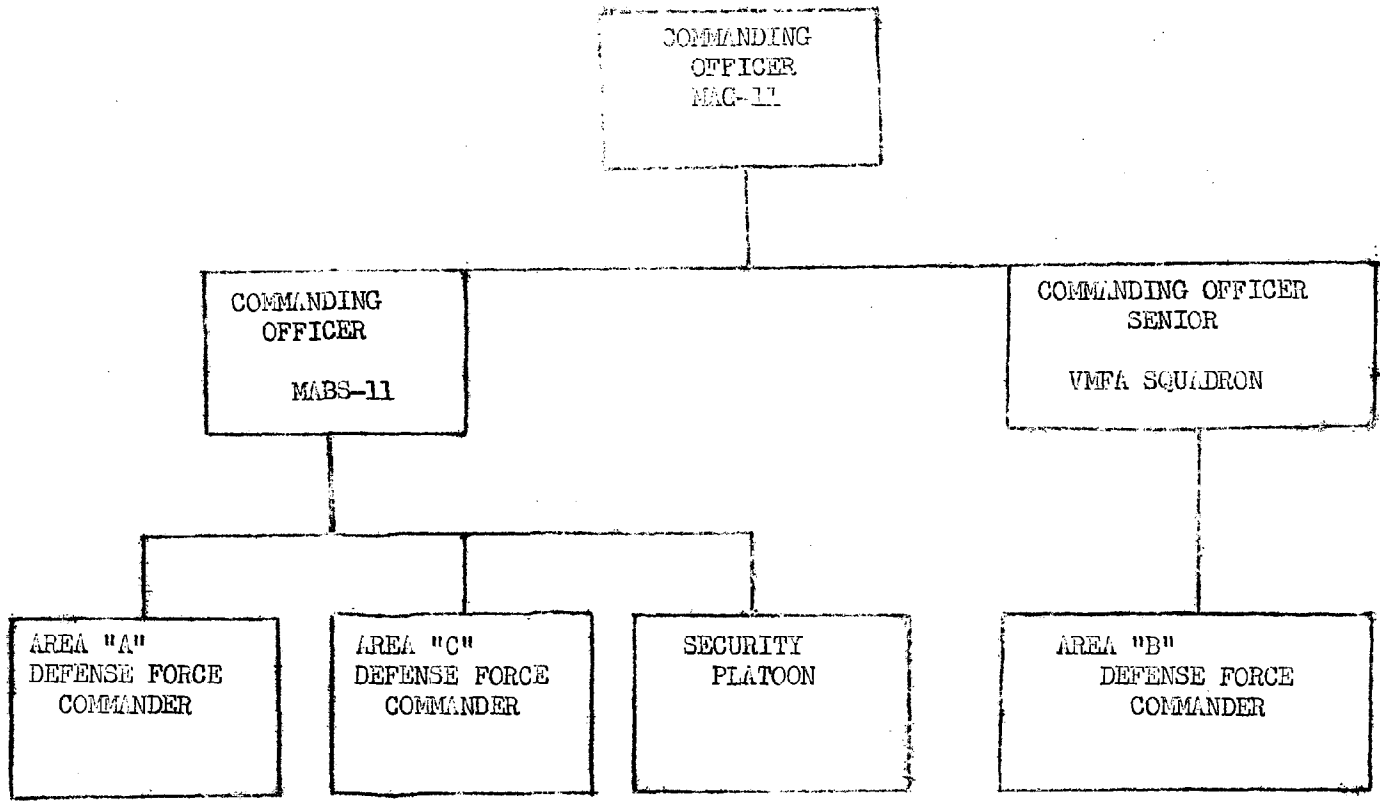


D-1

ENCLOSURE (4)
CONFIDENTIAL

CruO 03440.2B
3 Dec 1965

COMMAND & CONTROL



ENCLOSURE (5)
CONFIDENTIAL

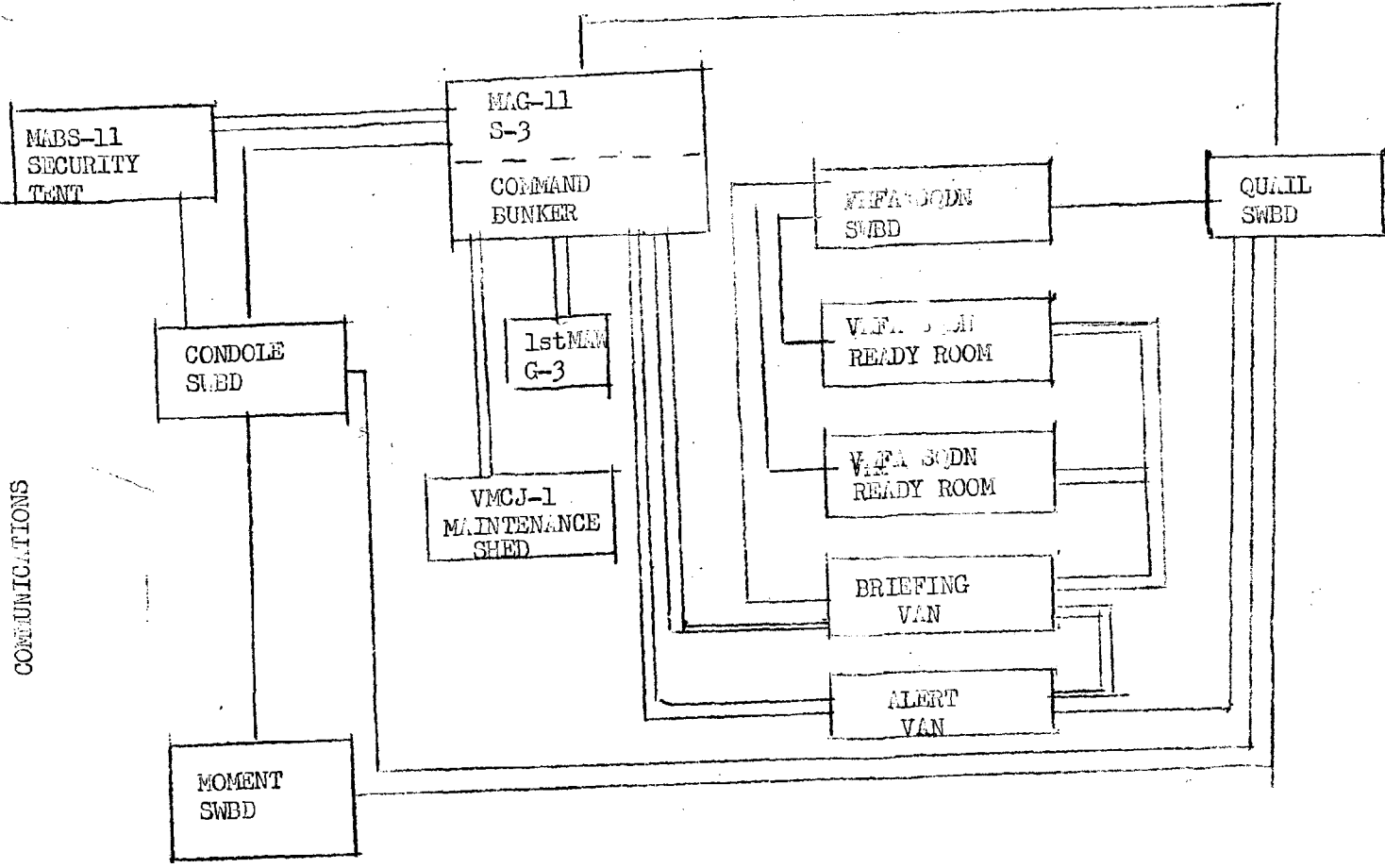
DECLASSIFIED



CONFIDENTIAL

DECLASSIFIED

GrpO 03440.2B
3 Dec 1965

COMMUNICATIONS



 HOT LINE
 TRUNK/LOCAL LINE

ENCLOSURE (6)
CONFIDENTIAL

CONFIDENTIAL

CONFIDENTIAL

GruO 03440.2B
3 December 1965READINESS CONDITIONS

1. The four (4) Ground Defense Readiness Conditions and the actions required are listed below:

a. CONDITION IV. Normal Operations; Normal internal security.

b. CONDITION III. Contact probable. Possible large scale attack or suspected presence of infiltrators. The following action will be taken:

(1) Internal security will be increased as directed by MAG-11 S-3.

(2) The Ground Defense Force will be placed on alert status as directed by MAG-11, S-3.

(3) All personnel carry individual weapons and ammunition.

(4) Continue normal operations.

(5) Alert will be passed by normal operating communications.

(6) Be prepared to disperse aircraft.

c. CONDITION II. Contact imminent. Probable large scale attack or confirmed existence of numbers of infiltrators and hostile activity. The following action will be taken:

(1) All actions required for CONDITION III.

(2) MAG-11 Communications Officer activates 1st MAW local security net.

(3) Continue essential operations.

(4) Area Commanders deploy elements of the Area Ground Defense Force as the situation requires.

(5) Be prepared to disperse aircraft.

(6) Alert will be passed by normal operating communications.

d. CONDITION I. Under attack or subject to attack of sufficient strength to endanger the major assets of the Command or unit. The following action will be taken:

1

Enclosure (7)

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GruO 03440.2B
3 December 1965

(1) Area Defense Force Commander will increase perimeter security to the maximum degree feasible, to insure continuous operations.

(2) For individual reaction, see enclosures (1), (2) and (3).

(3) Be prepared to carry out emergency destruction plans on order of Area Defense Force Commanders.

(4) The MAG-11 Communications Officer maintains radio contact on the 1st MAW local security net.

(5) Area Defense Force Commanders make periodic reports to the MAG-11 Command Bunker, as required to keep this Headquarters abreast of the situation.

(6) Condition to be passed by continual and steady sounding of a siren, and by normal communication channels.

e. The order to resume either CONDITION II, III or IV will be passed by normal operating communications only.

f. Ground Defense Readiness Conditions may be set by Area Defense Force Commanders or by this Headquarters.

✓TAB - A - Passive Air Defense Conditions.

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GruO 03440.2B
3 December 1965

(1) Area Defense Force Commander will increase perimeter security to the maximum degree feasible, to insure continuous operations.

(2) For individual reaction, see enclosures (1), (2) and (3).

(3) Be prepared to carry out emergency destruction plans on order of Area Defense Force Commanders.

(4) The MAG-11 Communications Officer maintains radio contact on the 1st MAW local security net.

(5) Area Defense Force Commanders make periodic reports to the MAG-11 Command Bunker, as required to keep this Headquarters abreast of the situation.

(6) Condition to be passed by continual and steady sounding of a siren, and by normal communication channels.

e. The order to resume either CONDITION II, III or IV will be passed by normal operating communications only.

f. Ground Defense Readiness Conditions may be set by Area Defense Force Commanders or by this Headquarters.

✓TAB - A - Passive Air Defense Conditions.

CONFIDENTIAL

GruO 03440.2B
3 December 1965READINESS CONDITIONS

1. The four (4) Ground Defense Readiness Conditions and the actions required are listed below:

a. CONDITION IV. Normal Operations; Normal internal security.

b. CONDITION III. Contact probable. Possible large scale attack or suspected presence of infiltrators. The following action will be taken:

(1) Internal security will be increased as directed by MAG-11 S-3.

(2) The Ground Defense Force will be placed on alert status as directed by MAG-11, S-3.

(3) All personnel carry individual weapons and ammunition.

(4) Continue normal operations.

(5) Alert will be passed by normal operating communications.

(6) Be prepared to disperse aircraft.

c. CONDITION II. Contact imminent. Probable large scale attack or confirmed existence of numbers of infiltrators and hostile activity. The following action will be taken:

(1) All actions required for CONDITION III.

(2) MAG-11 Communications Officer activates 1st MAW local security net.

(3) Continue essential operations.

(4) Area Commanders deploy elements of the Area Ground Defense Force as the situation requires.

(5) Be prepared to disperse aircraft.

(6) Alert will be passed by normal operating communications.

d. CONDITION I. Under attack or subject to attack of sufficient strength to endanger the major assets of the Command or unit. The following action will be taken:

1

Enclosure (7)

CONFIDENTIAL

CONFIDENTIAL

GruO 03440.2B
3 December 1965TAB "A"
PASSIVE AIR DEFENSE CONDITIONS

1. Conditions will be passed by normal operating communication channels; in addition, condition RED will be set by the STOP and GO wailing of a siren.
2. Conditions are as follows:
 - a. CONDITION "YELLOW". Attack is probable. The following action will be taken:
 - (1) Set Ground Defense Condition 2.
 - (2) Position Ground Defense Force to counter possible ground attack, in conjunction with air attack.
 - (3) Continue essential operations.
 - (4) All other personnel take cover.
 - b. CONDITION "RED". Attack is imminent or is taking place. The following action will be taken:
 - (1) All personnel take cover.
 - (2) See enclosures (1), (2) and (3).
 - (3) Set Ground Defense Condition 1.
 - (4) Execute aircraft dispersal plans.
 - (5) Report progress to MAG-11 Command Bunker.
 - c. CONDITION "WHITE". All clear. If air attack has not taken place, return to the ground defense condition established prior to the air defense alert. If air attack has taken place in the Danang area, remain in highest Ground Defense Condition attained; be prepared to render assistance to affected units as directed.

A-1

Enclosure (7)

CONFIDENTIAL

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GruO 03440.2B
3 December 1965RULES OF ENGAGEMENT

1. The challenge and password is a proven method of recognizing and identifying friendly individuals. This method has been, and will continue to be used in this Command. Procedures for challenging are not classified. The rules of engagement are classified information and must be treated as such.

2. The III MAF Headquarters promulgates lists of challenges and passwords, and the effective challenge and password is disseminated by message, to cover five 24 hour periods which run from 1201 to 1200 daily. The following procedure will be followed when using the challenge and password:

a. CHALLENGING PERSONNEL ON FOOT.

(1) The sentry will allow the individual, or party, to approach to within range of the normal voice. The sentry will command "HALT", WHO GOES THERE?". Multiple posts will only use one sentry for challenging. The remainder staying concealed in supporting positions to cover the sentry and challenged party.

(2) The challenged individual, or senior man in the party, will halt, then give his rank, name, size and nature of party.

(3) The sentry will then allow the individual, or senior man, to advance by saying "ADVANCE (Rank and name) AND BE RECOGNIZED!"
No further challenging is necessary if individual is recognized.

(4) When the challenged person is not recognized, the sentry will allow him to advance up to a point where the challenge, spoken in a low voice, will only be heard by the challenged individual. The sentry will then command "HALT" and give the challenge in a low voice. The challenged individual will then give the password.

(5) When satisfied that the individual or party is friendly, the sentry will allow them to pass. If a party is involved, the senior man will verify each man as they pass the sentry.

b. CHALLENGING A VEHICLE

(1) The sentry will position himself at a good vantage point. As the vehicle approaches he will command "HALT".

(2) When the vehicle is halted, the sentry will direct the driver to stop engine, dismount and stand in plain sight near the vehicle. Passengers will remain in the vehicle.

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GruO 03440.2B
3 December 1965

(3) The sentry will challenge the driver using procedures as outlined above for challenging individuals on foot.

3. In addition to proper challenging procedures, individual weapons will be handled in a safe manner. The following rules for loading of weapons apply:

a. Magazines will not be inserted in weapons during daylight hours unless under attack or unless on patrol outside of perimeter defense positions. Magazines may be inserted at night at the discretion of the Area Defense Force Commander.

b. A round will not be inserted in the chamber of an individual weapon unless an encounter with the enemy is obvious, and in the judgment of the senior Marine present, this measure is necessary to preserve friendly lives.

c. A sentry may insert a round in the chamber of his weapon if after challenging, the challenged individual does not halt. The loaded weapon, however, will not be pointed directly at the individual until it is determined that he is an enemy.

4. RULES OF ENGAGEMENT

a. During Hours of Darkness.

(1) Challenge

(2) If no response to the challenge, or if response is incorrect, illuminate the area, if possible.

(3) If person challenged opens fire or commits any other hostile act, thereby endangering the life of the challenger, load and fire.

(4) If person challenged evades capture but commits no hostile act, do not fire. Immediately notify higher authority. Continue effort to apprehend.

b. During daylight hours. Same as for hours of darkness, except do not illuminate.

5. In order to achieve this, every man must be aware of the current challenge and password, and must know how to use them.

APPENDIX 4

HEADQUARTERS
 Marine Aircraft Group 11
 1st Marine Aircraft Wing, FMF, Pacific
 FPO, San Francisco 96601

GruO 3440.1H
 O3;TJK:jmm
 18 December 1965

GROUP ORDER 3440.1H

From: Commanding Officer
 To: Distribution List

Subj: Standing Operating Procedure (SOP) for Nuclear, Biological
 and Chemical Defense (NBCD)

Ref: (a) USMC Staff Manual
 (b) MC TI-10010-15/1 w/changes
 (c) Department of the Army SB 3-30 w/supplements
 (d) MCO 3400.3
 (e) MC TI-6665-25/1
 (f) 1stMAW Order 201-(YR), Annex T
 (g) FM FM 11-1
 (h) FM 21-48
 (i) FM 21-40
 (j) WFO 1550.2
 (k) MCO P5000.3
 (l) MCO 10128.3
 (m) TM 3-304
 (n) FM 3-10
 (o) TM 3-210
 (p) TM 3-12

Encl: (1) Locator Sheet

Reports Required: List, Page ii

1. Purpose. To promulgate an SOP for the NBC Defense of Marine Aircraft Group-11.
2. Cancellation. Group Order 3440.1G
3. Scope. The instructions contained herein are generally applicable to all units under the administrative and/or operational control of MAG-11.
4. Format. This directive is designed to permit pen changes and page insertions.

APPENDIX 4

Grac 3440.1H
13 December 1965

5. Action. Subordinate commands will promulgate SOP'S for NBC Defense in furtherance of this order and the appropriate references contained herein. Two copies of subordinate units' SOP's will be forwarded to Headquarters (Attn: S-3) for review and retention.

6. Certification. Reviewed and approved this date.


E. O. ANGLIN, JR.

DESTRUCTION: 1st MAW CG, FIRST MAW (Attn: NBCD Officer) (2).

GruO 3440.1H

LOCATOR SHEET

Subj: Standing Operating Procedure (SOP) for Nuclear, Biological
and Chemical NBC Defense .

Location: _____
(Indicate the location(s) of the copy(ies) of this
publication.)

GruO 3440.1H

REPORTS REQUIRED

~~Surveillance Inspection Report~~ Section XI
NBC Defense Quarterly Report Section XI
Standardized NBC Reports Section XI
NBC Personnel Status Report Section XI
NBC Equipment Status Report Section XI

CINCO 344021N
18 December 1965

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18 December 1965

MAG-11 NBC DEFENSE SOP

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18 December 1965

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18 December 1965

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18 December 1965

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- 1203 NBC Personnel Status Report
- 1204 NBCD Equipment Status Report

~~VII~~

GENO 3440.1H
18 December 1965

SECTION I.

GENERAL.

100. SITUATION. NBC weapons are in the arsenals of hostile powers whose declared intention is to employ them against the United States and its Allies in any future warfare. These weapons can produce mass casualties, extensive damage and a high level of psychological disorder. Due to our proximity to the enemy, it is mandatory that appropriate defense measures be properly and instinctively carried out by each individual and unit of this Command to minimize these effects and to maintain the combat effectiveness of MAC-11 subsequent to an NBC attack. This can only be accomplished by acquiring and maintaining a high level of readiness through training in NBC defense measures.

Grno 3440.1H
18 December 1965

SECTION II

STAFF RESPONSIBILITIES

200. GENERAL. The MAG-11 staff will be guided in matters pertaining to NBC defense by the references and provisions of this order.

201. S-1 OFFICER.

1. Assign sufficient personnel (MOS 5702 and 5711) as required by current T/O.
2. Establish a system of casualty reporting.
3. Provide for normal search and identification procedures.

202. S-2 OFFICER.

1. Provide information on enemy capabilities for employing NBC warfare.
2. Provide information on the status of enemy NBCD equipment.
3. Provide information on any special immunizing procedures by the enemy to protect their personnel against possible Biological agents.

203. S-3 OFFICER.

1. Provide for coordination of all command elements during actual NBC attacks or drills.
2. Be prepared to launch aircraft for air-defense, dispersal or mass evacuation if directed by higher authority.

204. S-4 OFFICER.

1. Designate responsibility for salvage and disposition of contaminated clothing and equipment.

205. NBC DEFENSE OFFICER

1. Advise the commanding officer and his staff on all matters pertaining to NBC defense.

FORM 8040, III
18 December 1965

2. Serve as coordinator between MAG-11, its host base or station and its adjacent units in matters pertaining to NBC defense.
3. Plan, supervise and critique all NBC-11 NBC defense drills and exercises.
4. Insure sufficient shelter space for all MAG-11 personnel and insure that they are adequate and properly equipped.
5. Insure that all squadrons conduct technical inspections of NBCD equipment in accordance with references (b), (c), (d), and (e).
6. Insure that all squadrons conduct NBCD training in accordance with reference (f).
7. Insure adherence to and the maintaining of the capability for the rapid and effective performance of the procedures listed in Section IV.
8. In the event of an NBC attack, supervise the following:
 - a. NBCD situation map
 - b. NBCD Ground and Aerial Surveys
 - c. Decontamination
 - d. Construction of chemical agent vapor cloud envelope from Down Wind Vapor Hazard Prediction Message and advise MAG-11 Commanding Officer of Chemical Troop Safety Measures necessary.
 - e. Preparation of Simplified Fallout Prediction for MAG-11 Commanding Officer.
 - f. Marking of contaminated areas within the MAG-11 areas of responsibility.
 - g. Operations of MAG-11 NBCD Control Center.

206. MEDICAL OFFICER

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1. Supervise the training of medical personnel in the handling and treatment of NBC casualties and training of all personnel in first aid for NBC casualties.
2. Supervise the treatment and evacuation of NBC casualties.
3. Advise as to the measures necessary to prevent contamination of food and water and/or decontamination of same, in accordance with FM 10-69.
4. Disseminate information on tolerance dosages and other definable limits of radiation exposure as outlined in Section X.
5. Establish a system to implement existing systems for determining radiation dosages received by personnel.
6. Maintain individual records of radiation exposure.
7. Insure adequate immunization program against possible Biological agents.
8. In the event of NBC attack; insure a plan for forwarding Biological samples to the nearest PMU for analysis and identification.

207. SUPPLY OFFICER

1. Employ dispersed and protected storage of supplies in accordance with reference (g).

Maintain on hand sufficient clothing, as well as other supplies and equipment necessary for use in an NBC emergency.

2. Assign two trained supply men for duty with the MAG-11 NBC-4 unit.

208. MOTOR TRANSPORT OFFICER

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1. Coordinate motor transportation for the movement of personnel and equipment necessary during an NBC emergency.
2. Maintain mobile decontamination and recovery equipment in a condition suitable for immediate use.
3. Supervise the decontamination of motor transport equipment when necessary.
4. Make available to the MAG-11 NBC Defense Officer such vehicles as may be required during NBC drills, actual alerts and/or attacks.

209. COMMUNICATIONS OFFICER

1. Provide intra/inter-shelter communications.
2. Provide communication equipment for the MAG-11 monitor survey teams and NBC Control Center as needed.
3. Maintain the capability to enter the Wing liaison net whenever an NBC alert condition is initiated.
4. Make available to the MAG-11 NBCD Officer such portable radios as he may require during NBC drills, alerts and actual attacks or alerts.
5. Provide training for squadron NBC Defense Team radio operators as requested by squadron NBCD Officers.

210. SECURITY OFFICER

1. Assist in the evacuation of casualties resulting from an NBC attack or Nuclear accident.
2. Provide guards for contaminated areas that have been marked when requested by MAG-11 NBCD Officer.
3. Provide security as required to maintain order and prevent sabotage, panic and pilferage.

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211. EMBARKATION OFFICER

1. Prepare plans for evacuation of MAG-11 as directed by the Commanding Officer when necessary in an NBC emergency.

212. NBC DEFENSE SPECIALIST (MOS 5711)

1. Provide technical and administrative assistance for the MAG-11 NBC Defense Officer in all matters pertaining to NBC Defense.

2. Provide liaison and supervision for MAG-11 NBCD Officer as requested by the MAG-11 NBCD Officer.

3. In the event of an NBC attack or Nuclear Accident assume the duties as NOIC of the MAG-11 NBC Control Center.

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SECTION III

SQUADRON RESPONSIBILITIES

300. GENERAL. Attaining and maintaining individual and unit proficiency in NBC defense procedures within the established standards is a command responsibility. All squadrons must develop and maintain within themselves a capability for successful accomplishment of their mission while under nuclear, biological and/or chemical attack. The sole purpose of this SOP is to provide squadrons of MAG-11 with the capability for successful accomplishment of that mission during NBC warfare situations.

301. ALL SQUADRONS

1. Coordinate with the MAG-11 NBC Defense Officer in matters pertaining to NBC defense.
2. Perform NBC defense training prescribed in Section V of this order.
3. Insure that squadron shelter spaces, when assigned, are adequate and properly equipped.
4. Procure and maintain all NBCD equipment authorized by applicable tables of equipment.
5. Conduct technical inspections of NBC defense equipment in accordance with references (b), (c), (d) and (e).
6. Assign one NBC Defense Officer with secondary MOS 5702.
7. Assign two enlisted NBCD assistants with primary or secondary MOS 5711 depending on requirements of existing tables of organization.
8. Assign and train personnel in order to maintain one NBC-1 unit.
9. Train and assign a minimum of five decontamination personnel for duties with the MAG-11 NBC-3 unit.

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10. Train and assign personnel in order to maintain one NBC-6 unit.
 11. Indoctrinate all personnel in the techniques of Nuclear Burst Observation and reporting.
 12. Maintain a capability of decontaminating all assigned equipment.
 13. Ensure that all personnel are capable of meeting the standards of proficiency indicated in references (d) and (f).
 14. Ensure that all authorized NBC defense equipment is taken on all squadron deployments with the exception of that necessary for the defense of squadron's rear echelons in accordance with reference (1).
 15. Ensure that M17 Field Protective Masks are issued to all personnel and mask size is entered in their SRB and stamped on their Identification Tags.
 16. Conform to the procedures listed in Section IX of this order.
 17. Prepare, on receipt of this order, a simplified fallout predictor on acetate or overlay paper to scale of current area maps and placed on file in the squadron Ready Box.
 18. Ensure that assigned NBCD personnel are trained in the recognition and plotting of Down Wind Vapor Hazard Prediction Messages.
302. H&MS-11. In addition to the requirements of paragraph 301, H&MS-11 will train and assign personnel to man the MAG-11 NBC-6 unit.
303. MABS-11. In addition to the requirements of paragraph 301, MABS-11 will:
1. Train and assign personnel in order to maintain one NBC-2 unit.
 2. Assign one trained radio repairman and one trained salvage repair-

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man for duties with the MAG-11 NBC-4 unit.

3. Designate or construct and maintain all MAG-11 shelters as required.

4. Establish and maintain the MAG-11 NBCD warning system. Personnel of the guard will be schooled in its use and will actuate it only on command of this Headquarters.

5. Ensure the availability of an adequate supply of uncontaminated water.

6. Be prepared to furnish personnel for the removal or destruction of nuclear munitions.

7. Assign one corpsman for duty with each MAG-11 NBC-2 and NBC-3 unit.

8. Perform any construction, destruction, rescue and/or fire fighting as required in NBC defense or Nuclear accident situation.

9. Assign and train five personnel for duties with the MAG-11 NBC-3 unit.

304. OTHER. All units attached to MAG-11 will submit to the MAG-11 NBCD Officer the following information for review, retention and action:

1. Number of personnel requiring shelter in case of NBC attack.
2. Deficiencies in amount or quality of NBC defense equipment.
3. Special capabilities of the unit which might be of use during the NBC defense recovery phase of operations.
4. Areas of decontamination and NBCD survey responsibility.

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SECTION IV

ORGANIZATION

1.000 GENERAL

1. In addition to the requirements of Section III, each tactical squadron will train and assign a minimum of three decontamination personnel for duties as an NBC-3 unit when the squadron is separated from MAG-11.

2. During practice and actual alerts all NBC personnel will assume their FWC assignments as a primary duty.

a. Squadron NBC teams will be under the direct supervision of the squadron NBC Officer.

b. Squadron NBC Officers and the MAG-11 NBC-6 unit will be under the direct supervision of the CO, MAG-11 through the MAG-11 NBC Officer.

401. NBC UNITS. NBC units will be trained, organized and capable of functioning as follows:

1. NBC-1 Unit.

a. The NBC-1 unit is a monitoring and Nuclear Burst Observation Post (NBOP) Team and is composed of two monitors each.

b. The NBC-1 unit, in event of NBC attack, will perform ground/aerial surveys, determine the type agent used and/or collect biological samples for the medical department as applicable, and mark contaminated areas.

c. The NBC-1 unit will be familiar with the functions of a NBOP Team and will be prepared to perform those functions.

2. NBC-2 Unit.

a. NBC-2 units will be composed of seven men: one monitor, two decontamination men, one plumber, two utility attendants, and one corpsman.

b. In the event of an NBC attack, the NBC-2 unit will set up and operate a personnel decontamination station as depicted in reference (1).

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c. The NBC-2 unit will be equipped with a portable shower loaded on a truck. An adequate supply of un-contaminated water, soap, towels and clothing will be on hand.

3. NBC-3 Unit.

a. The NBC-3 unit is composed of a minimum of eleven men: one corpsman, two monitors, and eight decontamination personnel.

b. The NBC-3 unit will be able to decontaminate equipment, terrain, and buildings.

c. In tactical squadrons separated from MAG-11, the NBC-3 unit will improvise the necessary equipment and assume the duties of the NBC-2 unit in conjunction with their normal NBC-3 unit responsibilities.

4. NBC-4 Unit.

a. The NBC-4 unit will consist of four men: one radio repairman, one salvage and repairman, and two supply men.

b. In event MAG-11 becomes involved in NBC warfare, this unit will store, maintain, repair, issue, and salvage NBC defense equipment.

(1) Under conditions of other than active NBC warfare, the duties of the NBC-4 unit will be assumed by the squadron NBC Officer through normal NBC equipment inspections and survey procedures.

5. NBC-6 Unit.

a. The NBC-6 unit will be composed of an NCO-in-charge, one plotter, one computer and one telephone talker.

b. This unit will operate as a control center and will aid the NBC Officer and the unit commander in the control and coordination of the squadron/group preparation for and recovery from an NBC attack.

c. This unit will be trained in fall-out prediction, estimates of contamination, radiation decay and time of stay, and use of maps and communications.

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SECTION V

TRAINING

500. GENERAL. NBC defense training will be based on the latest available doctrine. All training will have as its ultimate goal the ability of units and individuals to accomplish the assigned mission in the presence of NBC agents.

501. SCHOOLS

1. Reference (j) provides information concerning Division NBC schools. Quotas for these schools may be obtained through MAG-11 S-3.

2. All personnel assigned to NBC billets will be school trained at the Division school or a comparable NBC school before assignment or as soon after assignment as practicable.

502. GROUP DRILLS

1. Group wide NBC drills will be conducted as often as required, to insure that all personnel are familiar with the necessary actions and procedures to be taken in the event of an NBC attack.

2. All squadrons and detachments under the operational control of MAG-11 will participate in group drills.

503. SQUADRON DRILLS

1. Squadrons will conduct separate squadron-wide NBC drills as often as they deem necessary to acquire proficiency.

2. All squadron drills will be coordinated through the MAG-11 NBC Defense Officer.

504. NBC UNIT TRAINING

1. Each NBC unit will be exercised at least quarterly. NBC unit training may be incorporated into the required squadron drills.

2. Personnel assigned to NBC units should be encouraged to enroll in appropriate MCI courses dealing with NBC defense subjects.

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505. INDIVIDUAL TRAINING

1. All personnel will be trained to meet the standards of proficiency set forth in references (d) and (f).

2. All personnel will be trained in and be familiar with the basic principles of the local NBC defense measures, including the location, use and recognition of NBC alarms and decontamination stations and shelters.

3. All personnel will be given instruction to insure a clear understanding of Nuclear phenomena and the problems resulting from all NBC attacks.

4. Each individual will attend one gas chamber exercise per year.

a. Correct mask sizes should be ascertained during these exercises and will be stamped on the individual's identification tags and entered in his service record book in accordance with reference (1).

5. Supply personnel will be familiar with the proper methods of handling storing and inspecting NBC defense material.

6. Each individual will be trained in the proper methods of adjusting, donning, inspection and handling of the Field Protective Mask M-17 in his possession.

a. Additional inspections and mask drills by platoon and smaller units will be incorporated into readiness training so as to insure compatibility of NBC defense and normal unit defense measures.

506. EQUIPMENT. 100% of all NBCD equipment may be used for training.

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SECTION VI

EQUIPMENT AND SUPPLIES

600. GENERAL.

1. Individual and collective protection against the effects of chemical and biological agents and radioactive fallout from a nuclear burst will be provided primarily by protective clothing, field protective masks and accessories as well as collective devices. This material consists of clothing items belonging to the individual, which will be treated with a special chemical, and items provided in the tables of equipment. References (l) and (m) describe items of permeable and impermeable protective clothing and accessories, provides information on their use, fitting, inspection, impregnation, decontamination, care and maintenance. Special considerations relating to the individual and collective protection against the effects of nuclear radiation is discussed in references (o) and (p), with emphasis placed on unit protection, operation and recovery.

2. Other NBCD equipment listed in the tables of equipment provide protection indirectly through initial warning of the presence of toxic agents and nuclear radiation and decontamination of contaminated material. Reference (b) and (c) provide standards for inspection and determination of serviceability for specific NBCD items.

3. The Marine Corps Special List of Chemical Defense Items (SL-8-9996A) in conjunction with the M series table of equipment for aviation units should be used to determine NBCD equipment authorized.

601. NBC DEFENSE READY BOX. Each squadron will maintain a ready box containing at least the following items necessary for the conduct of NBC defense operations in the field;

1. Publications

a. Field Manuals: (one each)

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3-5, Chemical, Biological and Radiological (CBR) Operations

3-8, Chemical Corps Reference Handbook

3-10, Chemical and Biological Weapons Employment

3-12, Operational Aspects of Radiological Defense

21-40, Small Unit Procedures in NBC Warfare

21-41, Soldiers Handbook for NBC Warfare

b. Technical Manuals

3-205, Protective Mask and Accessories

3-210, Fallout Prediction

3-215, Military Chemistry and Chemical Agents

3-216, Military Biology and Biological Warfare Agents

3-220, CBR Decontamination

3-240, Field Behavior of Chemical Agents

3-303, Impregnating Set, Clothing, Field M3, Outfit, and M2

Testing Kit

3-304, Protective Clothing and Accessories

3-350, Improvised CBR Protective Shelters

c. Technical Instructions:

01266A 25/1, Mixing Instructions, Impregnating Set, Clothing,
Field, M3

d. Orders:

MCO 3440.2C, Reporting Disaster Control Readiness and Participa-
tion in Natural Disaster Emergencies.

FMFPAGO 3441.1B SOP for Recovery Measures

1stMAW OpO 201-(YR) Annex T, (Nuclear, Biological and Chemical
Defense)

GruO 3440.1H Standing Operating Procedures for Nuclear, Bio-
logical and Chemical Defense

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e. Report Forms: 25 copies, each, of the report forms listed in Appendix A, Figures 7, 8, 9, 10, 11, and 12.

2. Equipment:

FP 354/E PD - 1*

Pencils - 12

Erasers - 4

Compass, Drafting - 3

Straight Edge - 3

Flashlight - 2

Clip Board - 3

Paper Clips - 1 box

Engineer Tape - 1 roll

Map (Current Local Area) - 2

Grease Pencils - Red - 2, Yellow - 2, Black - 2, Green - 2, Blue - 2.

Simplified Fallout Predictor - 1

Batteries, Spare set for each instrument and flashlight - 1

Protractor - 3

Lined Pads - 4

Hair Lines - 5

* Squadrons deploying to an area geographically distant from MAG-11 will draw one PP 354/PD from MAB-11 for retention throughout the deployment period.

602. NBC DEFENSE READY LOCKER. Each squadron will maintain a ready locker in the working area containing at least the following equipment:

IM-113/PD - T/E allowance for Squadron

MYA1 Vesicant Detector Crayon - 1 Package

MSA1 Vesicant Detector Paper - 1 Pad

MISA1 Chemical Agent Detector Kit - T/E allowance for Squadron

Improvised Biological Sampling Kit - 1

AN/PDR-27J - T/E allowance for Squadron

IM-171/PD - T/E allowance for Squadron

Impermeable Protective Clothing and Accessories - T/E allowance for Sqdrn.

Lensatic Compass - 1

Standard NATO Contamination Marking Signs - 30 Nuclear, 30 Chemical, 30 Biological

Grease Pencils, Red - 5, Black - 5, Yellow - 5.

603. RADIAC INSTRUMENTS. Instruments will be maintained in an operating condition, ready for use at all times.

1. Radiation detection devices will be tested weekly to ensure that the equipment is operational.

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2. Batteries for instruments will not be stored in the instruments. They will be stored outside of the instrument in a separate container to be installed when instrument is ready for use. When available, desiccant bags will be placed in storage with the batteries to prevent moisture damage.

3. The MAG-11 NBCD Officer will publish a schedule for preventive maintenance and calibration of all MAG-11 radiac equipment. Squadrons will turn in their equipment to the MAG-11 NBCD Officer in accordance with this schedule. The MAG-11 NBCD Officer will arrange for transportation of the equipment to and from the Radiac Repair Facility, Ship Repair Facility, Yokosuka, Japan.

4. MADS-11 will hold, maintain, use and /or issue as necessary, all other Radiac instruments required by T/E for the MAG-11 NBCD mission.

604. FILTER UNIT, GAS PARTICULATE. Units will be maintained in an operating condition, ready for use at all times.

1. Unit operating engines will be started and run 15 minutes every month to ensure that unit is operational. Preventive maintenance will be performed at this time.

- a. Suction and blower capability will be checked at this time.
- b. Malfunctions will be reported to the MAG-11 NBCD Officer immediately.

605. M17 AND M9A1 FIELD PROTECTIVE MASKS.

1. M17 field protective masks will be issued to all MAG-11 personnel while in a combat zone.

2. Squadrons of MAG-11 will retain sufficient M9A1 field protective masks to be used with their T/E impermeable protective clothing and accessories as present M17 protective mask and M6 hood are not compatible with the presently available protective clothing.

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SECTION VII
WARNING SYSTEMS

700. GENERAL. Warning systems are specifically designed for the rapid notification of all personnel in the unit concerned of an impending NBC attack. Appendix A, Figure 2, provides a list of code words utilized to initiate various NBCD readiness postures.

701. ALARMS

1. Sirens, horns and/or buzzers are activated for warning of alert condition Yellow and Red.

a. Condition Yellow is signaled by a steady blast of three to five minutes duration.

b. Condition Red is signaled by an undulating tone or a series of short blasts of three to five minutes duration.

2. Signal devices are any metallic object which, when struck rapidly and continuously, produces a sound not easily confused with other sounds.

a. Signal devices may be activated by anyone sensing the presence of any NBC attack or agent other than condition Yellow or Red.

3. Voice. Any individual observing or detecting an NBC attack or agent will first put on his protective mask and then call out "GAS", "MASK" or in case of aircraft spray, "SPRAY" and sound the nearest NBCD signal device.

702. WARNING MARKERS

1. Warning markers for the marking of contaminated areas will be constructed of any rigid material and painted in the manner shown in Appendix A, Figure 4.

2. The markers will be suspended above the ground with the right-angled apex downward and the front side, denoting type of contamination, facing away from the area of contamination.

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SECTION VIII
COMMUNICATIONS

800. GENERAL. The success of NBCD preparations, recovery operations and completion of assigned missions are dependent upon complete, accurate and timely reporting of vital information. Unless otherwise specified, communications relating to NBCD alerts and/or drills and exercises will be handled in the same manner as operational communications.

801. WING LIAISON NET. MAG-11 will enter the Wing Liaison Net whenever Alert Condition Yellow or Red is initiated.

802. INTRA-GROUP COMMUNICATIONS. The following communications will be established upon setting Alert Condition Yellow or Red:

1. Communications will be established between shelters and dispersal areas
2. Radio communications will be established between squadron NBCD units and the MAG-11 NBC-6 Control Center.

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SECTION IX
ALERT AND RECOVERY PROCEDURES

900. GENERAL. Normally, alert condition Yellow and Red will be set by the senior commander within the affected area. However, any commander may set any alert condition within his command provided it does not result in an alert condition less than that established by the senior commander.

901. CONDITION YELLOW PROCEDURES. The following procedures will serve as a guide in the event condition Yellow is set in the MAG-11 area of responsibility while deployed in the field.

1. MAG-11 S-3 or during non-working hours, Command Duty Officer, notifies all MAG-11 Staff Sections and all Squadron Duty Officers of the setting of condition Yellow and will instruct the MAG-11 Security Office and Alert Van to activate their alarm.

2. All Squadron Duty Officers in turn will activate the squadron alarm system and notify all personnel in areas separated from the squadron working areas (i.e. billeting areas, hot pad, bomb dump etc.).

3. All NBC unit personnel are assigned those duties in NBCD as a primary duty once condition Yellow has been set. The NBC units assigned will assemble at their preplanned shelter locations, with the units' working equipment, prepared to conduct their assigned duties in the event of condition Red.

4. All squadrons activate their NBC-6 unit and report the establishment to the MAG-11 NBC-6 unit which will be activated and located in the MAG-11 Control Center.

a. H&MS-11 and MABS-11 assigned personnel will man the MAG-11 NBC-6 unit and Control Center.

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5. All personnel of MAG-11 will carry individual NBCD protective equipment.
6. All NBC unit protection and detection equipment and supplies will be broken out, checked, and issued to NBC unit personnel.
7. All other NBCD recovery equipment and supplies and collective protection equipment and material will be transported to preplanned shelters and/or dispersal areas.
8. MAG-11 Communications Officer sets up and checks all communications indicated in Section VIII and reports completion of same to the MAG-11 NBC-6 Control Center. He also issues portable radios to the assigned NBC-1 units and directs that all other portable radios be transported to assigned shelters or dispersal areas established.
9. Squadron NBC-1 units will take assigned Nuclear Burst Observation Posts, as directed by their squadrons NBCD SOP.
 - a. NBC-1 units will report by radio to the MAG-11 NBC-6 Control Center when in positions.
10. The MAG-11 Supply Officer ensures that additional available clothing and NBCD supplies are transported to shelters and/or dispersal areas and reports completion of transfer to the MAG-11 Control Center.
11. MABS-11 transports rations and drinking water to the assigned shelters and/or dispersal areas as directed by the MABS-11 NBCD SOP and reports completion of transport to the MAG-11 Control Center.
12. The MAG-11 Medical Officer supervises movement of necessary medical supplies and equipment to assigned shelters and/or dispersal areas and activates a first aid station therein and reports completion to the MAG-11 Control Center.

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13. All Squadrons take steps to disperse, evacuate and/or protect equipment and supplies.

14. The MAG-11 NBCD Officer supervises readiness preparations of the NBCD Control Center and reports completion to the MAG-11 Commanding Officer and the Wing NBC-5 unit Control Center.

15. The MAG-11 NBC-6 unit obtains the latest meteorological data at this time and passes it to all Squadron NBCD Officers.

a. Meteorological data will be obtained every four hours starting with the setting of condition YELLOW and terminating only on orders from the Wing NBC-5 unit Control Center.

16. All MAG-11 personnel not required for NBCD or flight operations will proceed to their assigned shelter or dispersal areas.

17. Squadrons will report completion of all condition YELLOW preparations to the MAG-11 Control Center.

18. Upon receipt of all reports of completion of condition YELLOW preparations within MAG-11 the MAG-11 NBCD Control Center will report same to MAG-11 Commanding Officer and the Wing NBCD Control Center.

902. CONDITION RED PROCEDURES. In the event of the setting of condition RED the following procedures and actions will apply:

1. All MAG-11 personnel take cover in shelters and/or dispersal areas.

2. The MAG-11 NBCD Control Center will notify all squadrons of the setting of condition RED using all means of communications available. Upon completion of this action Wing NBCD Control Center will be notified that MAG-11 is prepared to receive an attack.

3. In the event of an attack on the MAG-11 areas of responsibility:

a. All personnel remain in their shelters or under cover until the All Clear has been passed.

(1) Personnel will not watch the attack unless a member of a Nuclear Burst Observation Post.

(2) Once protective masks have been put on they will not be removed except on command of the senior commander in the target area.

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903. RECOVERY OPERATIONS. After it has been determined through intelligence or actual observation that an attack on or effecting MAG-11 has taken place, recovery operations begin immediately.

1. Reports of burst sightings, if nuclear, or location of attack will be sent to the MAG-11 NBCB Control Center from higher echelon or Squadron NBC-1 Observation Posts using report format contained in Appendix A. The MAG-11 NBCD Officer will forward this information to the Wing NBC Control Center and determine the fall-out pattern, if nuclear, or give the alarm to "mask" if attack is chemical or biological. In the event it is determined that the MAG-11 areas of responsibility fall within Zone I of a nuclear burst fallout pattern it would be necessary to evacuate all MAG-11 personnel within that area.

a. In the event of chemical or biological agent attack, reports will be used to determine protection necessary and decontamination procedures required.

2. At the direction of the MAG-11 NBCD Officer, on the basis of information received and evaluated, authorize squadrons to dispatch NBC-1 monitor and survey teams equipped with necessary detection devices to the affected area or areas of squadron responsibility to perform area surveys. Information obtained by these teams will be sent to the MAG-11 NBCD Control Center by the most expeditious means available.

3. On receipt of survey information, the MAG-11 NBCD Control center will plot and record this information and pass it to Wing NBC Control Center. Time of entry, time of stay and/or evacuation of personnel based on type of agent or level of radiation based on the Command Dosage and protection available will determine the speed of recovery measures.

a. The necessity for ground or aerial surveys will be determined by the MAG-11 NBCD Officer.

b. In the event of chemical or biological attack, NBC-1 teams will determine extent and type of contamination and/or take samples of the suspected biological contamination to be forwarded via the MAG-11 Medical Officer to the Wing Preventative Medicine Unit for identification.

(1) All contaminated areas determined unsafe will be marked using appropriate "Stanag" contamination marking signs as described in Figure 1 of Appendix A, of this SOP.

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4. As indicated by information received from NBC-1 survey teams, the MAG-11 NBCD Officer will advise the MAG-11 Commanding Officer as to safe areas for limited or unlimited recovery operations. The MAG-11 Commanding Officer will then assign squadron recovery, rescue, fire fighting and/or decontaminating operations as he deems necessary.

5. Improvised or field personnel decontamination stations will be set up outside the areas of contamination as needed when directed by the MAG-11 Commanding Officer on advice of the NBCD Officer.

6. The decisions to safely leave or evacuate squadron shelters or dispersal areas will be given by the MAG-11 Commanding Officer.

7. Recovery efforts will continue as described above until there is unlimited continuation of the MAG-11 assigned mission.

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SECTION X

RADIATION EXPOSURE LIMITATIONS

1000. GENERAL.

1. Nothing contained in this section will be construed as representing the absolute limits of exposure, either maximum or minimum. The limits as described in the following paragraphs will be used as command limits unless other limits are established as being permissible by the Wing NECD Officer upon advice of and after consultation with the Wing Medical Officer with the exception of intentional exposure for medical reasons. Exposure to ionizing radiation MUST be kept to an absolute minimum in all circumstances.

2. Any project dealing with radioactive materials or a facility with equipment capable of producing ionizing radiation will require that personnel who may become exposed to radiation hazard, wear a dosimetric device and that their exposure be recorded periodically at least once a month. Such exposures shall be recorded on a DD 1141 in accordance with BUMED Instruction 4020. Any record describing an over-exposure is to be immediately reported to the respective medical officer.

1001. DEFINITION. RAD - Unit of absorbed dose of ionizing radiation. It represents absorption of 100 ergs of nuclear (or ionizing) radiation per gram of absorbing material. The RAD is the unit of dose or intensity for record purposes within the United States Armed Forces.

1002. MAXIMUM PERMISSIBLE EXPOSURE LIMITS

1. External Radiation.

a. The accumulated dose of radiation to the whole body, head and trunk, active blood forming organs, gonads or lens of the eye shall not exceed:

(1) 3 RAD in any calendar quarter, nor

(2) 5 (N-18) RAD total lifetime dose, where N equals the present age in years.

b. The accumulated dose of radiation to the skin of the whole body or the thyroid shall not exceed:

(1) 10 RAD in any calendar quarter, nor

(2) 75 RAD in any calendar year.

2. Internal Radiation. The maximum amount of radioactive materials retained in the body shall be limited to that amount which results in an exposure not to exceed the biological equivalent of 0.1 microgram of radium 226 in the bones, nor 15 per year or 5 RAD per calendar quarter for the other organs.

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1003. EXPOSURE.

1. Over-exposure. Any individual whose exposure has exceeded the MPEL per unit of time will be excluded from further exposure to ionizing radiation until sufficient time has elapsed to bring his total exposure within the MPEL.

2. Emergency exposure. In an emergency it may be necessary for fire fighters, ordnance personnel, hospital corpsmen, or other workers to exceed limits prescribed in paragraph 1002 to save life or valuable property. In such situations, the probable effects of high exposure to the rescuer must be weighed against the expected benefits. When an individual has been exposed to more than 3 RAD during such an emergency, he shall be barred from any additional occupation exposure to radiation until he meets the criteria set forth in paragraph 1002.

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SECTION XI

CHEMICAL TROOP SAFETY

1100. GENERAL. The consideration of safe entry into, or withdrawal from, an area downwind of a target attacked with chemical agents by FRIENDLY FORCES for unprotected personnel is a major one. The level of protection that is available to units will not always be the maximum for all types of chemical agents available for use by friendly forces. For this reason this plan for the safety of the Squadrons of MAG-11 personnel has been incorporated into this SOP.

1101. DOWN WIND VAPOR HAZARD PREDICTION MESSAGE.

1. Prior warning for squadrons of MAG-11, downwind of a target to be attacked with one or more chemical, toxic or non-toxic, is disseminated in the form of a Downwind Vapor Hazard Prediction Message (DVHPM). This message will be a series of 5 to 8 digit groups preceded by phonetic letters denoting information necessary to predict the chemical agent hazard by the NBCD Officer.

2. The DVHPM will be originated by unit employing the agent and will be sent to all units in the adjacent areas.

3. The following is an example and explanation of a Downwind Vapor Hazard Prediction Message:

<u>EXAMPLE</u>	<u>MEANING</u>
Precedence	
Date/Time (SULU)	
Security	
From:	
To:	
Type of Message (DVHPM)	Down Wind Vapor Hazard Prediction Message
DELTA PQ825467*	Coordinates of Preselected center of impact pattern.
VICTOR 250800	25 is date; 0800 is the time of attack.
HOTEL 303800	3 is agent code; 03800 is the maximum downwind distance the chemical cloud will travel in meters.

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PAPA 6002000 600 is the radius of the dispersion pattern in meters; 2000 is the maximum width of the cloud, in meters, at the maximum downwind distance.

MIKE 14180* 14 is wind speed in kilometers per hour; 180 is the direction to which the wind is blowing, in degrees.

* DELTA and MIKE information will not be contained in the first DVHPM.

- a. Upon receipt of prior warning of a chemical attack (DVHPM) minus (DELTA) and (MIKE) digit groups, the M1G-11 NBCD Officer and Squadron NBCD Officers will construct, to scale of current area maps, the predicted vapor cloud envelope on a piece of overlay paper or acetate as described in reference (n).
- b. Immediately upon completion of the friendly chemical attack, a Flash Message will be forwarded to all units concerned containing the coordinates of the actual center of impact (DELTA), and the prevailing wind speed and direction (MIKE) at the time the target was attacked.
- c. With the (DELTA) and (MIKE) information the constructed vapor cloud envelope can be oriented readily on the current area map used and an assessment of the effects the units will receive can be determined.

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SECTION XVI

REPORTS

1200. SURVEILLANCE INSPECTION REPORT

1. The surveillance inspection is designed to determine the serviceability of supply shelf NBC material and equipment on hand and to take appropriate action to repair, dispose and replace, where applicable all items that do not meet serviceability standards.

2. Submission will be as follows:

- a. As required by reference (1).
- b. In letter form, no specific format
- c. Via MAG-11, S-3 (Attn: NBC Officer)
- d. To G-3 (Attn: CBR Officer), copy to G-4

1201. NBC DEFENSE QUARTERLY REPORT

1. The NBC Defense Quarterly Report is designed to assist in planning proper assignment of personnel to NBC defense billets, NBC defense school, and keep abreast of current NBC defense training within units.

2. Submission will be as follows:

- a. For the previous quarter no later than three working days after the start of each calendar quarter.
- b. Format in accordance with Appendix A., figure 6, (Quarterly NBC Defense Report Form).
- c. Via MAG-11 S-3 (Attn: NBC Officer)
- d. To G-3 (Attn: CBR Officer)
- e. MAG-11 S-3 will monitor and forward squadron reports together with their report, without additional compilation.

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1202. STANDARDIZED NBC REPORTS

1. Standardized NBC Reports are designed to permit rapid exchange of essential information in the event of an NBC attack. Commands employing friendly NBC weapons are responsible for submitting the appropriate NBC report to higher, lower and adjacent units. The below Reports are submitted through normal command channels to provide NBC control centers with required information. Standardized NBC Reports required are as follows:

- a. NBC-1 - Observers' Initial Report. See Appendix A., Figure 7, (Observers' Initial Report Form for NBC-1 Report).
- b. NBC-2 - Report of Evaluated Data. See Appendix A., Figure 8, (Report of Evaluated data Form for NBC-2 Report).
- c. NBC-3 - Immediate Warning of Expected Contamination. See Appendix A., Figure 9 (Immediate Warning of Expected Contamination Form for NBC-3 Reports).
- d. NBC-4 - Report of Radiation Dose-Rate Measurements. See Appendix A., Figure 10 (Report of Radiation Dose Rate Measurements Form for NBC-4 Report).
- e. NBC-5 - Reports of Areas of Contamination. See Appendix A., Figure 11, (Report of Area Contamination Report Form for NBC-5 Report).
- f. Detailed Toxic Report. See Appendix A, Figure 12, (Detailed Toxic Report Form)

2. Submission will be as follows:

- a. As soon as possible.
- b. To MAG-11 NBC-6 unit or to 1st Marine Aircraft Wing, NBC Control Center if deployed away from MAG-11, for compilation and retransmission to higher echelons.

1203. NBC PERSONNEL STATUS REPORT

1. The NBC Personnel Status Report is designed to assist in keeping abreast of NBC defense personnel training and unit assignments.

2. Submission will be as follows:

- a. Upon receipt of this order or upon joining MAG-11 in case of tactical squadrons.

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b. Format in accordance with Appendix A., Figure 13,
(NBC Personnel Status Report).

c. To MAG-11 S-3 (Attn: NBC Officer)

d. Corrections to the initial report will be submitted
whenever any of the reported information changes. Corrections may
be submitted in memo form.

1204. NBC EQUIPMENT STATUS REPORT

1. The NBC Equipment Status Report is designed to assist
in keeping abreast of the status of NBC defense equipment.

2. Submission will be as follows:

a. Upon receipt of this order or upon joining MAG-11
in the case of tactical squadrons.

b. Format in accordance with Appendix A., Figure 14,
(NBC Personnel Status Report).

c. To MAG-11 S-3 (Attn: NBC Officer)

d. Corrections to the initial report will be submitted
whenever any of the reported information changes. Corrections may
be submitted in memo form.

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APPENDIX "A"
CONTAMINATION MARKERS

1. The warning markers discussed in paragraph 702 will be constructed as depicted below. All markers are in the shape of a right-angled isosceles triangle. The base of the triangle will be approximately 11½" and the sides approximately 8". Each acute angle of the triangle will encompass a ¼" diameter hole. The coloring and markings are in accordance with the provisions of the Standardized Agreement (STANAG).

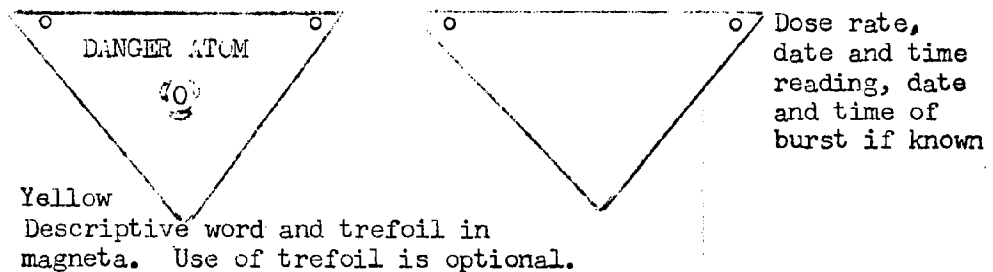
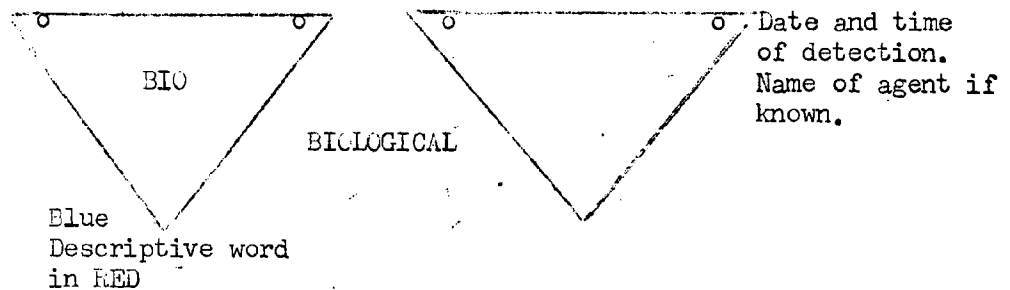
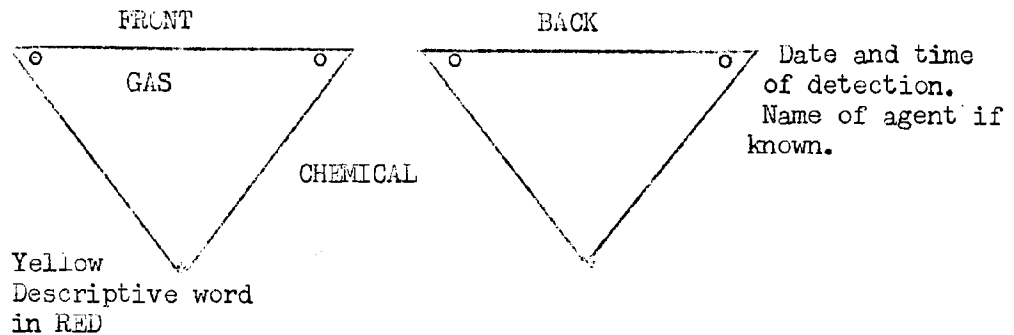


FIGURE # 1 CONTAMINATION MARKERS A-1

(NBC CODE WORDS)

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1. The following code words are applicable to NBC Defense and are drawn from Appendix 3 to Annex K of 1st MAF OpOrder 201-(YR)

<u>EXECUTION TIME OR ORDER</u>	<u>TYPE CONDITION</u>	<u>DEFINITION</u>	<u>REFERENCE</u>
1. ALL CLEAR FLASH BLUE: (U)	Attack Warning Condition (U)	All clear from Friendly Atomic Attack Imminent. (U)	Annex E to WgO O2000.1B,
2. ALL CLEAR FLASH RED AIRBORNE: (U)	Attack Warning Condition (U)	All clear from Airborne Attack Imminent. (U)	Annex E of WgO O2000.1B,
3. ALL CLEAR FLASH RED ATOMIC: (U)	Attack Warning Condition (U)	All clear from Air Atomic Attack Imminent. (U)	Annex E to WgO O2000.1B,
4. ALL CLEAR FLASH RED GAS: (U)	Attack Warning Condition (U)	All clear from Air Gas Attack Imminent. (U)	Annex E to WgO O2000.1B,
5. ALL CLEAR FLASH RUBY AIRBORNE: (U)	Exercise Attack Warning Condition (U)	All clear from Simulated Airborne Attack Imminent. (U)	Annex E to WgO O2000.1B,
6. ALL CLEAR FLASH RUBY ATOMIC: (U)	Exercise Attack Warning Condition (U)	All clear from Simulated Air Atomic Attack Imminent. (U)	Annex E to WgO O2000.1B,
7. ALL CLEAR FLASH RUBY GAS: (U)	Exercise Attack Warning Condition (U)	All clear from Simulated Air Gas Attack Imminent. (U)	Annex E to WgO O2000.1B,
8. ALL CLEAR GAS: (U)	Attack Warning Condition (U)	All clear Enemy or Friendly Gas. (U)	Annex E to WgO O2000.1B,

Figure 2. CODE WORDS

DECLASSIFIED

A-2

A-2

DECLASSIFIED

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<u>EXECUTION TITLE OR ORDER</u>	<u>TYPE CONDITION</u>	<u>DEFINITION</u>	<u>REFERENCE</u>
9. APPELLACK: (U)	Condition of Simulated Air Defense warning (U)	Simulated Air Defense Warning Red. (U)	WGO 2119.1D
10. BRANING IRON: (U)	Simulated Dispersal Condition (U)	Simulated Dispersal Condition ALFA, meaning an actual exercise dispersal of ships and aircraft. (U)	Annex D to CINCPACFLT OP-ORDER 201-(YR)
11. BRANING IRON MENUS: (U)	Simulated Dispersal Condition (U)	Simulated Dispersal Condition ALFA, meaning an actual exercise dispersal of ships and a simulated exercise dispersal of aircraft. (U)	Annex D to CINCPACFLT OP-ORDER 201-(YR)
12. BRANING IRON CPX: (U)	Simulated Dispersal Condition (U)	Simulated Dispersal Condition ALFA, meaning a Command-Post Exercise in which the dispersal of ships and aircraft is simulated. (U)	Annex D to CINCPACFLT OP-ORDER 201-(YR)
13. CEMAS SUMP: (U)	Simulated Exercise Condition (U)	Simulated Nuclear Detonation. (U)	WGO 2119.1D
14. J- SUMP - 101 A- INITIAL: (U)	Station Initial Fallout Report (U)	Report is prepared whenever radiation intensity reaches 200 milliroentgens per hour (200 mr/hr) in order to notify the installation commander and the appropriate Evaluation and Warning Teams. (U)	CINCPACFLT INST 003401.3D
15. 2 - CCMOS - 101 A - EVALUATION: (U)	Fallout Evaluation Report (U)	Report is prepared upon receipt of information that there has been a nuclear detonation. (U)	CINCPACFLT INST 003401.3D

Figure 2 CODE WORDS

DECLASSIFIED

DECLASSIFIED

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<u>EXECUTION TITLE OR ORDER</u>	<u>TYPE CONDITION</u>	<u>DEFINITION</u>	<u>REFERENCE</u>
16. 3-COMOC-101 A-HOURLY: (U)	Station Hourly Fallout Report (U)	This report provides an hourly amplification to the 1-COMOC- 101 A-INITIAL report. (U)	GENOPACFLR INST 003401.3D
17. 4-COMOC-101 A-MAXIMUM: (U)	Station Maximum Fallout report (U)	This report provided whenever maximum intensity is reached after radiation intensity reaches 200 milliroentgens per hour. (U)	GENOPACFLR INST 003402.3D
18. FLASH BLUE: (No. of minutes) (U)	Attack Warning Condition (U)	Friendly Atomic Attack Imminent. (U)	Annex E to W3C 02000.1B,
19. FLASH RED AIRBORNE: (U)	Attack Warning Condition (U)	Airborne Attack Imminent. (U)	Annex E to W3C 02000.1B, 7
20. FLASH RED ATOMIC: (U)	Attack Warning Condition (U)	Air Atomic Attack Imminent. (U)	Annex E to W3C 02000.1B,
21. FLASH RED GAS: (U)	Attack Warning Condition (U)	Air Gas Attack Imminent. (U)	Annex E to W3C 02000.1B,
22. FLASH RUBY AIRBORNE: (U)	Exercise Attack Warning Condition (U)	Simulated Airborne Attack Imminent. (U)	Annex E to W3C 02000.1B,
23. FLASH RUBY ATOMIC: (U)	Exercise Attack Warning Condition (U)	Simulated Air Atomic Attack Imminent. (U)	Annex E to W3C 02000.1B,

Figure 2 CODE WORDS

DECLASSIFIED

DECLASSIFIED

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<u>EXECUTION TITLE OR ORDER</u>	<u>TYPE CONDITION</u>	<u>DEFINITION</u>	<u>REFERENCE</u>
24. FLASH RUBY GAS: (U)	Excursion Attack Warning Condition (U)	Simulated Air Gas Attack Imminent. (U)	Annex D to WgO 02000.1B,
25. GAS: (U)	Attack Warning Condition (U)	Enemy or Friendly Gas. (U)	Annex E to WgO 02000.1B.
26. LEMON JUICE: (U)	Condition of Simulated Air Defense Warning. (U)	Simulated Air Defense Warning Yellow. (U)	WgO 2110.1D
27. SNOW MAN: (U)	Condition of Simulated Air Defense Warning (U)	Simulated Air Defense Warning White. (U)	WgO 2110.1D
28. WARNING RED: (U) (Take cover)	Condition of Air Defense Warning (U)	Air attack is imminent or is taking place. (U)	WgO 2110.1D
29. WARNING WHITE: (U) (All Clear)	Condition of Air Defense Warning (U)	Air attack is over and/or no further danger of immediate attack exists. (U)	WgO 2110.1D
30. WARNING YELLOW: (U) (Alert)	Condition of Air Defense Warning (U)	Air attack is probable. Unidentified aircraft suspected to be hostile are enroute toward an air defense sector. (U)	WgO 2110.1D

Figure 2 CODE WORDS

DECLASSIFIED

A-5

DECLASSIFIED

QUARTERLY NBC DEFENSE REPORT

GriO P3440.III
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1. NBC Defense Officer (Note #1)

NAME	RANK	MOS	NBC SCHOOLS ATTENDED	LENGTH & DATE COMPLETED	PHONE	ROTATION DATE
------	------	-----	-------------------------	----------------------------	-------	------------------

2. NBC Defense NCO (Note #1)

NAME	RANK	MOS	NBC SCHOOLS ATTENDED	LENGTH & DATE COMPLETED	PHONE	ROTATION DATE
------	------	-----	-------------------------	----------------------------	-------	------------------

3. Number of S/M's assigned to unit Primary Secondary

4. Number of officers who have attended NBC schools two (2) weeks or longer

5. Number of enlisted who have attended NBC schools two (2) weeks or longer

6. Number of man hours of training conducted with personnel donned in protective masks

7. Gas Chamber: Total Unit Strength (For this report period)

		Attendance	
Officers	Enlisted	No. Officers	No. Enlisted

SUBJECT OR TYPE	NO. PERSONNEL ATTENDED		TOTAL HOURS INST.
	OFFICERS	ENLISTED	

8. BASIC TRAINING NBC

9. UNIT TRAINING (Note #1)

10. TEAM EXERCISES

FOOTNOTES:

1. If NBC Defense Officer or NCO are not school trained in accordance with WgO 1550.2 indicate on attached sheet intentions to fulfill this requirement. Indicate proposed date.

2. Other than required quarterly drill.

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NBC-1 REPORT

1. NBC 1 Report follows the same format as the SHELLREPS, MORTREPS, and BOMREPS which are included in STANG 2008 dealing with conventional enemy attacks.

2. The items "Type of Report", D, H and either items B and C or item F must always be reported; other items are optional.

3. Users of NBC-1 are not confined solely to the use of letter items shown in the examples, other letter items may be added at the user's discretion.

<u>LETTER MEANING</u>	<u>EXAMPLE</u>	<u>EXAMPLE</u>	<u>EXAMPLE</u>
	<u>NUCLEAR</u>	<u>TOXIC</u>	<u>BIOLOGICAL</u>
*Precedence			
Date/Time (ZULU)	_____	_____	_____
Security	_____	_____	_____
From:	_____	_____	_____
To:	_____	_____	_____
Type of Report	NBC 1 NUCLEAR	NBC 1 TOXIC	NBC 1 BIOLOGICAL
A. Strike serial no. (if known)			
B. Position of observer (UTM or place)	B.LB 196400	MARVILLE	
C. Grid or magnetic (say which) bearing or azimuth of attack from observer (in degrees or mils, say which)	C. GRID 60 DEGREES	MAGNETIC 60 DEGREES	
D. Date/time attack started (ZULU)	D.201405Z	201405Z	201405Z
E. Illumination time (secs) or time attack ended	E.4	201412	
F. Location of attack (UTM or places)(actual or estimated, say which)			LB 2030 ACTUAL
G. Means of delivery, if known		G.Aerial spray	

Figure 4 OBSERVERS' INITIAL REPORT (NBC-1)

Form 10440, III
13 December 1965

H.	Type of burst, air, surface or unknown, or type of toxic agent, if known, or type of attack, (BW, CW registration, harassing etc.)	H.Surface	H.Nerve	H.Biological
I.	Number of shells, etc.			
J.	Flash to bang time (secs)			
K.	Grater present or absent and diameter if known (meters)			
L.	Fireball width, immediately after passage of shock wave (sound of detonations)(degrees or miles, say which)			
M.	Cloud height top or bottom 10 mins after burst(degrees mils meters or feet say which)	M. 40,000 feet top		

Figure 4 Cont'd. OBSERVER'S INITIAL REPORT

NBC-2 REPORT

Form E3440.1H
18 December 1965

1. This report is normally based on two or more NBC forms 1. It is included and estimated GZ and in the case of nuclear detonations an evaluated yield.

2. When adjacent agencies e.g. Navy and National NBC defense use a different fallout prediction system, this form may be sent to provide basic data for their fallout computations.

3. Items A, D, F, H and N may be repeated as often as necessary to produce a summary report.

4. Users of NBC 2 are not confined solely to the use of the letter items shown in the examples, other letter items may be added at user's discretion.

<u>LETTER</u>	<u>MEANING</u>	<u>EXAMPLE</u>	<u>EXAMPLE</u>
	Precedence	NUCLEAR	TOXIC
	Date/Time (Z)	_____	_____
	Security	_____	_____
	From:	_____	_____
	To:	_____	_____
	Type of Report	NBC-2 NUCLEAR	NBC-2 TOXIC
A.	Strike serial number	A. 24	A. 1
D.	Date/time attack started (ZULU)	D. 201405Z	D. 200945Z
F.	Location of attack (UEM or place) (actual or estimated, say which)	F. LB 187486 Actual	F. LB 126456 Estimated
G.	Means of delivery if known		
H.	Type of burst, air, surface or unknown (say which), or type of toxic agent	H. Surface	H. Nerve
N.	Estimated yield (KT)	N. 50	

Figure 5 EVALUATED DATA (NBC-2)

Form 3410, 11
13 December 1965

NUCLEAR WARNING

1. Users of NBC 3 are not confined solely to the use of the letter items shown in the examples; other items may be added at the user's discretion.

LETTER	MEANING	EXAMPLE	EXAMPLE
	Precedence	NUCLEAR	TOXIC
	Date/Time		
	Security	(a telephone or radio message)	
	From		
	No.		
	Type of Report	NBC 3 NUCLEAR	NBC 3 TOXIC
D.	Date/Time Attack Started (ZUUU)	D. 201405Z	D. 201405Z
F.	Location of attack (UTM or place) (actual or estimated, say which)	F. LB 187486	F. LB 187486
P.	Area of expected contamination (UTM)		P. LB 300320 LB 210020 LB 300310
Y.	Bearing or azimuths of the left and right radial lines (degrees, nulls, say which, four (4) digits each)	Y. 0272-0312	
Z.	Effective wind speed (kph), 3 digits; downwind distance of home 1 (km), 3 digits; cloud ceiling (kft), 3 digits	Z. 019-025-05	

Figure 6 IMMEDIATE WARNING OF EXPECTED CONTAMINATION (NBC-3)

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NEC-4 REPORT

1. Letter items Q, R and S may be repeated as often as necessary.
2. Radiation dose rates are measured in the open, one meter above ground. Other conditions will be specified in the message.
3. Users of NEC 4 are not confined solely to the use of the letter items shown in the examples, other letter items may be added at the user's discretion.

LETTER MEANING

EXAMPLE

Precedence
Date/Time (Z)
Security
From:
To:
Type of Report

NEC-4

- | | |
|---|---|
| <p>Q. Location of reading</p> <p>R. Dose rate (r per hour). The words "Initial", "Increasing", "Peak", or "Decreasing" may be added. When decay rate is reported, the words "Decay Fast", "Decay Normal", "Decay Slow", or the actual value of decay constant may be inserted.</p> <p>S. Date/Time of reading (zulu) (This is <u>NOT</u> normalized to H+1 hour).</p> | <p>Q. LB 123987</p> <p>S. 201735</p> <p>Q. LB 129965</p> <p>R. 60</p> <p>S. 201650Z</p> <p>Q. LB 146808</p> <p>R. 27 Increasing</p> <p>S. 201710Z</p> |
|---|---|

FIGURE 7.0 REPORT OF RADIATION DOSE RATE MEASUREMENTS (NBC-4)

GrnO 3440.1H
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NBC-5 REPORT

1. The form is best sent by means of a trace or overlay if time and distance permit.
2. When the contamination arises from a single enemy or unidentified burst, the dose rate will always refer to H+1 hour, and the letter item T will be used. But when there have been several detonations at different times or on different days and not a single H+1 hour is possible then the dose rates will be reported as at a specified time using letter item O. Letter items O and T are therefore alternative and cannot both be used in the same report.
3. It is not necessary or even desirable to report all four of the contours of different dose rates. Four are given to provide flexibility. (In the example only two are reported).
4. Letter item X is used for chemical areas of tactical significance.
5. When a contour closes to form a complete ring, the first coordinate is repeated at the end (see example for 300r/hour).
6. Colors when used in plotting, and when sending the report by means of a trace, are as follows:
 - Red for 1000 r/hr.
 - Green for 300 r/hr.
 - Blue for 100 r/hr.
 - Black for 30 r/hr.
 - Yellow for chemical and biological contamination.
7. Contour lines will be annotated with the dose rates.
8. Decay rates will be transmitted when requested.
9. Users of NBC 5 are not confined solely to the use of the letter items shown in the examples, other letter items may be added at the user's discretion.

FIGURE 8. REPORT OF AREAS OF CONTAMINATION (NBC-5)

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<u>LETTER</u>	<u>MEANING</u>	<u>EXAMPLE</u>	<u>EXAMPLE</u>
	Precedence	-----	-----
	Date/Time	-----	-----
	Security	-----	-----
	From:	-----	-----
	To:	-----	-----
	Type of Report	NBC 5 Nuclear	NBC 5 TOXIC
A.	Strike serial number(s) causing contamination (if known)	A. 24	A. 1
O.	Reference Date/Time for estimated contours (see note 2, above) when not H+1 hour.		
T.	H+1 date/time	T. 201505Z	T. 201445Z
U.	1000 r/hr Contour line coordinates		
V.	300 r/hr contour line coordinates	V. ND 651455 ND 810510 ND 821459 ND 651455	
W.	100 r/hr contour line coordinates	W. ND 605718 ND 991686 ND 114420 ND 595007	
X.	30 r/hr contour line coordinates, or area of tactical significance of TOXIC contamination (State if TOXIC)		X. TOXIC ND 206991 ND 201575 ND 200787 ND 206991

Figure 3 REPORT OF AREAS OF CONTAMINATION (NBC-5)

FORM 3440.1H
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DETAIL TOXIC REPORT

Purpose: The detailed toxic report is the standard method of rendering detailed toxic reports. While speed is essential in the initial report, accuracy is the essence of the detailed report, and to this end the form is not intended for radio/wireless transmission except in an emergency.

Format:

1. Unit attacked or locating contamination.
2. Date/time.
 - a. Attack began.
 - b. Attack ended.
 - c. Time alarm given
 - d. Time contamination was found.
3. Location.
 - a. By grid reference.
 - b. By overlay, by sketch.
 - c. Approximate area, length/width.
(Specify yards or meters)
4. Method of delivery (Note approximate number of rounds, bombs, or aircraft).
 - a. Artillery.
 - b. Mortar.
 - c. Rocket.
 - d. Bomb.
 - e. Spray.
 - f. Other (describe).
5. Agent employed.
 - a. Type (CW, BW, or HW).

Figure 8 DETAILED TOXIC REPORT

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- b. Identification.
- c. If not identified give:
- (1) Odor.
 - (2) Appearance.
 - (3) Persistence.
 - (4) Other characteristics.
- d. Radiac readings.
-rad/hr at(time) at (location)
rad/hr at(time) at (location)
rad/hr at(time) at (location)
- e. Samples taken (date/time) Sent to _____
- (1) Earth.
 - (2) Vegetation.
 - (3) Water.
 - (4) Air.
 - (5) Other (describe).
6. Effects on troops.
- a. Number exposed (estimate): _____
 - b. Wounded: _____
 - c. Killed: _____
 - d. Evacuated: _____
 - e. Action of agent on personnel: _____
7. Weather and terrain.
- a. Wind speeds and directions.
 - b. Estimate or describe.

Figure 9 Cont'd - DETAILED
TOXIC REPORT

Form 3440-1H
13 December 1965

- (1) Temperature.
 - (2) Precipitation.
 - (3) Humidity.
 - (4) Sky condition.
 - c. Terrain (describe).
 - d. Vegetation (describe).
8. Action of enemy.
- a. Before attack.
 - b. After attack.
9. Remarks (to include following details of TOXIC discipline).
- a. General Standard.
 - b. Quarantine or isolation precautions taken.
 - c. Adequacy of protective equipment.

Figure 2 Cont'd. DETAILED
TOXIC REPORT

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1. List all NBC Equipment Authorized.

NOMENCLATURE	AMOUNT AUTHORIZED	AMOUNT ON HAND	AMOUNT UNSERVICEABLE OR OBSOLETE	AMOUNT ON ORDER	DATE ORDERED

Figure # 11
 NBC Equipment Status Report