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PASSIVE AIR DEFENSE MANUAL
FEB. 1944

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ALLIED FORCE HEADQUARTERS
APO 512

MS 384.51

PASSIVE AIR DEFENSE (P.A.D.) MANUAL

Foreword

The contents of this Manual include Passive Air Defense (P.A.D.): Measures, Organization, Operations and Training. The practical experiences of campaigns in the North African Theater have demonstrated that the effects of enemy air attack on military personnel and installations can be minimized by the application of P.A.D. measures under a central control. The need for P.A.D. depends upon the situation. The completeness of P.A.D. depends upon the Commander. Security is the responsibility of command.

Although this Manual was designed primarily for American Forces, it can also be used by British P.A.D. Officers. Main variations in terminology will be found in "Appendix D".

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1 February 1944

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P.A.D. MANUAL
(tentative)

CHAPTER I
GENERAL

1. PURPOSE - This Manual is designed primarily, for use by P.A.D. Staff Officers as a guide in their establishment of P.A.D. It may be used also by organization commanders, and staff officers whose duties include operations, plans and training.

2. DEFINITION - The term Passive Air Defense (P.A.D.) as employed in this Manual, means measures taken to counteract the effects of enemy action such as those caused by air attacks, bombardments, delayed action mines and booby traps. It does not include passive measures such as barrage balloons and smoke coverage, whose mission is to harass and prevent effective enemy action. These latter measures are a part of the active air defense.

3. MISSION OF P.A.D. - The mission of P.A.D. is to mitigate the effects of enemy air attack on personnel, stores and equipment in order that the displacement of normal operational functions is reduced to a minimum.

4. APPLICATION OF P.A.D. - The application of P.A.D. will vary with the situation.

a. In Tactical Forces in the field under combat conditions, P.A.D. consists of normal security measures. Added P.A.D. measures must be taken when units are bivouaced or quartered in or near towns and cities.

b. In Base Sections, P.A.D. consists of reinforcing and coordinating normal security measures through a P.A.D. Control Center.

5. NORMAL SECURITY MEASURES - The subject matter of normal security measures, listed below, is covered in official publications. Further reference must be made to pertinent publications issued in the Theater of Operations concerned.

- a. Blackouts and Dimouts.
- b. Personnel Protection.
- c. Air Raid Warning.
- d. Fire Prevention.
- e. Unexploded Bombs, Mines, and Booby Traps.
- f. War Gases.
- g. First Aid.

CHAPTER II

ORGANIZATION

SECTION

I Personnel

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b. In Base Sections, P.A.D. consists of reinforcing and coordinating normal security measures through a P.A.D. Control Center.

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- f. War Gases.
- g. First Aid.

CHAPTER II

ORGANIZATION

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SECTION I

PERSONNEL

6. FULL TIME PERSONNEL - Army, Task Force, Base, District and Sub-Area Headquarters should normally employ full time P.A.D. Staffs. It is the responsibility of British Commanders to request that P.A.D. personnel be included in their War Establishment as required. U.S. Manning tables and tables of organization do not include personnel specifically for P.A.D. It is, however, within the responsibility of the U.S. Commanders at their discretion to provide personnel for full time P.A.D. work. Full time P.A.D. personnel when appointed for the P.A.D. sections of the Headquarters, should work under G-3 (C-Ops).

7. PART TIME PERSONNEL - In formations where no special P.A.D. staff is authorized, Commanders are responsible that personnel are detailed to carry out necessary P.A.D. work in addition to other duties. Each Corps, Division, Regiment or Separate Battalion require one part time P.A.D. officer. Companies or similar units require two part time N.C.O.'s.

SECTION II EQUIPMENT

8. EQUIPMENT FOR FULL TIME PERSONNEL - The only extra equipment needed by full time personnel is a switchboard and telephones. Such equipment will be arranged locally.

9. EQUIPMENT FOR PART TIME PERSONNEL - Part time personnel, and units furnishing specialized services will use organic equipment.

CHAPTER III
OPERATIONS

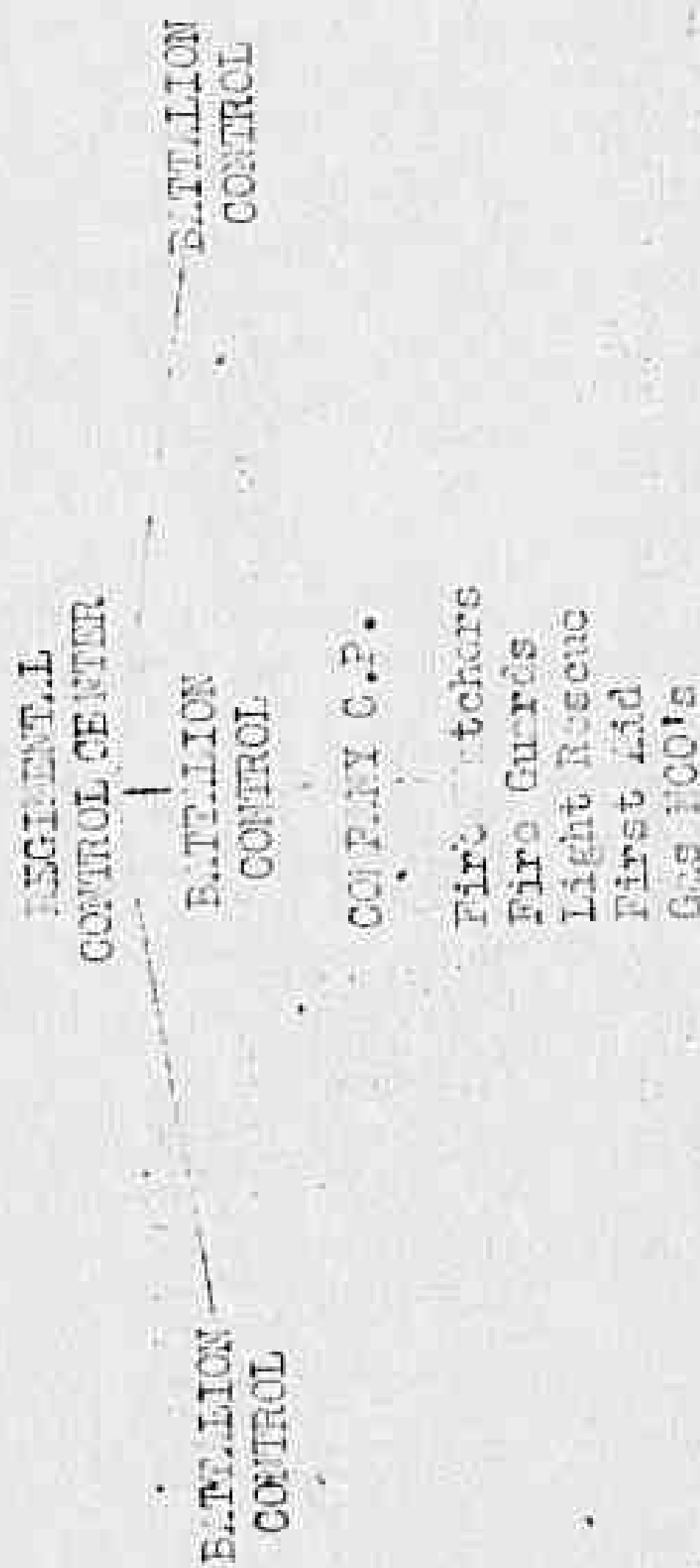
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SECTION I TACTICAL FORCES

10. EXTENT - The situation determines the extent of P.M.D. operations.

a. When large units are bivouaced in towns and cities they may be required to establish a P.M.D. Control Center similar to that set up in Base Sections. (Paragraphs 15 - 18.)

b. Smaller units such as Regiments and Battalions may establish a Regimental or Battalion P.M.D. Control Center. For example:



NOTE: a. Control Center should be established at battalion level to dispatch P.M.D. Services, such as Light Rescue Squads, to units which need assistance.

At Regimental level there should be a Control Center to coordinate the battalions. For example; if a battalion bivouacs, barracks, or supply area has received a heavy bombing, it may be necessary to call on adjoining units for P.M.D. Services. This would be handled through a Regimental Control Center. Also, since some battalions may not be self-sufficient they may find it necessary to call on adjoining units for assistance. This will be directed through Regimental Control Center.

BATTALION
CONTROLBATTALION
CONTROLBATTALION
CONTROL

COMPANY C.P.

Fire Detachments
Fire Guards
Light Rescue
First Aid
Gas HOO's

NOTE: Control Center should be established at battalion level to dispatch P.A.D. Services, such as Light Rescue Squads, to units which need assistance.

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11. FUNCTION OF P.A.D. OFFICERS - The function of full time and part-time P.A.D. Officers are:

- a. Advise the Commander on matters pertaining to P.A.D. and Civil Defense organization, operation, and training.
- b. Prepare training and operational plans that will extend to the troop level.
- c. Provide operational control for P.A.D. Services and coordinate other services.
- d. Receive, consolidate and interpret data on P.A.D. activities.
- e. Maintain P.A.D. records.
- f. Make necessary inspections to determine the efficiency of P.A.D. operation and training.
- g. Establish and maintain liaison with Civil Defense through proper channels.

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SECTION II
BASE SECTIONS

12. EXTENT - The extent of enemy activity is the determining factor of P.A.D. operations. Where there is activity and the Base Section is extensive in area, with high concentration of troops and installations, additional P.A.D. Control Centers may be required. The operations in the following paragraphs are based on average situations.

13. FUNCTIONS OF P.A.D. STAFF OFFICER - In addition to the duties listed for P.A.D. Officers in paragraph 11, the P.A.D. Officers of Base Sections normally have additional functions. These are:

a. Recommend P.A.D. Staff Section for a Base District when military installations exist which warrant such establishment.

b. Arrange plan for mutual assistance between Districts when such is possible.

c. Devise P.A.D. scheme for military installations too small to be established as Base Districts.

d. Recommend subdivisions of the Base District into sectors when necessary. Consideration will be given to geographical barriers, communications, and distribution of supplies and personnel. Sectors will be constituted to be as self-sufficient as possible.

e. Establish Control Centers to direct P.A.D. Services, and to coordinate other services.

14. PLANS - P.A.D. plans for a Base Section normally include a Pre-Occupation, Interim, and Final Plan. These are prepared by the P.A.D. Staff Officer.

a. The Pre-Occupation Plan is issued as a part of a movement order. During this phase all general and special staff officers concerned must be contacted to assure coordination.

(1) "P.A.D. Staff Officers Preplanning Check List", Appendix A-1, names the officers and states the subject matters which may be coordinated before the Pre-Occupation Plan is issued.

(2) "P.A.D. Pre-Occupation Plan", Appendix A-2, indicates the P.A.D. measures that may be coordinated in the planning phase.

b. The "P.A.D. Interim Plan", issued within 24 hours of occupation, serves until the Base installations become more stable. Normally, the Interim Plan is the Pre-Occupation Plan with an Appendix.

(1) "Appendix to Pre-Occupation Plan", Appendix A-3, adds the detailed information needed to complete the "Pre-Occupation Plan" and to establish the "Interim Plan".

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(1) "Appendix to Pre-Occupation Plan", Appendix A-3, adds the detailed information needed to complete the "Pre-Occupation Plan" - and to establish the "Interim Plan". Such information can be secured only after occupation.

c. The "P.A.D. Final Plan" will replace the "Interim Plan" and will be issued when installations become stabilized.

(1) "P.A.D. Final Plan", Appendix A-4, is a form indicating the P.A.D. measures that may be applied in a static base.

15. CONTROL, GENERAL - In situations requiring a P.A.D. Control Center, it is generally necessary to subdivide the area into sectors and to establish and maintain Sector Control Posts. Such Posts will be coordinated through the P.A.D. Control Center.

a. Factors determining the maximum size of the sector are:

(1) Topography, which will include all geographical barriers such as distance, rivers, etc.

(2) Lines of communication, which are required for rapid reporting, coordinating and dispatching.

(3) The dispersion of military installations and personnel.

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16. P.A.D. CONTROL CENTER - The Control Center directs P.A.D. Services and coordinates such other services as may be required at an incident.

a. The minimum personnel required for operations in the P.A.D. Control Center during enemy action are: P.A.D. Controller (P.A.D. Staff Officer), switchboard operator, and two clerks. The messengers with transportation should be detailed to report on alerts.

(1) The duties of the personnel are:

- (a) Receive and dispatch air raid warnings to those concerned.
- (b) Receive incident reports, dispatch P.A.D. Services and coordinate other services as the situation requires.
- (c) Keep and consolidate records of all incidents such as; number, types and patterns of bombs, and all damages and casualties.

b. Telephone will be the primary means of communication. In the event of breakdown of telephone communications, messengers will be employed.

- (1) P.A.D. Control Center requires a telephone switchboard.
- (2) Report forms used by Control Center in receiving incident reports by telephone should be the identical form as used by the reporting agency.
- (3) "P.A.D. Control Center Telephone Switchboard", Appendix A-6, indicates the lines of communication required from the Control Center.

c. "Services," Appendix A-7, indicates the services directed and coordinated through Control Center. The composition of services directed is covered in paragraph 21. Services coordinated are listed in paragraph 22.

d. Incident Reports from sectors consist of "Preliminary, Interim, and Survey Reports".

- (1) "Preliminary Report" gives immediate available information.
- (2) An "Interim Report" gives further information and also may request additional assistance.
- (3) A "Survey Report" gives complete information as soon as possible after Preliminary or Interim Reports.

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- (3) A. "Survey Report" gives complete information as soon as possible after Preliminary or Interim Reports.

NOTE: See Appendix A-5 for report forms.

4. Daily reports concerning availability of P.A.D. Services should be received from Center Controller and others concerned.

5. The operations of a P.A.D. Control Center require the use of control panels and maps.

- (1) The control panel should show the number of P.A.D. Services available, location by sectors, and such other information as required to keep the Control Center informed.
- (2) "P.A.D. Control Center-Control Panel", Appendix A-8, is a type of control panel that may be used.
- (3) The maps should contain information of all pertinent data, such as; sector boundaries, posts, P.A.D. Services, etc.

6. Liaison must be established and maintained between the P.A.D. Control Center and the local Civil Defense Control Center. The general policy concerning relationships between Passive Air Defense and Civil Defense is covered in Chapter 6.

- (2) Report forms used by Control Center in receiving incident reports by telephone should be the identical form as used by the reporting agency.
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NOTE: See Appendix A-5 for report forms.

e. Daily reports concerning availability of P.A.D. Services should be received from Sector Controllers and others concerned.

f. The operations of a P.A.D. Control Center require the use of control panels and maps.

- (1) The control panel should show the number of P.A.D. Services available, location by sectors, and such other information as required to keep the Control Center informed.
- (a) "P.A.D. Control Center-Control Panel", Appendix A-8, is a type of control panel that may be used.
- (2) The maps should contain information of all pertinent data, such as; sector boundaries, posts, P.A.D. Services, etc.

g. Liaison must be established and maintained between the P.A.D. Control Center and the local Civil Defense Control Center. The general policy concerning relationships between Passive Air Defense and Civil Defense is covered in Chapter 6.

17. SECTOR CONTROL POST - Sector Control Post directs the P.A.D. Services previously designated by Control Center and reports all incidents to Control Center, together with any requests for additional assistance.

a. The Control Post should be established with a unit which is a part of, and likely to remain stable in, the Base.

b. The minimum personnel required for operations during an alert are: Sector Controller (or duty officer), a clerk, and two messengers. There should be at least one person in the Control Post at all times.

c. When an incident occurs, and there is reason to believe that there are casualties, the Sector Controller will:

- (1) Send out one Light Rescue Squad immediately.
 - (2) Notify P.A.D. Control using "Preliminary Report".
 - (3) If necessary, appoint an Incident Officer or NCO to take charge and keep the Sector Controller informed.
 - (4) Submit complete information of incident on "Survey Report".
- d. Daily reports regarding availability of P.A.D. Services will be made to Control Center as directed.
- e. Records should be kept of all incidents and P.A.D. activities.

18. UNITS - All units must be familiar with the P.A.D. plan of the area. Each unit should prepare instructions to insure proper functioning in the area P.A.D. plan. Certain units will furnish P.A.D. Services.

a. Every unit should post fire watchers and fire guards during alerts and know what action to take when an incident occurs in the area.

- (1) Fire Watchers should report all fires.
- (2) Fire Guards should be prepared to furnish initial fire protection.
- (3) When an incident occurs:
 - (a) "Fireguards", Appendix B-1, lists personnel and equipment.
 - (a) Take all emergency measures with available facilities.
 - (b) Appoint an officer or NCO to take command at incident.
 - (c) Report incident to Sector Control Post and request assistance if necessary.

c. Records should be kept of all incidents and P.A.D. activities.

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(a) "Fireguards", Appendix B-1, lists personnel and equipment.

(3) When an incident occurs:

(a) Take all emergency measures with available facilities.

(b) Appoint an officer or NCO to take command at incident.

(c) Report incident to Sector Control Post and request assistance if necessary.

b. Units furnishing P.A.D. Services to Control Center or Sector Control Posts will report their status daily. Any changes in location of the unit will be promptly reported.

CHAPTER IV SERVICES

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SECTION

I Tactical Forces

II Base Sections

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SECTION I

TACTICAL FORCES

19. GENERAL - a. The services required by Tactical Forces engaged in combat, are provided by normal security measures.

b. Tactical Forces, when not engaged in combat, may require services comparable to those required in Base Sections. These services are covered in paragraphs 20 - 22.

SECTION II BASE SECTION

20. GENERAL - P.A.D. Services are units or personnel directed through P.A.D. Control Center. Other services are coordinated through Control Center.

21. DIRECTED THROUGH CONTROL CENTER - a. Light Rescue Squads. Each company or similar unit will form and train at least one Light Rescue Squad. Their functions will be the removal of casualties wherever possible, and to render First Aid when necessary.

(1) "P.A.D. Training for Companies or Similar Units", Appendix C-5, states the training required for these squads.

(2) "Light Rescue Squads", Appendix B-1, lists the personnel and equipment.

b. Heavy Rescue Squads. These are composed of personnel selected from engineer units possessing equipment required for the removal of trapped casualties.

(1) Paragraph 23 g. deals with the training required for these squads.

(2) "Heavy Rescue Squads", Appendix B-1, lists the personnel and equipment.

c. Work Parties. These are employed in situations which require manual labor. No special training is necessary. The equipment needed will depend upon the situation.

(1) "Work Parties", Appendix B-1, lists the personnel.

d. Ambulances. The P.A.D. Control Center will normally direct ambulances during alerts. A driver and medical orderly should be assigned to each vehicle.

22. COORDINATED THROUGH CONTROL CENTER - These services, normally employed for security measures must be coordinated through Control Center.

e. Some, such as blackouts, personnel protection, fire prevention, etc., do not require specialized personnel.

f. Others require specialized personnel. These are supervised or directed by the following agencies:

- (1) Air Raid Warning.
- (2) Fire Fighting.
- (3) Medical.

c. Work Parties. These are employed in situations which require manual labor. No special training is necessary. The equipment needed will depend upon the situation.

(1) "Work Parties", Appendix E-1, lists the personnel.

d. Ambulances. The P.A.D. Control Center will normally direct ambulances during alerts. A driver and medical orderly should be assigned to each vehicle.

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a. Some, such as blackouts, personnel protection, fire prevention, etc., do not require specialized personnel.

b. Others require specialized personnel. These are supervised or directed by the following agencies:

- (1) Air Raid Warning.
- (2) Fire Fighting.
- (3) Medical.
- (4) Military Police.
- (5) Chemical Warfare.
- (6) Signal.
- (7) Repair (Utilities).
- (8) Quartermaster.
- (9) Bomb Disposal.
- (10) Engineer (General Service).

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SECTION I GENERAL

23. GENERAL - P.A.D. training is divided into two phases; namely, for P.A.D. organization personnel, and for units. The extent of this training is determined by the need for P.A.D. operations. (Ref: paragraph 10.) All training will be supervised by P.A.D. Staff Officers.

SECTION II

P.A.D. ORGANIZATION PERSONNEL

24. P.A.D. STAFF OFFICERS - The training should be conducted by an experienced P.A.D. Staff Officer and includes:

- a. General training in all P.A.D. measures and services.
- b. Extensive training in P.A.D. organization, operations, and training.
- c. "Training Program for P.A.D. Staff Officers", Appendix C-1, indicates the scope of training.

25. PART-TIME P.A.D. OFFICERS AND NCO'S - The training of part-time P.A.D. Officers and NCO's will be supervised or conducted by P.A.D. Staff Officers.

a. The scope of this training should include organization, services, operations, and training.

b. Appendices C-2, C-3, and C-4, state the scope of this training for the personnel of units indicated.

- (1) C-2 "Training Program for P.A.D. Officers of Corps, Division, Regiment, and Battalion".
- (2) C-3 "Training Program for P.A.D. NCO's of Companies or similar units."
- (3) C-4 "Training Program for Sector Controllers".

SECTION III UNIT

26. GENERAL - All Units should have general training in Passive Air Defense. This includes normal security measures and the establishment of light rescue squads. Certain units will furnish specialized services. This training should be conducted by personnel of the appropriate area or Service.

27. ALL UNITS - The general training in Passive Air Defense should be conducted by the P.A.D. NCO's under the supervision of the P.A.D. Officer concerned.

a. "P.A.D. Training for Companies or Similar Units", Appendix C-5, indicates the scope of this training.

28. SPECIAL UNITS - The training of specialized services is the responsibility of the unit commander providing these services. (Ref: paragraph 22 b). Further reference should be made to the appropriate Training Manuals of the service concerned.

CHAPTER VI

- (1) C-2 "Training Program for P.A.D. Officers of Corps, Division, Regiment, and Battalion".
- (2) C-3 "Training Program for P.A.D. NCO's of Companies or similar units."
- (3) C-4 "Training Program for Sector Controllers".

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CHAPTER VI RELATIONSHIPS BETWEEN PASSIVE AIR DEFENSE AND CIVIL DEFENSE

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SECTION I GENERAL

29. GENERAL - Passive Air Defense and Civil Defense are closely related. The policies governing these relationships are determined by the conditions in occupied areas.

SECTION II POLICY FOR PASSIVE AIR DEFENSE AND CIVIL DEFENSE IN OCCUPIED ENEMY TERRITORY AND IN THE TERRITORY OF A CO-BELLIGERENT POWER

30. GENERAL - a. Passive Air Defense in occupied territory, as elsewhere, is a normal military duty and will be carried out in accordance with military instructions on the subject.

b. Civil Defense in occupied territory is only of importance where it affects military requirements. It is the duty of the Military Government Administration or Allied Control Commission to provide such Civil Defense Measures as are required by the military.

c. In any area of military importance, Passive Air Defense and Civil Defense will be closely related. Therefore, it is essential that the two be planned and executed together under the direction of the Military Commander.

31. RELATIVE IMPORTANCE OF CIVIL DEFENSE TO MILITARY REQUIREMENTS - a. Civil Defense will be a military necessity in those areas where its failure will hinder military operations.

b. Civil Defense may be of importance, even in areas of no military value, if the failure of the Civil Defense organization is likely to result in damage to essential services, stocks of food, serious problems of unrest, refugees, starvation, or disease amongst the civil population.

c. Where it is necessary to raise the standard of Civil Defense to meet military requirements, some assistance from the military will usually be necessary. This may be accomplished either by giving directions or advice, or by making available essential equipment and supplies which cannot otherwise be obtained by the civilian authorities.

32. CLASSIFICATION OF AREAS FOR CIVIL DEFENSE - a. The relative importance of Civil Defense to military requirements will be defined by classifying areas of occupied territory as follows:-

- (1) Class "A" - Areas in which Civil Defense is regarded as a military necessity. Every possible assistance is to be given to the organization of Civil Defense, including, if necessary, the lending without charge of essential equipment and the provision of essential materials.
- (2) Class "B" - Areas in which Civil Defense is regarded as of military importance only insofar as there may be repercussions on the military in the event of failure of the Civil Defense organization. In these areas such equipment as is available may be sold or rented to the local authorities.
- (3) Class "C" - Areas in which Civil Defense is regarded as of no military importance.

b. The classification of areas as above, and their re-classification according to changing circumstances, will be the responsibility of Army Commanders in the Combat Zone, and of the District or Base Section Commanders in the Communications Zone (LC).

32. CLASSIFICATION OF AREAS - Areas in which Civil Defense is regarded as a military necessity. Every possible assistance is to be given to the organization of Civil Defense, including, if necessary, the lending without charge of essential equipment and the provision of essential materials.

(1) Class "A" - Areas in which Civil Defense is regarded as a military necessity. Every possible assistance is to be given to the organization of Civil Defense, including, if necessary, the lending without charge of essential equipment and the provision of essential materials.

(2) Class "B" - Areas in which Civil Defense is regarded as of military importance only insofar as there may be repercussions on the military in the event of failure of the Civil Defense organization. In these areas such equipment as is available may be sold or rented to the local authorities.

(3) Class "C" - Areas in which Civil Defense is regarded as of no military importance.

b. The classification of areas as above, and their re-classification according to changing circumstances, will be the responsibility of Army Commanders in the Combat Zone, and of the District or Base Section Commanders in the Communications Zone (IC).

33. RESPONSIBILITY FOR CIVIL DEFENSE IN CLASSIFIED AREAS - a. In Class "A" areas, pending the establishment of the Military Government Administration, the local military Commander, assisted by Military Government officers, will be responsible for organizing minimum standards of Civil Defense.

(1) When the Military Government Administration or Allied Control Commission has been established, it will be their responsibility to organize and supervise Civil Defense services in accordance with the requirements of the military Commander.

b. In Class "B" areas, organization and supervision of Civil Defense will be the responsibility of the Military Government Administration or Allied Control Commission. If coordination with the military is required, such coordination will be the responsibility of the local military Commander.

34. RESPONSIBILITY FOR PROVISION OF EQUIPMENT FOR CIVIL DEFENSE IN CLASSIFIED AREAS - a. In Class "A" areas, it is a military responsibility to decide the requirements and to provide any necessary equipment or material.

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b. In Class "B" Areas, it is the Military Government Administration or Allied Control Commission responsibility to decide the requirements and to provide such equipment as is available. This equipment may be sold or rented to the local authorities if it is within the limits of transportation allotted by the military to the Military Government Administration.

c. If equipment is available, the Military Government Administration or Allied Control Commission may sell or rent it to suitable applicants from Class "C" areas.

35. ADVICE ON PASSIVE AIR DEFENSE AND CIVIL DEFENSE - The P.A.D. Staff Officer, of the military Commander, will be responsible for giving advice on all matters concerning Passive Air Defense. This will be done through the Assistant Chief of Staff, G-3.

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APPENDIX A-1P.A.D. STAFF OFFICERS PLANNING CHECK LIST

P.A.D. Staff Officers should consult the following officers for information indicated:

G-3

1. Code name of operation.
2. Time available for planning.
3. Sections represented on planning staff.
4. Units assigned.
5. Air Raid Warning.
6. Blackout regulations.
7. P.A.D. Orders. (Pre-Occupational, Interim and Final).
8. Class of Area.
9. Cargo - Necessary equipment.
10. Organization and equipment required for P.A.D. Control Center.
11. G.O.R. or S.O.R.
12. Location of P.A.D. Control.

G-2

1. Area to be occupied.
2. Maps.
3. Civil Defense Organization.

G-4

1. Cargo space.
2. Signal equipment, etc. for P.A.D. Control.
3. Transportation.

G-1

1. Personnel for P.A.D. organization.

ENGINEER OFFICER

1. Heavy Rescue.
2. Utilities Platoons (repair).
3. Brems (supply).
4. Booby traps and delayed action mines.

Fire Marshal

1. Fire coverage on occupation, such as:
 - (a) Amount and type of equipment.
 - (b) Extra equipment and supplies that can be added to P.A.D. cargo.
2. Plans for coordination.

MEDICAL OFFICER

1. Hospitals.

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G-2

1. Area to be occupied.
2. Maps.
3. Civil Defense Organization.

G-4

1. Carec space.
2. Signal equipment, etc. for P.A.D. Control.
3. Transportation.

G-1

1. Personnel for P.A.D. organization.

ENGINEERING OFFICER

1. Heavy Rescue.
2. Utilities platoons (repair).
3. Givens (supply).
4. Body trays and delayed action mines.

Fire Marshal

1. Fire coverage on occupation, such as:
 - (a) Amount and type of equipment.
 - (b) Extra equipment and supplies that can be added to P.A.D. cargo.
2. Plans for coordination.

MEDICAL OFFICER

1. Hospitals.
2. First aid stations.
3. Ambulances.
4. First aid equipment for Light Rescue Squads.

SIGNAL OFFICER

1. Priority on establishing communications.
2. Switchboard and telephones for P.A.D. control.
3. Priority on P.A.D. calls during alerts.

PROVOST MARSHAL

1. Traffic control during alerts.
2. Enforcement of blackout regulations.
3. Guards and Cordoning.
4. Incident reporting.
5. Incident Report Post.

OPERATIONS OFFICER

1. Rules and regulations on U.X.P.'s.
2. Bomb Disposal and recon.
3. Arrangements for coordinating P.D. through P.A.D.

APPENDIX A-1 (Cont'd)

C.W.S. OFFICER

1. Gas and decontamination instructions.
2. Gas alarms.
3. C.W. supplies.

MILITARY GOVERNMENT

1. C.D. Plan to include coordination between P.A.D. and C.D.
2. Check supplies and equipment for "A", "B" and/or "C" Areas.

C.O.'S OF UNITS

1. P.A.D. instructions for Sector Controllers and Unit Commanders.

PORT COMMANDERS

1. P.A.D. Measures.

NAVY LIAISON OFFICER

1. P.A.D. Measures

TRANSPORTATION OFFICER

1. C.D. equipment in movement.

G.O.R. OF S.C.R.

1. Air Raid Warning.

ARMY P.A.D. OFFICER

1. Coordination.

Q.M. OFFICER

1. Fatal Casualties.

CHURCHILL

1. Casualties.

G.O.R. OR S.O.R.
1. Air Aid Training.

ARMY P.A.D. OFFICER
1. Coordination.

O.N. OFFICER
1. Fatal Casualties.

CHAPLAIN
1. Casualties.

APPENDIX A-2P.A.D. FIRE-OCCUPATION PLAN

1. MISSION - The mission of P.A.D. (Passive Air Defense) is to mitigate the effects of enemy air attack on personnel, stores and equipment in order that the dislocation of normal operational functions is reduced to a minimum.
2. CONTROL ORGANIZATION - P.A.D. measures will be under the supervision of the P.A.D. Controller. Until such time as a Control Center can be established, the P.A.D. Controller will be contacted through G-3.
3. AIR RAID WARNING - Siren warning may be available, if not, guns firing or bombs dropping will be the only indication of an attack.
4. BLACKOUT REGULATIONS
5. PERSONNEL PROTECTION - Unit commanders are responsible for sheltering of personnel during air raids.
6. FIRE PREVENTION FOR UNITS - Fire prevention is the responsibility of unit commanders. Fire posts will be established and manned during alerts. Fire guards consisting of three men equipped with stirrup pump, two or more buckets, hand axe and wrecking bar will be formed in all units.
7. FIRE FIGHTING UNITS
 - a. Location.
8. MEDICAL
 - a. First aid Posts.
 - b. Hospitals.
 - c. Ambulances.
9. U.X.D.'S AND BOOBY TRAPS. Location of suspected or unexploded bombs, mines, or booby traps will be reported to P.A.D. Controller who will notify the Bomb Disposal Officer or Engineer Officer. Location of U.X.D.'s, mines, and booby traps will be marked, and instructions secured from higher authority concerning evacuation.
10. RESCUE SQUADS - In order to deal with their own casualties as far as possible, each company or similar unit will form and train at least one Light Rescue Squad of 1 HQ and 6 men. They will be equipped with 3 picks, 3 shovels, stretcher and blankets, first aid kit and truck. The Base Engineer will arrange for Heavy Rescue Squads to be organized in Engineer companies and other units having suitable equipment. These squads will stand by during air raids and will be subject to call only by the P.A.D. Controller.
11. REPORTING OF INCIDENTS - It is the responsibility of the nearest

unit commanders. Fire posts will be established and manned during alerts. Fire guards consisting of three men equipped with stirrup pump, two or more buckets, hand saw and wrecking bar will be formed in all units.

7. FIRE FIGHTING UNITS

a. Location.

8. MEDICAL

a. First Aid Posts.

b. Hospitals.

c. Ambulances.

9. U.X.B.'S RECOVERY T-23. Location of suspected or unexploded bombs, mines, or booty dumps will be reported to P.A.D. Controller who will notify the Bomb Disposal Officer or Engineer Officer. Location of U.X.B.'s, mines, and booty traps will be marked, and instructions secured from higher authority concerning evacuation.

10. RESCUE SQUADS - In order to deal with their own casualties as far as possible, each company or similar unit will form and train at least one Light Rescue Squad of 1 HQ and 6 men. They will be equipped with 3 picks, 3 shovels, stretcher and blankets, first aid kit and truck. The Base Engineer will arrange for Heavy Rescue Squads to be organized in Engineer companies and other units having suitable equipment. These squads will stand by during air raids and will be subject to call only by the P.A.D. Controller.

11. REPORTING OF INCIDENTS - It is the responsibility of the nearest military unit to report incidents resulting from enemy action to P.A.D. Controller.

12. WAR GAZES - Normal unit anti-gas measures will be carried out. Contaminated areas will be marked and reported to P.A.D. Controller who will inform the C.I.S. officer.

13. CRASHED AIRCRAFT - It is the responsibility of the nearest military unit to report all crashed aircraft to the P.A.D. Controller and take immediate security measures for plane and contents. **483**

14. APPENDIX. Added instructions regarding P.A.D. measures will be issued in an appendix within 24 hours of occupation.

APPENDIX A-3

APPENDIX TO P.A.D. PRE-OCCUPATION PLAN

Reference: P.A.D. Pre-Occupation Plan _____

1. P.A.D. Control will be established as follows:-

a. Control Center

P.A.D. Controller _____

Location _____

Phone _____

b. Two messengers with transportation will be detailed to P.A.D. (V.M.R.)

Controller by _____

2. Air Raid Warning will be: _____

3. Bomb Disposal Squad - coordinated through Control Center

Unit _____

Location _____

4. Heavy Rescue Squads, directed through Control Center, will be furnished by the following organizations:-

Unit _____

Location _____

Unit _____

Location _____

5. Fire Control - Location _____

a. Army Fire Stations - Locations:

1. _____

2. _____

6. Ambulance - directed through Control Center,

Location _____

7. First Aid Stations - Location _____

8. Hospital - Location: _____

- Unit _____ Location _____
- Unit _____ Location _____
5. Fire Control - Location _____
6. Army Fire Stations - Locations:
1. _____
2. _____
6. Ambulances - directed through Control Center.
- Location _____
7. First Aid Stations - Location _____
- _____
8. Hospitals - Location: _____
- _____
9. Military Police - Location _____
- _____

APPENDIX A-4P.A.D. FINAL PLANHEADQUARTERSPASSIVE AIR DEFENSE PLAN FOR

REF. MAP -

1. MISSION. The mission of P.A.D. (Passive Air Defense) is to mitigate the effect of enemy air attack on personnel, stores, and equipment in order that the disruption of normal operational functions is reduced to a minimum.

2. AIR RAID WARNING AND PLACQUET REGULATIONS

a. Warning.

Alert - A series of unrelenting signals from the sirens, guns opening fire or bombs dropping, whichever is earliest.

All Clear - Continuous signal on the sirens, lasting one minute.

b. Blackout Regulations.

3. PERSONNEL RESPONSIBILITIES

Unit Commanders are responsible for orders being issued as to action to be taken for sheltering during air raids. All personnel not performing specific duties will remain under cover during an air attack.

4. CONTROL ORGANIZATION

a. Control Center. The P.A.D. of _____ will be directed by the P.A.D. Controller.

P.A.D. Controller

P.A.D. Control Center is located at _____

In the event Control Center becomes inoperative, alternate P.A.D. Control center will be located at: _____

Phone number _____

b. Sectors. The _____ is divided into _____ sectors, each under a Sector Controller, who is directly responsible to the P.A.D. Controller. Sectors are established as follows: (See Appendix "A" for Sector boundaries).

Sector I

P.A.D. Sector Controller _____

Location: _____

- b. Blackout Regulations.
3. PROBABLE PROTECTION
- Unit Commanders are responsible for orders being issued as to action to be taken for sheltering during air raids. All personnel not performing specific duties will remain under cover during an air attack.

4. CONTROL ORGANIZATION
- a. Control Center. The P.A.D. of _____ will be directed by the P.A.D. Controller.
- P.A.D. Controller _____
- P.A.D. Control Center is located at _____
- In the event Control Center becomes inoperative, alternate P.A.D. Control center will be located at: _____
- Phone number _____

- b. Sectors. The _____ is divided into _____ sectors, each under a Sector Controller, who is directly responsible to the P.A.D. Controller. Sectors are established as follows: (See Appendix "A" for Sector boundaries).

Sector I	P.A.D. Sector Controller _____	
	Location: _____	
	Phone: _____	
Sector II	P.A.D. Sector Controller _____	
	Location: _____	
	Phone: _____	
Sector III	P.A.D. Sector Controller _____	
	Location: _____	
	Phone: _____	
Sector IV	P.A.D. Sector Controller _____	4820
	Location: _____	
	Phone: _____	
Sector V	P.A.D. Sector Controller _____	
	Location: _____	
	Phone: _____	

APPENDIX A-4 (Cont'd)

- c. Reporting of Incidents. All incidents must be reported to P.A.D. Control Center.

5. COMMUNICATIONS.

- a. Telephones will be used whenever possible. The Signal Corps will give priority to P.A.D. calls during alerts. Lines will be tested frequently.
- b. Sector Controllers will arrange for messengers to be available in case of break in telephone communications.
- c. Two messengers with transportation will be detailed to P.A.D. Control Center by

6. P.A.D. SERVICES
- a. Ambulance (under P.A.D. Control) will be furnished by the following units: -

- b. Light Rescue Squads - will be furnished by the following organizations on call of Sector Controller or P.A.D. Controller.

- c. Heavy Rescue Squads - (Under P.A.D. Control) will be furnished by the following organizations: -

- d. Reserve Heavy Rescue Squad with special lifting equipment will be available (Under P.A.D. Control).

Squad furnished by

- e. Work parties at the disposal of P.A.D. Controller will be furnished by: -

- f. All Rescue Squads and Work Parties remain in quarters during alerts, unless otherwise ordered.

7. FIRE PREVENTION AND FIRE SERVICE

- a. liaison will be established between the Fire Marshal and the P.A.D. Controller to coordinate fire fighting activities.

- b. Fire prevention. The prevention of fires is the responsibility of the commanding officer of each unit.

Fire guards and fire watchers of units will proceed to their posts on the sounding of the alert, guns opening fire, or bombs falling, whichever is earliest.

- c. Heavy Rescue Squad will be dispatched by the following organizations: -
- d. Reserve Heavy Rescue Squad with special lifting equipment will be available (Under P.A.D. Control).
- e. Squad furnished by _____
- f. Work parties at the disposal of I.M.D. Controller will be furnished by: -
- g. All Rescue Squads and Work Parties remain in quarters during alerts, unless otherwise ordered.
7. INTER-DEPARTMENTAL FIRE SERVICE
- a. Liaison will be established between the Fire Marshal and the P.A.D. Controller to coordinate fire fighting activities.
- b. Fire prevention. The prevention of fires is the responsibility of the commanding officer of each unit.
- c. Fire guards and fire watchers of units will proceed to their posts on the sounding of the alert, fire opening fire, or bombs dropping, whichever is earliest.
- d. Every effort will be made by the unit to deal with the fire. Reports of fire which cannot be extinguished by local means, will be made to the Fire Control Station at _____ or _____
8. MEDICAL
- a. Ambulance dispatching will be under control of P.A.D. during alerts.
- b. Ambulances are located as follows:
- c. First Aid Posts are located as follows:
- d. The _____ Hospitals are located at _____
- e. Fatal Casualties. Sector Controllers will arrange for fatal casualties to be placed near the scene of the incident, but screened from public gaze. It is the responsibility of the unit to assist in identifying casualties and to arrange for the body to be properly covered before removal to the mortuary. It will be the responsibility of the _____ Q.M. Graves Registration Companies to arrange for personnel effects to be removed. A temporary mortuary has been established at the _____

9. MILITARY POLICE

In the event of damage to military installations or upon the request of the F.A.D. Controller, Military Police will proceed to the scene of the incident, and prohibit access except to personnel on duty.

10. CRASHED AIRCRAFT

Sector Controllers will inform F.A.D. Controller as to the exact location of crashed aircraft and instruct nearest military unit to take charge of security of plane and contents.

11. U.X.E.'S AND BOOBY TRAPS

Location of suspected or unexploded bombs, mines, or booby traps will be reported to F.A.D. Control Center who will notify the Bomb Disposal Officer or Engineer Officer. Location of U.X.E.'s mines, or booby traps will be marked, and instructions secured from higher authority concerning evacuation.

12. WAR GASES

a. F.A.D. Controller will be notified in the event of a gas attack. He will inform the Chemical Officer, Sector Controllers, and Civil Defense Controller.

b. If gas is reported, normal unit anti-gas measures will be carried out. Decontamination of personnel, vehicles, etc. is a unit responsibility. Contaminated areas will be marked and reported to F.A.D. Controller who will inform the C.N.S. Officer.

13. LIAMSON WITH CIVIL DEFENSE

Liason will be established between F.A.D. Control Center and Civil Defense Control Center for mutual assistance.

NOTE:

Appendix "A" - Sector Boundaries -

b. If gas is reported, normal unit and/or gas measures will be taken out. Decontamination of personnel, vehicles, etc. is a unit responsibility. Contaminated areas will be marked and reported to F.A.D. Controller who will inform the C.W.S. Officer.

13. LIAISON WITH CIVIL DEFENSE

Liaison will be established between F.A.D. Control Center and Civil Defense Control Center for mutual assistance.

NOTE:

Appendix "A" - Sector Boundaries -

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APPENDIX A-5

P.A.D. REPORT FORMS

PRELIMINARY - INTERIM REPORT

Date _____ Time Dispatched _____

- 1. Sector No. _____ Name of Sender _____
- 2. Location of Incident _____
- 3. Type of Bombs. HE _____ INCENDIARY _____ GAS _____
- 4. Remarks: _____

Received by _____ Incident No. _____ (For
Time _____ P.A.D. Controller)

SURVEY REPORT

Date _____ Time Dispatched _____

- 1. Sector No. _____ Name of Sender _____
- 2. Location of Incident _____
- 3. Type of Incident _____
 - a. No. and type bombs. HE _____ INCENDIARY _____ GAS _____
 - b. Fire _____
 - c. Aircraft _____
 - d. Artillery Shells _____
- 4. Damage to:
 - a. Buildings _____
 - b. Supplies _____
 - c. Roads _____
 - d. Utilities _____
- 5. Casualties:
 - Fatal _____
 - Wounded _____
 - Trapped _____

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P.O.D. Controller)

SURVIVY REPORT

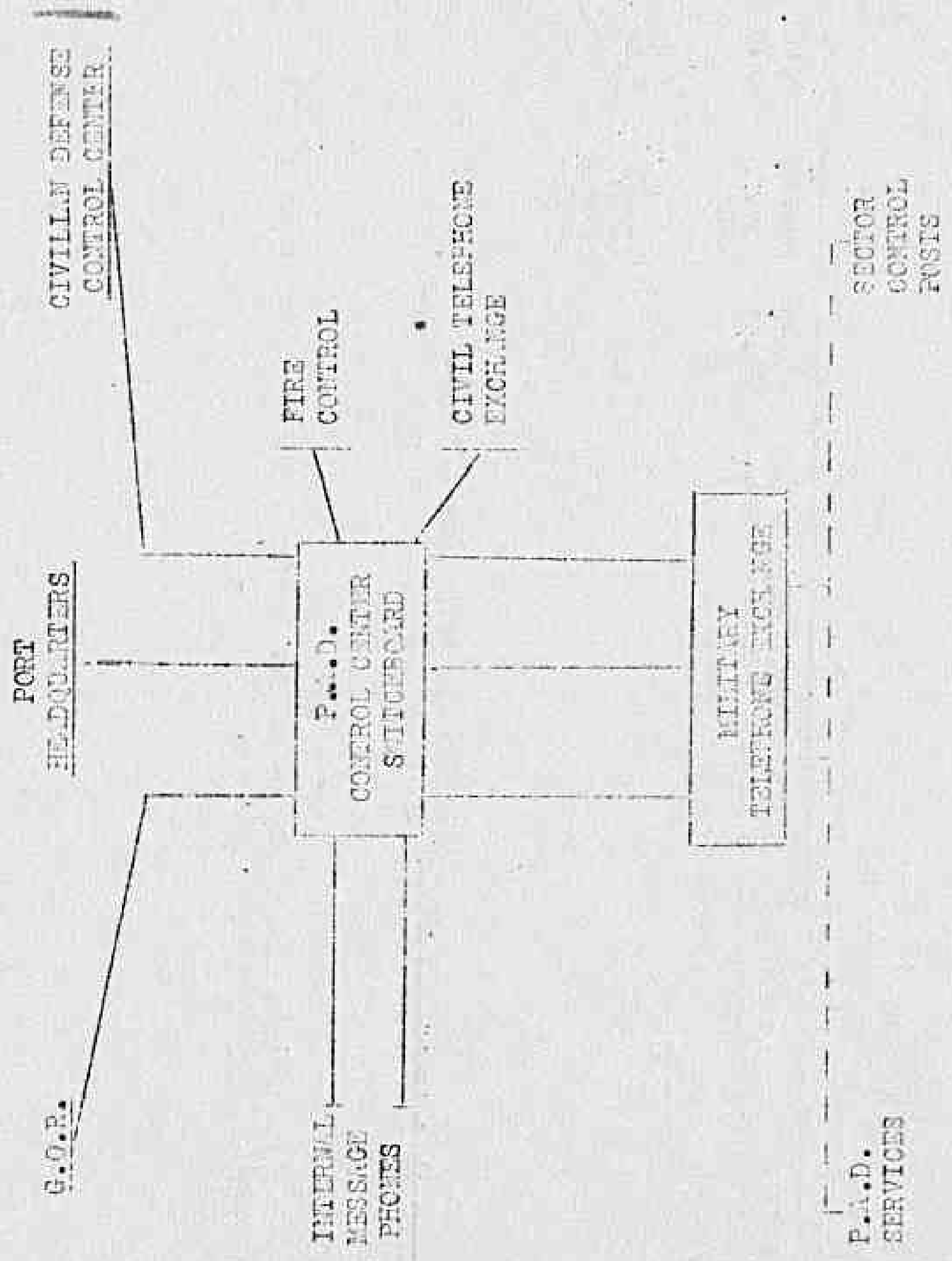
Date _____ Time Dispatched _____

1. Sector No. _____ Name of Sender _____
2. Location of Incident _____
3. Type of Incident _____
 - a. No. and type bombs. HE _____ INCENDIARY _____ GAS _____
 - b. Fire _____
 - c. Aircraft _____
 - d. Artillery Shells _____
4. Damage to: _____
 - a. Buildings _____
 - b. Supplies _____
 - c. Roads _____
 - d. Utilities _____
5. Casualties: _____
 - a. Fatal _____
 - b. Wounded _____
 - c. Trapped _____
6. Remarks: _____

Received by _____ Incident No. _____ (Per
Time _____ P.O.D. Controller)

APPENDIX A-6

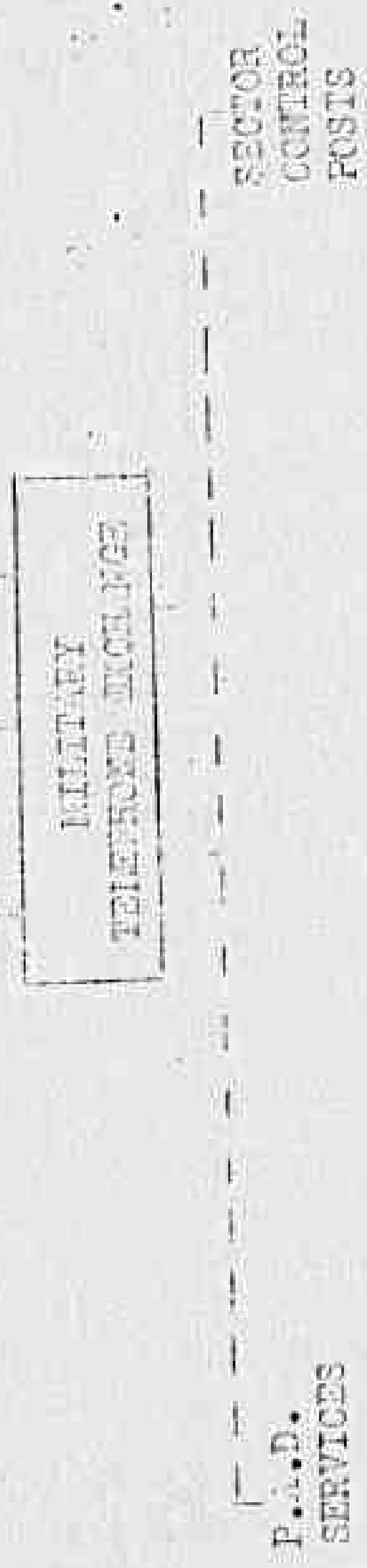
P.A.D. CONTROL CENTER TELEPHONE SWITCHBOARD



----- Lines through Military Exchange

_____ Direct Lines

NOTE: 1. The situation determines the telephone facilities. This diagram



----- Lines through Military Exchange

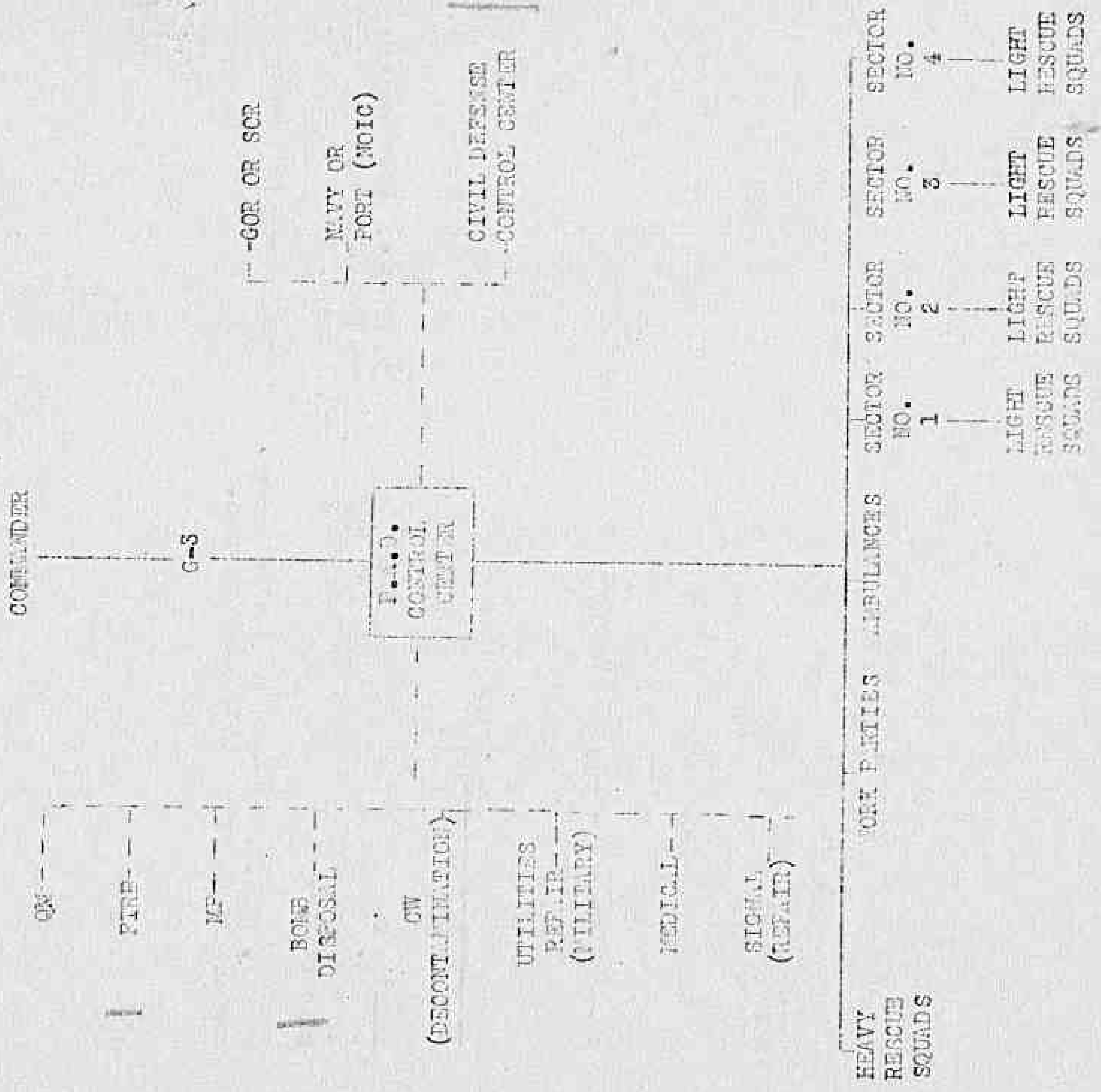
Direct Lines

- NOTE:
1. The situation determines the telephone facilities. This diagram is based on a 10 line telephone switchboard. Varying conditions will determine the priority of the direct lines recommended above.
 2. P.A.D. Services and Sector Control Posts will normally operate through the Military Telephone Exchange.

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APPENDIX A-7

SERVICES



Directed through Control Center
Co-ordinated through Control Center

UTILITIES
REPAIR
(MILITARY)

MEDICAL

SIGNAL
(REPAIR)

	WORK PARTIES	AMBULANCES	SECTOR NO.	SECTOR NO.	SECTOR NO.	SECTOR NO.
HEAVY RESCUE SQUADS			1	2	3	4
			LIGHT RESCUE SQUADS	LIGHT RESCUE SQUADS	LIGHT RESCUE SQUADS	LIGHT RESCUE SQUADS

Directed through Control Center
Co-ordinated through Control Center

NOTE: This diagram indicates the P.A.D. Services directed and other services coordinated through P.A.D. Control Center.

APPENDIX A - 8

PAD CONTROL CENTER-CO

SERVICES DIRECTED												
Ambulances	1	2	3	4	5	6	7	8	Fire	(F)		
Heavy Rescue	1	2	3	4						ME's	(M)	
Work Parties	1	2	3							Bomb Disposal	(B)	
Light Rescue	Sector I			Sector II			Sector III		Sector IV		C.E.S.	(C)
	1	2	3	1	2	3	1	2	3			

INCI- DENT NO.	SECT- OR NO.	LOCATION	SERVICES DIRECTED
1.			
2.			
20.			

NOTE:

1. This is one type of panel used to indicate the location of PAD Services at all
2. Tags on the panel represent services available
 - a. Directed services - different shapes - numbered.
 - (1) Light Rescue Squads, square shaped - colored to represent home sector
 - the sector by Sector Control - between sectors - by Control Center.
 - b. Coordinated services - same shape - lettered to indicate services.

CONTROL CENTER-CONTROL PANEL

		SERVICES COORDINATED	
7 8 1 2	Fire	(F)	Civilian Defense (CD)
	PD's	(MT)	Utilities Repair (UR)
	PCMB Disposal	(ED)	Medical (other ambulances) (A)
	C.N.S.	(CW)	Others
Sector III	Sector IV		
1 2	1 2 3		

	SERVICES DIRECTED	SERVICES COORDINATED

used to indicate the location of P&D Services at all times.

t services available

ifferent shapes - numbered.

is, square shaped - colored to represent home sector - directed within

er Control - between sectors - by Control Center.

same shape - lettered to indicate services.

APPENDIX B-1

PERSONNEL AND EQUIPMENT LISTS

<u>PERSONNEL</u>	<u>EQUIPMENT</u>
3 Enlisted Men	1 Stirrup Pump (or pump can)
	2 Buckets
	1 Handaxe
	1 Wrecking Bar

1. FIRE GUARDS

2. LIGHT RESCUE SQUAD

1 NCO	First Aid	Light Rescue
6 Enlisted Men	Shell and Field dressing	1 3/4 ton truck
	3 Picks	3 Shovels
	2 Stretchers	2 Axes
	4 Plankets	2 Hacksaws
		1 Short Ladder
		1 Medium Ladder
		2 Crowbars
		1 Ironshod lever
		2 Lanterns

3. HEAVY RESCUE SQUAD

1 NCO	1 Truck, 2 1/2 ton	1 Saw, Cross cut, 2 man, 5 ft.
9 Enlisted Men	2 levers, iron shed, 12' with blocks for Pulcrums	1 Saw, Crosscut, 28"
	2 hoist, chain, differential 1 1/2 ton	1 Hacksaw (with 6 blades)
	1 hoist, chain, differential 3 ton	2 chisels, cold, 1 3/8"
	1 - shear - long, light set	2 wheelbarrows, iron
	1 block, snatch, steel shell, iron sheave for 1" Manila rope	1 rope, Manila, 1", 100 ft lengths
		3 rope, Manila, 1", 40 ft lengths
		2 hooks, ceiling
		1 rope, 3/4", 100 ft, heavy

1 Medium Ladder
2 Crowbars
1 Ironshod lever
2 Lanterns

3. HEAVY RESCUE GROUP

1 MCC
9 Unlisted Men

1 Truck, 2½-ton
2 levers, iron shed, 12' with
blocks for rollers
2 hoist, chain, differential 1½ ton
1 hoist, chain, differential 3 ton
1 - shear - logs, light set
1 block, snatch, steel snail, iron
sheave for 1" Manila rope
2 jacks, hydraulic, 10 ton lift
1 jack, hydraulic, 25 ton lift
1 ladder, extension 50 ft.
1 ladder, step, mechanics, 14 ft.
1 welding and cutting outfit, oxy-
acetylene
2 flares, road, oil or acetylene
1 bar, crow, pinch point 5 ft.
4 picks, drifting
4 shovels, general purpose
1 sledge, double faced 4 lb
1 sledge, double faced 8 lb
2 axe, chopping, double bit
2 hatchets, half, 3½"

1 Saw, Cross cut, 2 man, 5 ft.
1 Saw, Crosscut, 25"
1 Hack saw (with 6 blades)
2 chisels, cold, 1 3/8"
2 wheelbarrows, iron
1 rope, Manila, 1", 100 ft lengths
3 rope, Manila, 1", 40 ft lengths
2 hooks, ceiling
1 rope, drag, pairs, heavy
1 slings, rope, Manila, without thimble,
1"
1 slings, rope, Manila, without thimble,
2"
3 lanterns, electric, dry cell, portable,
hand, 6 volt
6 batteries, lantern, electric, 6 volt
6 batteries, electric, 6 volt (spare)
6 bulbs, for 6 volt lantern (spare)
6 lamps, hurricane
6 corrugated, galvanized, iron sheets
2 gloves, rubber (pairs)
2 cutters, wire, 3/8", insulated handle,
military search nose
6 Buckets or buckets

4. WORK PARTIES

1 Officer
20 Unlisted Men
2 - 2½ ton trucks
Other equipment as
required.

APPENDIX C-1

TRAINING PROGRAM FOR P.A.D. STAFF OFFICERS

I. P.A.D. Staff Officers will be instructed in the following subjects:

SUBJECTS	HOURS
1. GENERAL SUBJECTS	6
a. P.A.D. Organization	2
b. Duties and Responsibilities of P.A.D. Officer	1
c. Communications	1
d. Incendiaries and War Gases	1
e. Staff Procedure	1
2. PASSIVE AIR DEFENSE MEASURES (Normal Security)	5
a. Air Raid Warning	1
b. Blackouts and Dimouts	1
c. Camouflage	1
d. Protection of Personnel	1
e. Unexploded Bombs, Mines, Booby Traps	1
3. P.A.D. AND OTHER SERVICES	8
a. Police	1
b. Fire	2
c. Medical	1
d. Bomb Reconnaissance and Disposal	1
e. Light Rescue Squads	1
f. Heavy Rescue Squads	1
g. Decontamination	1
4. P.A.D. OPERATIONS	10
a. P.A.D. Control Center	3
b. Sector Control Post	1
c. Post Raid Activities	1
d. Control Center Activities	4
e. Records and Reports	1
5. P.A.D. TRAINING	2
a. P.A.D. Training for Part Time Officers	2
6. C.D. ORGANIZATION	2
TOTAL	33

REMARKS: This program should be conducted under the supervision of a P.A.D. Staff Officer. Subject matter pertaining to P.A.D. Operations should be conducted by this officer. Matters concerning specialized services should be given by an officer of the appropriate services.

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3. P.A.D. AND OTHER SERVICES	
a. Police	1
b. Fire	2
c. Medical	1
d. Bomb Reconnaissance and Disposal	1
e. Light Rescue Squads	1
f. Heavy Rescue Squads	1
g. Decontamination	1
4. P.A.D. OPERATIONS	10
a. P.A.D. Control Center	3
b. Sector Control Post	1
c. Post Raid Activities	1
d. Control Center Activities	4
e. Records and Reports	1
5. P.A.D. DRILLING	2
a. P.A.D. Training for Part Time Officers	2
6. C.D. ORGANIZATION	2
TOTAL	33

REMARKS: This program should be conducted under the supervision of a P.A.D. Staff Officer. Subject matter pertaining to P.A.D. Operations should be conducted by this officer. Matters concerning specialized services should be given by an officer of the appropriate services.

a. This training should take the form of lectures, conferences, demonstrations, classroom and field exercises.

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APPENDIX C-2TRAINING PROGRAM FOR P.A.D. OFFICERS OF
CORPS, DIVISIONS, REGTS. AND BNS

I. P.A.D. officers will be instructed in the following subjects:

<u>SUBJECTS</u>	<u>HOURS</u>
1. <u>GENERAL SUBJECTS</u>	12
a. P.A.D. Organization -----	
b. Duties and Responsibilities of P.A.D. Officer -----	
c. Incendiaries and War Gases -----	
2. <u>P.A.D. MEASURES (Normal Security)</u>	12
a. Air Raid Warnings and Blackouts -----	
b. Protection of Personnel and Camouflage -----	
c. Unexploded Bombs, Mines and Booby Traps -----	
3. <u>P.A.D. AND OTHER SERVICES</u>	3
a. Fire -----	
b. Police and Medical -----	
c. Bomb Reconnaissance and Disposal -----	
d. Light Rescue Squads -----	
e. Heavy Rescue Squads -----	
f. Decontamination -----	
4. <u>P.A.D. OPERATIONS</u>	12
a. Control Center and Sector Control Post -----	
b. Records and Reports -----	
5. <u>P.A.D. TRAINING</u>	1
TOTAL	8

RMK RMS: This program should be conducted under the supervision of the P.A.D. Staff Officer concerned. Whenever possible, instructions in specialized services should be given by an officer of the appropriate service.

a. This training should take the form of conferences.

a. Heavy weapons equipment	1 1/2
f. Decryption	1 1/2
4. P.A.D. OPERATIONS	
a. Control Center and Sector Control Post	1 1/2
b. Records and Reports	1 1/2
5. P.A.D. TRAINING	
TOTAL	8

REMARKS: This program should be conducted under the supervision of the P.A.D. Staff Officer concerned. Whenever possible, instructions in specialized services should be given by an officer of the appropriate service.

a. This training should take the form of conferences.

APPENDIX C-3

TRAINING PROGRAM FOR P.A.D. TROOPS OF COMPANIES
OR SIMILAR UNITS

I. P.A.D. Non-Commissioned Officers will be instructed in the following subjects:

SUBJECT	HOURS
1. GENERAL SUBJECTS	1 1/2
a. P.A.D. Organization -----	
2. P.A.D. MEASURES (Normal Security)	2 1/2
a. Air Raid Warnings and Blackouts -----	
b. Fire Prevention -----	
c. Fire Watchers and Fire Guards -----	
d. Personnel Protection and Camouflage -----	
e. U.X.D.'s, Land Mines, and Booby Traps -----	
3. P.A.D. AND OTHER SERVICES	2 1/2
a. Fire -----	
b. Military Police -----	
c. Medical -----	
d. Light Rescue Squads -----	
e. Heavy Rescue Squads -----	
f. Work Parties -----	
4. P.A.D. OPERATIONS	2
a. Control Center and Sector Control Post -----	
b. Incident Control -----	
c. Reporting -----	
5. P.A.D. TRAINING	1
a. Training for Companies and Spoiler Units -----	
TOTAL	8

REMARKS: This training should be supervised by P.A.D. Staff Officers of higher echelons and may take the form of lectures and conferences.

3.	P.A.D. AND OTHER SERVICES	
a.	Fire	1
b.	Military Police	1
c.	Medical	1
d.	Light Rescue Squads	1
e.	Heavy Rescue Squads	1
f.	Work Parties	1
4.	P.A.D. OPERATIONS	2
a.	Control Center and Sector Control Post	1
b.	Incident Control	1
c.	Reporting	1
5.	P.A.D. TRAINING	1
a.	Training for Companies and Similar Units	1
	TOTAL	8

REMARKS: This training should be supervised by P.A.D. Staff Officers of higher echelons and may take the form of lectures and conferences.

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APPENDIX C-4

TRAINING PROGRAM FOR SENIOR CONTROLLERS

I. P.A.D. Sector Controllers will be instructed in the following subjects:

<u>SUBJECTS</u>		<u>HOURS</u>
1. <u>GENERAL SUBJECTS</u>		
a. <u>P.A.D. Organization and communications</u> -----	1	1
2. <u>P.A.D. INMATES (Normal Security)</u>		
a. <u>Air Field Warnings and Blackouts</u> -----	1	1
b. <u>General (Fire Watchers, Fire Guards, U.K.B.'s, Poochy Traps, Personnel Protection and Camouflage)</u> -----	1	1
3. <u>P.A.D. AND OTHER SERVICES</u>		
a. <u>General (Fire, Military Police, Medical, Light and Heavy Rescue Squads, Tank Parties, and Decommunica- tion)</u> -----	1	1
4. <u>P.A.D. OPERATIONS</u>		
a. <u>P.A.D. Control Center</u> -----	1	2
b. <u>Sector Control Post and Incident Control</u> -----	1	
c. <u>Records and Reporting</u> -----	1	
TOTAL	5	

REMARKS: This training should be conducted by the P.A.D. Staff Officers and take the form of conferences.

a. P.A.D. Control Center ----- 1
 b. Sector Control Post and Incident Control ----- 1
 c. Records and Reporting ----- 1

TOTAL 3

REMARKS: This training should be conducted by the P.A.D. Staff Officer and take the form of conferences.

APPENDIX C-5

P.A.D. TRAINING FOR COMPANIES OR SIMILAR UNITS

1. The composition of the company or similar unit and the nature of its primary function will determine the extent of P.A.D. Measures.
2. Instruction in normal security measures is an integral part of unit training. P.A.D. training consists of these measures, plus instruction in light rescue squads, fire watchers and fire guards, and P.A.D. control within the unit. Paragraphs 3, 4 and 5 suggest unit training to be given by P.A.D. NCO's, in these additional subjects.
 3. LIGHT RESCUE SQUADS - a. Companies or similar units will provide at least one light rescue squad. Smaller units of 30 men or over will provide one light rescue squad.
 - (1) Each squad will consist of an NCO and 6 enlisted men. These men will be detailed according to a duty roster but will stand by in the event of an alert.
 - (2) The suggested minimum equipment for each squad is: 3 picks, 3 shovels, 1 stretcher, and transportation. The suggested equipment for a static installation is: First Aid Supplies, 2 stretchers, 4 blankets, 3 picks, 3 shovels, 2 axes, 2 back saws, 1 short ladder, 1 medium ladder, 2 crow bars and one iron shod lever. Equipment will be stored where it is easily accessible, and a periodic check made to insure completeness and condition.
 - b. The function of light rescue squads will be the removal of casualties from demolished structures where technical engineering skill is not required. These squads will be ordered to deal primarily with casualties of their own unit, but may be subject to the call of Battalion Controller or higher echelon controller, in the event they are needed in other areas.
 - c. Light Rescue Squad training will include the following subject matter:
 - (1) Action on alarms and call-out.
 - (2) Reconnaissance and leadership at incidents.
 - (3) Appreciation of damage to buildings.
 - (4) Rescue by debris clearance.
 - (5) Recovery of the dead.
 - (6) Damage to utilities.
 - (7) Rescue in presence of poison gas.

3 shovels, 2 axes, 2 back saws, 1 short ladder, 1 shovel, and one iron shod lever. Equipment will be stored where it is easily accessible, and a periodic check made to insure completeness and condition.

b. The function of light rescue squads will be the removal of casualties from demolished structures where technical engineering skill is not required. These squads will be prepared to deal primarily with casualties of their own unit, but may be subject to the call of Battalion Controller or higher echelon controller, in the event they are needed in other areas.

c. Light Rescue Squad training will include the following subject matter:

- (1) Action on alarms and call-out.
- (2) Reconnaissance and leadership at incidents.
- (3) Appreciation of damage to buildings.
- (4) Rescue by debris clearance.
- (5) Recovery of the dead.
- (6) Damage to utilities.
- (7) Rescue in presence of poison gas.
- (8) Team training.
- (a) Frequent incident drills will be held to check on state of training of squads.
- (b) The light rescue squads will be prepared to render first aid.

4. FIRE WATCHERS AND FIRE GUARDS - a. Companies or similar units will provide fire watchers and fire guards. 4841

(1) Fire Watchers should be posted at convenient locations, so that they can see or hear the bombs land. They should be equipped with a whistle and report all incidents.

(2) Fire Guards consisting of three men each, should be equipped with a stirrup pump (or pump can), two buckets, hand axe and wrecking bar.

b. The personnel of all units should be given instructions in the duties of Fire Watchers and Fire Guards. This will include the use of stirrup pumps, pump cans and fire extinguishers.

5. P.A.D. CONTROL - a. Companies or similar units should have a Control Post (e.g.) Co. Hq. or Command Post.

(1) The control group will consist of the C.O. or duty officer, P.A.D. NCO, runners, and a clerk.

(2) Equipment: telephone, damage report forms, and map of the area indicating P.A.D. facilities.

b. Damages will be reported by Fire Watchers. The Control Post dispatches assistance. If the incident cannot be controlled by the unit further aid will be requested of a higher echelon. Following is a diagram of reporting channels within the unit:

UNIT COMMANDER

P.A.D. NCO

Sgt. of Guard

Sentries

Fire Guards

Fire Watchers

c. The P.A.D. NCO of the unit should be familiar with all rules and regulations concerning:

- (1) Air Raid Warning and Blackouts.
- (2) Fire Prevention.
- (3) Personnel Protection.
- (4) UXB's, Mines and Booby Traps.
- (5) Medical Plan for Handling Casualties.
- (6) Anti-Gas Measures.

APPENDIX D-1

VARIATIONS IN TERMINOLOGY

The main variations in terminology are:

<u>American</u>	<u>British</u>
Base Section	District or Area
Bomb Disposal (Ordnance)	Bomb Disposal (Royal Engineers)
District	Sub-Area or Garrison
Enlisted Men	NCO's and other ranks (OR)
Fire Marshal	Fire Officer
G-1	"A" Branch
G-2	Intelligence and Field Security
G-3	General Staff
G-4	"Q" Branch
* Normal Security Measures	Unit Precautions
QM Graves Registration	"A" Branch
Regimental Level	Brigade Level
Tactical Forces	Units normally in forward areas
Transportation Officer	Transport Officer (SAT)

"Q" Branch

Unit Precautions

"A" Branch

Brigade Level

Units normally in forward areas

Transport Officer (S&T)

* Normal Security Measures

QM Graves Registration

Regimental Level

Tactical Forces

Transportation Officer

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*The term "Security" used throughout this document indicates measures taken by units for defense against all forms of local attack whether from the air or from the ground.

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 2 - Adv Gen Echelon (Flambo)
 2 - Lt. & CD
 2 - IG
 2 - AG MTR
 2 - CWS
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