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Memorandum

Tuyloh PCB's

DATE: 11 July 1978

FROM: Ens. J.C. McDonough, Industrial Hygienist, Naval Regional Medical Center, Camp Lejeune, N.C., 28542

To: Wendell A. Neal, Director, Natural Resources and Environmental Affairs Division, Base Maintenance, Camp Lejeune, N.C., 28542

SUBJ: CMC Report of Polychlorinated Biphenyls (PCBs); submission of

1. Your list of transformers and capacitors forwarded to this command for information appears to be complete in itself and no other polychlorinated biphenyl containing electrical equipment is known to be within this region.

J.C. McDONOUGH

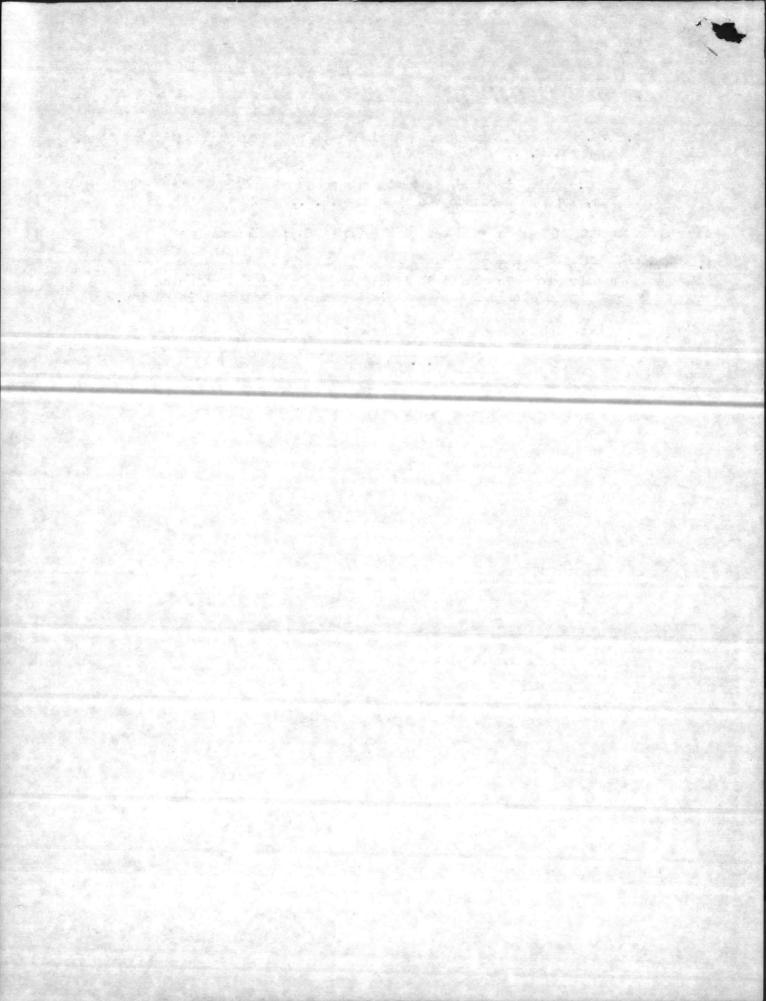
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IB-037

NAVY ENVIRONMENTAL SUPPORT OFFICE

16 Mar 1978

DISPOSAL, STORAGE, AND MARKING REQUIREMENTS FOR POLYCHLORINATED BIPHENYLS (PCBs)

INTRODUCTION

EPA has published final regulations concerning polychlorinated biphenyls (PCBs) in the 17 February 1978 Federal Register (43 FR 7150). The regulations, which are effective on 18 April 1978, affect any Navy activity that uses or disposes of PCB transformers, capacitors, fluorescent light ballasts, chemicals, mixtures, and other articles containing PCBs. The regulation also affects Navy activities that manufacture, process, or distribute PCBs.

The following items are addressed in detail in the regulations:

• Disposal requirements

Decontamination procedures

· Recordkeeping

· Monitoring

· Storage

Marking requirements

EPA has provided a certain degree of flexibility by allowing for phased implementation of some requirements and by authorizing regional administrators to grant special exemptions as necessary on a case-by-case basis. These regulations are promulgated pursuant to the Toxic Substances Control Act (TSCA), but do not preempt more stringent requirements that may be implemented under local and Federal permitting programs and other statutory authorities under the Clean Water Act (CMA) and the Resource Conservation and Recovery Act (RCRA).

CURRENT AND FUTURE IMPACTS

The final regulations are less stringent than those initially proposed in 42 FR 26564 of 24 May 1977, as they do not require removal and disposal of PCBs currently in service, and they allow continued use of existing stocks. In addition, the final regulations provide for:

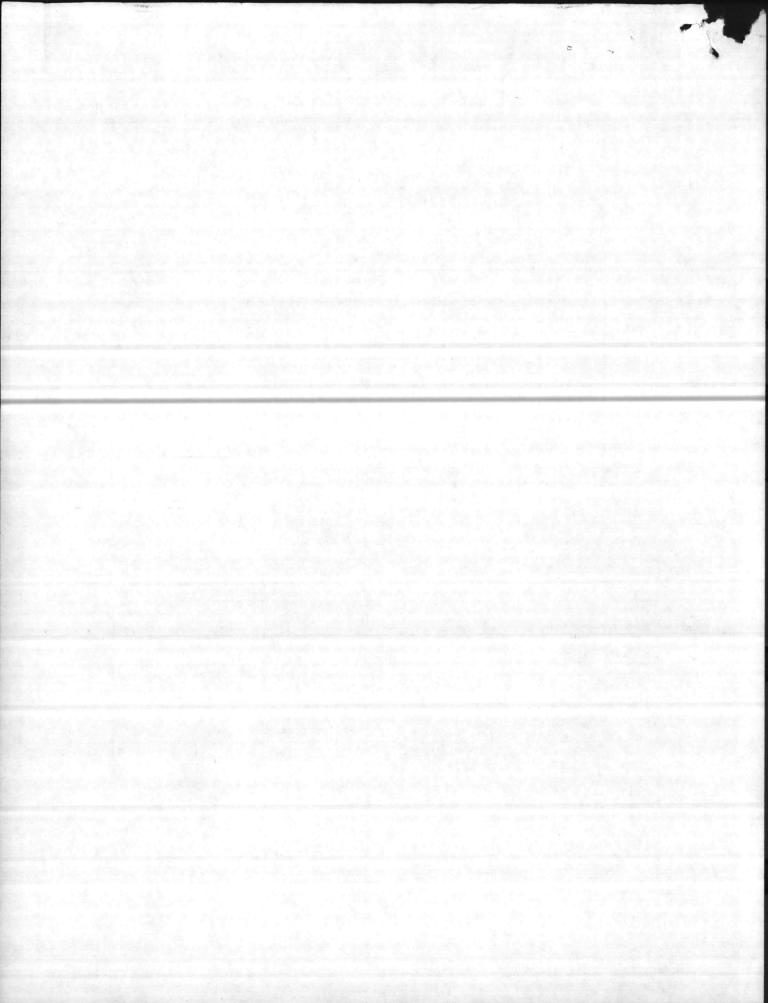
- Landfilling as an interim alternate disposal method for certain wastes.
- Disposal of small capacitors (in home appliances) and fluorescent light ballasts in the same manner as normal municipal solid waste.
- Temporary storage of PCBs awaiting disposal in facilities that provide an adequate margin of safety against release of PCBs to the environment.
- The use of chemical waste landfills for contaminated soil and debris from PCB spills.
- Disposal of properly drained and flushed transformers and containers in chemical waste landfills.



Naval Environmental Protection Support

Naval Construction Battalion Center. Port Hueneme, California 93043 Service

2512:WJP:mgj



 Approval of disposal methods other than incineration and chemical waste landfilling for dredge spoils and sewage treatment sludges containing PCBs.

However, more stringent regulations regarding PCB mixtures, dredge spoils, and sewage treatment sludges are being formulated by EPA for release in the near future. When issued, these regulations can be expected to redefine PCB mixtures at a lower level than already defined in the current regulation. This new definition, when implemented, will have an affect on Navy activities that generate dredge spoils, sludges, and other low-level PCB wastes containing less than 500 ppm PCB concentration.

ESTABLISHED COMPLIANCE DATES

The final regulations, effective on 18 April 1978, establish specific compliance dates for various PCB disposal, storage, and marking requirements. The actions believed to be of major importance to Navy activities are summarized below. For additional compliance dates and required actions, refer to 43 FR 7150.

- 1 July 1978. By this date all containers of PCB liquids, not-in-service PCB transformers, and not-in-service large, high-voltage capacitors must be properly marked.
- 1 October 1978. After this date, all transport vehicles carrying PCBs are to be properly labeled.
- 1 January 1979. By this date all in-service transformers, in-service large, high-voltage capacitors, and new equipment with small PCB capacitors are required to be properly labeled.
- 1 January 1980. On this date, large, high- and low-voltage capacitors can no longer be disposed of in chemical waste landfills. The only acceptable disposal option for these items is incineration in an EPA-approved incinerator.
- 1 January 1983. After this date, capacitors must be stored in specially designed storage facilities.

RECOMMENDATIONS

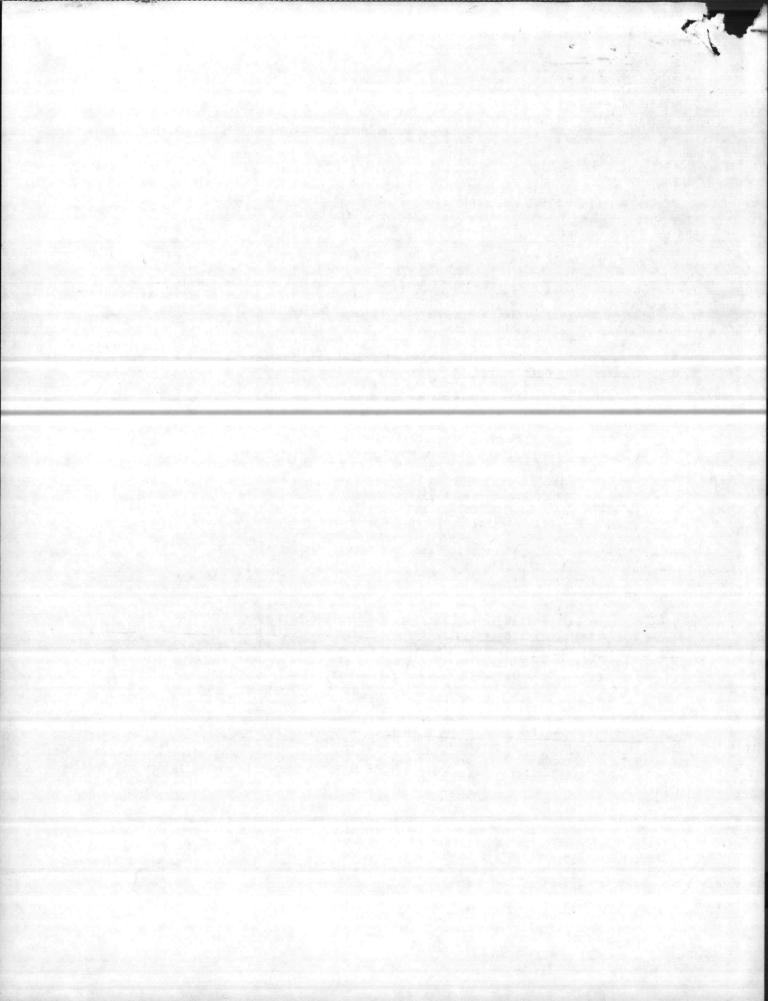
Due to the complexity of these regulations, responsible persons at Navy facilities (especially persons operating power transfer stations, transformer repair shops, radio communications equipment, radar facilities, and other facilities where PCBs might be prevalent or who are required to maintain power transmission systems) are urged to read the regulations in their entirety and become familiar with those requirements affecting their operations.

ADDITIONAL INFORMATION

More specific information concerning disposal, storage, marking, and handling requirements for PCBs will be provided in a forthcoming revision to the NEPSS Pollution Solution (PS-011) of 2 Aug 1977. Additional information and guidance on this subject will also be provided in updates to the NEPSS Hazardous Waste Disposal Guide (NESO 20.2-011) and in future information bulletins.

CONTACTS

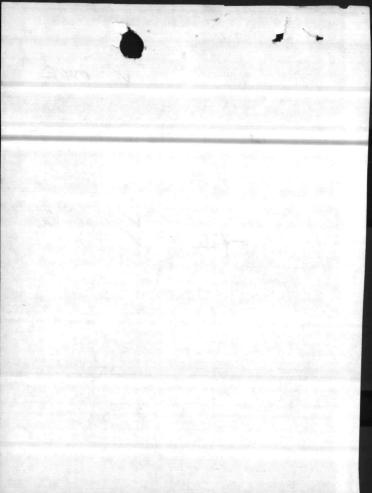
Additional information and assistance can be obtained by contacting the appropriate cognizant NAVFAC Engineering Field Division (EFD) representatives or the Environmental Information Coordinator of the Navy Environmental Support Office (NESO), Code 251A, AUTOVON 360-4182 or Commercial 805-982-4182.



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ACTION INFO INITIAL

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DATE: 8 Sept 1978

FROM: Industrial Hygienist, NRMC, Occupational & Preventive Medicine Service

TO: Director, Natural Resources & Environmental Affairs Div, CINC.

SUBJ: PCB leak at Bldg 1700

1. Inspection of the leaking transformer in Bldg 1700 on 7 Sept 1978 revealed that the volume of liquid PCB which is leaking is very minimal. The area where the transformer is located is very well ventilated and isolated from the power plant personnel. At the present time there is no immediate danger of further contamination, however the transformer should be repaired as soon as possible.

J.C. McDONOUGH ENS MSC USNR Industrial Hygienist, NRMC, Occupational & Preventive Medicine Service

Director, Natural Resources & Environmental Affairs Div, CINC.

PCB leak at Bldg 1700

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J.C. McDONOUGH ENS MSC USNR

MAIN/JIW/th 6240/25 24 Feb 1978

From: Commanding General

To: Commanding General, 2d Marine Division (Rein), FMF Atlantic, Camp Lejeune, North Carolina 28542 (Attn: Sassy Management

Unit)

Subj: Disposal of Building TP-452 with Contents

Ref: (a) OIC, Sassy Mgt Unit, Itr GA/OSA/gl 5830 of 13 Jan 78 w/ends

1. The subject building discussed in reference (a) has been inspected by the industrial Hygienist, Base Fire Department and Base Environmental personnel and it was concluded that most if not all of the material in the building was incinerated and poses no environmental problem. All empty containers can be disposed of at the sanitary landfill. If full containers are located during demolition, it is requested that the Natural Resources and Environmental Affairs Division, Base Maintenance Department, phone 5003, be notified.

2. The Defense Property Disposal Office, Building 906, should be contacted for guidance on the disposition of the scrap metal generated during the operation.

C. D. WOOD By direction WAN

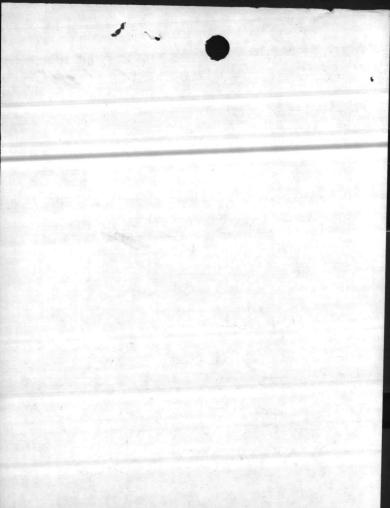
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ASSISTANT CHIEF OF STAFF, FACILITIES HEADQUARTERS, MARINE CORPS BASE

DATE 8 Feb 78

TO:

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COMM-ELECT O

BASE FIRE CHIEF

MOTOR TRANSPORT O

ATTN:__

(1.) Attached is forwarded for info/action.

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3. Your file copy

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UNITED STATES MARINE CORPS FORCE TROOPS/2dFORCE SERVICE SUPPORT GROUP FLEET MARINE FORCE, ATLANTIC CAMP LEJEUNE, NORTH CAROLINA 28542

CSS 4/RDB/jlb 4700 26 Jan 1978

SECOND ENDORSEMENT on OIC, SMU, Sup Bn ltr O1/PFO/jlm, 5830 of 19 Jan 1978

From: Commanding General

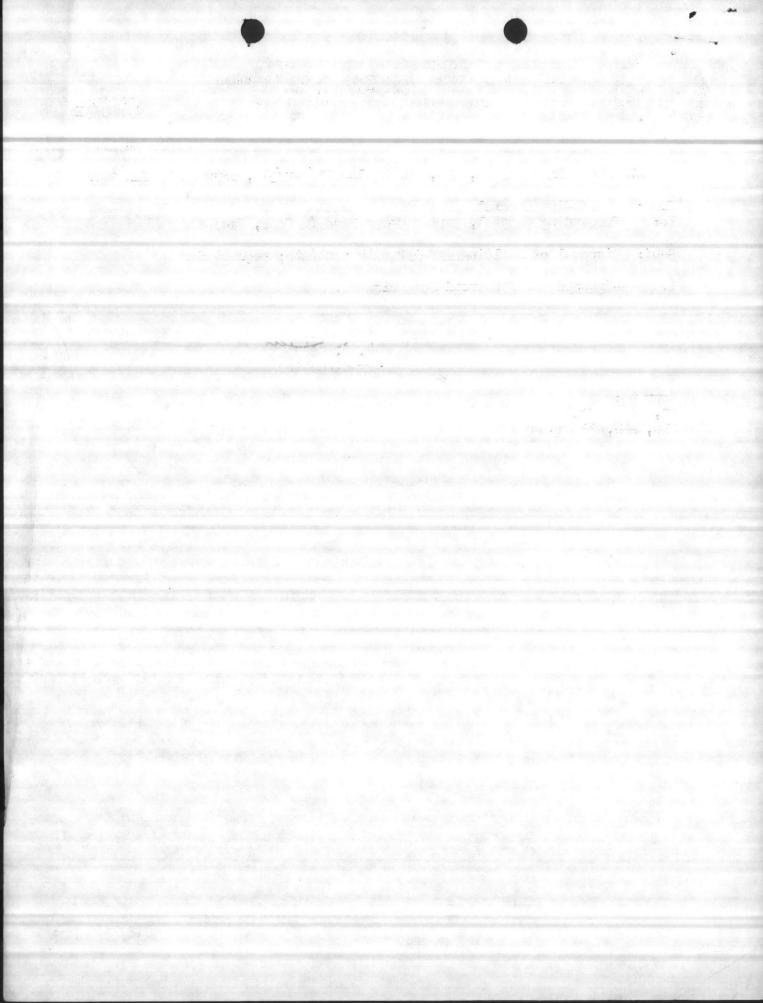
To: Commanding General, Marine Corps Base (A CofS, Fac)

Subj: Disposal of Building #TP-452 with contents; request for

1. Readdressed and forwarded for guidance.

R. D. BOURQUE By direction

Copy to: CO, 2d Sup Bn OIC, SMU, 2d Sup Bn



UNITED STATES MARINE CORPS
2d Supply Battalion
2d Force Service Support Group
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542

01/PFO/jlm 5830 19 Jan 1978

FIRST ENDORSEMENT on OIC ForTrps/2dFSSG ltr GA/DSA/gl 5830 dtd 13 January 1978

From: Commanding Officer

To: Commanding General, ForTrps/2dFSSG (attn: Facilities Officer)

Subj: Disposal of Building TP-452 with contents; request for

1. Readdressed and forwarded.

2. It is requested that liaison be established with the Commanding General, Marine Corps Base concerning the request contained in the basic correspondence. The Staff Judge Advocate has reviewed and approved the investigation of the incident.

P. F. O'KEEFE By direction

Copy to: OIC SMU

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2d Supply Battalion

2d Force Service Support Group
Fleet Marine Force, Atlantic

Camp Lejeune, North Carolina 28542

GA/DSA/gl 5830 13 January 1978

From: Officer in Charge

To: Commanding Officer, 2d Supply Battalion, Force Troops/2d Force Service Support Group, Fleet Marine Force, Atlantic, Camp Lejeune,

North Carolina 28542

Subj: Disposal of Building TP-452 with contents; request for

Ref: (a) Fire Investigation Report 17/JKN/dd over 5800 dtd 2 Nov 77

- 1. The fire investigation of building TP-452 has been concluded and forwarded on 22 December 1977 to JAG for review as outlined in reference (a).
- 2. Therefore, it is requested, upon conclusion of the JAG review of the investigation, that the damaged contents of building TP-452 be cleared and disposed of as directed by the Commanding General, Marine Corps Base, or other competent authority.

R. C. SCHAMAY

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OIC GenAcct

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GENERAL ACCOUNT

SASSY Management Unit
2d Supply Battalion
2d Force Service Support Group
Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542

"Hard Charging"

GA/DSA/vmg 5830 10 February 1978

From: Officer in Charge

To: Director, Natural Resources & Environmental Affairs Division

(Attn: Mr. WOOTEN)

Subj: Materiel Contents Bldg TP452; Report of

Ref: (a) Phoncon Captain ALDRICH, SMU and Mr. WOOTEN, NR & A Div, MCB, CLNC on 10 February 1978

Encl: (1) Listing of Contents in Bldg TP452

1. Contents of building TP452 as requested reference (a) is hereby furnish as enclosure (1).

2. Any further assistance required, please contact Captain ALDRICH, SASSY Management Unit, extension 2121/3402, or Second Lieutenant JOHNSON, SASSY Management Unit, extension 3636.

D. S. ALDRICH

Copy to:

OIC, SMU

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GENERAL ACCOUNT
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2d Supply Battalion
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Fleet Marine Force, Atlantic
Camp Lejeune, North Carolina 28542

GA/DSA/vmg 5830 10 February 1978

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To: Director, Natural Resources & Environmental Affairs Division
(Attn: Mr. WOOTEN)

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D. S. ALDRICH

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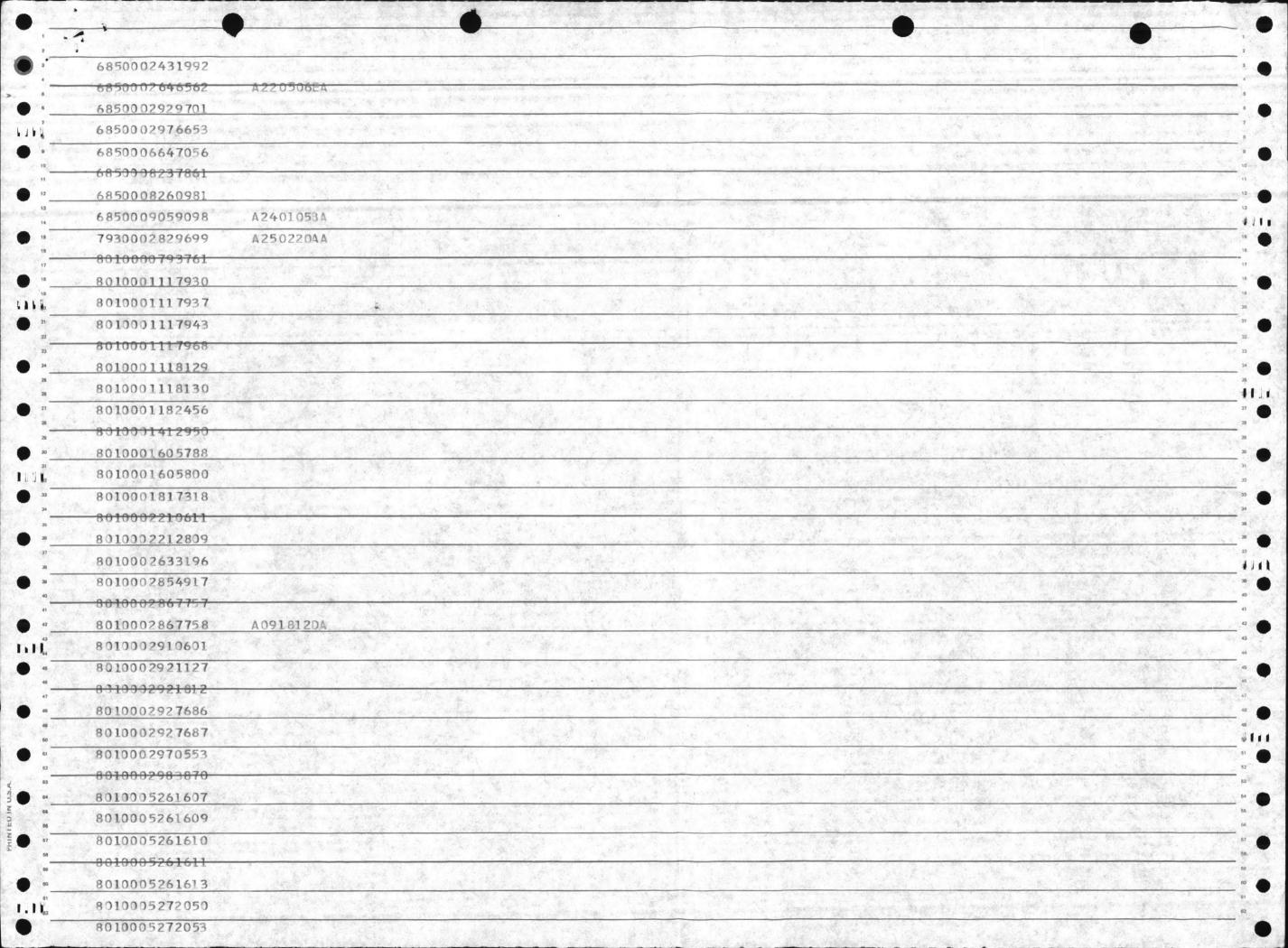
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| 8 | 8010005979770 | 8010005979770 | COATING COMPOUND PH | CN | 00000 | 00000 | 00005 | 00005 | 8.96 | 44.80 |
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| 8 | 8030000878630 | 8030000878630 | ANTI SEIZE COMPOUND | CN | 00007 | 00000 | 00007 | 00007 | • 49 | 3.43 |
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| - 8 | 3030002738719 | 8030002738719 | LEATHER DRESSING, VE | CN | 01584 | 00000 | 00000 | 00000 | • 42 | •00 |
| | 8030002758111 | 8030002758111 | SEALING COMPOUND | CN | 000 10 | 00000 | 00026 | 00026 | 3.04 | 79. 04 |
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| 8 | 8030006169167 | 8030006169167 | SEALING COMPOUND | KT | 00000 | 00000 | 09002 | 00000 | 2,65 | 7.95 4 1 |
| . 58 | 3030006561030 | 8030006561030 | PRESERVATIVE COATIN | CN | 00000 | 00000 | 00007 | 00007 | 26.00 | 182.00 |
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| | 9150001866668 | 9150001866668 | LUBRICATING DIL, ENG | CN | 00000 | 00000 | 00009 | 00009 | 10.02 | 90.18 |
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| | 2150002312356 | 9150002312356 | LUBRICATING DILAGEN | CN | 00000 | 00000 | 00206 | 00206 | 13.73 | 2,828,38 |
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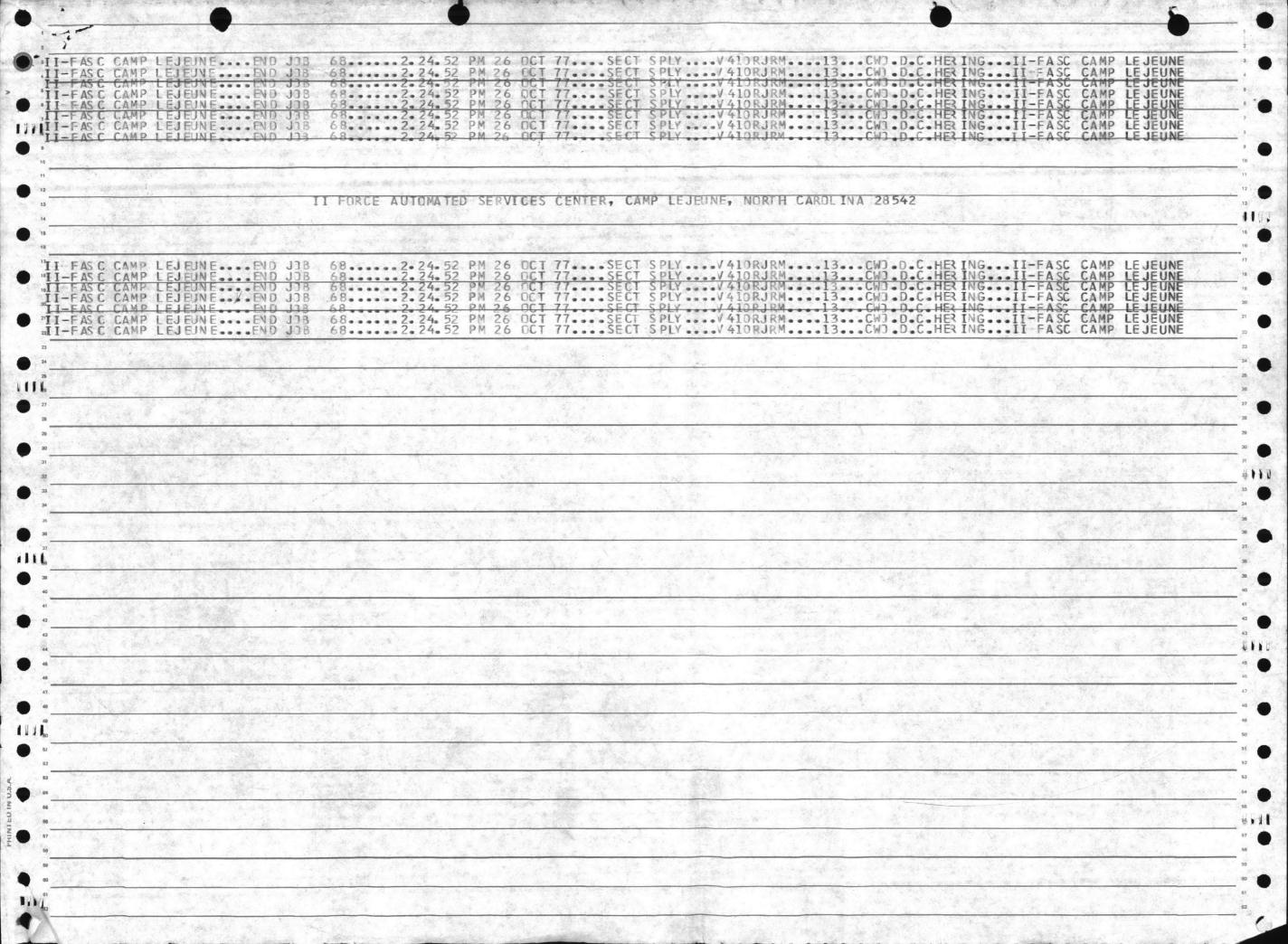
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NAVAL REGIONAL MEDICAL CENTER

CAMP LEJEUNE, N. C. 28542

IN REPLY REFER TO:

JCM:sp 6260.4 15 February 1978

From:

Industrial Hygienist

To:

Director, Natural Resources and Environmental Affairs Division

(Attn: Mr. Wooten)

Subj: Material Contents Bldg: TP452

Ref: (a) Phonecon ENS McDONOUGH and MR. WOOTEN, NR&A Div., MCB, CLNC on 15 Feb 78

1. After reviewing the list of the Building contents, consulting with the Base Fire Department, and conducting an on site inspection of the building debris, it is concluded that any hazardous materials that were in the building were incinerated and pose no threat to the demolition personnel.

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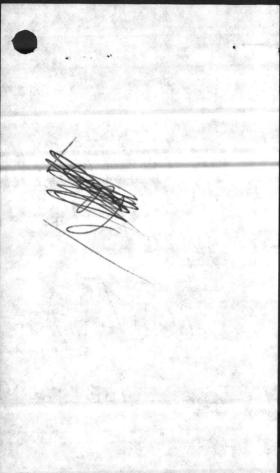
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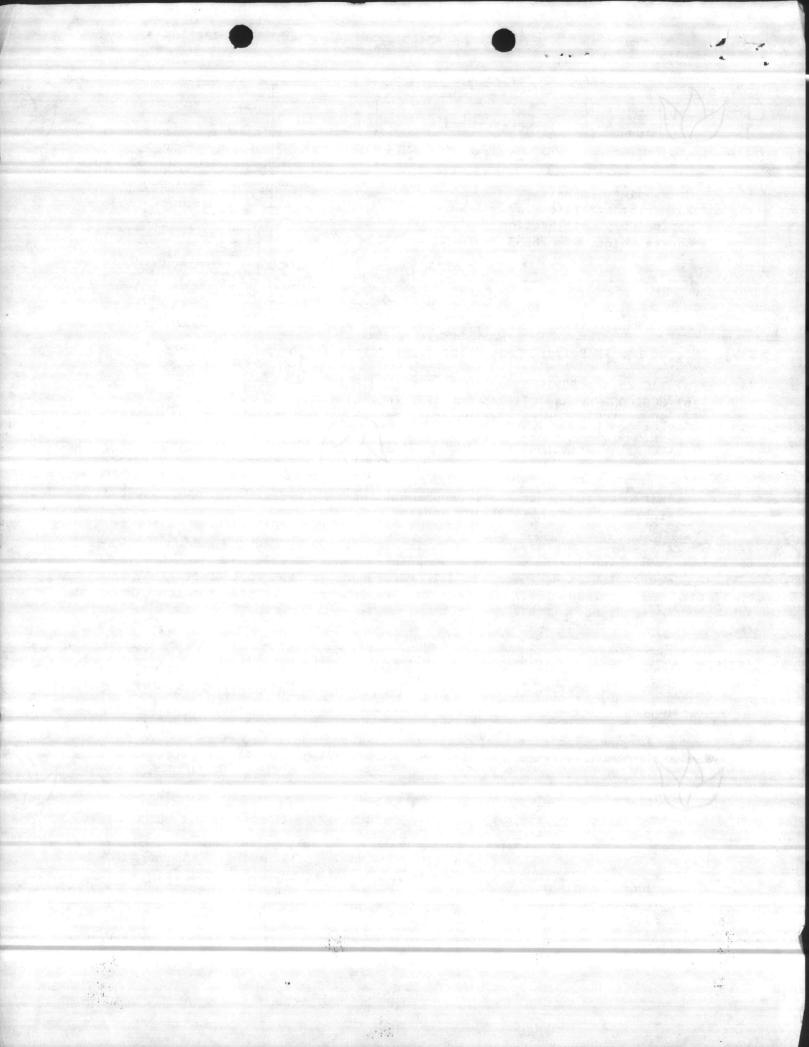
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| Subj: | Use of Low IR | Polyurethane raint | for Alecraft Touch-u | |
| Ref: | (a) MAG 26 msg | 302102Z Sep 1977 | FILES | |
| . Wer. | (b) CGSECONDMA | AW msg 071414Z Oct | 1977 (NOTAL) | |
| | (c) BUMEDINST | 6260.16A (Isocyana | ates; Measures for Con | ntrol of Health Hazards |
| | Related to | o) | | |
| | (d) COMNAVSURE | LANTINST 4750.1/CO | OMNAVAIRLANTINST 4750 | . 6 |
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| Encl: | (1) BUMEDINST | 6260.16A | netional Safety and He | ealth (NIOSH) Approved |
| | (2) National I | and Low IR Paint | Vendor | |
| | | | | |
| 1. R | eferences (a) an | nd (b) request aut | horization for CG SECO | OND MAW helicopter OMA/IMA |
| perso | nnel to utilize | low IR polyurethan | ne paint during aircra | aft paint touch-up. COMNAV- |
| AIRLA | NT concurs with | request contained | in references (a) and | d (b). Personnel, equipment |
| facil | ities and paint quent paragraphs | application salet | y requirements are ou | tlined, for compliance, in |
| subse | quent paragraphs | | | |
| 2. P | ersonnel: All | personnel assigned | duties involving low | IR polyurethane paint |
| touch | -un chall receiv | ve preplacement an | d periodic medical eva | aluations as outlined in |
| Fold refer | ence (c), enclos | sure (3). Referen | ce (c) is included as | enclosure (1) herein. |
| Tinio | on with the dire | ector of clinical | services. Navy Regina | 1 Medical Center (NKMC), |
| Camp | Lejeune, NC has | indicated that pe | rsonnel/facilities ar | e available to conduct |
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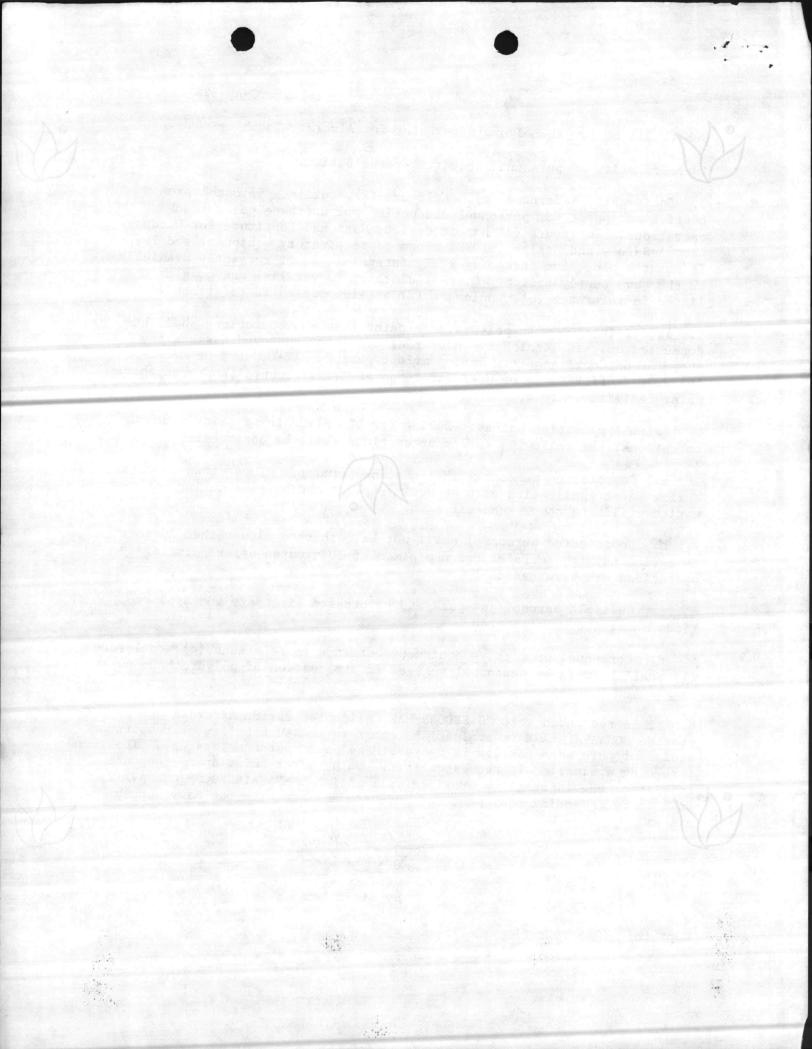
Subj: Use of Low IR Polyurethane Paint for Aircraft Touch-up

identification of personnel requiring reevaluation.

- 3. Equipment: Reference (c), enclosure (2), outlines personal protective equipment for personnel conducting polyurethane paint touch-up operations. Enclosure (2) herein depicts National Institute for Occupational Safety and Health (NIOSH) approved respiratory equipment and low IR paint vendor; the foregoing equipment/paint is not currently available in the Navy supply system. Gloves, clothing (coveralls) and goggles listed in reference (c), enclosure (2) are identified in reference (d).
- 4. Facilities: Low IR polyurethane paint touch-up operations shall be conducted only in local Navy industrial hygienist approved hangars and shops or outdoors ashore. During afloat periods, AM-L-Guard or MIL-C-16173 Grade I/IV shall be used for temporary repairs until approved shore paint facilities are available.
- 5. Paint Application Safety: During low IR polyurethane paint touch-up operations, the following safety precautions shall be observed:
- a. Unprotected personnel shall not be permitted closer than 15 feet during paint application with aerosol jetpacks and 40 feet during application utilizing compressed air guns.
- b. Unprotected personnel shall not be permitted closer than 15 feet to curing painted surface; for a minimum of 30 minutes after painting operations are terminated.
- c. Multiple aerosol jet-pack and compressed air spary gun applications shall not be attempted.
- d. Personnel protective equipment outlined in reference (c), enclosure (2) shall be worn by personnel engaged in application of polyurethane paints.
- 6. It is requested that CG SECOND MAW helicopter marine aircraft groups provide COMNAVAIRLANT an evaluation report on the suitability of respirator equipment purchased for low IR polyurethane paint personnel safety. The foregoing evaluation is requested three months after paint operations are initiated; the information provided will assist COMNAVAIRSYSCOM/COMNAVAIR-LANT in recommending equipment for purchase and stock in the Navy supply system.

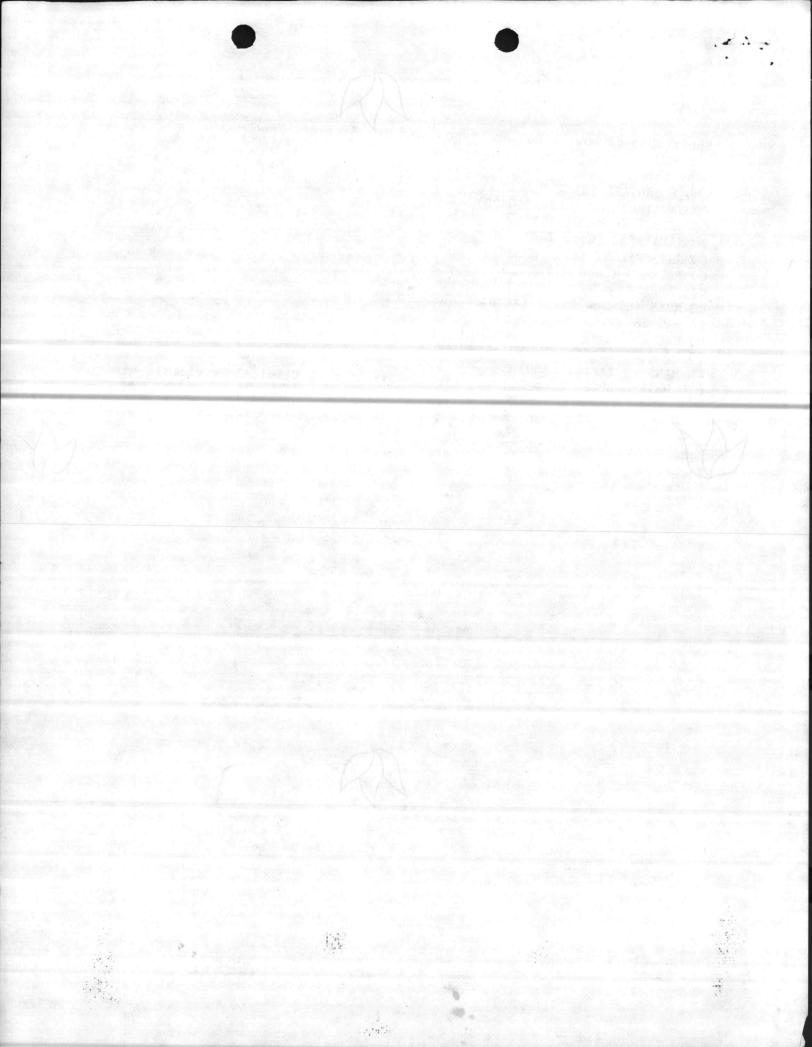
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Subj: Use of Low IR Polyurethane Paint for Aircraft Touch-up

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CGFMFLANT (Code SC-11)
COMNAVAIRPAC (Code 74C)
COMNAVSURFLANT (Code N3311A)
COMFAIRMED (Code N-62)
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DEPARTMENT OF THE NAVY Bureau of Medicine and Surgery Washington, D.C. 20372

BUMEDINST 6260.16A BUMED 5533 27 May 1977

BUMED INSTRUCTION 6260 16A

From: Chief, Bureau of Medicine and Surgery

To: All Ships and Stations

Subj: Isocyanates; measures for control of health hazards related to

Ref: (a) BUMEDINST 5450.116

(b) BUMEDINST 6270.3F

(c) BUMEDINST 6260.12A

Encl: (1) Substances Containing Isocyanates and
Their Uses

(2) Control Measures for Isocyanates

(3) Recommended Medical Evaluation

1. Purpose. Establishes procedures for control of health hazards related to substances containing isocyanates.

2. Cancellation. BUMEDINST 6260.16 is canceled.

3. Discussion. The use of materials containing isocyanates, especially polyurethane paints and foams, is increasing in the Navy. Examples are given in enclosure (1). These materials generally present no special hazard to health when "cured," but present special problems during preparation, application, and "curing" due to the isocyanate vapors produced. These isocyanate vapors can cause irritation of the skin, eyes, or respiratory tract, and sensitize exposed persons (make them allergic to isocyanates). Subsequent exposure to very small amounts of isocyanates can cause severe allergic reactions in sensitized individuals and may produce symptoms similar to those of asthma. When sensitization occurs, it tends to be permanent and generally precludes any further exposure to isocyanates.

4. Action

a. Commanding officers of activities where polyurethane paints or other substances containing isocyanates are used shall:

- (1) Ensure that paints and other substances containing isocyanates are used only for authorized applications. They shall be used in accordance with the precautionary measures outlined in enclosure (2).
- (2) Ensure that all existing and new operations under their cognizance, involving materials containing isocyanates, are evaluated by an industrial hygienist. Evaluations to document isocyanate exposure levels shall be conducted by breathing zone air sampling. Exposure data will be the basis for specifying control measures outlined in enclosure (2). Thereafter, reevaluations will be required following significant changes in the operation and at least annually for all operations. Methods for air sampling and sample analysis are to be requested from the Navy Environmental Health Center. Industrial hygiene support may be requested from the units listed in enclosure (1) to reference (a).
- (3) Require medical evaluation and survelliance of all personnel exposed to isocyanates be conducted in accordance with enclosure (3).
- (4) Prior to industrial hygiene evaluation, request guidance on required interim personal protective equipment from the cognizant Navy environmental and preventive medicine unit, naval regional medical center, or the Navy Environmental Health Center industrial hygienist noted in enclosure (1) to reference (a).
- b. Commands from which personnel are ordered to formal schools where instruction involves the use of polyurethane paint or other substances containing isocyanates shall conduct, or cause to be conducted, medical evaluation of all such personnel prior to detachment. The evaluation shall be in accordance with provisions of enclosure (3) and shall be documented in the Health Record. Upon reporting for the course, persons found qualified shall present a copy of the evaluation and favorable recommendation. Persons found not medically qualified shall be retained by the command, and cancellation or change of orders shall be requested in accordance with current directives

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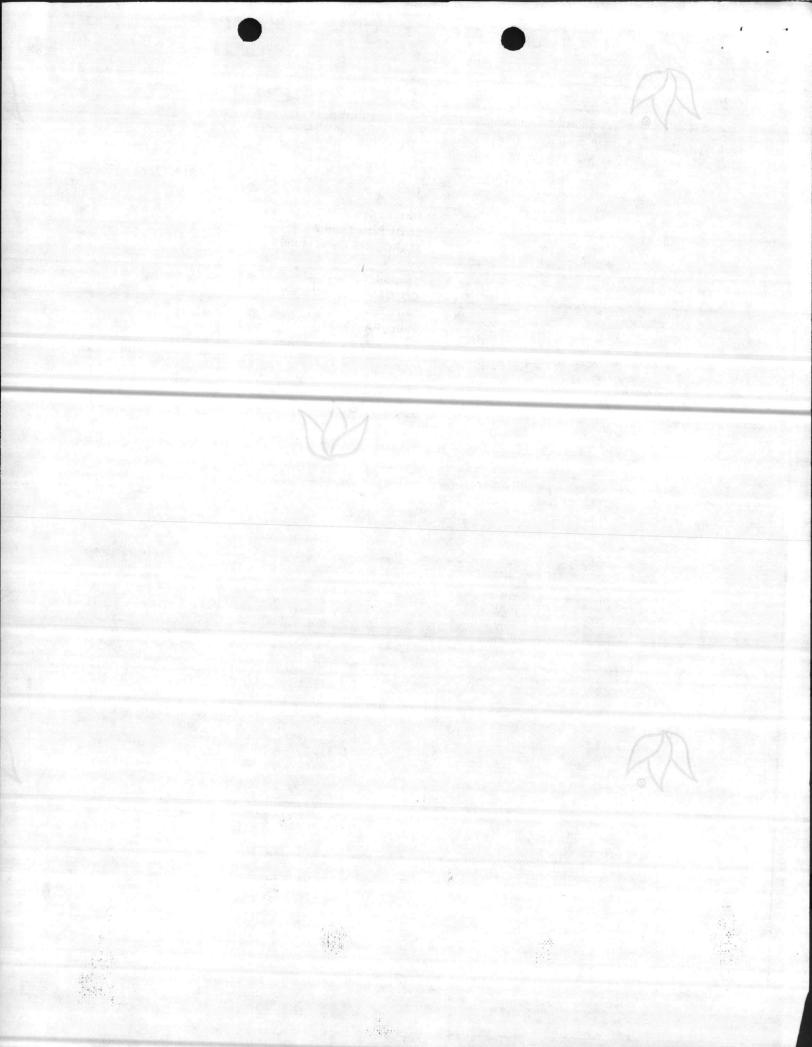
c. Commanding officers of naval regional medical centers shall ensure that personnel referred for pre-placement and periodic medical evaluations in respect

to polyurethane paint exposures are given the examination presented in enclosure (3).

W. P. ARENTZEN

Distribution: SNDL Parts 1 and 2 MARCORPS Codes H and I

Stocked: CO, NAVPUBFORMCEN 5801 Tabor Ave. Phila., PA 19120



SUBSTANCES CONTAINING ISOCYANATES AND THEIR USES

- 1. Aliphatic Polyurethane Paint. Used for exterior finishes. This is now the standard topcoat for the general exterior surfaces of Navy and Marine Corps aircraft and has replaced the former standard epoxy and acrylic finishes. Specifications MIL-F-18624 (Finishes, Organic, Weapons System, Application and Control of) and MIL-C-18263 (Colors, Exterior, Naval Aircraft; Requirements for) have incorporated these changes. This type of paint is relatively chalk resistant and tougher, and easier to maintain than the previously used finishes.
- 2. Aromatic Polyurethane Paint. Used to coat radomes of high performance all-weather aircraft. These coatings are rubbery and easier to apply than the neoprene coatings formerly used. The paint tends to yellow on exposure, but has outstanding resistance to rain erosion. Expanded use on radomes, radar antenna housings, and other critical applications is anticipated.

Note: In the following lists, the numbers in parentheses indicate current amendments.

Other Military and Federal Specifications Involving Polyurethane Paints

| MIL-C-46057 | Coating, Polyurethane |
|-----------------|---|
| MIL-C-46168 | Coating, Aliphatic Polyurethane, Low Reflective, Chemical Agent Resistant |
| MIL-C-47002 | Costing, Polyurethane, Single Component System |
| MIL-C-47102(1) | Coating, Polyurethane, For Electronic Components, Metals, and Plastics |
| MIL-C-81773B(2) | Coating, Polyurethane, Aliphatic, Weather Resistant |
| MIL-C-83019(2) | Coating, Polyurethane, For Protection of Integral Fuel Tank Sealing Compound |
| MIL-C-83231 | Coating, Polyurethane, Rain Erosion Resistant for Exterior Aircraft and Missile Plastic Parts |
| MIL-C-83286B | Coating, Urethane, Aliphatic Isocyanate, For Aerospace Applications |
| MI L-C-83445 | Coating System, Polyurethane, Non Yellowing, White, Rain Erosion Resistant, Thermally Reflective |
| MIL-P-38685(1) | Polyurethane Coating, Booster, Fuze BBU-23/B, Process for |

Enclosure (1)

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Costing, Polyurethane Clear, Linseed-Oil, Modified TT-C-540B(1)

Coating, Polyurethane, Oil-free, Moisture-curing TT-C-542D

Coating, Polyurethane Alkyd Modified, Satin Finish (For Interior and Exterior Use) TT-C-1162A

Coating, Clear, Fire Retardant, Two Component Polyurethane, Thermal Insulating (Intumescent) TT-C-001883

Polyurethane Foam. Used as a padding, packaging, or cushioning material.

Military Specifications Involving Isocyanate Containing Foams

| MIL-F-47095A | Foam, Polyurethane, For Imbedding Electronic Components and Boards |
|--------------|--|
| MIL-F-47185 | Foam, Polyurethane, Process For Application of |
| MIL-F-47222 | Foam, Polyurethane, Rigid |
| MIL-F-47254 | Foam, Polyurethane, Open Cell, Medium Flexibility |
| MIL-F-47285 | Foam, Polyurethane, Rigid |

Foam, Urethane MIL-F-81254

Polyurethane Foam, Rigid or Plastic, For MIL-P-26514D Packaging

Polyurethane Foam MIL-P-46897

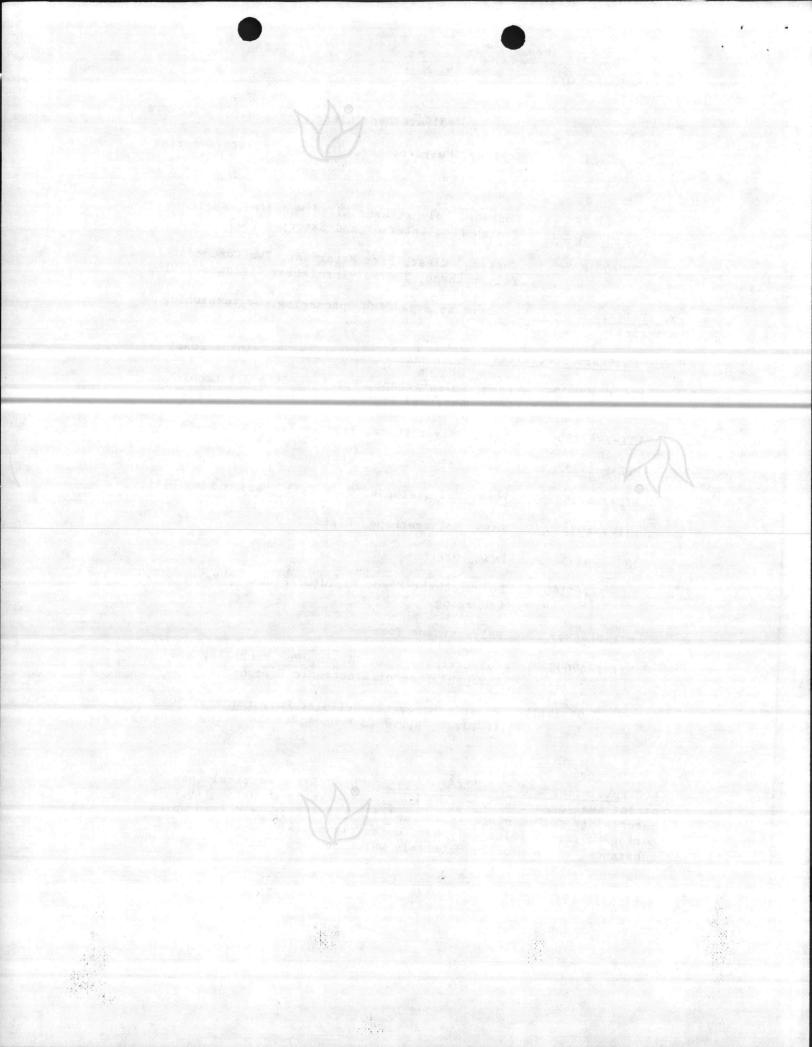
Polyurethane Foam, Rigid, For Packaging and MIL-P-47099 Encapsulation of Electronic Components

Plastic Material, Cellular Polyurethane, Foamin-Place, Rigid (3 Pounds Per Cubic Foot Density) MIL-P-83379(1)

4. Insulating and Sealing Materials. Used for electrical insulation or for sealing around wires or tubes penetrating ships' hulls. The material is set in place in the soft, uncured state and sets up on curing to form a relatively hard water-tight seal. Some of these substances contain other materials which require further precautions.

Enclosure (1)

1.0



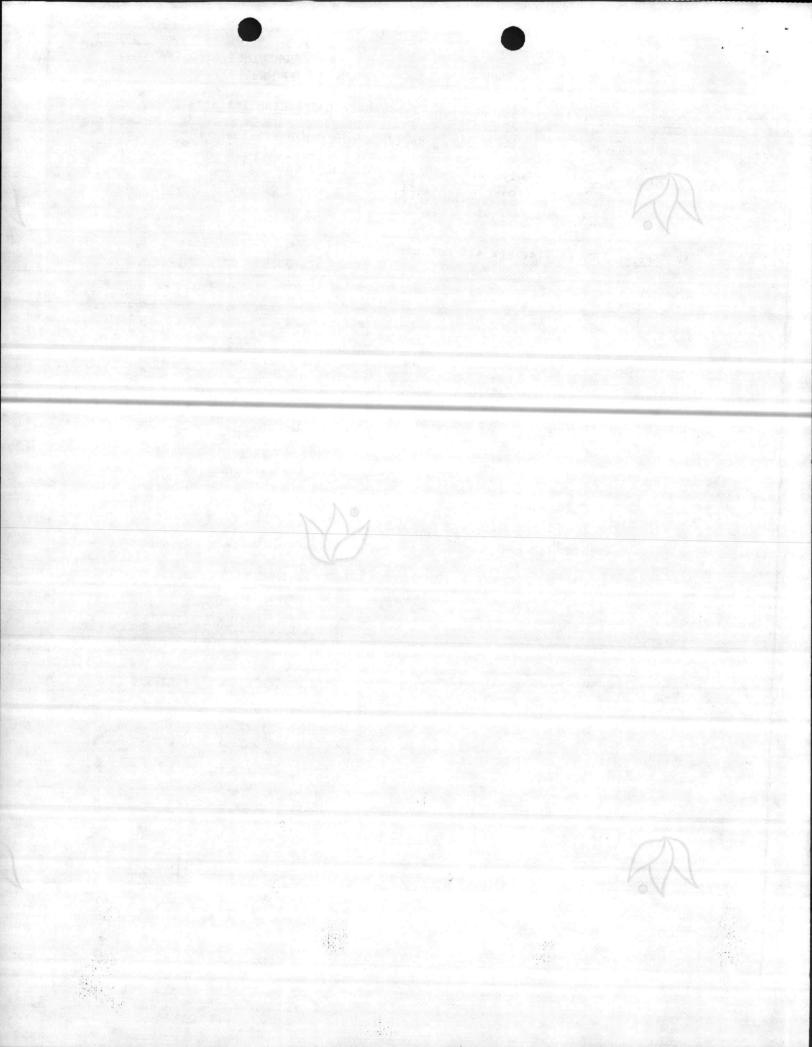
BUMEDINST 6260.16A 27 May 1977

Military Specifications Involving Isocyanate Containing Scalants

MIL-P-47201 Polyurethane, Rapid Demold Cable Elastomer

MIL-P-47298(1) Polyurethane Molding Compound Chemically Cured (Polyether Based)

5. Scope. These listings are not complete.



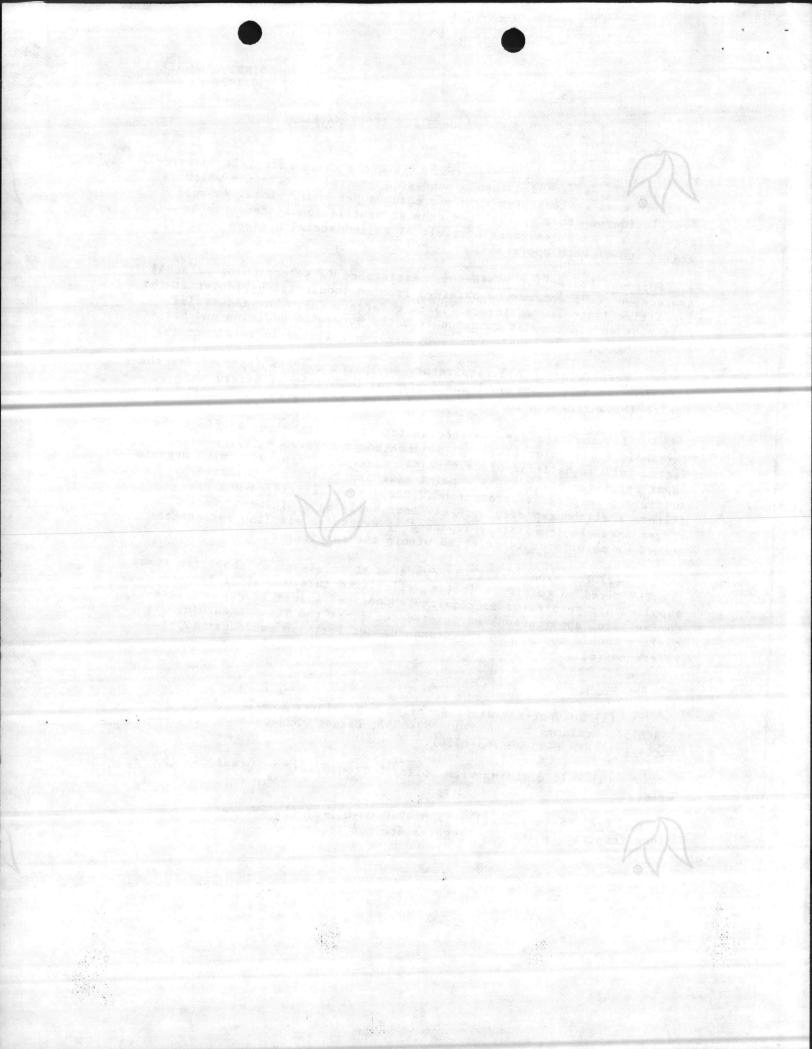
CONTROL MEASURES FOR ISOCYANATES

- 1. Environmental Control Measures. All areas where materials containing isocyanates are used should have good general ventilation which is taken to mean at least ten room air changes per hour. Local exhaust ventilation or other specialized exhaust ventilation systems may be required and recommended as a result of an industrial hygiene evaluation of each operation.
- 2. Personal Protective Equipment. Assistance in selection of personal protective equipment may be obtained from an industrial hygienist at the facilities, listed in enclosure (1) to reference (a). The industrial hygienist should request guidance from the Bureau of Medicine and Surgery concerning exposure levels for isocyanates not listed in reference (b).
- a. Respiratory. All respiratory equipment must be approved for the intended use by the National Institute for Occupational Safety and Health (NIOSH)/Mining Enforcement and Safety Administration (MESA).
- (1) For exposures to isocyanates at levels below ten times the Threshold Limit Value (TLV), as delineated in reference (b), a well-fitted full or half-facepiece chemical cartridge respirator with organic vapor cartridge preceded by a paint mist prefilter is considered sufficient respiratory protection. Respirator cartridges and pre-filters shall be replaced with new ones daily as a minimum. Cartridges shall be immediately replaced if excessive air flow resistance occurs or paint odor is detected within the respirator.
- (2) For exposures to isocyanates at levels at or above ten times the TLV cited in reference (b), a well-fitted full or half facepiece supplied air respirator is required. Confined spaces (i.e., jet intakes during paint application) may exceed ten times the TLV. Breathing air quality should conform to the standards set forth in enclosure (2) to reference (c).

b. Skin

- (1) Solvent-resistant gauntlet type gloves (Small: NSN 8415-00-753-6551; Medium: NSN 8415-00-753-6552; Large: NSN 8415-00-753-6553; Ex-large: NSN 8415-00-753-6554).
- (2) Full clothing with collar buttoned, sleeves taped at the wrist.
- c. Eye. Safety goggles (NSN 4240-00-052-3776). Where full face-piece respirators are used goggles are not required.

Enclosure (2)



3. Substitution

a. Substitution of other items for those listed above is explicitly prohibited, unless such substitution has been specifically approved in writing by the Chief of the Bureau of Medicine and Surgery (ATTN: Code 55) and by the appropriate safety organization.

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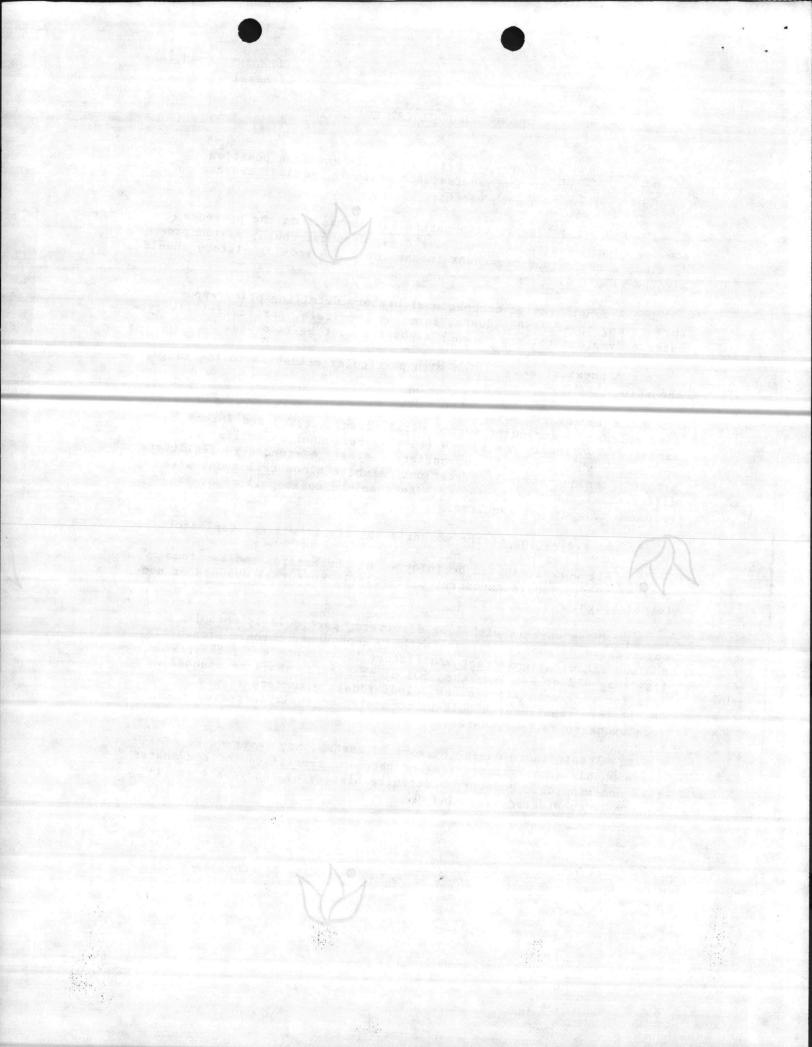
- b. The MARK V Protective Mask shall not be used in polyurethane painting operations or in work involving isocyanate-containing materials.
- 4. Scope. Due to complexity of processes and product formulations, exposure to other hazardous components associated with isocyanates in products should not be overlooked.



RECOMMENDED MEDICAL EVALUATION

- 1. Preplacement Evaluation. Prior to assignment to a position involving exposure to isocyanates, the following medical evaluation shall be performed on each worker:
- a. A medical history with particular emphasis on the presence and degree of respiratory symptoms, e.g., dyspnea, cough, sputum production, wheezing and tightness in the chest. A smoking history should also be elicited.
- b. A comprehensive occupational history detailing prior exposure to any toxic gases, dusts, fumes or chemicals, particularly isocyanates. Symptoms related to such exposures must be recorded.
- c. A physical examination with particular attention to the lungs and skin.
- d. A 14" by 17" posterior-anterior chest roentgenogram and baseline spirometry including forced vital capacity (FVC) and forced expiratory volume in one second (FEV₁). Personnel unfamiliar with spirometry should consult appropriate medical references to facilitate spirometry should consult appropriate medical references to facilitate proper technique and interpretation. A white blood cell count with differential shall be performed. An absolute eosinophil count is recommended, but not required.
 - e. An evaluation of the worker's ability to wear a respirator.
- f. All workers should be informed of the hazards and symptoms related to isocyanate exposure, particularly nocturnal dyspnea or nocturnal cough.
- g. Those workers with lung disorders, particularly chronic obstructive pulmonary disease (asthma, emphysema, chronic bronchitis) and who exhibit significant ventilatory impairment, e.g., FEV1/FVC less than 45% or FVC less than 50% of predicted, shall be disqualitied for work with isocyanates. Individuals with less severe ventilatory impairment should be counseled on their increased risk from exposure to isocyanates.
- h. Atopic individuals (history of asthma, hay fever or eczema) are probably at no greater risk of becoming sensitized to isocyanates than non-atopics. However, a definite history of isocyanate sensitivity is considered disqualifying.

Enclosure (3)



2. Periodic Evaluation

a. Workers occupationally exposed to a time-weighted average concentration greater than 0.1 milligrams per cubic meter (mg/M³) isocyanate concentrations shall be evaluated on a semiannual basis. In addition, the following table suggests medical evaluation intervals related to isocyanate concentration:

Isocyanate Concentration (mg/M³)
Time-Weighted Average

Evaluation Frequency

Below 0.06

To be determined by the cognizant medical authority

0.06-0.1

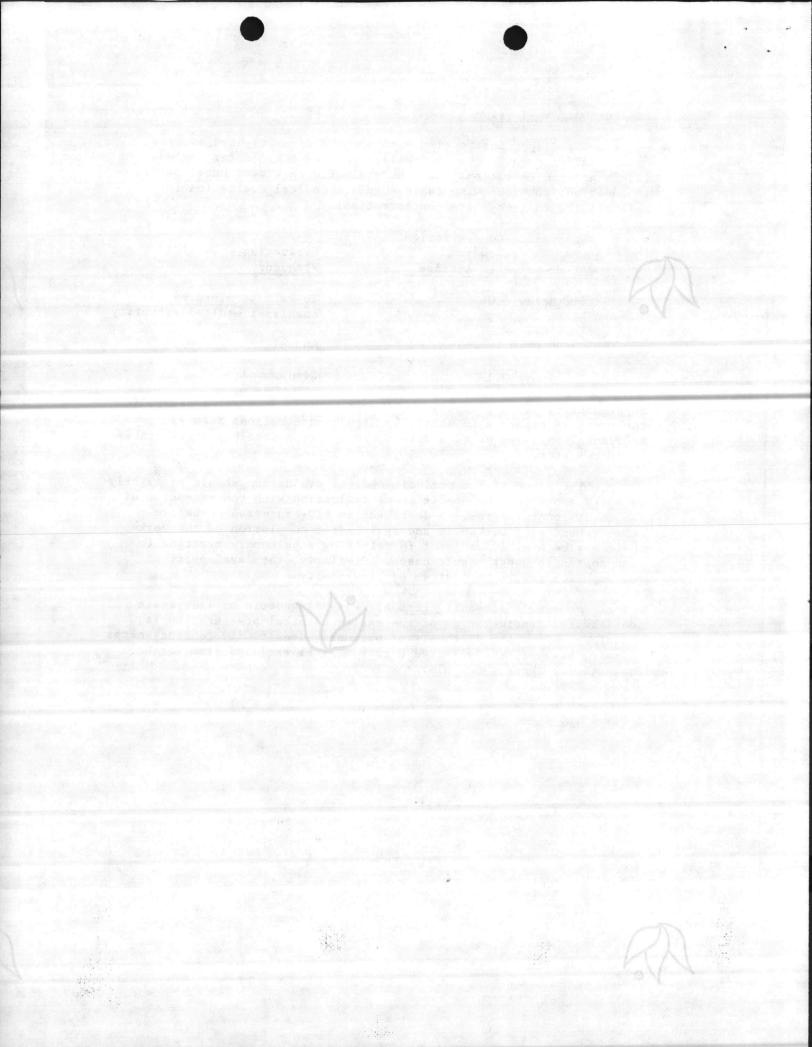
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Above 0.1

Semiannual

Supplementary medical evaluation should be performed as necessary in the event of exposure to unusually high concentrations such as accidental spillage or if a worker has symptoms possibly attributable to isocyanates.

- b. The scope of the periodic medical evaluation should be exactly as noted above for the preplacement evaluation with the exception of the chest roentgenogram. A decrement in FEV1 as measured before commencement of a workshift and again after completion of the workshift may be a useful adjunct in detecting a pulmonary reaction to isocyanates in questionable cases. Similarly, the development of eosinophilia may be indicative of sensitivity.
- c. No single screening test alone is diagnostic of isocyanate sensitivity; consideration of the entire clinical presentation is mandatory. Once the diagnosis of pulmonary sensitivity to isocyanates is made, however, the affected worker must be excluded from further contact with these chemicals.



NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH) APPROVED EQUIPMENT AND LOW IR PAINT VENDOR

1. PAINT

- Procured under COMNAVAIRSYSCOM Purchase Description AS-4903
- Low IR Reflective Epoxy Primer
 - (1) Each kit contains 1 quart of component 1 and 1 quart of component 2.
 - (2) DeSoto Product Designation 515X324/910X428
- Low IR Reflective Field Green Polyurethane Topcoat
 - (1) Each kit contains 1 quart of component 1 and 1 quart of component 2.
 - (2) DeSoto Product Designation 825X352/910X376
- Manufacturer: (sole source procurement)

DeSoto, Inc. 1700 S. Mt. Prospect Rd. Des Plaines, IL 60018 Telephone Number - Area Code 312, 391-9385

- e. Respirators -
 - (1) Organic Cartridge Type:

Mine Safety Appliance Company Manufacturer:

400 Penn Central Blvd. Pittsburg, PA 15235

Telephone Number - Area Code 412, 241-5900

Product Designation: 448975 (respirator)

448974GMA (cartridge)

Manufacturer: Wilson Products Division

ESB Inc.

P. O. Box 622 Reading, PA 19603

Telephone Number - Area Code 215, 376-6161









Product Designation: 1850 or 1860

(2) Air-line Type

Manufacturer: Mine Safety Appliance Company

408 Penn Central Blvd. Pittsburg, PA 15235

Telephone Number - Area Code 412, 241-5900

Product Designation: Constant Flow Air Supplied Respirator

No. 460863 (respirator and valve)

No. 455021 (25 ft. hose) No. 455022 (50 ft. hose)

f. Compressors:

Manufacturer: Wilson Products Division

ESB Inc.

P. O. Box 622

Reading, PA 19603

Telephone Number - Area Code 215, 376-6161

Product Designation: AABA Wilson Ambient Air Breathing Apparatus

(converts shop or hangar 60-100-PSI com-

pressed air to breathable air)

Manufacturer: Gast Manufacturing Company

P. O. Box 97

Benton Harbor, MI 49022 Telephone Number - None

Product Designation: Rotary Vane Air Pump, No. 3040-P120D-P41,

one man (compressor self contained when utilized with mine safety appliance company

460863 respirator)

Manufacturer: Scott Company

1201 Kalamazoo St. South Haven, MI 49090

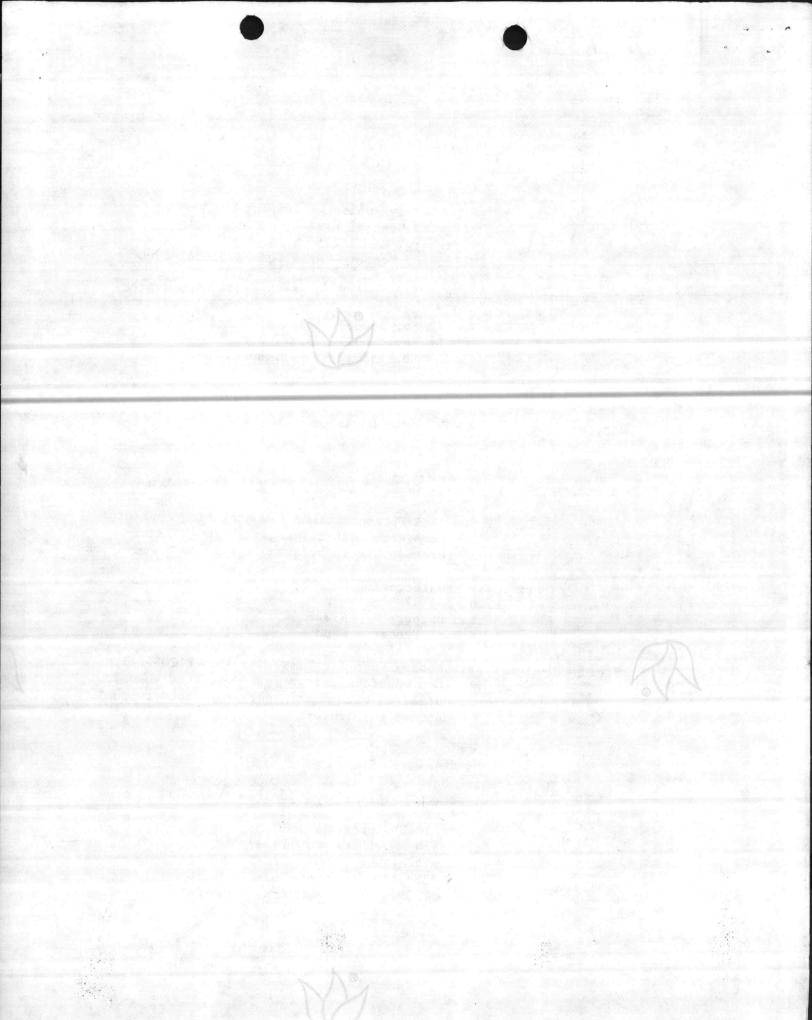
Telephone Number - Area Code 616, 637-2121

Product Designation: 4104EX (one man unit)

4107EX (three man unit)

4257 (50 ft. hose) 5258 (25 ft. hose)

5259 (15 ft. hose)



m. woster

Low IR polyurethane spray paint operation at MCAS

- 1. The Ground Support Equipment Shop, MCAS, New River, requested the Preventive Medicine Unit to approve the proposed spray paint operation at building MCAS-4146. Navy regualtions require approval by PMU before spray paint operation start-up. These paints contain isocyanates and will be used in this operation on aircraft parts.

 2. Chief Erdman (phone 5707) is conducting the survey. He has not approved the operation at this date. See Chief Erdman for
- 3. The low IR polyurethane paints used for this paint operation centain isocyanates. Special personnel protection is needed for paint operators utilizing this material. A water spray seperator will be used to remove the spray paint mist INFXENCEX from the air. The paint residue captured in the water spray will be discharged either into the storm sewer or the sanitary sewer. It is not known at this time which sewer will receive the waste.

the digestor would **** occur.

120 Geller

Low LR polytrethine spray paint operation at MCL3**

1. The Ground support Equipment Goo, MGAS, New Siver, requested the Preventive Medicine Unit to approve the proposed spray paint open tion at building GAS-A1A6. Many requaltions require approval by FrW before swray paint operation start—up. These paints cortain isocyanates and will be used in this operation on aircraft parts.

2. Chief Erdman (phone 5707) is concactin the survey. He has not approved the operation at this date. See Chief Erdman for

3. The low IN polyure hane paints used for this paint operation secial parsonnel protection is needed to centain isocyanates. for paint operators utilizing this motor 1. A water spray of separatory will be used to revove the spray paint mist Yarkthaka from the air. The paint residue captured in the water spray will te discherged either into the scorm sewer or the samitary sewer. It is not known at this time which sewer will receive the weste. d. Depending upon the concentration of the itocyanates in the discharre, the maste can cause fish kills in the miver or kill the operation of the of ester at the sewage trustant plant, Mr. J. Floyd, chemist at Cherry Joint, stated the these discharges at Cherry Point are tracted at the industrial mate treatment t Meferinent then routed to the seware trectment plant. cold that if the concentration is 0.5 mm/l or less, no damage of the dispetor would accur.

Em Son By



Hagardous much, UNITED STATES MARINE CORPS MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO TRNG/HAK/bh 3440 12 Jan 1978

From: Commanding General Distribution List

Subi: Execution of OPLAN 1-77

Ref:

(a) 317 TAW Pope AFB P092300Z Jan 1978

(b) MCB OPLAN 1-77

(1) Concept of Operation Encl:

Reference (a) establishes the flight itinerary for the Air Force C-130 designated to transport the Gas Identification Sets from Marine Corps Air Station (H), New River to Stapleton International Airport, Denver, Colorado. The flight will arrive at Marine Corps Air Station (H), New River at 1110 and depart at 1510 on 23 January 1978.

Movement of the sets will be in accordance with reference (b) and enclosure (1). All times are local.

> F. J. HEATH By direction

DISTRIBUTION:

CG FMFLant

CG 2dMarDiv

CG ForTrps/2d FSSG

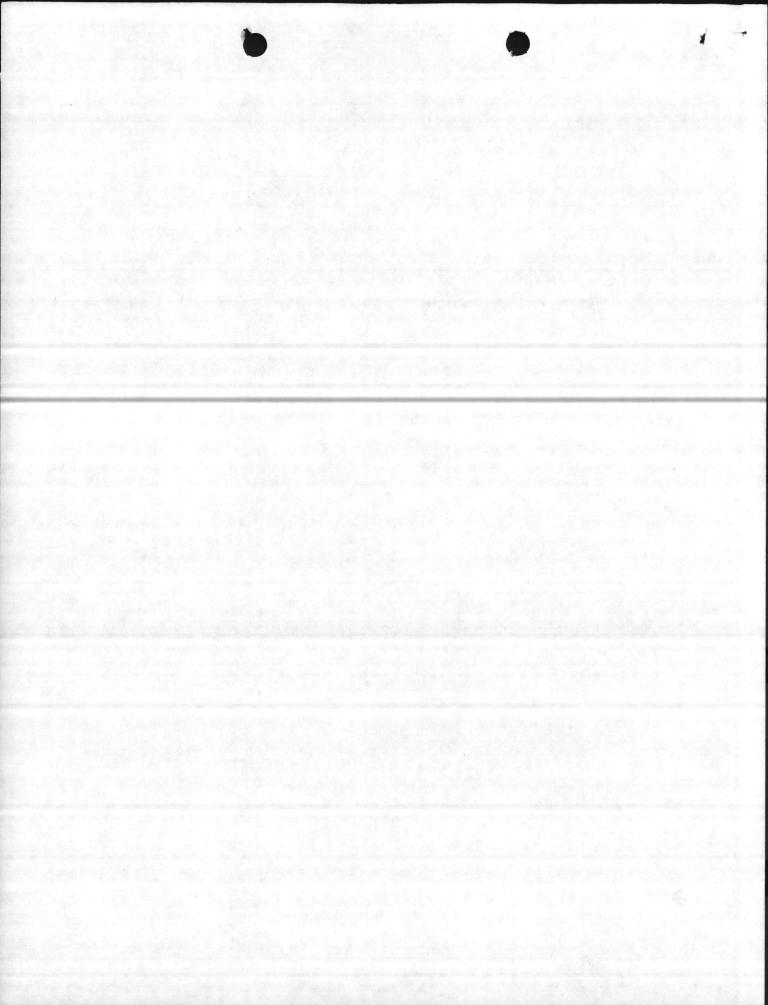
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Ord Off Capt, Barnett Environ. Mr. WOOTEN A C/S Compt Capt BOBO

Preventive Medicine LCdr THOMPSON S-3 LtCol NEBEL MAG-29 MAG-26 S-3 LtCol NOLL MCAS(H), New River Air Field Ops Maj CARLSON Air Station PMO Capt HART BMatBn .11 Project 0 Maj GIPSON

Ammo O WO HERMAN Guard Chief MSgt GOODNO MCES (CAIC) GySgt COLLINS



CONCEPT OF OPERATION

D-Day 23 January 1978.

L-Hour 1100 (Time cargo touch down MCAS(H),

New River).

L-24 Hours Tech Escort Officer will inspect cargo.

L-4 Hours MCC will be manned and operational.

L-2 Hours Custody of cargo will be transferred

to TEO.

L-1 Hour 30 Minutes All security, fire, CAIC, and safety personnel will be positioned and check

in with MCC.

L-1 Hour 15 minutes Cargo will be moved from storage site

to LZ in MAD. On site verification that cargo is safe for transportation

will be accomplished by TEO.

L-1 Hour Both cargo carrying helicopters will

land and shut down at the LZ in the MAD. The TEO will deliver a properly prepared DD Form 836-1 to helicopter commanders and brief them on cargo

contents.

L-50 Minutes Cargo will be loaded aboard the heli-

copter by MAD personnel. Verification that cargo is safely loaded and secured will be verified by helicopter commander.

L-15 Minutes Escort helicopter will be loaded with security personnel, corpsman and TEO.

security personnel, corpsman and TEO.
Air Station security personnel will be

positioned at landing site.

L-10 Minutes Escort helicopter will take off and orbit

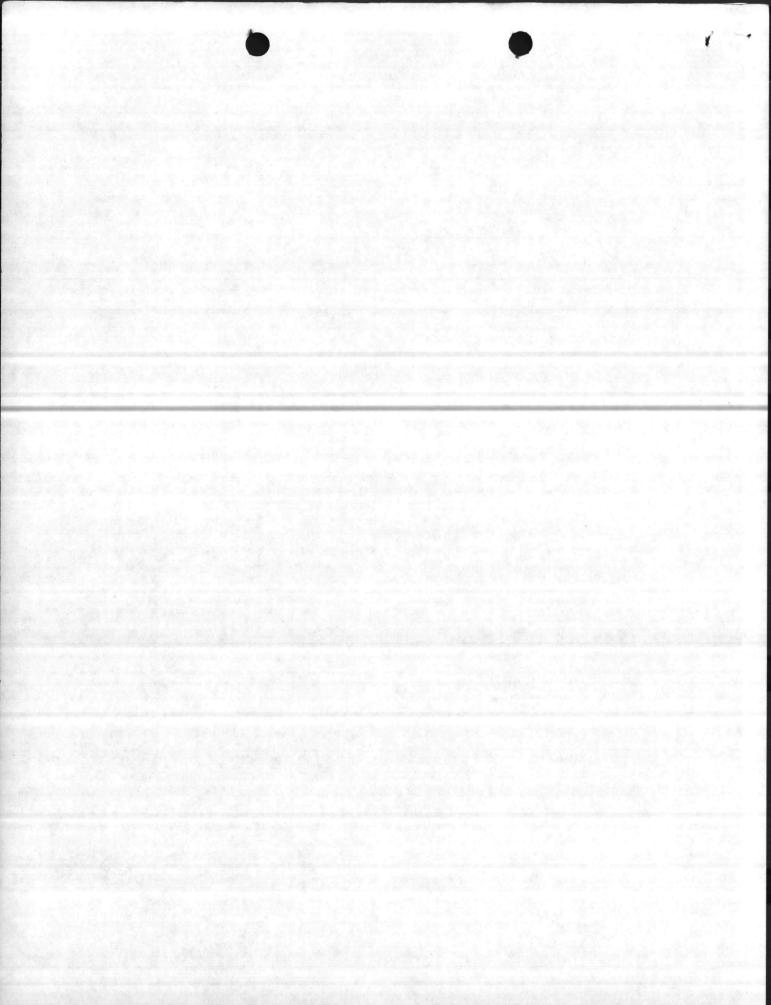
at 2,000'. First cargo helicopter will take off and orbit at 1,500'. The second cargo helicopter will take off and join the lead. The flight will proceed to MCAS(H), New River. CAIC unit will depart

by road to MCAS (H//, New River.

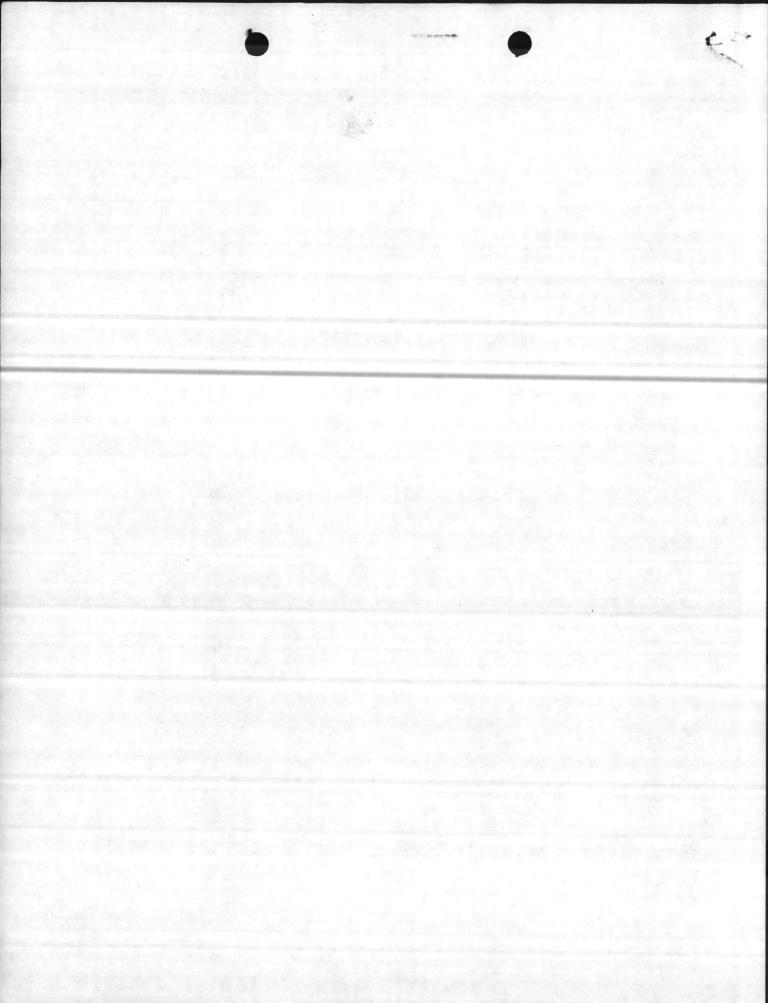
L-HOUR · Helicopter flight will land at designated

site at MCAS(H), New River.

Enclosure (1)

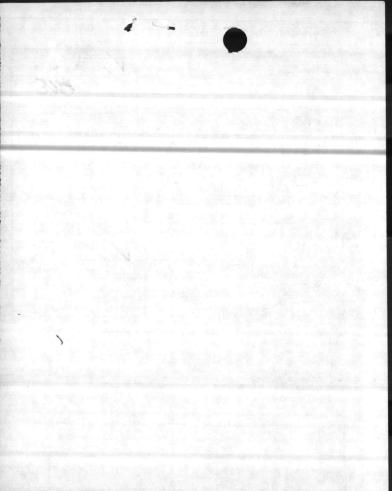


| L+10 Minutes | Cargo will be off-loaded from heli- copters by MCAS support personnel |
|----------------------|--|
| L+30 Minutes | Cargo (shipping crates) will be placed on Air Force special pallets by MCAS support personnel under the supervision of the Air Force Load Master. |
| L+2 Hours | Cargo will be loaded aboard C-130 by aircraft crew assisted by MCAS support personnel and equipment. |
| L+3 Hours | Custody of cargo will be signed over to U. S. Army Tech Escort Officer. |
| L+4 Hours 10 Minutes | C-130 takes off from MCAS(H), New River. CAIC, Fire Department, security and safety personnel will be secured as directed by MCC. |



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ASSISTANT CHIEF OF STAFF, FACILITIES HEADQUARTERS, MARINE CORPS BASE

DATE 1-5-78

TO:

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PUBLIC WORKS O

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MOTOR TRANSPORT O

ATTN: 2 msgd

1. Attached is forwarded for info/action.

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BASE FIRE CHIEF

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3. Your file copy

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PAGE 2 RUNTO NA 1848 UNCLAS E F T O FOUO RUEBJXA/COR MICDEC QUANTICO VA//G3 1 NONTAGO!/ RUCLBPA/COR FT STEWART GA//AFZT-DPT// RUMMHKA/CORHWAAP HAWTHORNE MY//SARHW-PSE// RUNDWAA/NWS SEAL BEACH CA //NØ8073// RUMMMA/NTS KEYPORT WA//N03020// RUW JBTA/COR TOOELE AD UT//SOSTE-DSA// RUMMAEA/ODR 172 INF BDE FT RICHARD SON AK//AFZT-PTC-C// RUHHBNA/BARBERS POINT NAS HI//PONS// RUEBMA/COR NEW RIVER MCAS MC//OPNS// RUEBEMA/CDR POPE AF8 NC//OPNS// RUHJOFA/COR ANDERSEN AF8 GUAM//OPNS// RUMBRA/COR ELNEND ORF AFB AK//OPNS// RUWMBPA/COR WAINRIGHT AAF AK//OPNS// RUE BJMA/CORMCAF QUANTICO VA//OPNS// RUCL BPA/COR WRIGHT AAF FZ STEWART GA//OPWS// RUMMHJA/CDR NAS FALLON NV//OPNS// RUWDWAA/ODR NAS LOS ALAXITOS CA//OPNS// RUNJOHA/COR NAS WHID BEY ISLAND WA//OPNS// RUNJYPA/COR DPG DUGWAY UT//STEDP-OA//-INFO RUCIMAA/HQ MAC SCOTT AFB ILL

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PAGE 3 RUNTO NA 1944 UNCLAS E F T O RUCIMAA/CORMAC SCOTT AF8 IL//TRRR/DOOMS/TROC// RUEADWD/DA WASH DC//DAMO-SSC// RUNCEDAR/CORDARCOM ALEX VA//DRCSA-CS/DRCNM-ST// RUL NE AA/PHICO IR APG MO//DRCPM-DR-T// RUCIAFB/ODRARRCOM ROCK ISL IL//ORSAR-ASN/ORSAR-T// RUL NEAA/COR USATEU ED GEWOOD APG NO//SARTE-CO/// RUCL HT8/ODRFORSCOM FT MCPHERSON GA //AFOP-TAW// RUW JHPA/COR DUGWAY PG DUGZAY UT RUHHMA/COR CAMO-PAC FT SHAFTER HI-RUE OF UA/COR USANA FT BELVOIR VA//MONA-SU// RUEBJNA/NAVSURFWPNCEN DAMLEREN VA//OG 31/OG 32// RUENAAA/CNO WASH DC RUL SSAA/CHNAVMAT WASH DC RULSSAA/COMNAVSEASYSCOM WASH DC UNCLASE F T O FOUO

SUBJ:SETCON I-PUBLIC AFFAIRS ANNOUNCEMENTS

1. WHEN DIRECTED BY THE TOC, SITE COMMANDERS WILL NOTIFY GOVERNORS AND OTHER LOCAL OFFICIALS OF THE MOVEMENT SCHEDULE; CURRENT STATUS OF MAC PLANNING INDICATES THAT A MAC IT INTERARY WILL BE AVAILABLE NLT 6 JAN 78. SAMPLE PA ANNOUNCEMENT OF MOVEMENT SCHEDULE THAT MAY BE USED AFTER RECEIPT OF MAC IT INTERARY AND TOC AUTHORIZATION FOLLOWS IN NEXT PARAGRAPH.

2. THE COMMANDER OF (SITE) HAS ANNOUNCED THAT THE DEPARTMENT OF DEFENSE HAS GIVEN THE GO-AHEAD FOR THE RELOCATION OF (NUMBER OF SETS) CHEMICAL AGENT SETS FROM (SITE) TO BE TRANSPORTED TO THE

PAGE 4 RUNTO NA 18948 UNCLAS E F T O FOUO ROCKY MOUNTAIN ARSENAL IN DENVER, CO. DURING 16-31 JAN 78. THIS MOVEMENT IS PART OF THE DEPARTMENT OF DEFENSE'S PROGRAM TO DIS-POSE OF ALL SUCH OBSOLETE CHEMICAL ID SETS FROM MILITARY INS-STALLATIONS WORLD-WIDE. THE SHIPMENT FROM (SITE) CONSISTS OF (NUMBER OF DIFF SETS) DIFFERENT TYPES OF SETS WHICH WERE DE-VELOPED, MANUFACTURED, AND DISTRIBUTED FROM THE EARLY THIRTIES THROUGH 1970. THEY WERE DECLARED OBSOLETE IN1971 AND HAVE RE-MAINED HERE AT (SITE) AWAITING DISPOSITION. THE INDIVIDUAL AGENT-FILLED GLASS CONTAINERS WERE INTENDED TO BE BROKEN IN FIELD LABORATORIES OR TRAINING AREAS IN ORDER TO PROVIDE THE TROOPS WITH FIRST-HAND DETECTION EXPERIENCES THROUGH SIGHT AND SMELL. A TOTAL OF APPROXIMETELY 1700 CHEMICAL AGENT SETS FROM OTHER MIL-ITARY INSTILLATIONS ARE SEIGN TRANSPORTED TO THE ARMY'S DISPOSAL SITE IN DEWER. THIS PILOT OPERATION IS TO PROVE THE FEASIBILITY OF ENVIRONMENTALLY SAFE DISPOSAL PROGRAM WHICH WILL EVENTUALLY CULMINATE IN THE DISPOSAL OF APPROXIMATELY 20,000 SUCH CHEMICAL SETS. AS YOU MAY REMEMBER, THE CHEMICAL MOVEMENT AND DISPOSAL WAS ITITALLY PROPOSED IN A DRAFT ENVIRONMENTAL IMPACT STATE-MENT AND FILED IN THE FEDERAL REGISTER IN APRIL 1977. COMMENTS

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