

NREAD/DDS/th  
6240  
15 Sep 1983

From: Director  
To: Assistant Chief of Staff, Facilities  
Subj: Proposed BO P5101.20; comments concerning  
Ref: (a) Base Safety Mgr ltr SAFD/TWR/twr P5101.20 of  
8 Aug 1983

1. The subject letter has been reviewed as requested by the reference and the following comments are provided:

a. Add the following to paragraph 2000.2: "Do not intermingle asbestos wastes and non-asbestos wastes."

b. In section 2007.3 add the following to paragraph (c): "Asbestos-cement-type wastes will be wet down with water and transported in bulk in a securely covered truck in a manner which ensures that accidental spillage will not occur during transit."

c. Change paragraph 2007.4 to read: "In the event that friable asbestos wastes arrive at disposal site improperly covered or bagged, the vehicle operator will be instructed to park vehicle. Base Fire Dispatcher (x3333) will be notified in accordance with BO 11090.1B that a hazardous material spill emergency has occurred. Transporters repeatedly failing to comply with paragraph 2007.3 will be barred from using the landfill."

d. If the above changes are made, enclosure (2) to the subject Order may be deleted.

e. Reference (g) should read: "BO 11090.1B."

J. I. WOOTEN

100-100000  
0244  
11-09-1983

Director  
Assistant Chief of Health Facilities

Report prepared on 11/01/83 concerning

the use of a facility for the purpose of

on 11/01/83

1. The subject facility has been reviewed as requested by the  
reference and the following comments are provided:

1.1. The facility is located in an area which is not  
suitable for the purpose of the facility.

1.2. The facility is not equipped with the necessary  
equipment and personnel to provide the services  
requested. It is recommended that the facility  
be closed until the necessary equipment and  
personnel are provided.

1.3. The facility is not equipped with the necessary  
equipment and personnel to provide the services  
requested. It is recommended that the facility  
be closed until the necessary equipment and  
personnel are provided.

1.4. The facility is not equipped with the necessary  
equipment and personnel to provide the services  
requested. It is recommended that the facility  
be closed until the necessary equipment and  
personnel are provided.

1.5. The facility is not equipped with the necessary  
equipment and personnel to provide the services  
requested. It is recommended that the facility  
be closed until the necessary equipment and  
personnel are provided.

11/01/83



UNITED STATES MARINE CORPS  
MARINE CORPS BASE  
CAMP LEJEUNE, NORTH CAROLINA 28542  
BASE SAFETY OFFICE

IN REPLY REFER TO

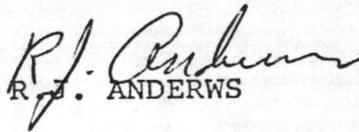
SAFD/TWR/twr  
P5101.20  
8 Aug. 1983

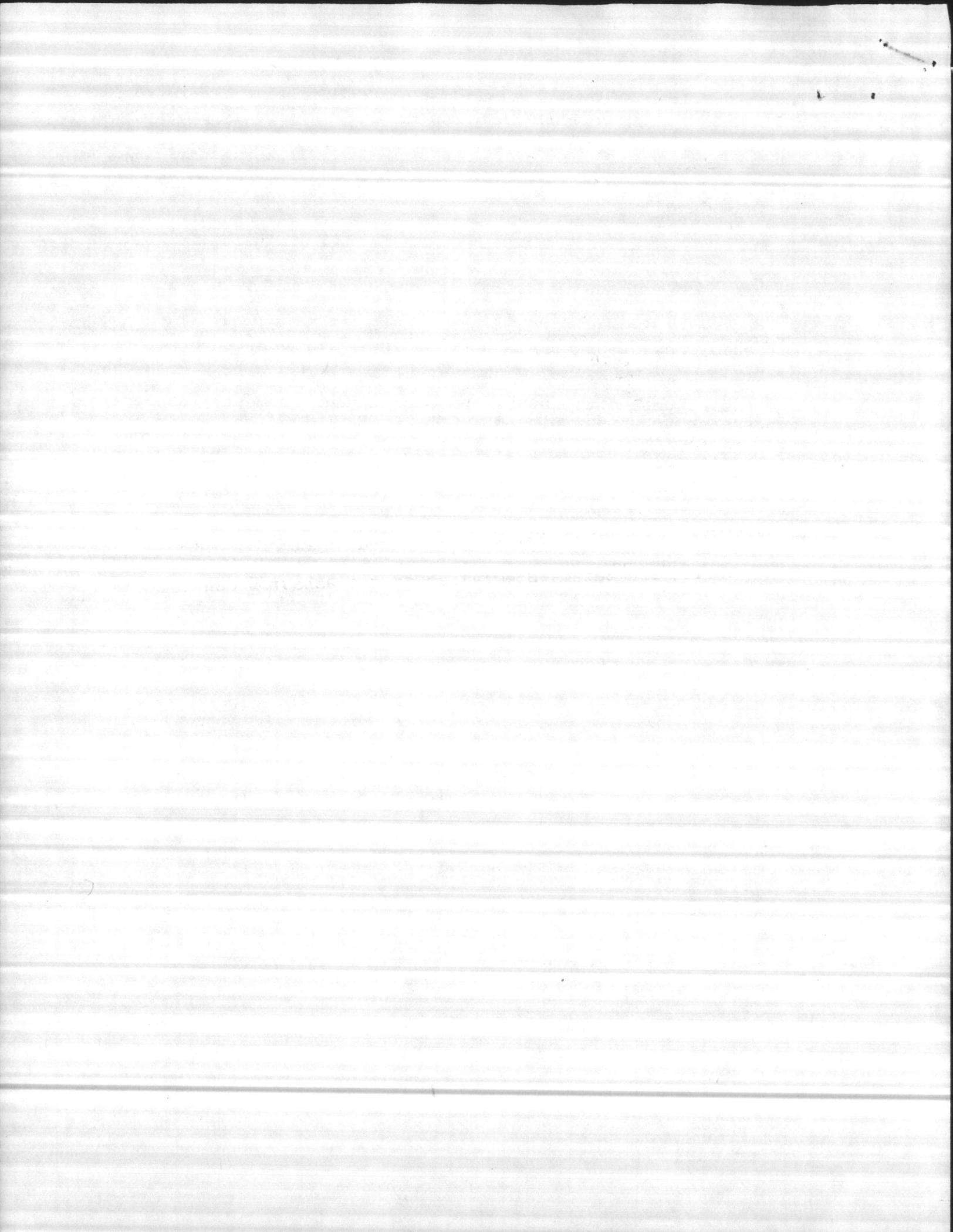
From: Base Safety Manager

To: Addressee

Subj: BO-P5101.20

1. Attached copy of proposed BO-P5101.20 is for your purusal.
2. You are requested to review and submit your comments; concurence/  
non-concurence to ths office NLT COB 16 SEPT. 1983.
3. If additional information is needed, contact this office, POC is  
Tex Ritter. X5725

  
R. J. ANDERWS



BASE ORDER P5101.20

From: Commanding General  
To: Distribution List

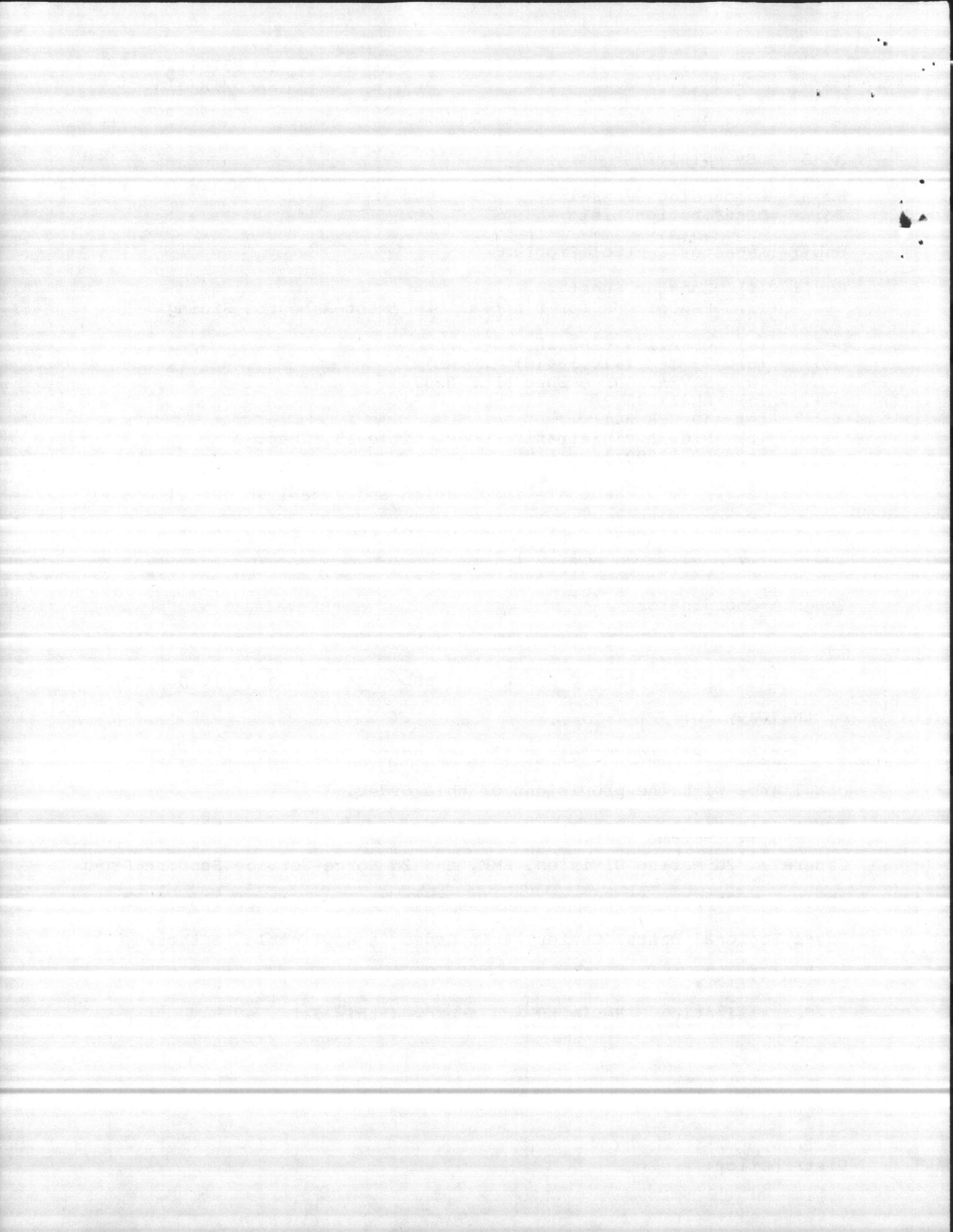
Subj: Asbestos Control Program

Encl: (1) Locator Sheet  
(2) Procedures for Disposal of Cement-Asbestos Siding

Ref: (a) OPNAVIST 6260.1B  
(b) 29 CFR 1910.134(d) (NOTAL)  
(c) NAVFAC Guide Spec NFGS 02075  
(d) ANSI 288.2  
(e) 40 CFR 241  
(f) N.C. Administrative Code, Title 15, Chap. 2  
(g) BO 11090.16

1. Purpose. To disseminate information and establish guidelines and responsibilities for asbestos control and to establish the Industrial Health and Safety Specialist as the Asbestos Control Program Coordinator.
2. Background. References (a) and (b) are the basic directives governing exposure to and control of asbestos within the Department of the Navy.
3. Action. All addressees will take action necessary to ensure compliance with the provisions of this order.
4. Applicability. Having received the concurrence of the Commanding Generals, 2d Marine Division, FMF, and 2d Force Service Support Group (Rein), FMFLant; and the Commanding Officers, Naval Hospital, and Naval Regional Dental Center, this Order is applicable to those commands.
5. Certification. Reviewed and approved this date.

Distribution:



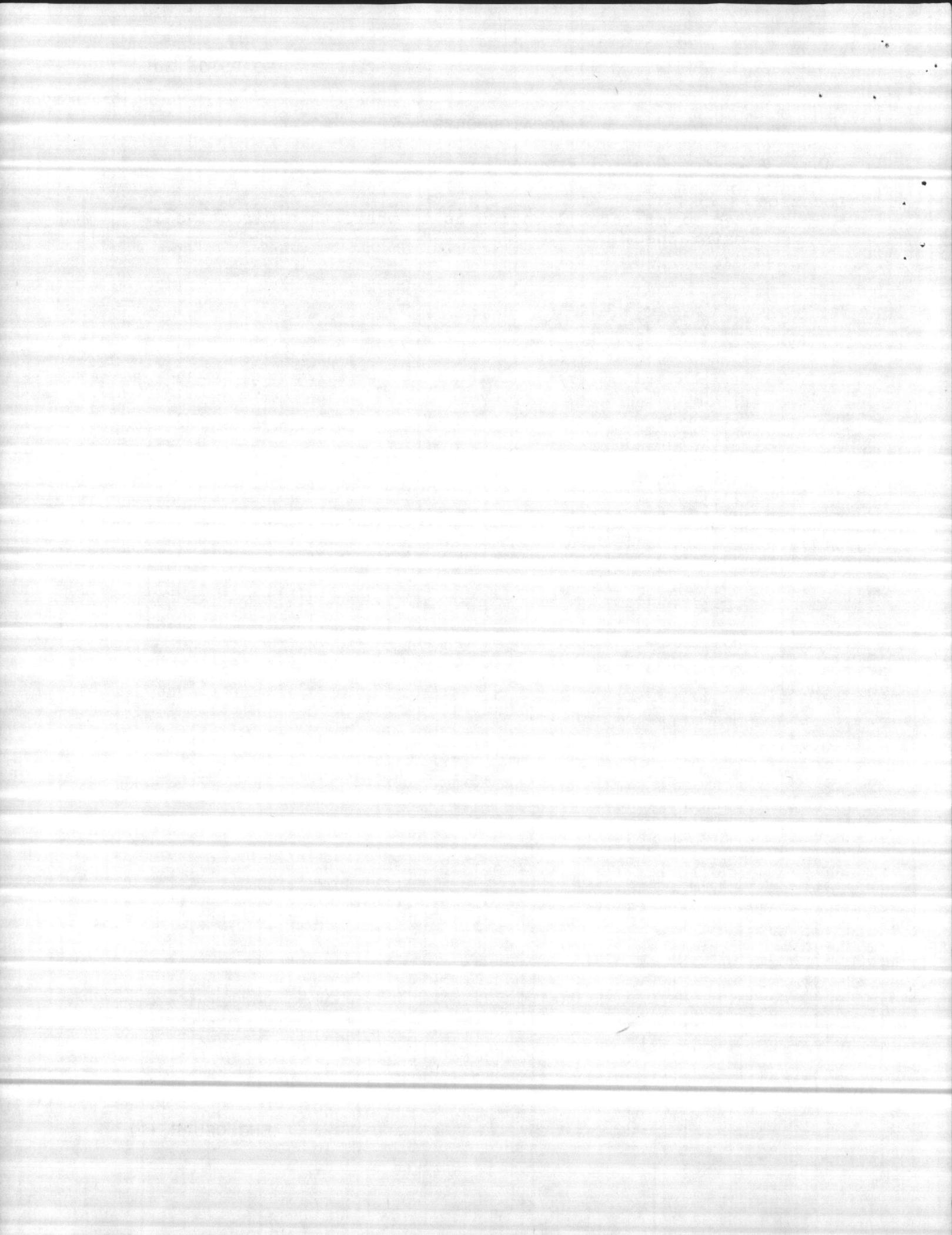
LOCATOR SHEET

Subj: Asbestos Control Program

Location

(Recipient enter location as to where this directive is maintained)

ENCLOSURE (1)



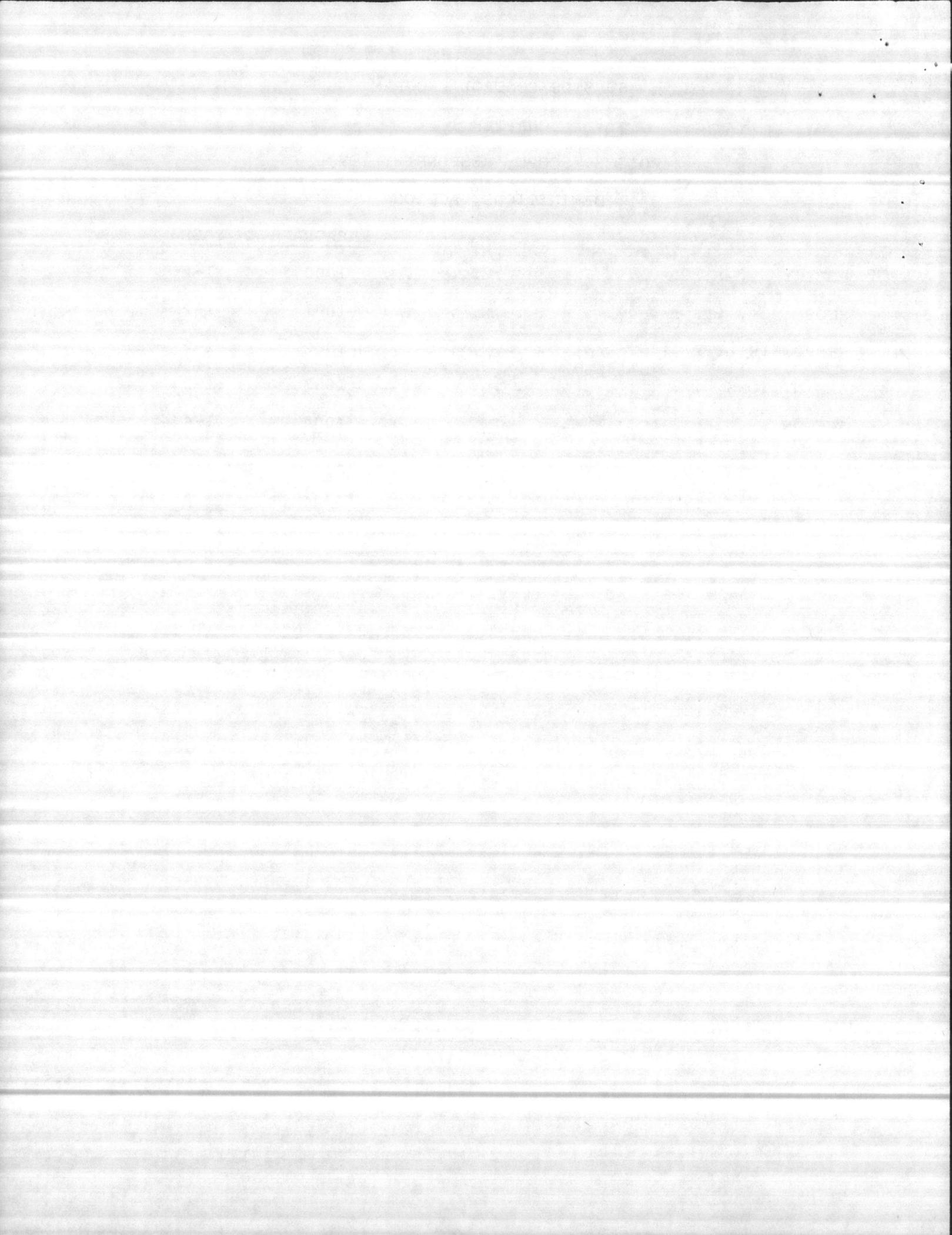
ASBESTOS CONTROL PROGRAM

CHAPTER 1

POLICY, SCOPE, RESPONSIBILITY,

DEFINITIONS, ACTION

	<u>PARAGRAPH</u>	<u>PAGE</u>
POLICY . . . . .	1000	1-2
SCOPE . . . . .	1001	1-2
RESPONSIBILITY . . . . .	1002	1-2
DEFINITIONS . . . . .	1003	1-2
ACTION . . . . .	1004	1-4

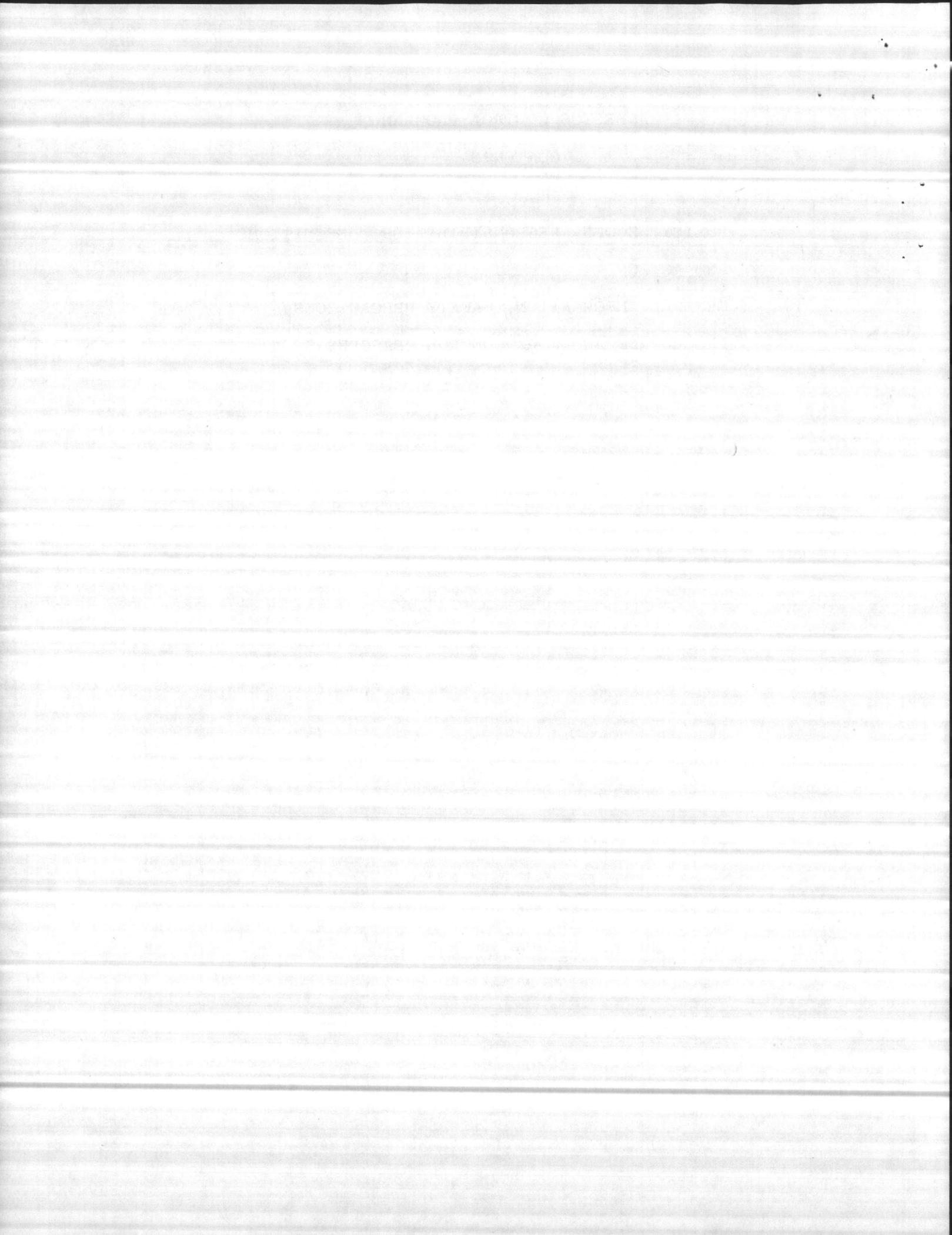


# ASBESTOS CONTROL PROGRAM

## CONTENTS

### CHAPTER

- 1 POLICY, SCOPE, RESPONSIBILITIES, DEFINITIONS  
AND ACTION
- 2 GENERAL INFORMATION, SAFETY PRECAUTIONS,  
PROCEDURES AND WORK CONTROL MEASURES



# ASBESTOS CONTROL PROGRAM

## CHAPTER 1

### POLICY, SCOPE, RESPONSIBILITY, DEFINITIONS, ACTION

#### 1000. POLICY

1. It is the intent of this command that all applicable instructions and safety precautions regarding asbestos be strictly enforced/ followed by all members of this command, military and civilian.

#### 1001. SCOPE

1. This program applies to all command members, contractor personnel, non-appropriated and appropriated fund personnel and dependents of the Camp Lejeune complex.

2. To all phases of exposure to asbestos:

- a. Installation
- b. Removal (rip-out)
- c. Disposal
- d. Repair

#### 1002. RESPONSIBILITY

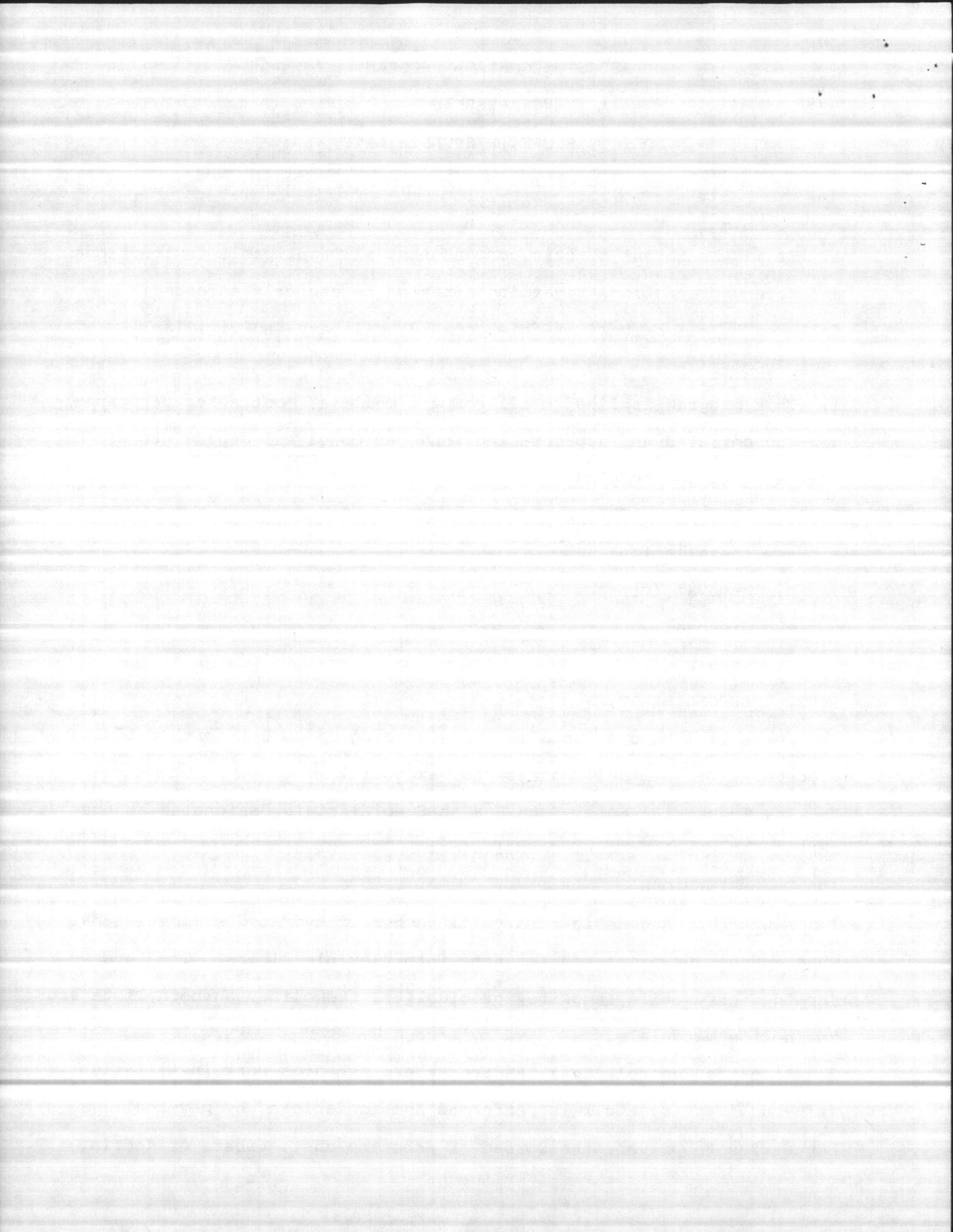
1. There will be one installation-wide program to set forth guidelines/ procedures for controlling asbestos exposure.

2. The Industrial Safety and Health Specialist is designated as the Asbestos Control Program Coordinator.

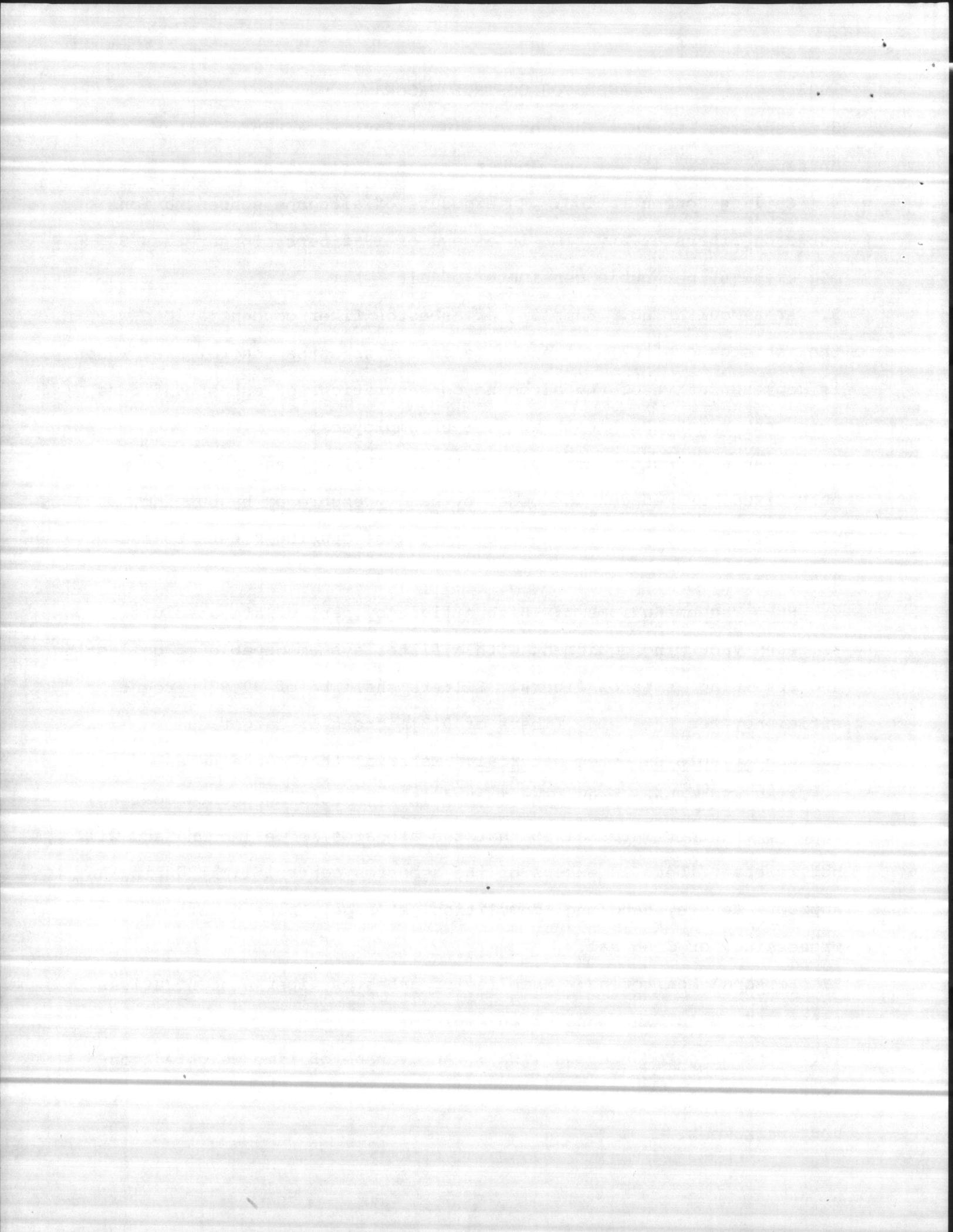
#### 1003. DEFINITIONS

1. Asbestos. A generic term for a number of hydrated silicates that when crushed or processed separate into flexible fibers. The term includes chrysotile, amosite, crocidolite, tremolite, anthophyllite and actinolite materials.

2. Asbestos Control Area: An area where asbestos work installation (rip-out, repair, etc.) is performed and is isolated by physical boundaries to prevent the spread of asbestos dust, fibers or debris.



3. Asbestos Fibers: This expression refers to asbestos fibers having an aspect ratio of 3:1 and longer than 5 micrometers.
4. Ceiling Concentration: An exposure of airborne concentrations of asbestos fibers at any time in excess of 10 fibers, longer than 5 micrometers, per cubic centimeter of air.
5. Area Monitoring: Sampling of asbestos fiber concentrations within the asbestos control area and outside the asbestos control area which is representative of the airborne concentrations of asbestos fibers which may reach the breathing zone of employees.
6. Friable Asbestos Material: Material that can easily be crumpled, pulverized, or reduced to powder by hand pressure or by bumping, scraping, sweeping, walking on or otherwise causing fibers to become airborne.
7. HEPA Vacuum Equipment: High efficiency particulate absolute filtered vacuuming equipment with a filter system capable of collecting and retaining asbestos fibers. Filters shall be of 99.97 percent efficiency for retaining fibers of 0.3 microns or larger.
8. Non-Friable Asbestos Material: Material that contains asbestos in which the fibers have been locked-in by a bonding agent, coating, binder, or other material so that the asbestos is well bound and will not release fibers in excess of the asbestos control limit during any appropriate use, handling, demolition, storage, transportation, processing, or disposal.
9. Personal Monitoring: Sampling of asbestos fiber concentrations within the breathing zone of an employee.
10. Time Weighted Average (TWA): An average of time weighted concentrations of asbestos fibers for an eight hour work day or forty hour work week.



## ASBESTOS CONTROL PROGRAM

### 1004. ACTION

#### 1. Commanding Officers/Departmental Heads:

a. Commanding Officers/Departmental Heads shall establish a procedure for the proper application of the provisions of this order.

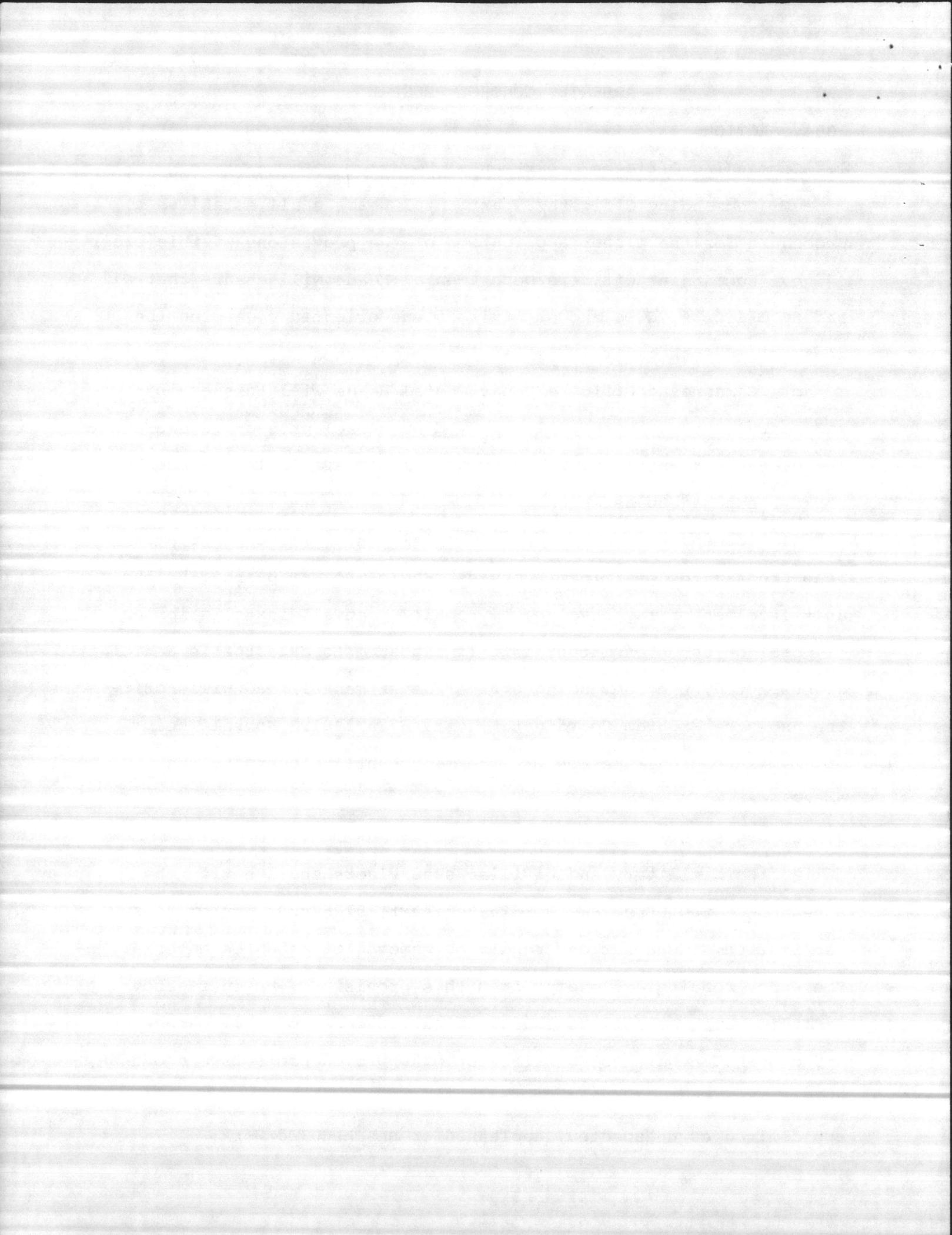
b. Commanding Officers/Departmental Heads will ensure that all safety officers, NCOs and supervisors are oriented regarding the hazards and work controls pertaining to asbestos.

c. Commanding Officers/Departmental Heads will take action necessary to ensure that all approved personnel protective equipment and clothing required by OPNAVIST 6260.1B is available for use by workers exposed to asbestos.

d. Commanding Officers/Departmental Heads will monitor self-help program to determine if any self-help program planned by their unit involves or may involve the repair, removal, installation or disposal of asbestos materials. If exposure to asbestos is anticipated or suspected, the commanding officer/departmental head will notify the Asbestos Program Coordinator, ext. 5725/3891. No self-help program involving asbestos will commence until cleared by the coordinator.

#### 2. Supervisors:

a. Both military and civilian supervisors shall notify the Asbestos Control Program Coordinator, ext. 5725/3891, prior to any fabrication, installation, repair or removal of asbestos material. Emergency repairs are exempt from this provision. However, above exemption applies only to the notification facet of this paragraph and does NOT negate the utilization of approved protective clothing, respiratory equipment and disposal containers. Emergency repairs are defined as unexpected, unplanned or unscheduled work.



## ASBESTOS CONTROL PROGRAM

b. Before assigning workers to asbestos projects, supervisors will instruct employees with regard to the hazards of asbestos, safety and health precautions and the use and requirements of protective equipment.

c. Supervisors will ensure that all required, approved protective clothing, respiratory equipment and controls specified in OPNAVIST 6260.1B are used by employees working with asbestos.

3. Employees:

a. Employees shall comply with all safety/health instructions/guidelines as specified by supervisors and/or local orders, SOPs.

b. Employees shall report to his/her supervisor any suspected asbestos material in their workplace which is in a friable state; that is, a state or condition of disrepair; i.e., broken, cracked, crumbling, falling, etc.

4. Commanding Officer, NH:

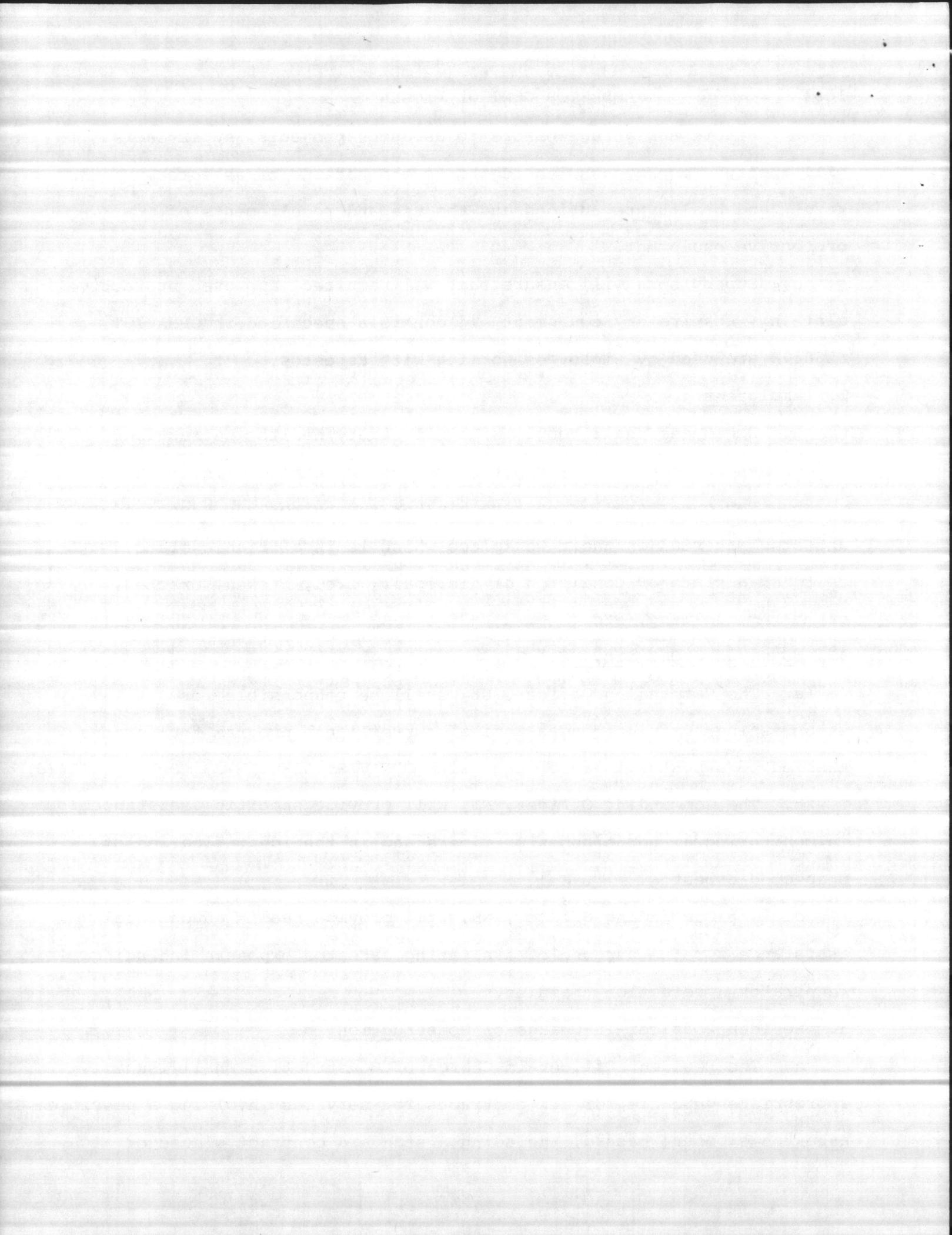
a. The Commanding Officer, NH, shall be responsible for establishing/administering a medical surveillance program for persons exposed to asbestos in accordance with OPNAVIST 6260.1B/29 CFR 1910.134(d)

b. The Commanding Officer, NH, will provide specific assistance in monitoring airborne asbestos fibers and in the identification of suspected asbestos.

c. The Commanding Officer, NH, will provide health educational assistance for the purpose of evaluating asbestos exposure including respiratory protection training.

5. Resident Officer-in-Charge of Construction:

a. The Resident Officer-in-Charge of Construction shall issue appropriate guidance for all contracts for services involving a possible asbestos exposure hazard, including a standard contract clause or



clauses and instructions for their use. The contract clause must require the contractor to measure and control asbestos fibers.

b. The contract will contain specific instructions for disposal and transport of asbestos wastes in accordance with the provisions of this order.

c. The Resident Officer-in-Charge of Construction will notify the Assistant Chief of Staff, Facilities, in writing (with copy to Asbestos Program Coordinator) not later than thirty working days prior to start of work involving asbestos.

d. The Resident Officer-in-Charge of Construction will familiarize contractors with the provisions of procedures for disposal of cement-asbestos siding by contractors at base sanitary landfill, enclosure (2). (Provisions of enclosure (2) and other provisions of this order apply to all types asbestos wastes generated at Camp Lejeune.)

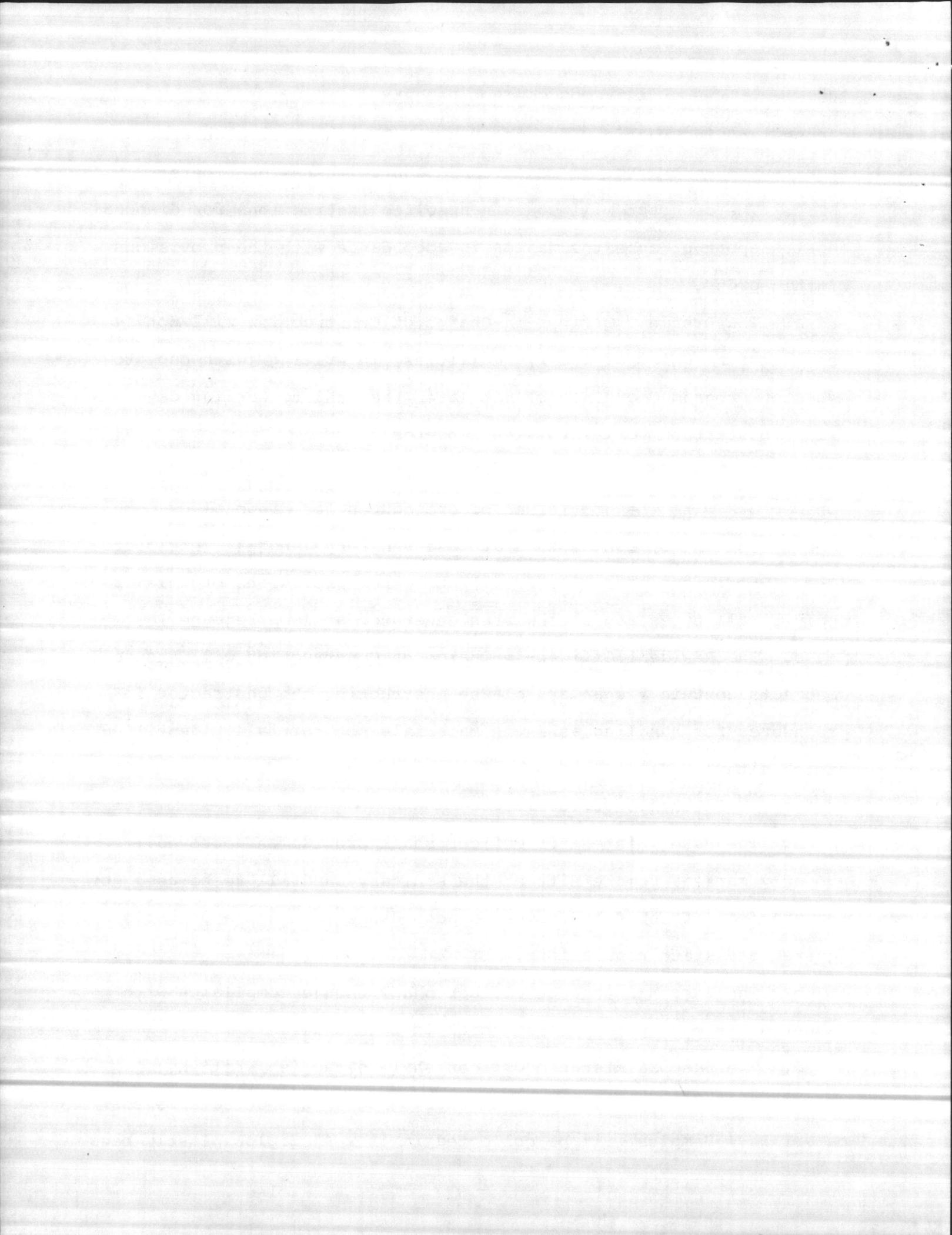
e. The Resident Officer-in-Charge of Construction will ensure contracts contain a standard clause instructing the contractor in procedures for handling asbestos materials not initially identified at job site.

6. Base Maintenance Officer:

a. The Base Maintenance Officer shall provide an approved, properly marked, remote site at the sanitary landfill to be used for the disposal of asbestos wastes in accordance with all applicable federal and state regulations.

b. The Base Maintenance Officer shall ensure compliance with asbestos waste disposal as set forth in this order.

c. The Base Maintenance Officer shall establish written procedures for the collection and cataloging of suspected asbestos materials. Samples will be collected in 4" x 4" ziploc plastic bags,



labeled "Caution - Contains Asbestos" and forwarded to the NRMC Occupational and Preventive Medicine Officer, Industrial Hygienist.

d. The Base Maintenance Officer shall, when submitting an order for materials which may contain asbestos, or materials which must possess the properties of asbestos, coordinate with Technical and Research personnel for the purpose of purchasing an acceptable asbestos-free substitute material.

e. The Base Maintenance Officer will notify the Assistant Chief of Staff, Facilities, in writing (with copy to Asbestos Program Coordinator) not later than 30 working days prior to start of work involving asbestos.

f. The Base Maintenance Officer will develop local procedures/work methods to be used by all members of his organization. Procedures will be in accordance with OPNAVIST 6260.1B and Chapter 2 of this order.

7. Logistics:

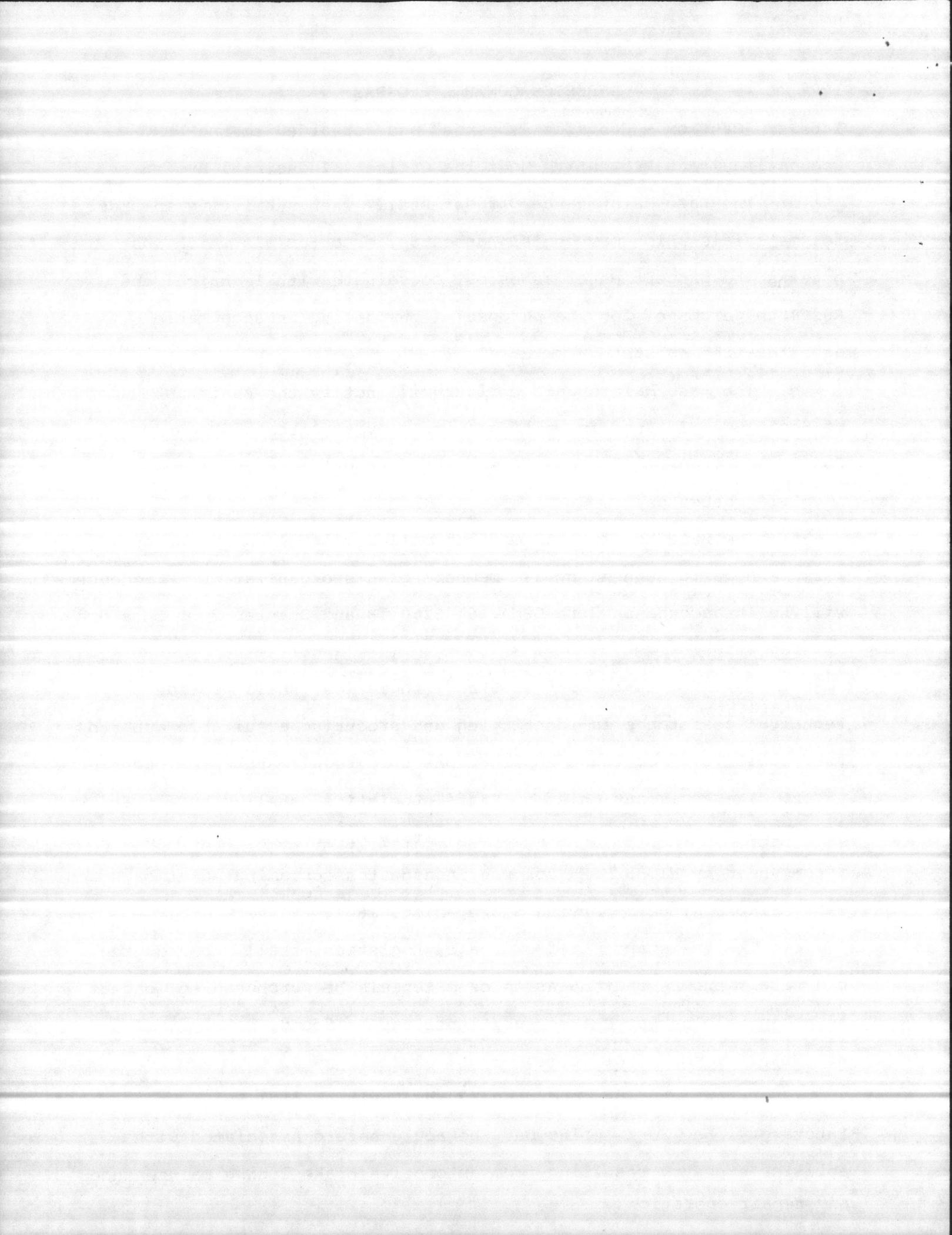
a. The Assistant Chief of Staff, Logistics, shall provide technical assistance in identifying and procuring a suitable asbestos-free substitute for those applications that require asbestos proprieties.

b. The Assistant Chief of Staff, Logistics, shall ensure that personnel protective equipment/respiratory protection, approved and recommended by NIOSH/MSHA for use in asbestos contaminated atmospheres is available at Self-Service Store, Bldg. 1601.

c. The Assistant Chief of Staff, Logistics, shall, to a degree practical, ensure that no asbestos materials be purchased so long as an acceptable asbestos-free substitute can be found.

8. Motor Transport Officers:

a. Recent studies conducted by the Environmental Sciences Laboratory, New York, point out the acute hazard associated with asbestos exposure resulting from automotive brake lining maintenance and repair operations.



## ASBESTOS CONTROL PROGRAM

b. All commanders having cognizance of brake repair facilities will take appropriate actions to ensure that provisions of Chapter 2, paragraph 2002(1-6) of this order are followed.

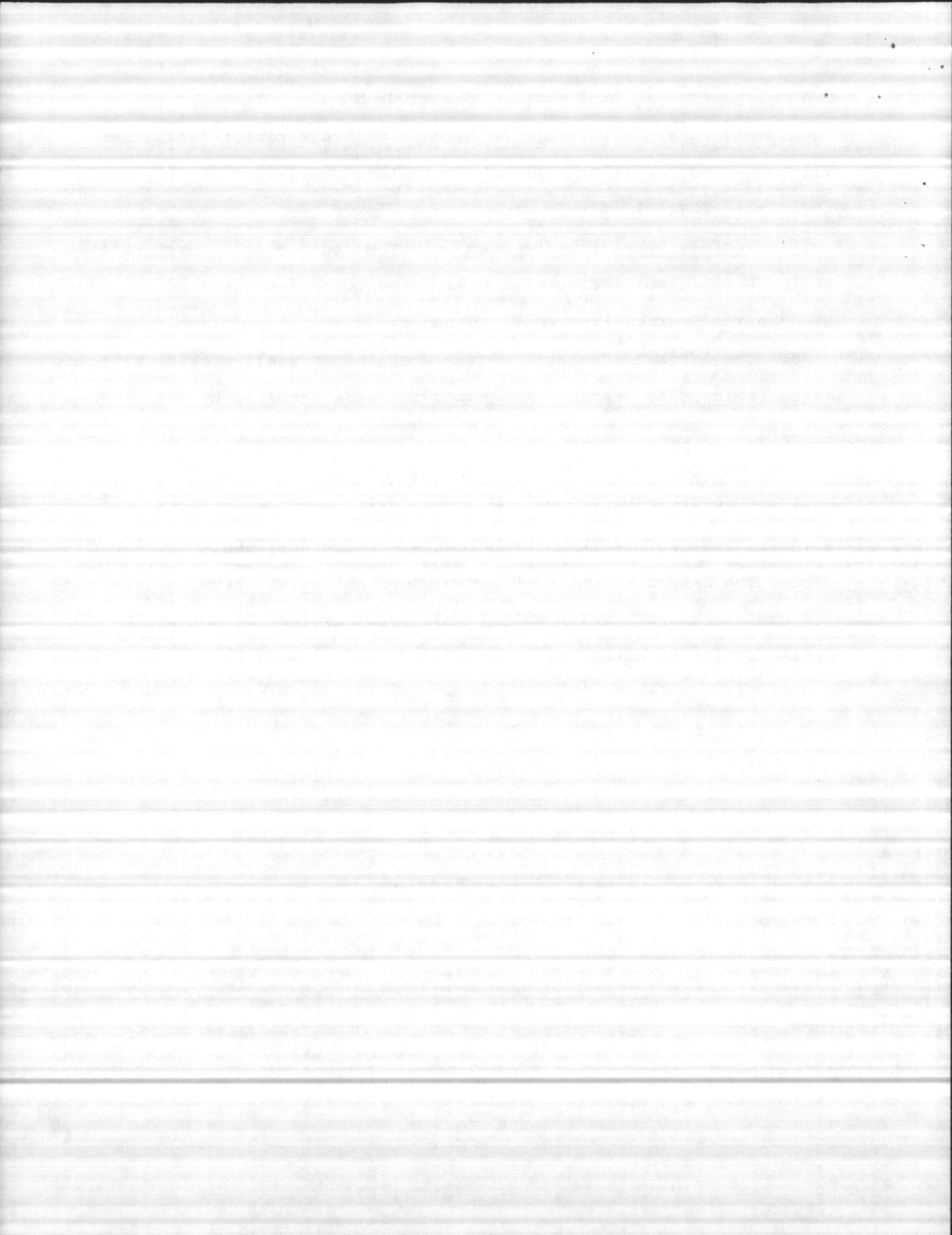
9. Base Safety Manager: The Base Safety Manager shall be responsible for the overall monitoring of the asbestos control program.

10. Asbestos Control Program Coordinator:

a. The Asbestos Control Program Coordinator shall provide asbestos safety training for workers and supervisors as required by OPNAVIST 6260.1B.

b. The Asbestos Control Program Coordinator will periodically monitor work sites, methods, procedures utilized by base workers to ensure that safe working practices are being followed.

c. The Asbestos Control Program Coordinator will provide liaison with employees and Naval Hospital industrial hygiene personnel in identification of asbestos, selection of PPE and work methods as needed.

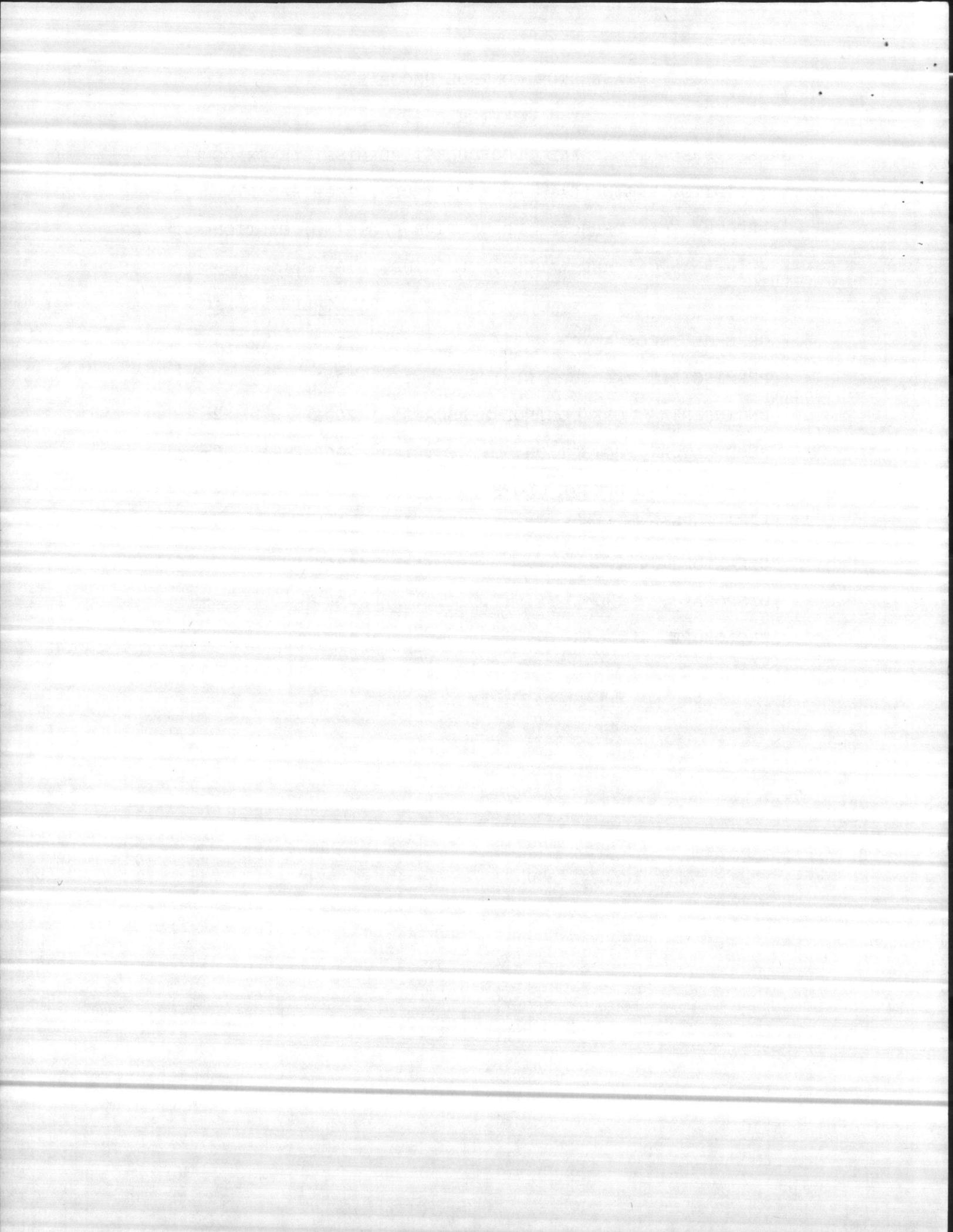


ASBESTOS CONTROL PROGRAM

CHAPTER 2

SAFETY PRECAUTIONS AND PROCEDURES, PERMISSIBLE EXPOSURE  
LIMITS, ENGINEERING WORK CONTROLS, RESPIRATORY  
PROTECTION, PERSONAL PROTECTIVE CLOTHING, CAUTION  
SIGNS AND LABELS, CLEAN UP, DISPOSAL

	<u>PARAGRAPH</u>	<u>PAGE</u>
GENERAL INFORMATION . . . . .	2000	2-2
PERMISSIBLE EXPOSURE LIMITS . . .	2001	2-2
ENGINEERING WORK CONTROL MEASURES	2002	2-3
RESPIRATORY PROTECTION. . . . .	2003	2-5
PERSONAL PROTECTIVE CLOTHING . .	2004	2-7
CAUTION SIGNS AND LABELS. . . . .	2005	2-8
CLEAN UP . . . . .	2006	2-9
DISPOSAL . . . . .	2007	2-9
ENCLOSURE . . . . .	1	2-10



# ASBESTOS CONTROL PROGRAM

## CHAPTER 2

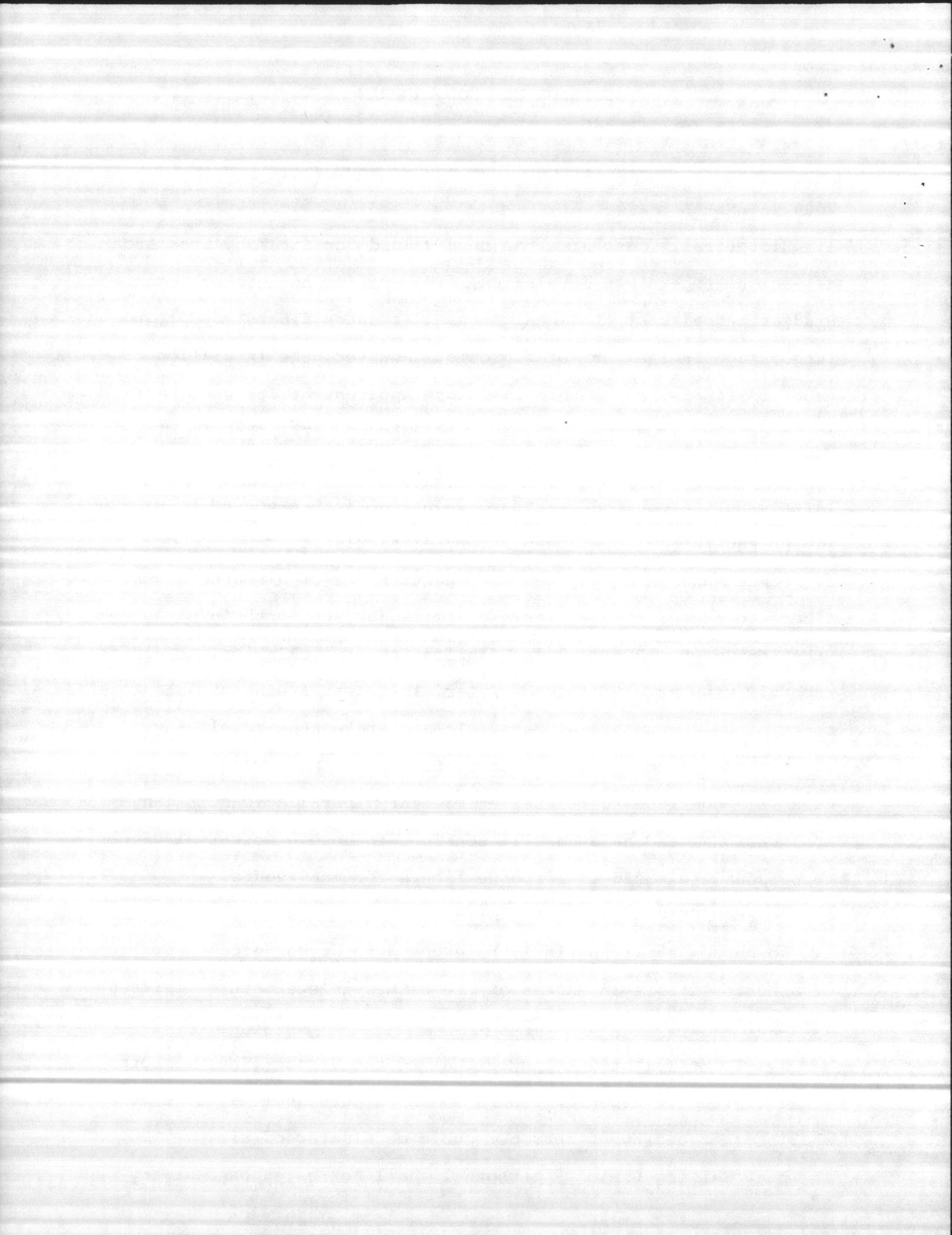
### SAFETY PRECAUTIONS AND PROCEDURES

#### 2000. GENERAL

1. Historically, asbestos has been valued for its many uses such as: high temperature insulation, fireproofing and gasket material. Studies reveal that the inhalation of asbestos fibers may produce lung damage in the form of fibrosis. However, the inhalation of asbestos fibers produces no immediate apparent health problems; consequently, personnel working with asbestos are prone to minimize the exposure incident. Case histories indicate there is a long latency period of 20-40 years between the first exposure to asbestos fibers and the onset of respiratory difficulties.
2. Some tasks which may cause concentrations of airborne asbestos fibers to exceed the permissible limits (as set forth in paragraph (d) OPNAVINST 6260. 1B) are fabrication, installation, repair or removal (rip-out) of asbestos materials, power sawing of asbestos-containing fire retardant materials and brake repair/relining.
3. Although asbestos free substitutes are being developed, asbestos materials continue to be used at military installations in many applications, and as such will continue to pose a potential danger to personnel exposed to airborne fibers for many years.

#### 2001. PERMISSIBLE EXPOSURE LIMITS

1. No person shall knowingly be exposed to airborne concentrations of asbestos fibers in excess of the permissible exposure limits as follows:
  - a. "Time Weighted Average (TWA)" - the 8 hour (TWA) airborne concentration of asbestos fibers to which personnel may be exposed shall not exceed two fibers per cubic centimeter of air.
  - b. "Ceiling Limit" - personnel shall not be exposed at any



time to airborne concentrations of asbestos fibers in excess of ten fibers per cubic centimeter of air.

2002. ENGINEERING AND WORK PRACTICE CONTROL MEASURES

1. Local exhaust ventilation and dust collection systems shall be designed, constructed, installed and maintained in accordance with:

a. Industrial Ventilation - A Manual of Recommended Practice.

Committee on Industrial Ventilation, American Conference of Governmental Industrial Hygienists, Inc.

b. American National Standard: Fundamentals Governing the Design and Operation of Local Exhaust Systems, ANSI Z9.2 1979.

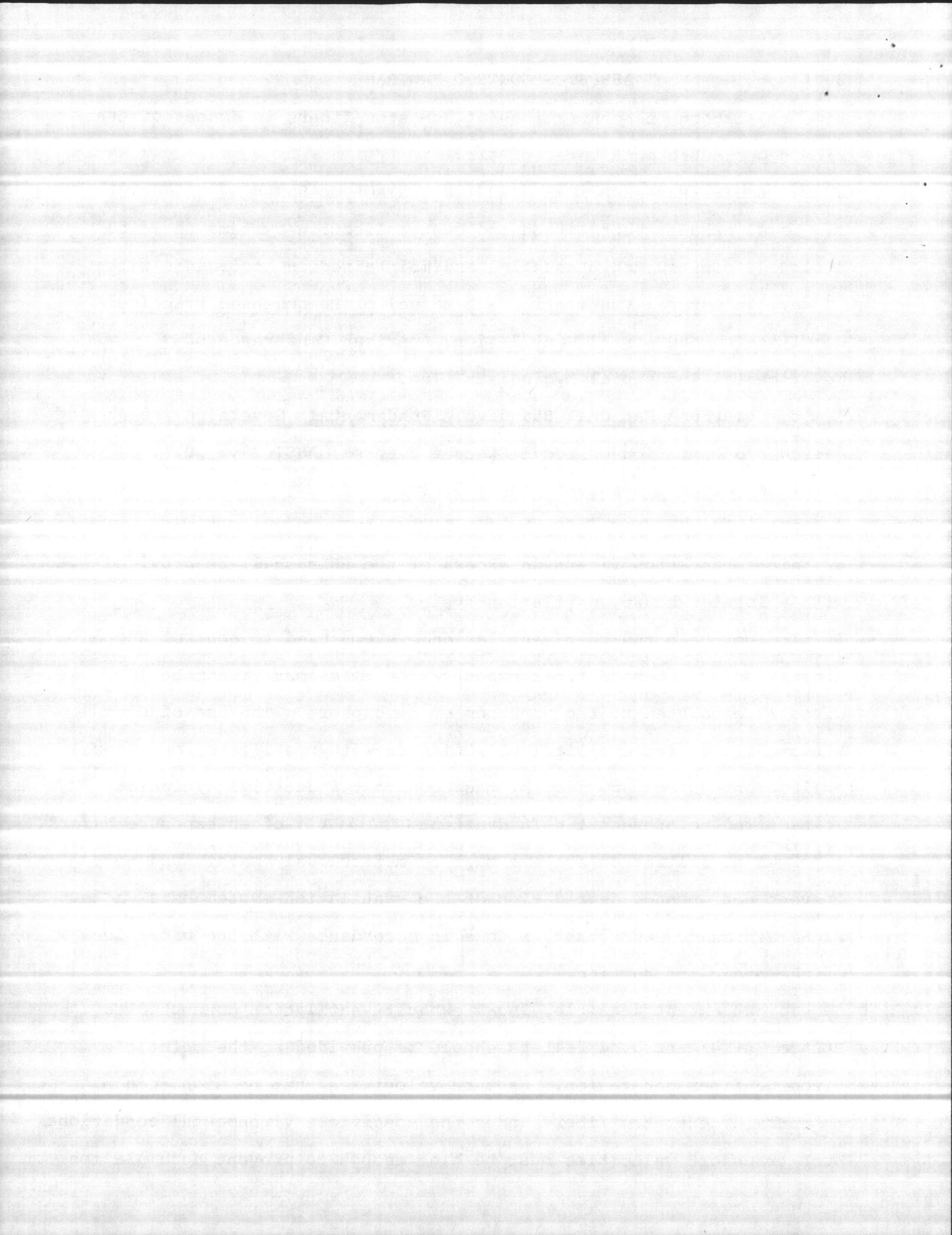
American National Standards Institute.

2. All hand-operated and power-operated tools which may produce or release asbestos fibers in excess of the PELs shall be provided with a local exhaust ventilation system.

3. It must be noted that ventilation systems used to control the generation of asbestos fiber exposures or emissions cannot be directly exhausted to the workroom or atmosphere. The use of High Efficiency Particulate Air (HEPA) filters with prefilters, or other collection systems approved by the cognizant industrial hygienist, is required to prevent the inadvertent creation of an exposure hazard.

4. Exhaust filtration systems must be meticulously maintained to prevent performance degradation of the ventilation system as a whole. Such maintenance work must be done in accordance with the provisions of the basic instruction.

5. To the extent feasible, local exhaust ventilation connected to HEPA or other approved filters should be provided at the point of airborne fiber generation. Capture velocities must be high enough to entrain generated fibers under the specific environmental conditions. Duct transport velocities must be high enough to prevent accumulation

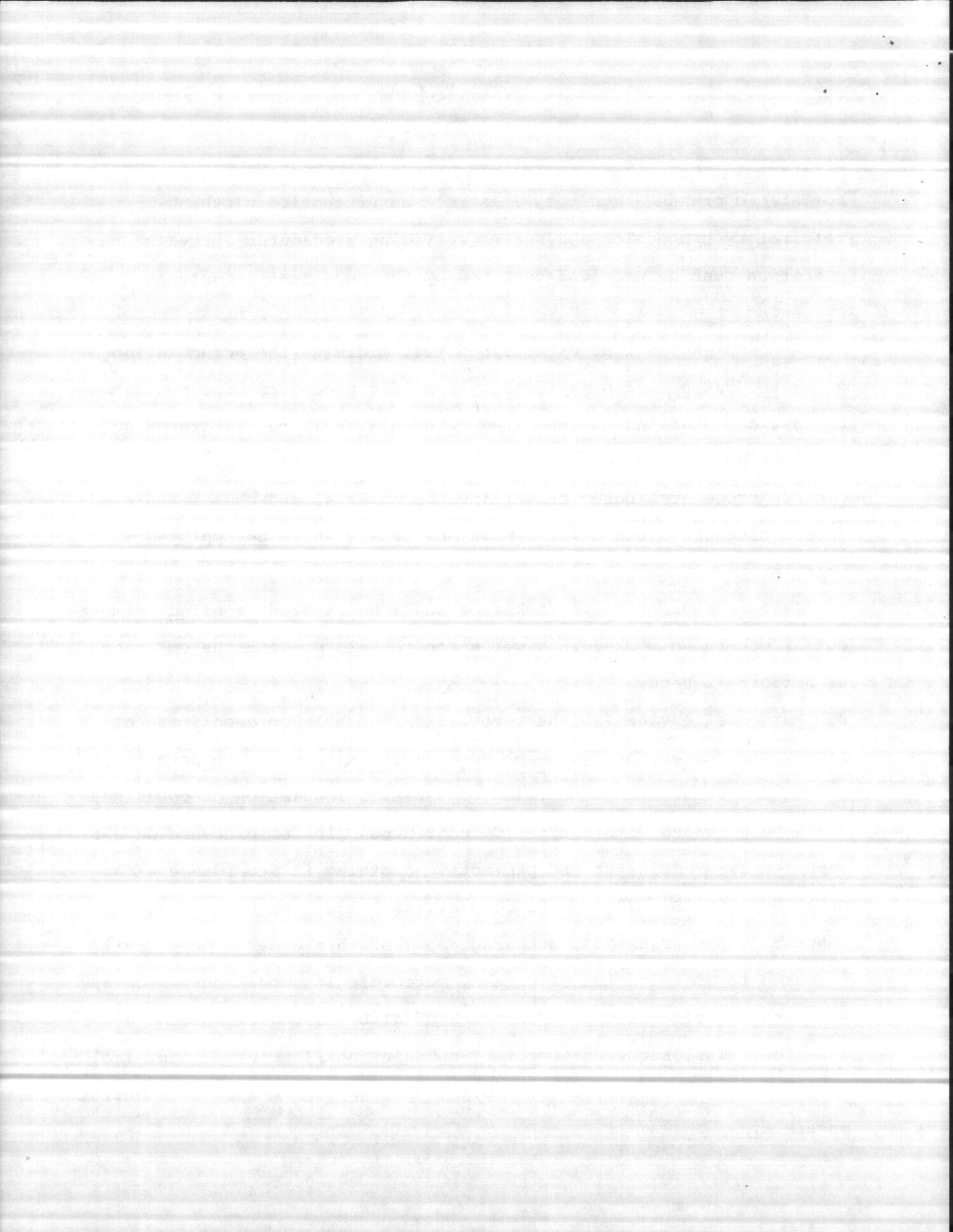


of fibers in the duct, and clean-out ports should be provided where necessary. Specific equipment design parameters (e.g., requirements for static pressure monitors), as well as protective clothing/respiratory protection and system servicing procedures for each operation must be provided/approved by the cognizant industrial hygienist.

6. Procedures shall be established that minimize the accumulation of waste dust or scrap materials. Specific procedures for containment of dust and handling of contained materials shall be instituted so that the possibility of secondary air contamination is minimized. Cleanup procedures based on wetting the material and use of approved vacuum cleaning systems for removal of debris shall be employed whenever possible.

7. As far as practicable, asbestos shall be handled, applied, removed, cut or otherwise worked in a wet state to help prevent the emission of airborne fibers.

8. Personnel engaged in the removal ("rip-out"), or demolition of pipes, structures, or equipment covered or insulated with asbestos, and in the removal or demolition of asbestos insulation or coverings shall be provided with a type "C" continuous flow or pressure demand, supplied air respirator and protective clothing in accordance with OPNAVIST 6260.1B - 29 CFR 1910.134(d), ANSI 288.1 as prescribed in Chapter 2, paragraph 204, subparagraph 7 of this order. Care shall be taken to minimize the effects of meteorologic conditions, such as wind, to control the spread/increase of airborne concentrations of asbestos. Enclosures or temporary curtains shall be used to control the amount and velocity of air moving through the workplace, whenever possible.



## ASBESTOS CONTROL PROGRAM

### 2003. RESPIRATORY PROTECTION

1. Engineering control measures shall be employed to control and reduce airborne asbestos fibers to the lowest feasible level.

Compliance with PELs shall not be achieved by the use of respirators except under the following conditions:

a. During the time period necessary to implement engineering control measures;

b. when work situations for which the control methods prescribed are not technically feasible, or are feasible to an extent insufficient to reduce the airborne concentration of asbestos fibers below the PELs; and

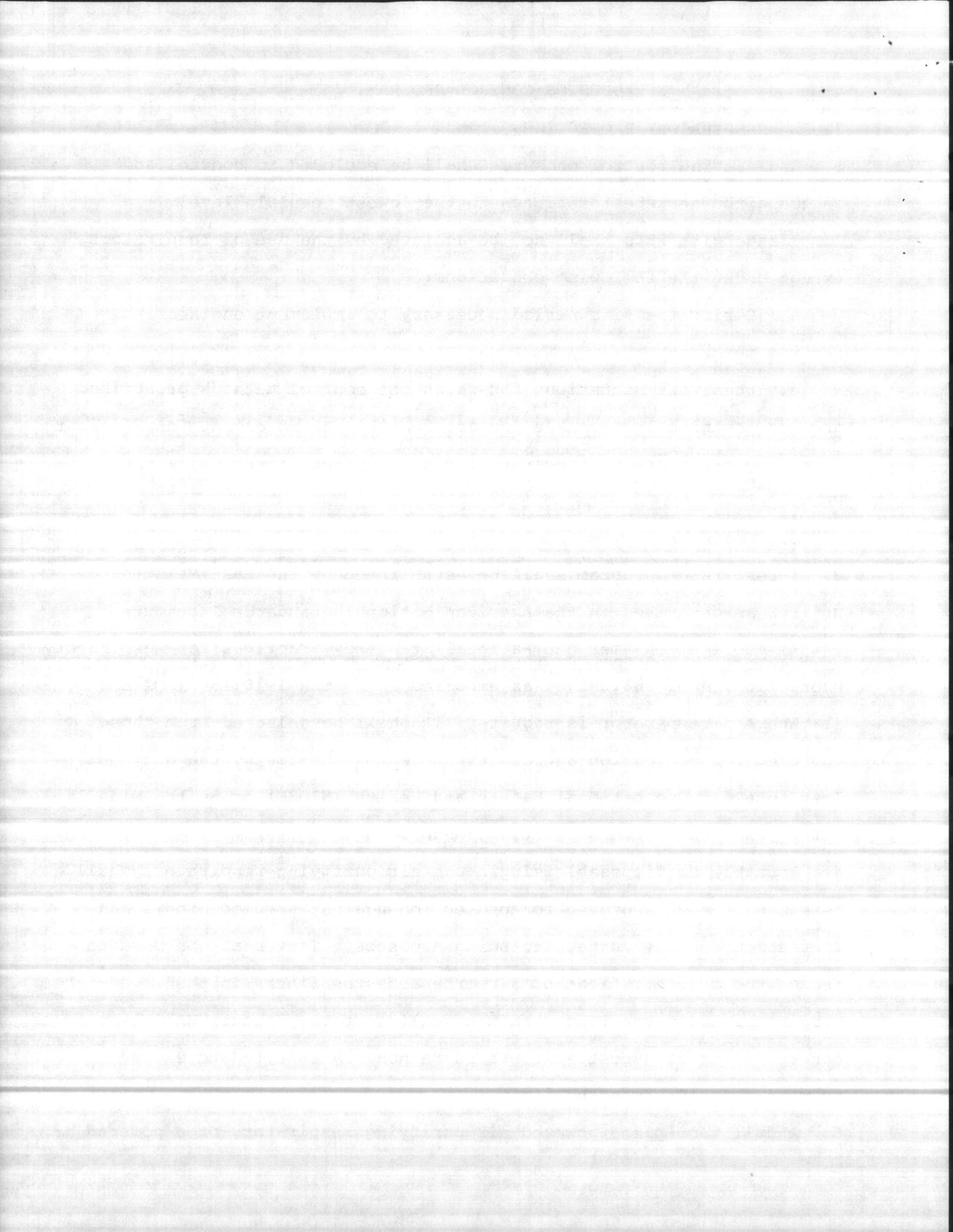
c. during emergencies.

2. A respirator program shall be established by the Base Maintenance Officer as described in the American National Standards Institute (ANSI) publication American National Standard, Practices for Respiratory Protection, ANSI Z88.2-1980 as embodied in 29 CFR 1910.134 (NOTAL).

3. Where a respirator is required, it shall be selected from those approved for protection against exposure to asbestos by the National Institute for Occupational Safety and Health (NIOSH) or by the Mine Safety and Health Administration (MSHA).

4. Reusable or disposable single-use air purifying respirators shall be NIOSH or MSHA approved for protection against pneumoconiosis and fibrosis producing dusts, including asbestos. They shall be used to reduce the concentrations of airborne asbestos fibers in the respirator below the PELs when the ceiling or the 8-hour TWA concentration of asbestos fibers is reasonably expected to exceed no more than 10 times the limit.

5. A full face piece powered air purifying respirator, or a powered



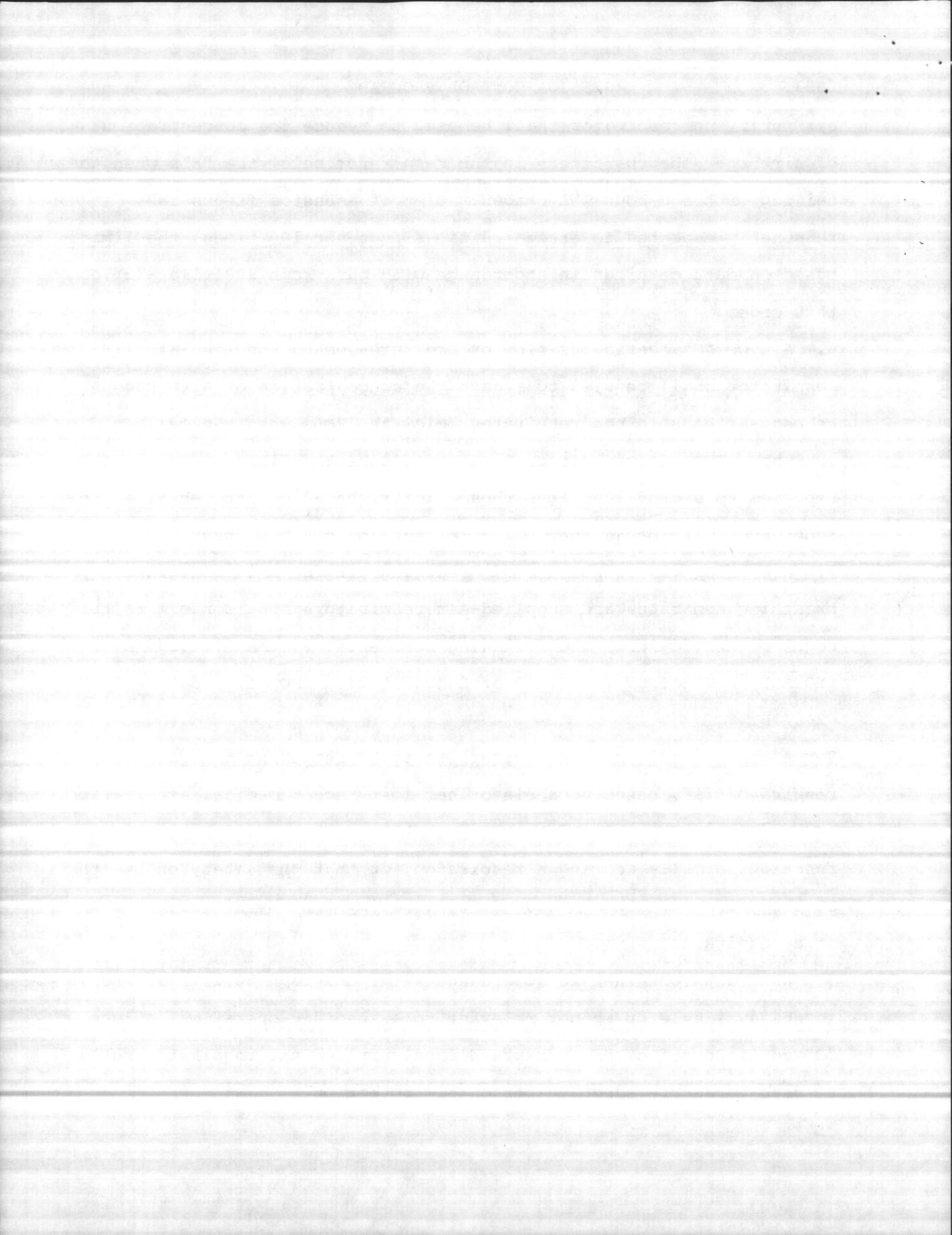
air purifying respirator shall be used to reduce the concentration of airborne asbestos fibers in the respirator below the PELs when the ceiling or the 8-hour TWA concentration of asbestos fibers is reasonably expected to exceed 10 times, but not 100 times, the limit, based on data obtained in accordance with paragraph 2001.1(a)-(b) of this order.

6. A type "C" continuous flow or pressure-demand supplied-air respirator shall be used to reduce the concentration of airborne asbestos fibers in the respirator below the PELs when the ceiling or 8-hour TWA airborne concentration of asbestos fibers is reasonably expected to exceed 100 times those limits, based on data obtained in accordance with paragraph 2001.1 (a) and (b) of this order.

7. Breathing air or sources of breathing air for self-contained breathing apparatus and supplied-air respirators must conform to the requirements found in the following documents: 29 CFR 1910.134(d) (NOTAL); NAVFACINST 11300.24B of 2 August 1972 (NOTAL) and OPNAVINST 6260.1B.

8. A person shall not be assigned to tasks requiring the use of respirators if, based upon his or her most recent medical examination, the examining physician determines that the person will be unable to function normally wearing a respirator, or that the safety or health of the person or other personnel will be impaired by his or her use of a respirator.

9. When data obtained in accordance with paragraph 2001.1 (a) and (b) is not available or is not relevant to a specific operation, a type "C" continuous-flow or pressure-demand supplied air respirator shall be used to assure adequate personnel protection.



## ASBESTOS CONTROL PROGRAM

### 2004. PERSONAL PROTECTIVE CLOTHING/CHANGE ROOM/SHOWER FACILITY REQUIREMENTS

1. Personnel engaged in the handling of asbestos-containing materials where emission of airborne fibers is likely to be in excess of the PELs, shall wear the below listed protective clothing:

a. Full-body, one-piece, disposable coveralls (preferably constructed of Tyvek material, or material comparable in weight, strength, and resistance to penetration by asbestos) over cloth coveralls.

b. Hoods (head coverings), which shall extend beyond the collar of the coverall to completely protect the neck area. The hood should be made of Tyvek material, or a comparable substitute. Use of a Tyvek coverall with attached hood is highly desirable.

c. Medium weight rubber gloves, or thin latex or rubber gloves with cotton "over glove."

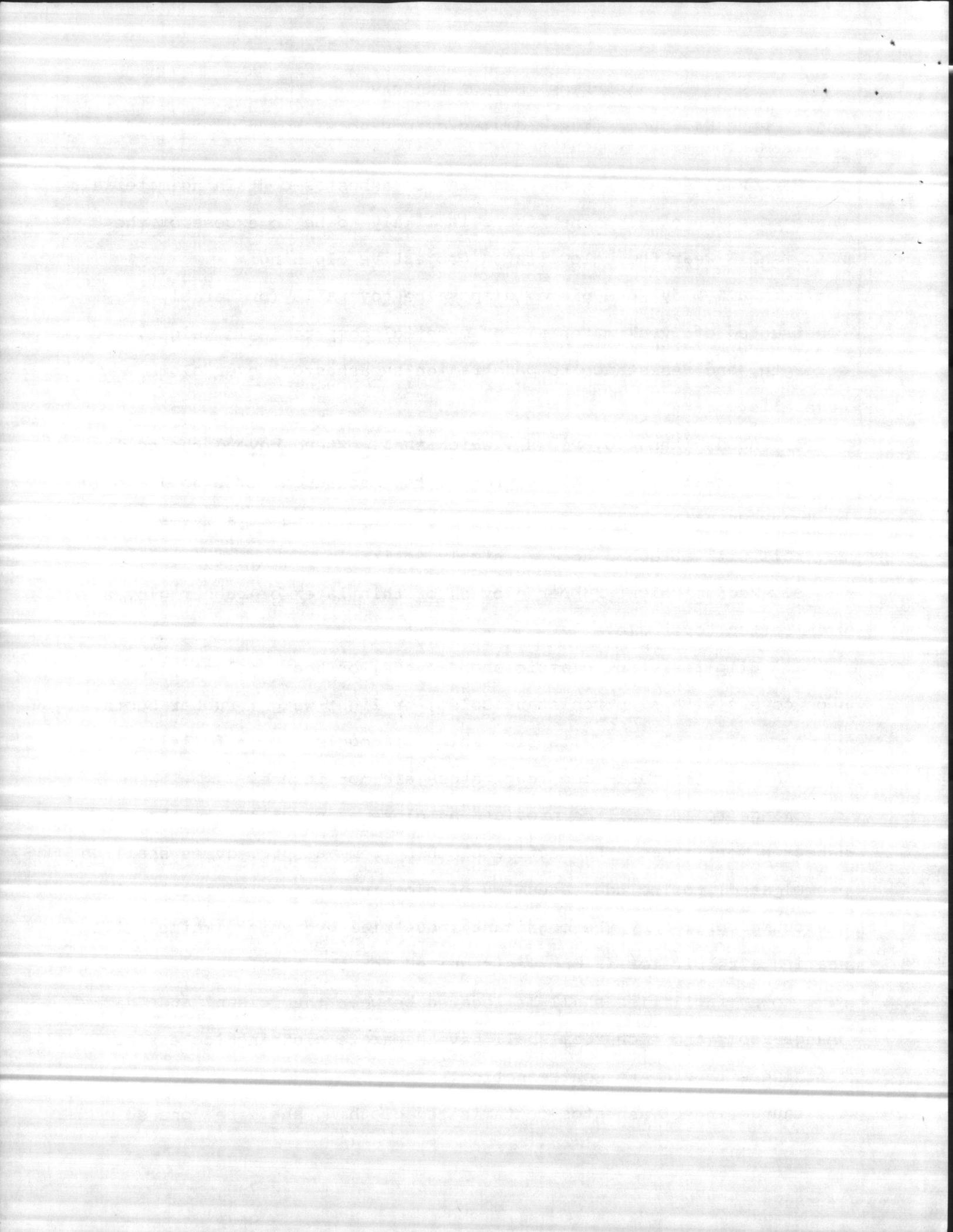
d. Slip-resistant plastic shoe covers, or heavy polyethylene shoe covers with slip-resistant soles, or light-weight rubber boots.

e. Safety glasses with side shields, goggles, or a full-length face shield when full-face respirators are not in use.

2. Change rooms shall be provided as close as practical to the asbestos work areas. Protective clothing removal procedures shall be promulgated, to include vacuuming of clothing (before removal) using a vacuum approved by the cognizant industrial hygienist (while still wearing a respirator if one was required for the task).

3. Shower facilities shall be located between the "clean" and "dirty" change rooms and each room shall have separate clothing lockers or containers to prevent contamination.

4. Laundering of asbestos-contaminated clothing shall be done so



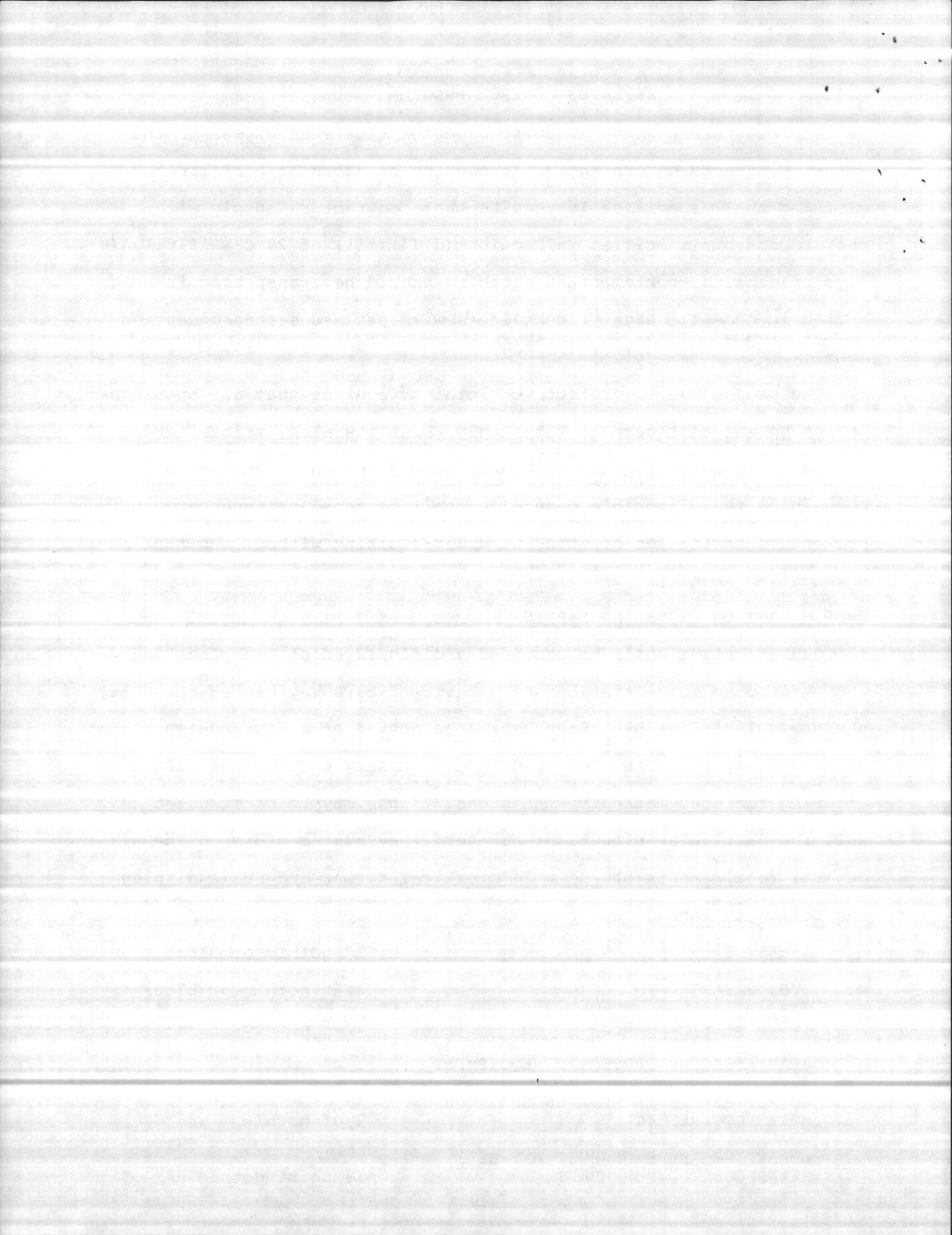
as to prevent release of airborne asbestos fibers in excess of the PELs. Contracts governing the laundering of asbestos-contaminated clothing shall specifically require that contractors comply with the precautions specified in Section (d)(4)(iii) of 29 CFR 1910.134(d). Bags of asbestos-contaminated clothing should be transported in sealed impermeable bags or containers with affixed standard caution label.

5. The proper use of protective clothing requires that all openings be closed and that garments fit snugly about the neck, wrists, and ankles. Accordingly, the wrist and ankle junctions, and the collar opening on the disposable coveralls shall be taped as necessary to prevent contamination of skin and under-clothing without restricting physical movement.

2005. CAUTION SIGNS AND LABELS

1. Caution signs shall be provided and displayed at each location where airborne concentrations of asbestos fibers may exceed the PELs, paragraph 2001.1(a)(b). Signs shall be posted at a distance such that personnel may read the signs and take necessary precautions before entering the area marked by the signs. Signs may be constructed to suit the particular situation; however, they must conform to the general requirements of 20" x 14" vertical format and shall display the following legend:

ASBESTOS	1" gothic or block
DUST HAZARD	3/4" gothic or block
AVOID BREATHING DUST	1/4" gothic
WEAR ASSIGNED PROTECTIVE EQUIPMENT	1/4" gothic
DO NOT REMAIN IN AREA UNLESS YOUR WORK REQUIRES IT	1/4" gothic
BREATHING ASBESTOS DUST MAY BE HAZARDOUS TO YOUR HEALTH	14 point gothic



2005

ASBESTOS CONTROL PROGRAM

2. Caution labels shall be affixed to containers of raw materials, mixtures, scrap, waste, debris, and other products containing asbestos fibers.

2006. CLEAN-UP

1. Essential measures of asbestos dust control are housekeeping and clean-up procedures. External surfaces in places of employment must remain free of accumulations of asbestos fibers to prevent further dispersion. Meticulous attention must be given to restricting the spread of dust and debris by keeping waste from being distributed over the general area. Do not blow down the space with compressed air. When rip-out operations are complete, all asbestos debris must be removed from the worksite, and final clean-up completed. Monitor the asbestos airborne fiber concentration of the area as specified herein and certify the area as safe before the signs are removed. (If additional cleaning is required, monitor the asbestos airborne concentration thereafter. Notify the Asbestos Control Program Coordinator before unrestricted entry is permitted).

2007. DISPOSAL

1. In preparation for disposal, asbestos wastes must be adequately wet, when appropriate, prior to bagging in heavy-duty plastic bags or other suitable impermeable containers. All bags or containers must be provided with standard asbestos caution labels. Containers, such as trash cans, dumpsters, ect. used to collect asbestos wastes subsequent to disposal shall be painted yellow with the following legend displayed.

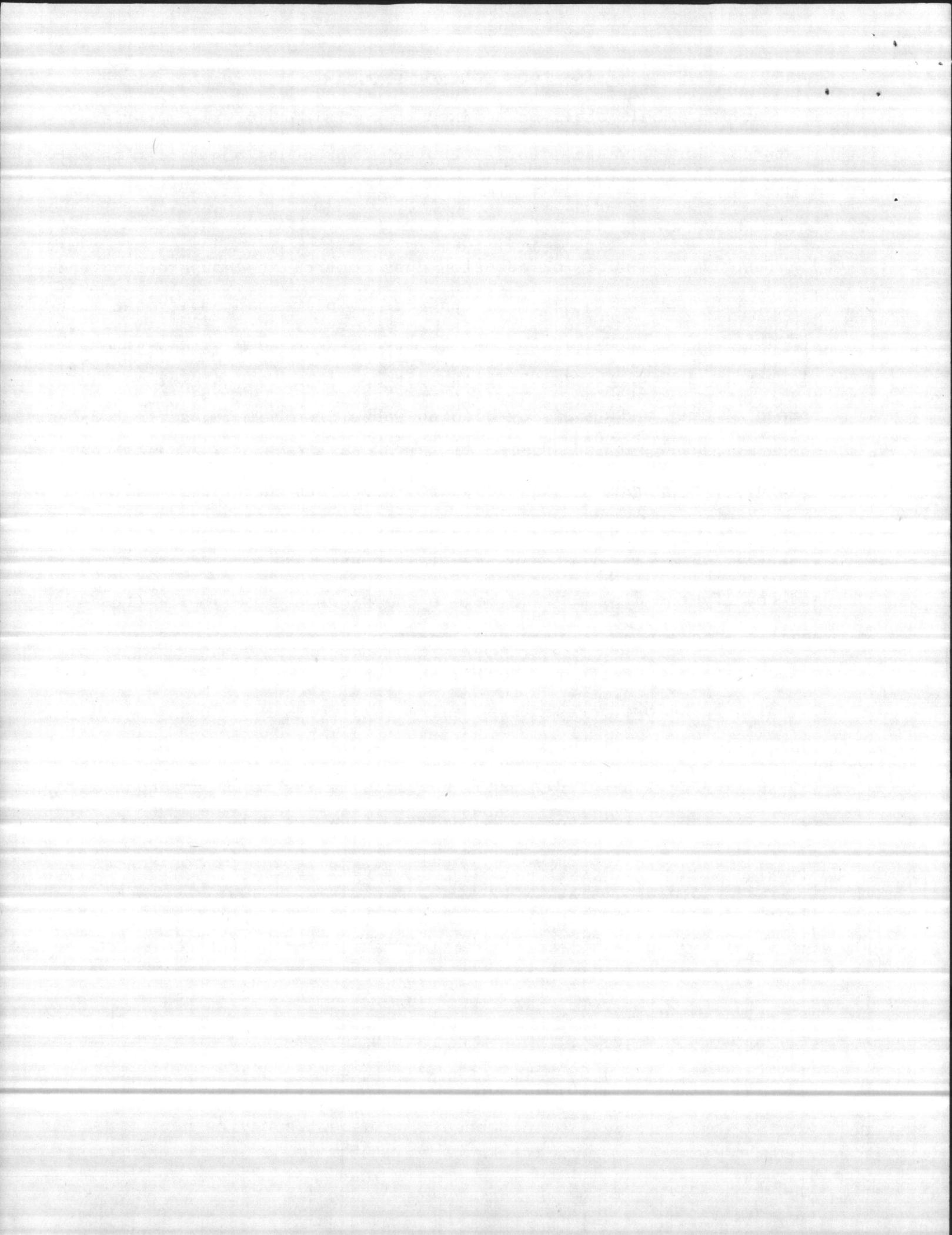
20"x14" MIN. BLACK LETTERS

1" GOTHIC OR BLOCK "ASBESTOS WASTES ONLY"

1" GOTHIC "CAUTION"

1/4" GOTHIC contains asbestos wastes

1/4" GOTHIC breathing asbestos may be hazardous to your health.



2. Asbestos waste, scrap, debris, bags, containers, equipment, or asbestos-contaminated clothing, consigned for disposal, which may produce in any reasonably foreseeable use, handling, storage, processing, disposal, or transportation of airborne concentrations of asbestos fibers in excess of the PELs shall be collected and disposed of in sealed impermeable bags, or other closed, impermeable containers and labeled in accordance with paragraph 2005.1.2. Transportation of asbestos waste including piping or other debris resulting from demolition shall be conducted in a manner that does not release airborne asbestos fibers.

3. Asbestos waste may be disposed of at the landfill in the following manner:

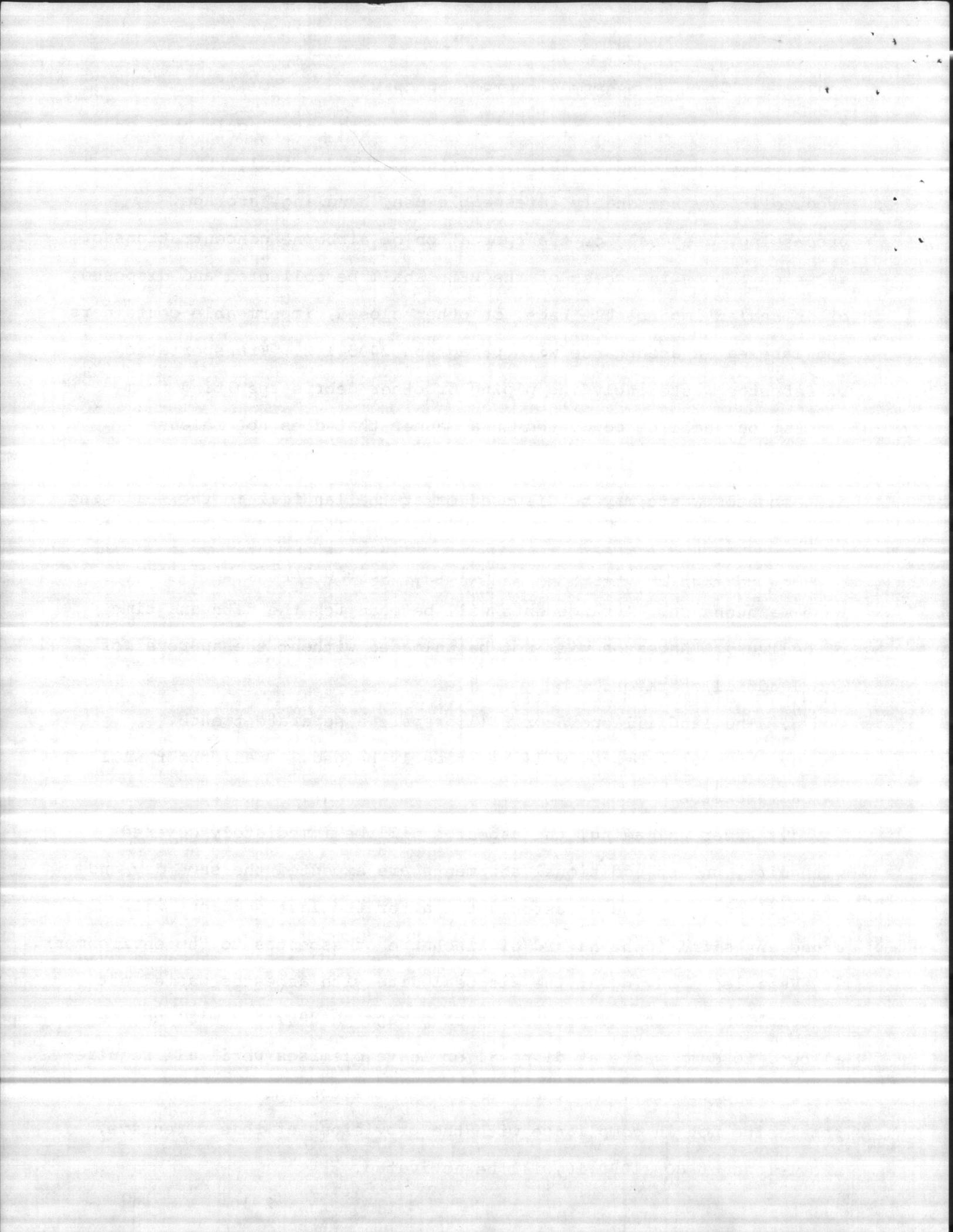
a. Contact the Director of Maintenance and Repair Division, Base Maintenance. Arrangements will be made for the date and time of delivery. Asbestos will not be unloaded without the approval of the landfill operator.

b. The landfill operator will prepare a separate trench.

c. Fibrous asbestos will be properly bagged. Transporter will unload asbestos.

d. After unloading, the asbestos will be immediately covered with dirt, unless additional shipments are expected the same day and delay of covering the asbestos until after the last shipment will not cause any significant hazard of discharge of asbestos to the environment.

4. Vehicles arriving at the disposal site with asbestos wastes not in compliance with the provisions of paragraph 2007.2.3 will not be allowed to dump waste at disposal or leave premises until all requirements are satisfied. In the event that asbestos wastes arrive at disposal site not in compliance with the provisions of this directive, provisions of BO 11090.16 will be activated.



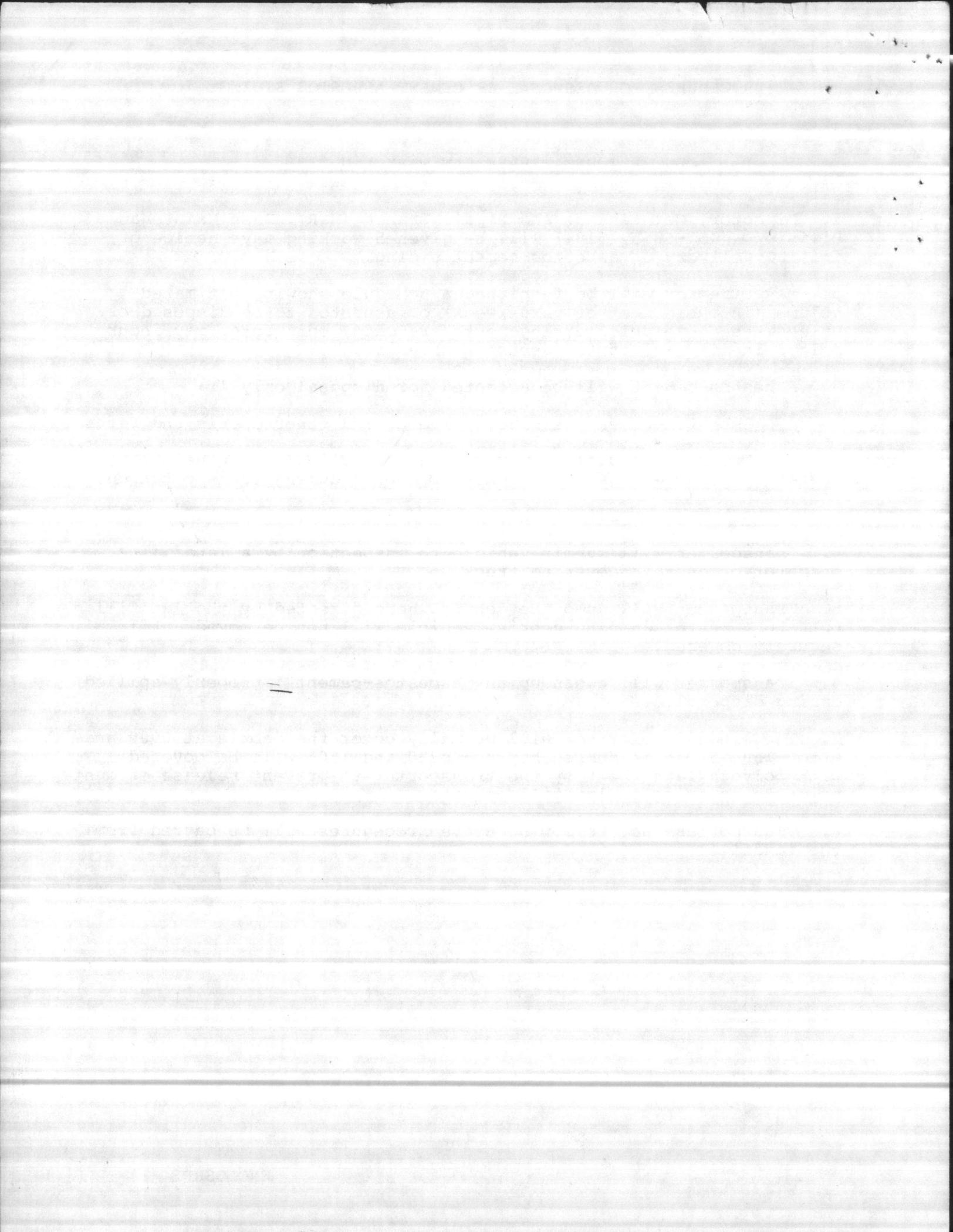
PROCEDURES FOR DISPOSAL OF CEMENT-ASBESTOS SIDING

BY

CONTRACTORS AT BASE SANITARY LANDFILL

1. Director, Maintenance and Repair Branch (M&R), Base Maintenance Division, (451-5855, 5184) will be given 5 working days notice of initial delivery of asbestos-cement siding.
2. M&R Director will be furnished a schedule showing estimated volume (in cubic feet or yards/week) of asbestos to be disposed of. Unless the above prior arrangements are made, contractor may incur delays in disposal of the asbestos material.
3. Asbestos-cement will be accepted for disposal only if:
  - a. Asbestos-cement is free of lumber and other debris and refuse.
  - b. Truck is securely covered with tarpaulin (or equivalent) to prevent discharge of asbestos dust or debris during transportation.
  - c. Asbestos-cement is thoroughly moist.
4. Transporter will submit vehicle to inspection by a landfill operator prior to uncovering truck.
5. Transporter will dump the debris where directed by the landfill operator. After dumping debris, vehicle will not be moved until securely covered.
6. Transporter will clean up any asbestos-cement improperly spilled during disposal.
7. The landfill operator will normally cover the debris at 0900 and after 1500. Debris dumped between 0900 and 1500 will be covered with polyethylene sheet by the transporter to prevent release of dust prior to covering by landfill operator.
8. Transporters not following above procedures will be barred from the landfill.

ENCLOSURE (2)



NATURAL RESOURCES AND ENVIRONMENTAL AFFAIRS DIVISION  
MARINE CORPS BASE  
CAMP LEJEUNE, NORTH CAROLINA 28542

11-8-83  
Date

From: Director

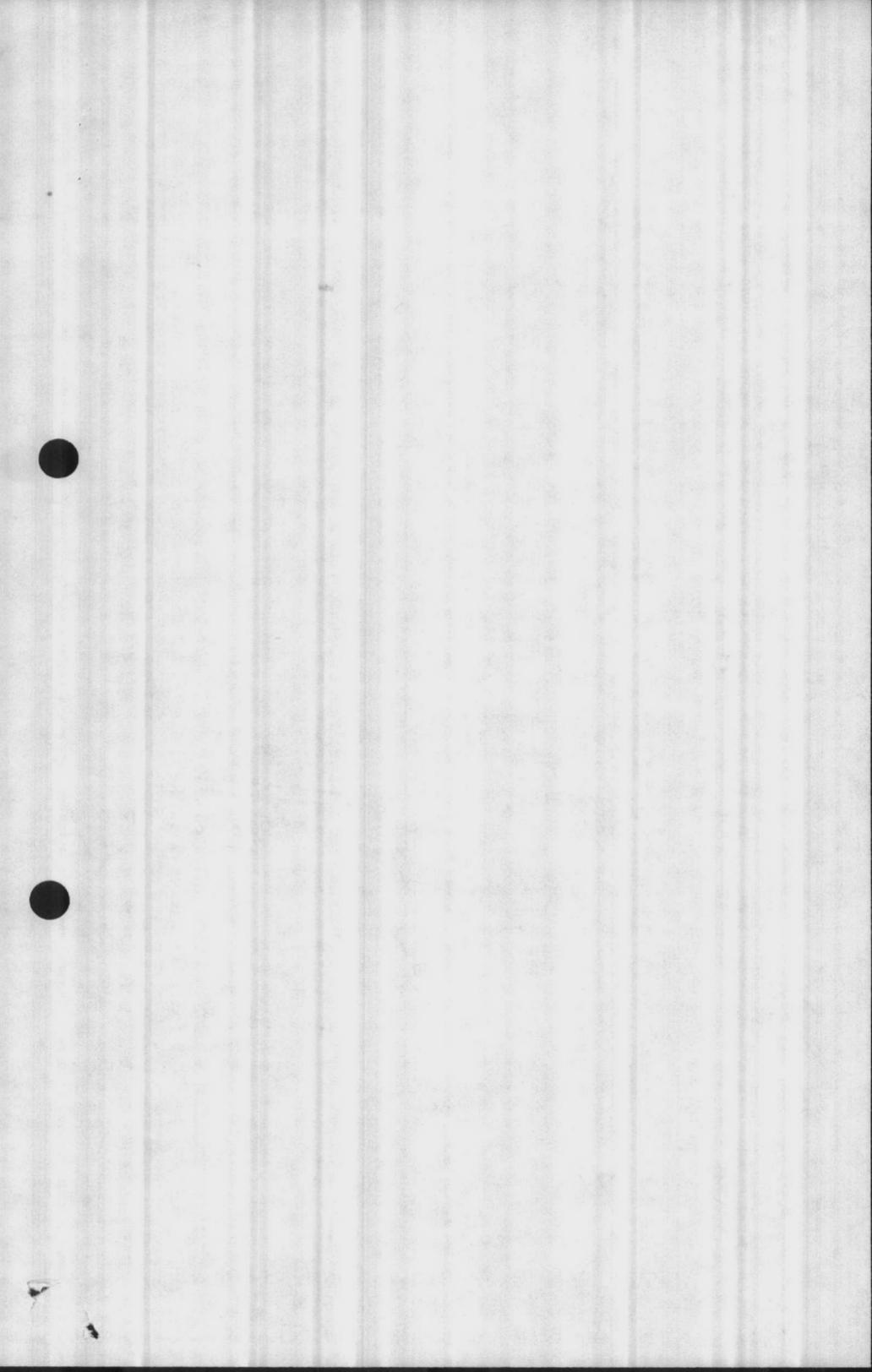
To: *Danny*

Subj:

1. *Notes & Return for File*

*Radioactive waste*

*PPD*  
*Jordan*



State of Washington Department of Social and Health Services

HEALTH SERVICES DIVISION  
RADIATION CONTROL PROGRAM



NREAD

PERMIT NO. 8-1443

EXPIRES: 10/31/84

ONE TIME ONLY  
**Site Use Permit**  
Low Level Radioactive Waste

REGISTRANT U.S. Marine Corps  
Marine Corps Base  
Attn: AC/S Facilities  
Camp Lejeune, NC 28542

The person or firm to whom this certificate is issued is subject to the provisions of Chapter 70.98 of the Revised Code of Washington.

DSHS 13-437 Rev. 6/80

PERMIT DOES NOT IMPLY APPROVAL

