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HEADQUARTERS
UNITED STATES MILITARY ASSISTANCE COMMAND, VIETNAM
APO San Francisco 96222

DIRECTIVE
NUMBER 40-10

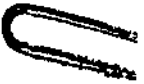
23 March 1970
(MACMD)

MEDICAL SERVICE

AERIAL DISPERSAL OF INSECTICIDES

1. PURPOSE. This directive prescribes policy, procedures, and responsibilities for aerial dispersal of insecticides from fixed and rotary wing aircraft by the US military in the Republic of Vietnam (RVN).
2. APPLICABILITY. This directive applies to all Free World Military Assistance Forces.
3. GENERAL. Aerial dispersal of insecticides permits rapid coverage of large areas and the treatment of areas inaccessible to ground operated equipment. This method of dispersal is effective in the control of arthropod vector of disease. Although it provides advantage over ground treatment, limitations are imposed by:
 - a. Meteorological conditions, such as wind, rain, temperature, and visibility.
 - b. Availability of aircraft and aircrews.
 - c. Attitudes of the local population regarding effects of insecticides on people, animals, and crops.
4. POLICY.
 - a. Aerial dispersal of insecticides is to be approved only under the following conditions:
 - (1) For the control of mosquitoes and other pests of medical importance when:
 - (a) Permanent control measures, such as land drainage and filling, cannot be accomplished.
 - (b) There is no access for ground dispersal equipment.
 - (c) Screening, repellants, space sprays, and residual treatments are not adequate in controlling vector-borne diseases.

*This directive supersedes MACV Directive 40-10, 25 April 1968.



- (d) Ground fog, mist, or other insecticidal mixtures do not control large populations of disease transmitting insects.
 - (e) Treatment of a major breeding area by aircraft dispersion is more economical than the use of ground equipment.
 - (f) The installation/area commander has trained personnel (medical and/or engineer) to conduct entomological surveys, to indicate areas requiring treatment, to schedule proper dates for spraying, and to determine spray effectiveness.
- (2) For pest control when arthropod borne disease outbreaks occur, requiring rapid coverage of large ground areas.
- b. In view of the significant incidence of malaria in the RVN, the aerial dispersal of insecticides from military aircraft to support military operations is authorized.
 - c. Only aerial dispersal equipment which has been approved by the Armed Forces Pest Control Board is to be used to disperse insecticides from fixed or rotary wing aircraft.
 - d. Malathion (either 57 percent water emulsifiable concentrate or 95 percent technical B-grade) used at a rate not to exceed 0.5 pounds of the technical toxicant per acre is the only insecticide currently approved for aerial dispersal in the RVN. Requests to use other insecticides are to be justified and forwarded to this headquarters, ATTN: MACMD-PS.
 - e. Aerial dispersal equipment which has been used to dispense herbicides is not to be used to disperse insecticides.
 - f. The Command Surgeon, MACV, is authorized to communicate directly with the following units for coordination of aerial insecticide dispersal:
 - (1) US Navy Preventive Medicine Unit, NSA Da Nang - NAVFORV.
 - (2) 20th Preventive Medicine Unit (SVC) (FLD) - USARV.
 - (3) 172nd Preventive Medicine Unit (SFC) (FLD) - USARV.
 - (4) 7th AF Tactical Air Control Center.
 - (5) Twelfth Special Operations Squadron, 7th AF.
 - g. Aerial dissemination of insecticide leaflets and/or aerial loudspeaker broadcast missions are to be scheduled in conjunction with aerial spray missions by the 7th AF Tactical Air Control Center.

5. RESPONSIBILITIES.

- a. The Command Surgeon, MACV, is to:
- (1) Exercise joint staff supervision and approval authority for aerial dispersal of insecticides.
 - (2) Coordinate all aerial insecticide dispersal operations.
 - (3) Evaluate information relative to the effectiveness of the aerial dispersal of insecticides.
 - (4) Furnish 7th AF necessary information for the preparation of operation and support plans for the fixed wing aerial delivery of insecticides.
- b. The Commander, 7th AF, is to plan, coordinate, and execute fixed wing aerial delivery of insecticides on MACV approved areas, and the aerial dissemination of insecticide leaflets and/or aerial loudspeaker broadcasts on those targets when required. He is to also coordinate all support required by C123 aircraft crews at the designated operating locations.
- c. The Commanders, USARV and NAVFORV, are to plan, coordinate, and execute the rotary wing aircraft delivery of insecticide on MACV approved areas and provide necessary life support equipment including, but not limited to, flight suits, helmets, and gloves for helicopter spray crews.
- d. The appropriate corps tactical zone (CTZ) commander is to:
- (1) Supply required insecticides and engineer entomology personnel necessary for the preparation and aircraft loading of spray material, and provide liaison personnel to the aircraft commander.
 - (2) Furnish personnel to conduct entomological surveys to delineate breeding areas, establish timing of spray applications, and determine effectiveness of control operations (requests for these individuals should be directed to the appropriate unit listed in paragraph 4f, above).
 - (3) Provide helicopter and crew when the requesting unit has no helicopter capability. The appropriate unit listed in paragraph 4f, above, is to furnish the aerial spray equipment, operator, and insecticide.
- e. The Psychological Operations Division, MACV, is to provide aerial loudspeaker broadcast tapes and special insecticide leaflets for this program.

6. PROCEDURES.

- a. Requests for aerial dispersal of insecticides are to be forwarded to this headquarters, ATTN: MACMD-PS, for evaluation and command approval. Requests are to contain the following information on each area to be sprayed:
- (1) Universal Transverse Mercator (UTM) grid coordinates.

- (2) An overlay depicting the area.
- (3) Designation and location of all battalion-sized units, hamlets, and other centers of military and/or civilian population in the area.
- (4) Malaria experience in the area (total cases of malaria, incidence rate per 1000 personnel per year, percentage of total cases due to vivax malaria, and other information as appropriate).
- (5) Statement concerning availability of helicopter and crew to fly the aerial spray mission if the area is less than 20 square kilometers.
- (6) Name, rank, unit, location, and telephone number of a contact or project officer.
- (7) Statement indicating desirability of insecticide leaflet missions and aerial loudspeaker missions prior to and/or after insecticide spray missions.
- (8) Approval of district or province chief of areas surrounding spray target if civilian areas are included in the target.

b. Approved requests are to be incorporated in the aerial spray program as follows:

- (1) Areas 20 square kilometers or larger or areas which cannot be feasibly sprayed with rotary wing aircraft, or ground equipment, are to be scheduled for aerial spray by C123 aircraft.
- (2) Approved requests for aerial spray of areas less than 20 square kilometers are to be forwarded to the appropriate unit listed in paragraph 4f, above, with a recommendation that coordination be effected with the requesting unit.

c. Requests are to be approved for a time period determined by MACV based on medical priorities and aircraft availability.

7. REPORTS. This directive requires no report.

8. REFERENCES.

- a. AR 40-574/AFR 91-22/SECNAVINST 6250, 5.
- b. TM 5-632/AFM 85-7/NAVDOCKS MO-310.
- c. Joint State/AID/Defense Message OASD/ISA 6249, DTG 130204Z November 1965.

FOR THE COMMANDER:



W. G. DOLVIN
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HEADQUARTERS
UNITED STATES MILITARY ASSISTANCE COMMAND, VIETNAM
APO San Francisco 96222

CHANGE 1
DIRECTIVE
NUMBER 40-10

12 June 1970
(MACMD)

MEDICAL SERVICE

AERIAL DISPERSAL OF INSECTICIDES

Directive Number 40-10, this headquarters, 23 March 1970, is changed as follows:

1. Page 3. Paragraph 5d is superseded as follows:

d. The appropriate corps area/zone coordinator is to:

2. Page 3. Paragraph 5d(1) is superseded as follows:

(1) Coordinate with the local facilities engineer who is to supply required insecticides and engineer entomology personnel necessary for the preparation and aircraft loading of spray material, and provide liaison personnel to the aircraft commander.

3. This transmittal sheet is to be filed in front of the publication for reference purposes.

FOR THE COMMANDER:



W. G. DOLVIN
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Chief of Staff

W. A. RUTLEDGE
Colonel, USA
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