



UNITED STATES MARINE CORPS
Marine Aircraft Group 29
2d Marine Aircraft Wing, FMF, Atlantic
Marine Corps Air Station
New River, Jacksonville, NC 28545-6080

IN REPLY REFER TO:
10 Jan 2986
6260.1

From: Commanding Officer, Marine Air Group 29
To: Distribution List

Subj: Respiratory Protection Program

Ref: (a) 29 CFR 1910
(b) DODINST 6055.2
(c) OPNAVINST 5100.23B
(d) BO 6260.5
(e) WgO 5100.1I

Encl: (1) SOP for Use, Care, Maintenance and Cleaning of
Non-Disposable Respirators

(2) SOP for Use, Care and Maintenance of Disposable Respirators

1. Purpose. To establish responsibilities and procedures for the establishment and implementation of a Respiratory Protection Program within MAG-29, in accordance with references (a) through (e).

2. Background. Federal law requires that personnel shall be protected from those occupational diseases caused by breathing air containing hazardous concentrations of harmful dusts, mists, fumes, gases or vapors. The primary control shall be engineering control measures. When effective engineering controls are not feasible, or while they are being installed, control of personnel exposure shall be accomplished by the use of respiratory protective equipment.

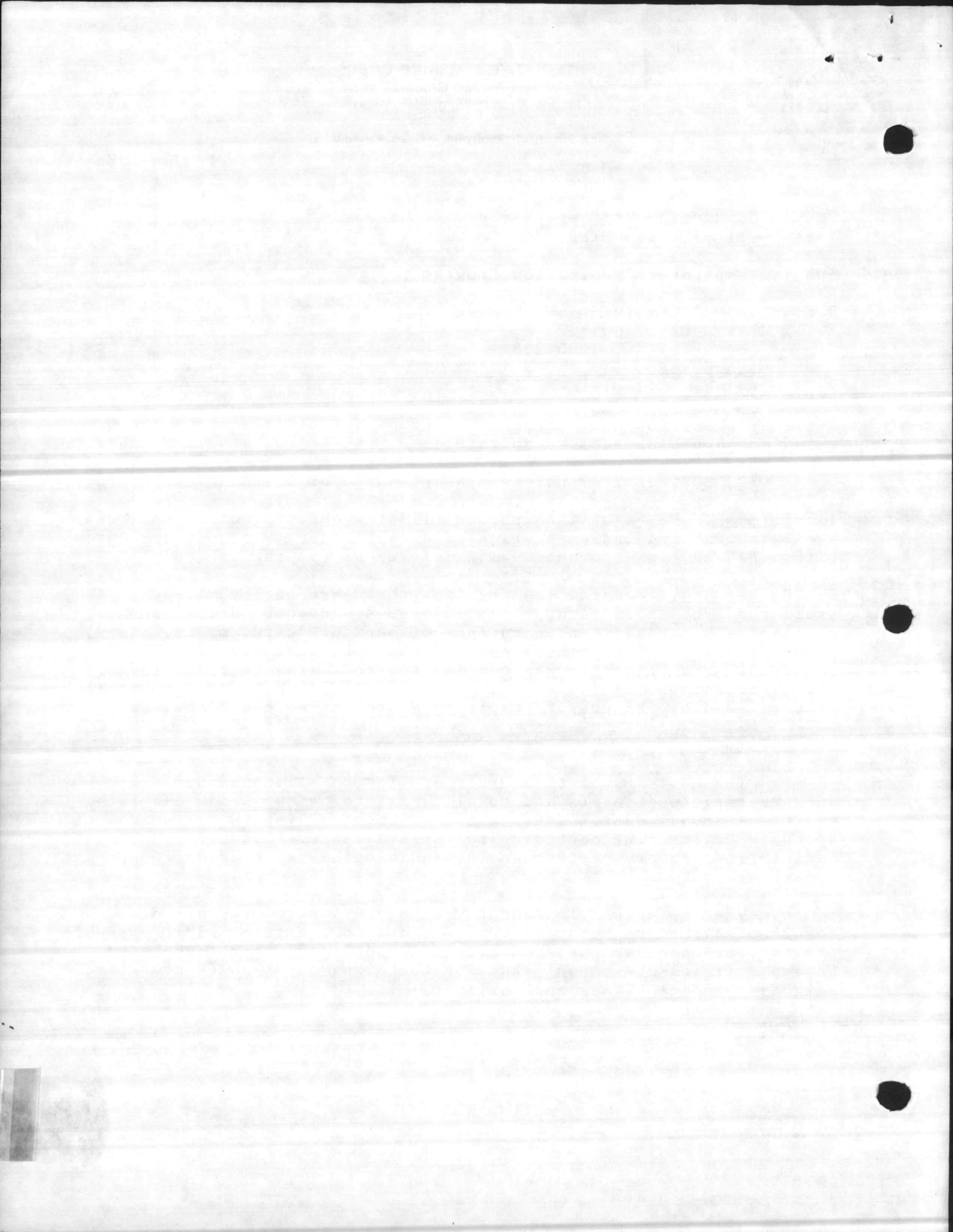
3. Information

a. The contents of this Order applies to all personnel when wearing respirators and to all work evolutions which generate health-hazardous dust, fumes, mists or chemical vapors for which adequate engineering controls are not available. This order does not include respiratory protection for radiological work or emergency air breathing systems.

b. When reference is made to "exposure limits" for airborne levels of hazardous substances, it refers to the permissible exposure limits (PEL) for hazardous chemicals as published in reference (a). Exposure limits are established for both long duration (8 hour time weighted average (TWA)) and ceiling limits.

4. Action

a. Group Ground Safety Officer



(1) Monitor and coordinate with squadrons to ensure all requirements of the Respiratory Protection Program are being complied with as outlined in this Order.

(2) Conduct periodic scheduled and unscheduled inspections of the squadrons to determine compliance with the Respiratory Protection Program and ensure that respiratory equipment continues to be effective.

(3) When required, request Occupational Safety and Health (OSH) deficiency abatement funds via the Station Ground Safety Officer.

(4) Coordinate with the Industrial Hygiene Department to review workplace deficiencies and proposed engineering controls for the reduction of airborne contaminants at the worksite.

b. Squadron Ground Safety Officer

(1) Establish and maintain a respiratory protection program. The written standard operation procedures (SOP), enclosures (1) and (2), will be located in each work center in which respirators are used.

(2) Ensure that all personnel who wear respiratory protection receive annual training.

(3) Budget for and provide approved respiratory protection for personnel working in an environment that requires respiratory protection

(4) Provide a listing of all respirator users to the Occupational Health Clinic, Bldg. 15, Camp Lejeune, NC to ensure that personnel receive periodic medical evaluations as required by reference (a) through (d).

c. Work Center OIC/NCOIC

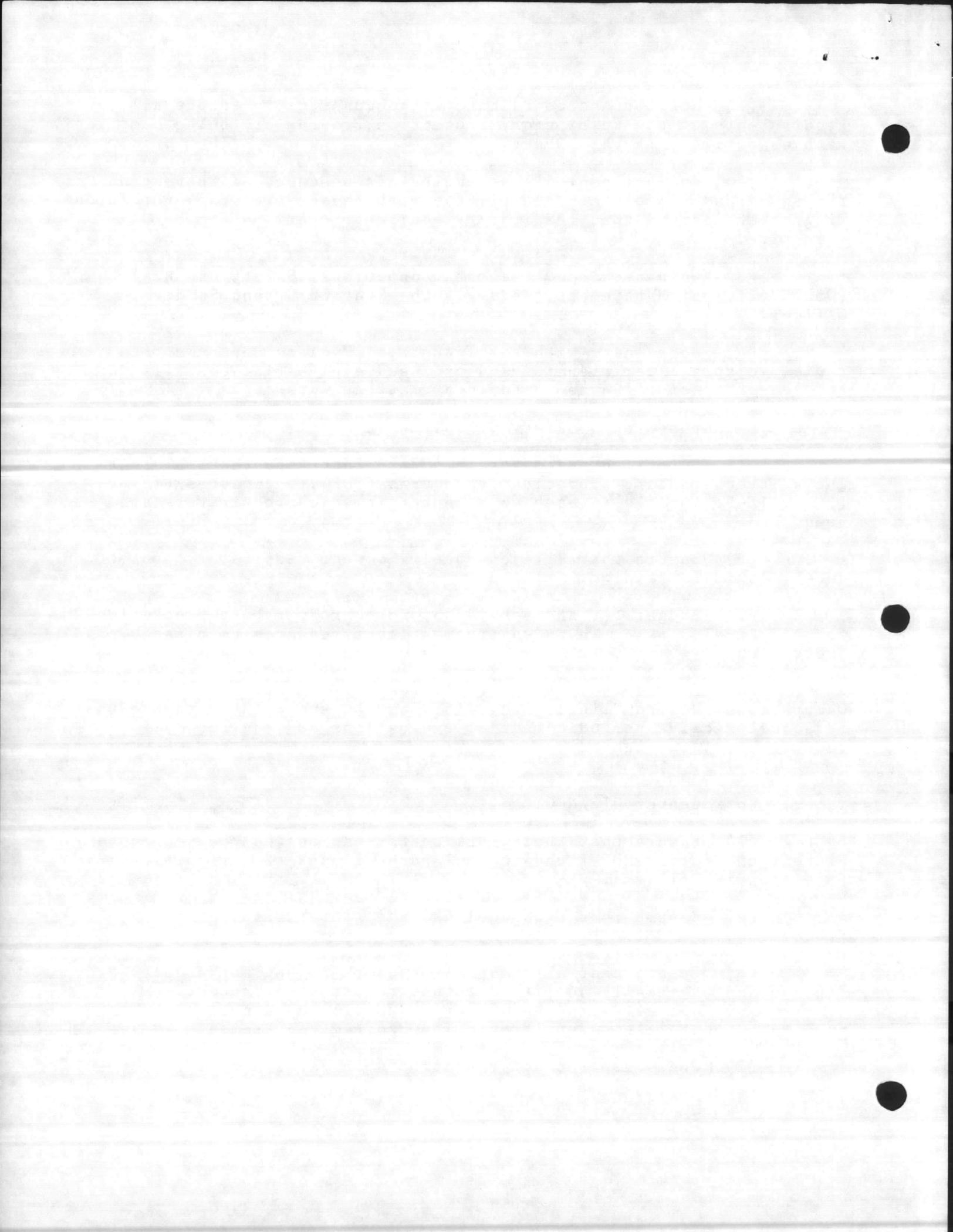
(1) Ensure that their work center has posted the Respiratory Protection Program SOP found in enclosure (1) and (2) if respiratory protection is utilized.

(2) Ensure that personnel use the proper respiratory protection.

(3) Ensure that all respirator users in the work center are trained and physically qualified to use respiratory protection.

(4) Consult with the GSO or Industrial Hygienist when uncertain about Respiratory Protection Program requirements.

(5) Wear respiratory protection when necessary to protect their health.



d. Respiratory Users

(1) Wear respiratory protection when such equipment is necessary to protect the health of the Marine.

(2) Use the provided respiratory protection in accordance with instructions and training received.

(3) Report unusual conditions, conflicts at the worksite, or observed violations of requirements to their OIC/NCOIC for resolution.

(4) Bring to the attention of their supervisor any medical or physical condition which impairs or prohibits proper wearing of the required respiratory protection.

(5) Clean and disinfect used respirators.

e. Respirator Selection and Use: Respirator users shall adhere to the following requirements prior to using respirators.

(1) Respirators shall be selected on the basis of the nature of the hazard, the extent of the hazard, respirator characteristics, limitations and respirator protection factors.

(2) Users will be trained in the proper use, limitations, and care of the respirators by the Industrial Hygienist Officer (IHO). Fit-testing will be conducted during the initial training of respirator users. The Respiratory Protection SOP (enclosures (1) and (2)) will be posted in close proximity to where the respirators are stored, used and maintained.

(3) Personnel will only wear respirators which have been determined to fit properly by fit-testing procedures.

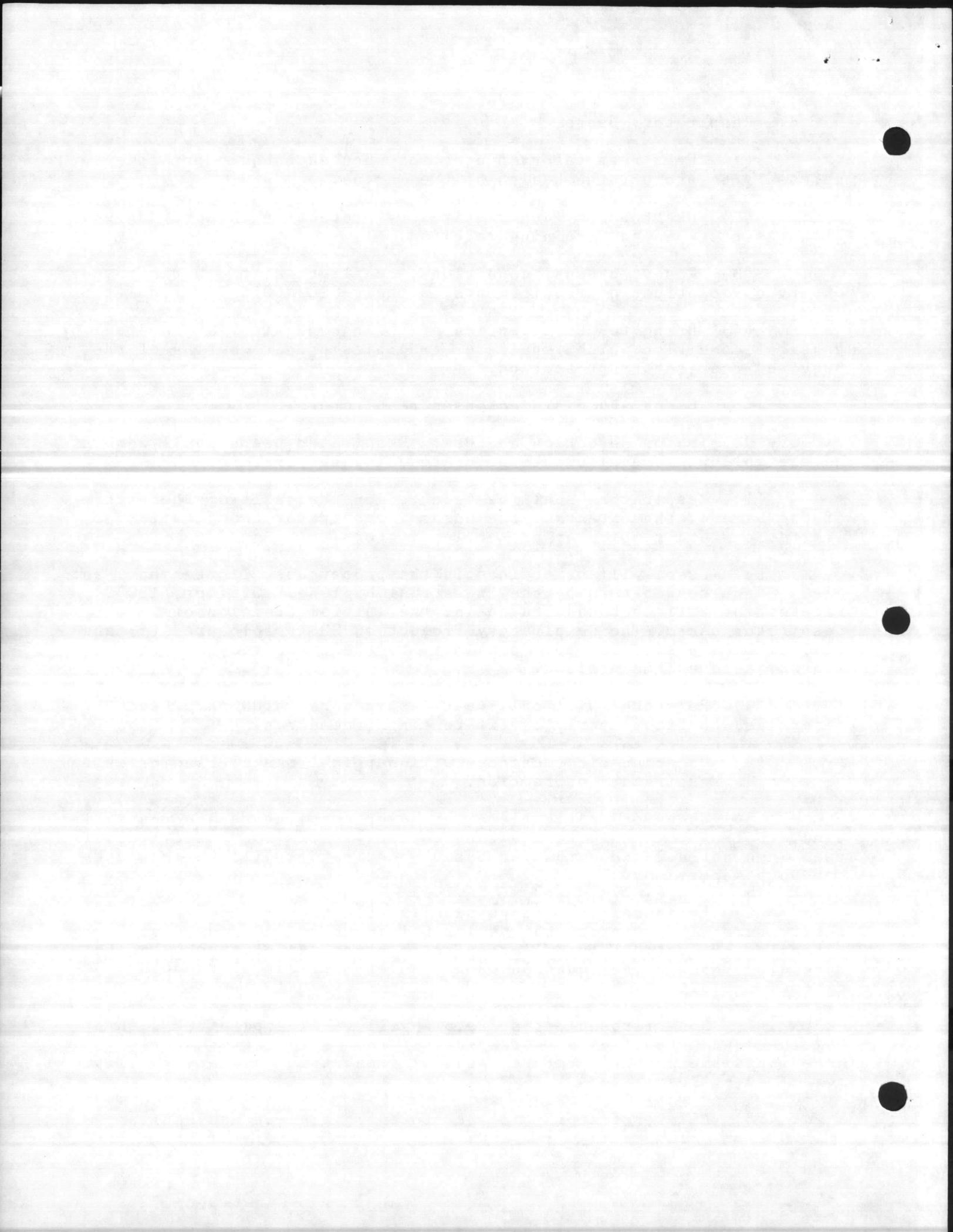
(4) Under no circumstances will surgical masks (blue or white) be worn as respiratory protection.

(5) Whenever practicable or whenever respirators are routinely used, respirators should be assigned to individuals for their exclusive use. When not used on a routine basis, respirators will be issued by the shop supervisor.

(6) Personnel must be physically able to work and wear respirators. The Occupational Health Clinic, Bldg. 15 provides screening evaluations for all respirator users. Appointments can be scheduled through the Squadron Ground Safety Officer or through extension 2181.

(7) Non-disposable respirators will be cleaned after each days use and more often as work requires. Each work center where non-disposable respirators are used, will maintain adequate facilities for cleaning respirators.

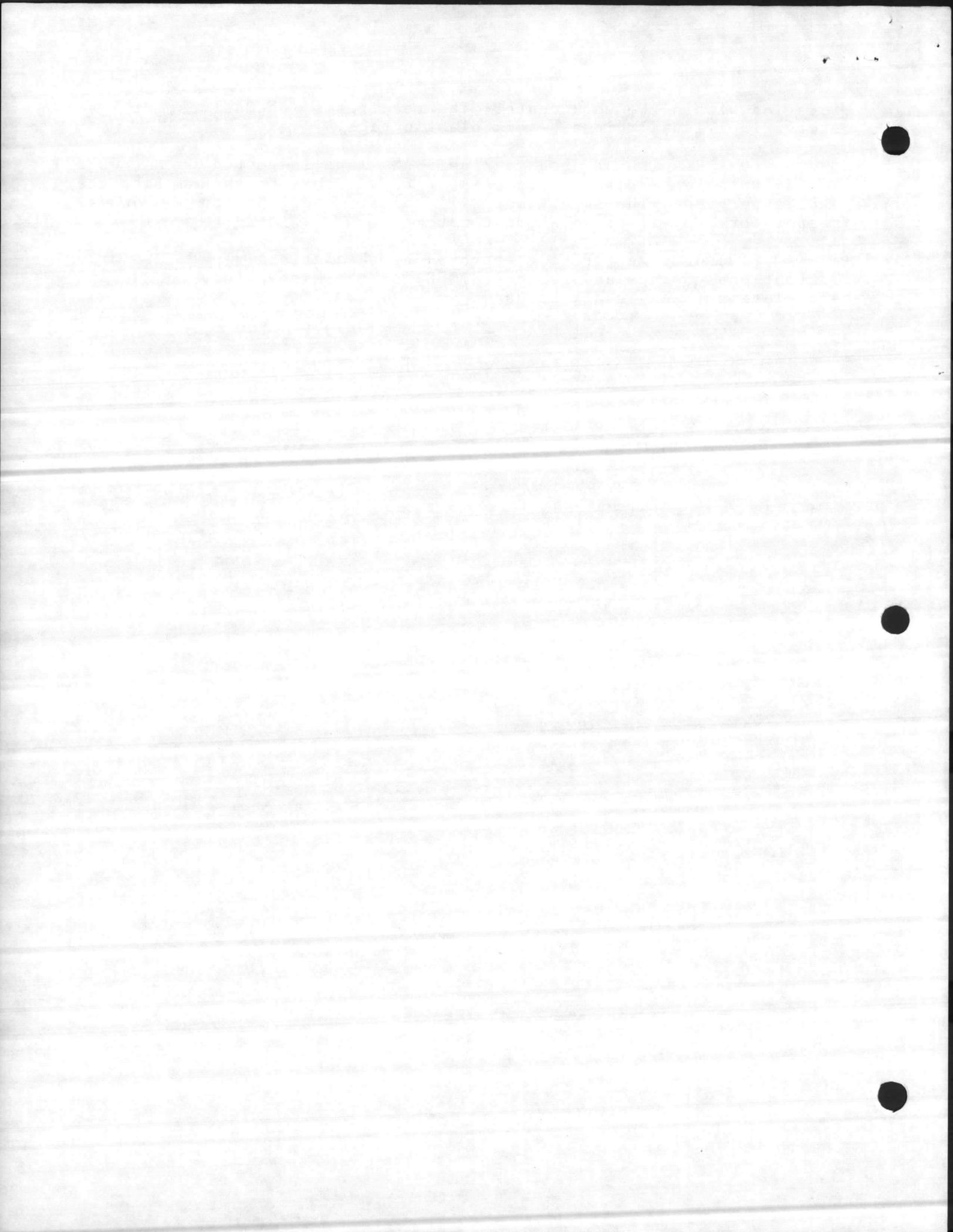
(8) All respirators will be stored in a clean and sanitary



location within the work center. The respirators themselves, will be stored individually in zip-lock plastic bags.

(9) Respirator used routinely shall be inspected by the user. Non-disposable respirators in need of repair must be turned into the shop supervisor. The supervisor will contact the Squadron GSO on all respiratory repair or replacement matters.

(10) Only respirators approved by the National Institute of Occupational Safety and Health (NIOSH) or the Mine Safety and Health Association (MSHA) shall be used.



SOP for Use, Care, Maintenance and
Cleaning of Non-Disposable Respirator

1. Remove respirator, cartridges and filters from the plastic bag. Check to see that the gasket is in the cartridge holder before screwing in the cartridges. Insert the filter into the retainer caps and snap them onto the cartridge holder cartridges.

2. Place respirator onto face with the narrow end over the nose and the bottom of the chin. First attach the top headband around the crown of the head and then the bottom one around the neck. Adjust the headbands until a tight but comfortable fit is obtained.

3. Test for Tightness

a. Positive Pressure Test: Place the palm of the hand or the thumb over the valved guard and press lightly. Exhale to cause a slight pressure build-up inside the facepiece. If no air escapes, the respirator is properly fitted. If air escapes, then readjust the respirator and test again.

b. Negative Pressure Test: Close off the inlet opening of the canister or cartridge(s) by covering it with the palm of the hand(s), inhale gently so that the facepiece collapses slightly and hold breath for 10 seconds. If the facepiece remains in its slightly collapsed condition and no inward leakage of air is detected, then the tightness of the respirator is satisfactory.

4. Filters

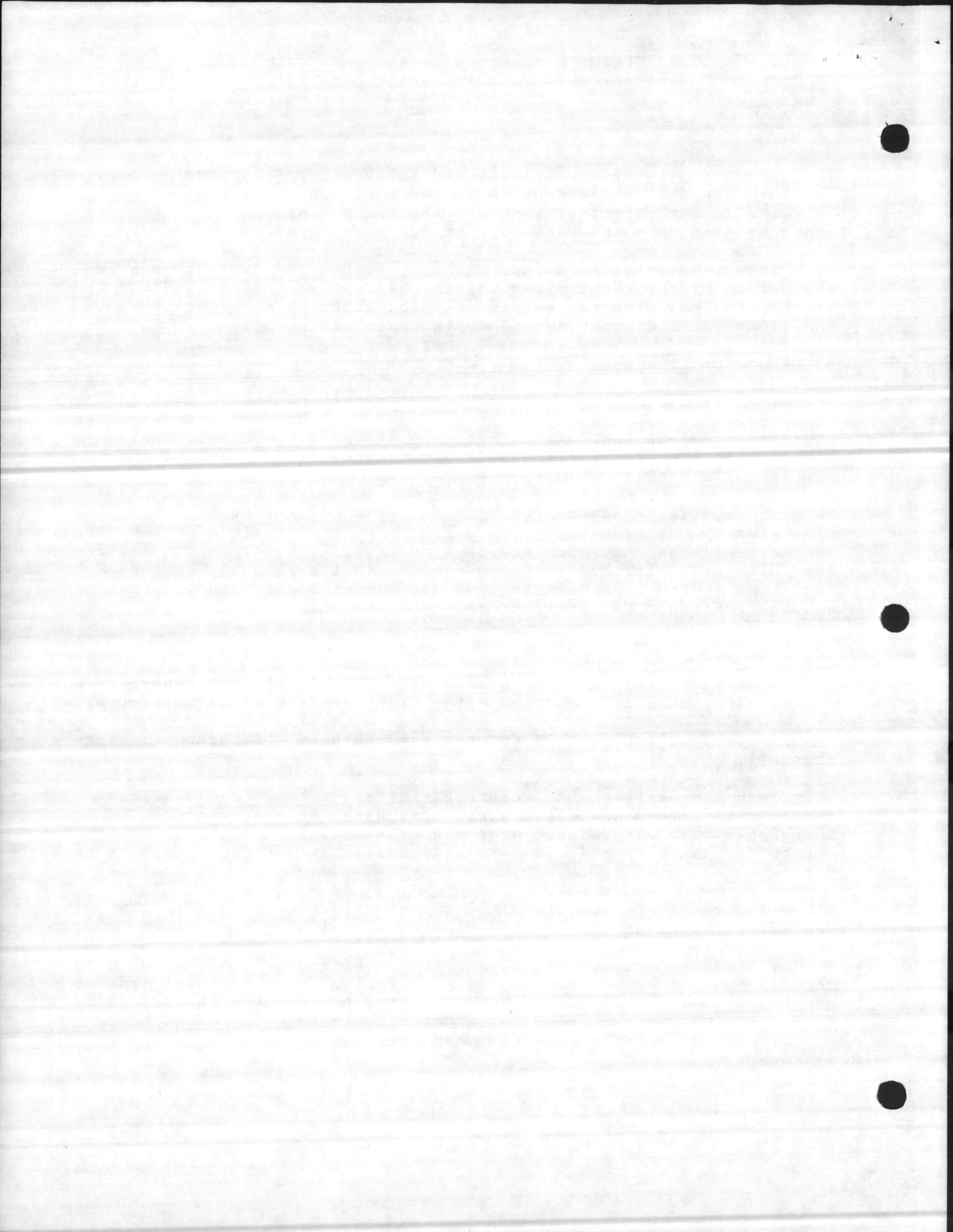
a. Replace filters when breathing becomes difficult. Generally the filter discs should be changed after eight hours of dusty exposure.

b. Replace the cartridges when any leakage is detected by taste or smell.

5. Clean and sanitize the respirator after each day's use. First remove the filters and cartridges, then wash the other parts thoroughly with warm soapy water and/or sanitizing solutions which may be purchased or made from readily available materials such as the following:

a. Hypochlorite solution (50 ppm of chloride). Add approximately two (2) tablespoons of chlorine bleach per gallon of water.

b. Aqueous solution of iodine (50 ppm of iodine). Add approximately one (1) teaspoon tincture of iodine per gallon of water. Respirators should be immersed in the solution for two (2) minutes then rinsed off thoroughly with clean water to remove all traces of detergent or sanitizer. The respirator shall then be allowed to dry prior to its storage.



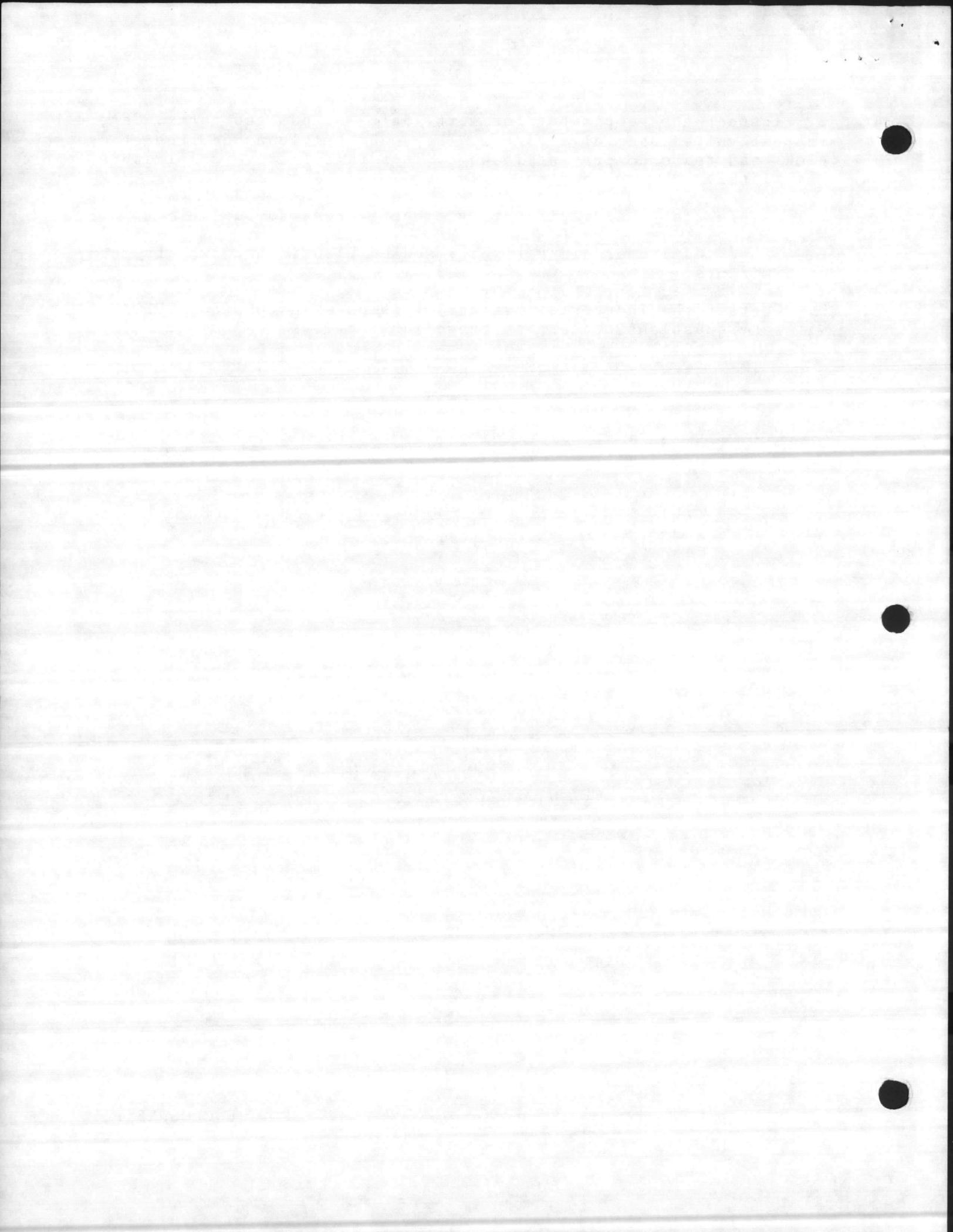
6. Inspect the respirator for worn, aging or damaged parts. Carefully inspect valves and valve covers. They must be clean and free of cracks, nicks and tears to prevent leakage. Turn in defective respirators immediately to your shop supervisor.

7. Assure that the respirator is properly re-assembled.

8. Store respirators in a tightly sealed plastic bag away from any contaminants.

9. Contact the Industrial Hygiene Division at extensions 1930/2767 with any questions concerning these instructions.

ENCLOSURE (1)



SOP for Use, Care, and Maintenance of Disposable Respirators

1. Remove the respirator from the plastic bag. Check to see that the straps and the metal nose piece are in good condition.
2. Prestretch the straps.
3. Place the respirator on the face. Pull the straps over the head. Adjust the straps so that the top strap is around the crown of the head and the bottom strap is around the neck.
4. Bend the metal nose piece gently over the bridge of the nose to ensure a good fit.
5. Use the following rules to replace disposable respirators:
 - a. When breathing resistance is noted; or
 - b. When (in the case of organic vapor respirators) the contaminant smell is detected; or
 - c. When the respirator looks noticeably dirty; or
 - d. After each day's use.
6. Contact the Industrial Hygiene Division at extensions 1930/2726 with any questions concerning these instructions.

ENCLOSURE (2)

