MCLB ALBANY GA
CG MCLB BARSTOW CA
CG NCB CAMP LEJEUNE NC
CG SECOND FSSG
COMCABEAST CHERRY PT NC
MARBKS GUANTANANO BAY CU

CGFIRSTMAW
COMCABUEST EL TORO CA
CG FIRST MAB
CG THIRD FSSG
FIRST FSSG
- MATSG HINE ZERO MILLINGTON TH

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BT UNCLAS //ND4750// SECTION 01 OF 04

CNC//CODEXLHE/CODEXA/CODEXP/CODEXRD/CODEXRES/CODEXRP/CODEXT/CODEXIG/CODEXHED/CODEXINT/CODEXLF/CODEXLP/CODEXLMA/CODEXLMC/CODEXLMG/CODEXLMM/CODEXLMM/CODEXHMS//FOR: G-3/G-4/MMO/HAINTO/BBU/B3UU SUBJ: TOUCH-UP PAINTING PROCEDURES FOR CHEMICAL AGENT RESISTANT COATING (CARC) AND THREE COLOR CAMOUFLAGE PATTERNS (3-CCP) FOR COMBAT AND TACTICAL GROUND EQUIPMENT

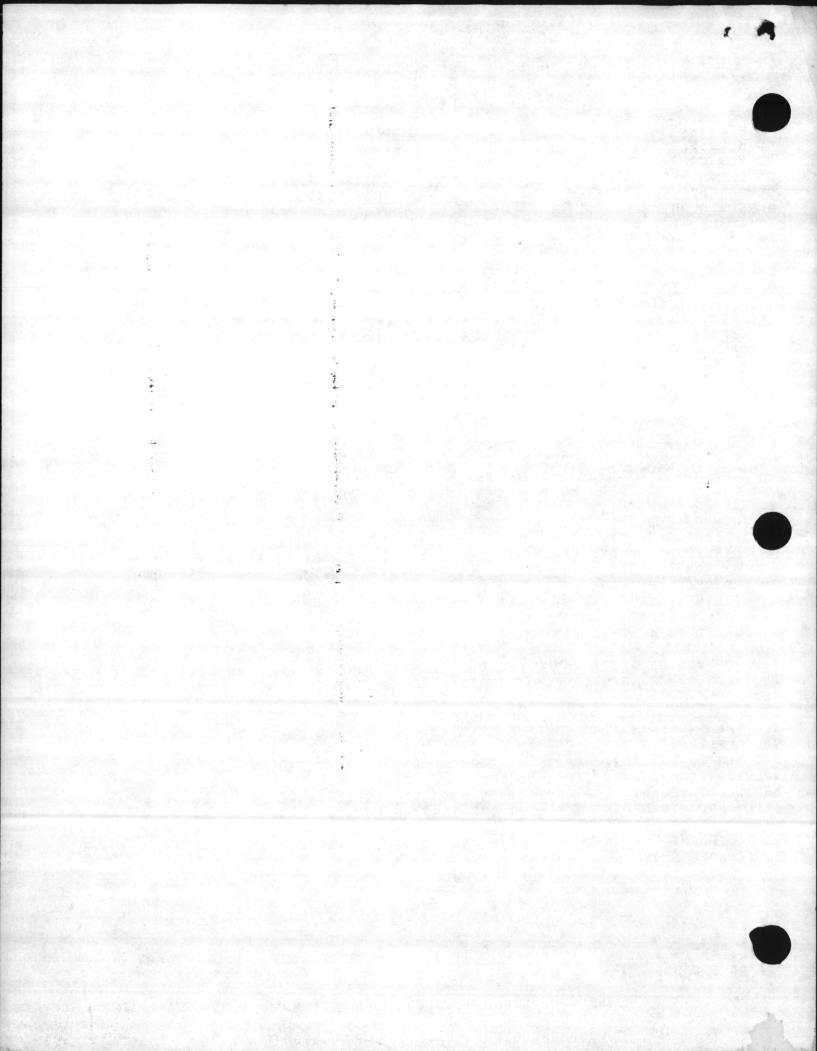
- A. CMC WASHINGTON DC 050230Z DEC 85
- B. CMC WASHINGTON DC 300226Z JAN 86
- C. CMC WASHINGTON DC 180226Z MAR 86
- D. COMMANDER, NAVAL MEDICAL COMMAND LTR, 4271/4710 SER 242/0757 DTD 29 NOV 1985 (NOTAL)

MCO P11000.8

RESOURCE CONSERVATION RECOVERY ACT, 1976 (RCRA)

- E. LTR FROM THE OFFICE OF THE SURGEON GENERAL OF THE ARMY DTD 22 FEB 85. ON OCCUPATIONAL HEALTH REQUIREMENTS IN SUPPORT OF PAINTING IN THE ARMY (NOTAL)
- H. THE U.S. ARMY'S POST INPLEMENTATION CONFERENCE ON CARC AND 3-CCP HELD AT CHAMERSBURG, PA ON 8-10 APRIL 1984.
- I. DRAFT TM 4750-15/1
- 1. REFERENCES A, B, AND C ARE CANCELLED. THE INFORMATION CONTAINED-IN THESE THREE REFS IS CONSOLIDATED WITH AMPLIFYING GUIDANCE IN THIS MESSAGE.
- THE FOLLOWING INFORMATION PROVIDES INTERIM GUIDANCE TO USERS IN THE APPLICATION OF TOUCH-UP PAINTING WITH CARC AND AUTHORIZES, AS DELINEATED HEREIN, THE USE OF CARC. GUIDANCE (TO INCLUDE THE SPRAY APPLICATION OF CARC) IN MANUAL FORM IS FORTHCOMING. SEE PARA 11'. AS INFLUENCED BY REFERENCES D THROUGH G, THE GUIDANCE PROVIDED BELOW WILL APPLY TO BRUSH OR ROLLER APPLICATION ONLY AND CARC IS NEVER, REPEAT NEVER, TO BE USED FOR COSMETIC PURPOSES (E.G., THE TOUCH-UPOF FOULPMENT FOR INSPECTIONS OR PARADES). FURTHERMORE, DUE TO THE TOXIC NATURE OF CARC AND AS DELINEATED IN REF D, IT IS NOT TO BE

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TO SECOND MARDIY

R 0202262 MAY 86

FM CMC WASHINGTON DC

TO CG FNFPAC CG FMFLANT. CGMCDEC QUANTICO VA CG MCB CAMP BUTLER JA CG III MAF CG SECOND MAU CGFIRST MARDIY CG FOURTH MAU

COMMARCORBASEPAC CAMP H M SMITH HI CG II MAF CG NCB CAMP PENDLETON CA CG FOURTH MARDIY CGTHIRDHARDIY CGIMAF CGSECONDMARDIV CGTHIRDMAU

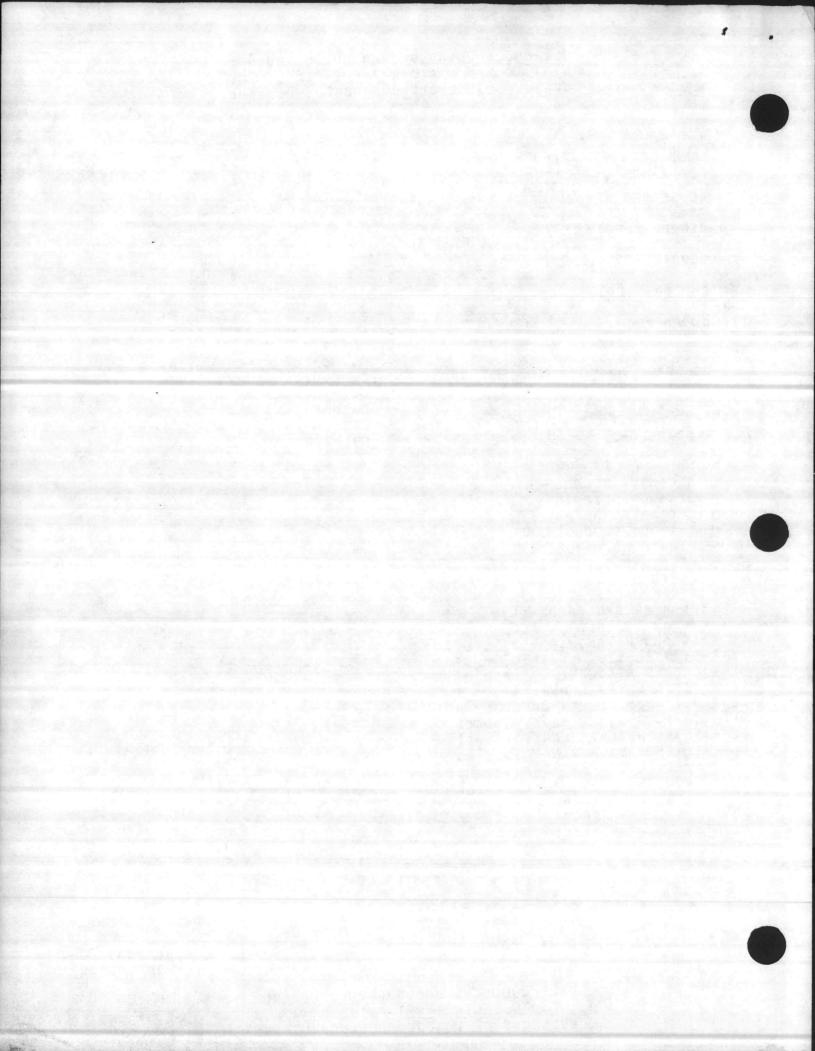
DLVR:SECOND CBTENGRBH(&) ... ACT DLVR:SECOND ASLIPHIBBN(10) ... ACT DLVR:SECOND LAVBH(2) ... ACT DLYR: THIRDBN SECOND MAR(1) ... ACT DLYR : EIGHTH MAR(1) . . . ACT DLVR (SECOND MAR(1). . . ACT DLVR:SIXTH MAR(1) ... ACT DLVR:TENTH MAR(1) ... ACID DLVR: HQBN SECOND MARDIV(L) ... ACT DLVR:SECOND TKBH(L) ... ACT DLVR:SECONDBH TENTH MAR(1) ... ACT DLYR: FIRSTBH TENTH MAR(1) ... ACT DLVR:SECOND RECONBH(7)...ACT DLVR: FIFTHBN TENTH MAR(1)...ACT DLVR:SECONDBN EIGHTH MAR(1)...ACT DLVR:THIRDBH SIXTH MAR(1) ... ACT DLVR:THIRDBN TENTH MAR(1)...ACT DLVR:THIRDBN EIGHTH MAR(1)...ACT DLVR:FIRSTBN SECOND MAR(1)...ACT DLVR: FOURTHBN TENTH MAR(1)...ACT DLVR:FIRSTBN SIXTH HAR(1)...ACT DLVR: TAB TENTH MAR(1) ... ACT DLVR: MAR DET UNITAS(2) ... ACT

DG-4(3)...ORIG FOR CG SECOND MARDIV(5) DADJ(1) DC-S(2)

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APPLIED WHILE EMBARKED ABOARD HAVAL SHIPPING.

A. THE CARC SYSTEM CONSISTS OF THE FOLLOWING:

(1) FOR EXTERIOR SURFACE APPLICATION, POLYURETHANE PAINT

(PUP) IS THE TOP COAT APPLIED OVER AN EPOXY PRIMER.

(2) FOR INTERIOR SURFACE APPLICATIONS, THE COATING IS AN

EPOXY ENAMEL OVER AN EPOXY PRIMER.

- B. THE PUP AND EPOXY PRIMER/ENAMEL (EPE) ARE SUPPLIED AS A TWO COMPONENT KIT (I.E., COMPONENTS "A" AND "B"). WHEN THE COMPONENTS OF EITHER THE PUP OR EPOXY PRIMER/ENAMEL ARE MIXED TOGETHER, A TER-MINAL CHEMICAL REACTION COMMENCES. WHEN APPLIED TO EQUIPMENT, THE CHENICAL REACTION TOGETHER WITH EVAPORATION OF SOLVENTS FORMS A COATING WHICH IS SUPERIOR TO ALKYD COATINGS IN DURABILITY, SERVICE LIFE, AND CHEMICAL RESISTANCE.
- CARC APPLICATION CHARACTERISTICS. CARC IS MORE COMPLICATED TO APPLY THAN THE ALKYD SYSTEM. SIMPLY STATED, "MORE CAN GO WRONG". PERSONS PAINTING WITH CARC WILL REQUIRE A THOROUGH UNDERSTANDING OF THE FOLLOWING:

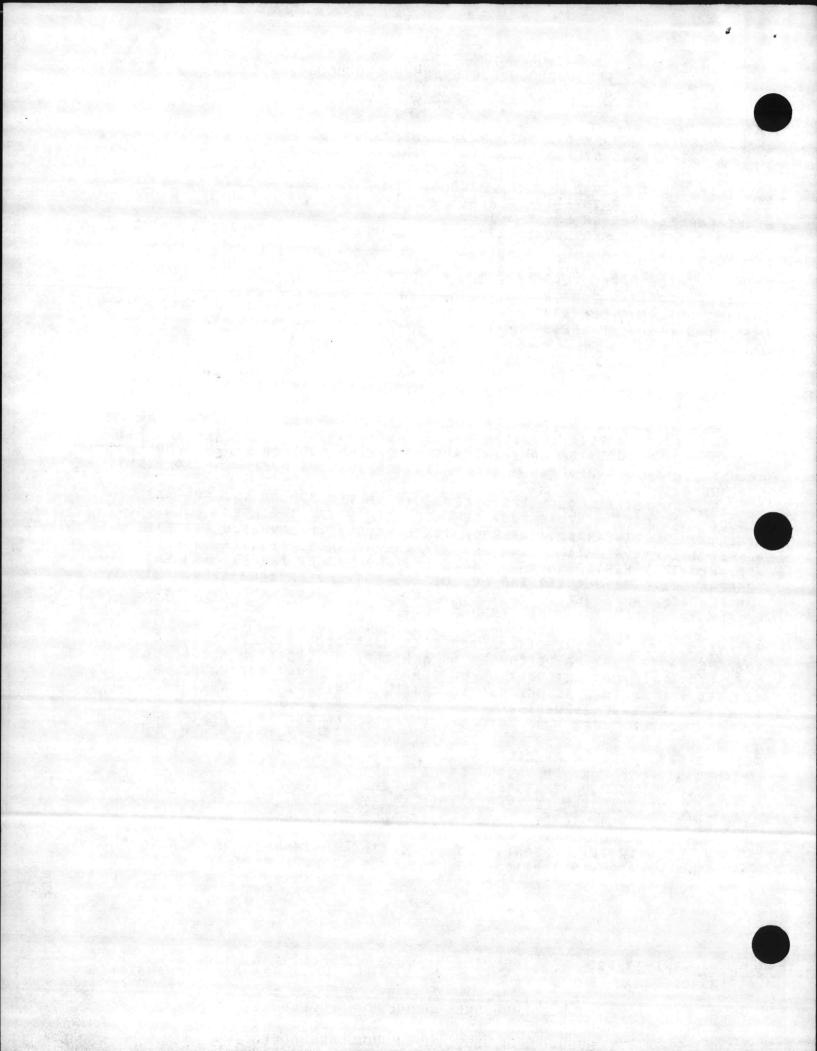
A. RATIOS AND MIXING. ACCURATE MIXING OF COMPONENTS "A" AND "B" IN STRICT COMPLIANCE WITH THE INSTRUCTIONS PROVIDED WITH THE KIT IS CRUCIAL. GRADUATED CONTAINERS SHOULD BE USED WHEN MIXING SMALL AMOUNTS OF EACH COMPONENT. ALL MIXING CONTAINERS MUST BE ABSOLUTELY

DRY AND CLEAN.

- B. POT LIFE. ONCE THE COMPONENTS OF THE PUP OR THE EPE ARE TXED. THE PAINT MIXTURE MUST BE USED WITHIH EIGHT/FIFTEEN HOURS OF IXING OR BE DISCARDED. AT ROOM TEMPERATURE, THE AVERAGE POT LIFE OF PUP IS APPROXIMATELY EIGHT HOURS: THE AVERAGE POT LIFE OF EPE IS APPROXIMATELY FIFTEEN HOURS. HOWEVER, THE HIGHER THE ENVIRONMENTAL TEMPERATURE, THE SHORTER THE POT LIFE. AT TEMPERATURES APPROACHING 100 DEGREES FAHRENHEIT (F), THE AVERAGE POT LIFE OF PUP IS APPROXI-MATELY TWO HOURS, AND THE AVERAGE POT LIFE OF EPE IS APPROXIMATELY SIX HOURS. THOROUGH CLEAN-UP OF EQUIPMENT USED FOR MIXING AND UNSERVICEABLE APPLYING PUP/EPE WITHIN THESE TIMES IS MANDATORY. PUP/EPE ADMIX MUST BE DISCARDED AS A HAZARDOUS WASTE IN ACCORDANCE WITH (IAW) THE CURRENT EDITION OF REF E. NOTE THAT THESE UNUSABLE ADMIXES ARE DEFINED AS HAZARDOUS WASTES, BY REF F, BECAUSE THEY CONTAIN IGNITABLE SOLVENTS.
- GUARANTEED SHELF LIFE OF PUP AND EPE IS ONE SHELF LIFE. YEAR, WHICH IS THE EXPECTED CATALYTIC POTENCY OF THE COMPONENT "B". PUP AND EPE. THE SHELF LIFE CAN BE EXTENDED SEVERAL YEARS GIVEN OPTIMUM STORAGE CONTAINERS AND CONDITIONS.
- STORAGE TEMPERATURE. PUP AND EPE, CONTRARY TO PREVIOUS GUIDANCE, HAS NO STORAGE TEMPERATURE LIMITATIONS. HOWEVER, IT MUST D. BE BROUGHT TO ROOM TEMPERATURE (60-90 DEGREES F) PRIOR TO MIXING AND APPLICATION.

E. SUBSTRATE TEMPERATURE AND PAINTING ENVIRONMENT TEMPERATURE. TO ENSURE PROPER APPLICATION/ADHESION, THE SURFACE TO BE PAINTED

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CHOULD BE NO LESS THAN AD DEGREES F AND NO MORE THAN 90 DEGREES F DURING APPLICATION AND ABOVE AD DEGREES F FOR AT LEAST FOUR HOURS, PREFERABLY SIX HOURS, AFTER APPLICATION. AT AD DEGREES F PUP REQUIRES TWICE AS LONG TO CURE AND AT TEMPERATURES BELOW 50 DEGREES F PUP DOES NOT CURE. TEMPERATURES IN THE 95/100 DEGREES F RANGE WILL RESULT IN PAINT DRYING PRIOR TO CONTACT OR TOO QUICKLY FOR PROPER CURE/ADHESION.

F. COMPONENT "B", PUP.

(1) THE POLYISOCYANATE COMPONENT OF PUP IS HYDROSCOPIC; THAT IS, IT WILL ABSORB MOISTURE FROM THE AIR. ONCE A CONTAINER IS OPENED, IT SHOULD BE USED THAT DAY. PARTIALLY USED CONTAINERS MUST BE SEALED WHEN NOT IN USE.

(2) SERVICEABLE CONTENTS APPEAR AS A CLEAR WHITE TO PALE YELLOW LIQUID. IF THE CONTENTS HAVE THICKENED AND APPEAR CRYSTALLINE IN CONSISTENCY, THE CONTAINERS SHOULD BE RESEALED AND PROCESSED AS A HAZARDOUS WASTE IAW THE CURRENT EDITION OF REF E. REF F STATES UNSERVICEABLE COMPONENT "B", PUP, IS A HAZARDOUS WASTE, DUE TO

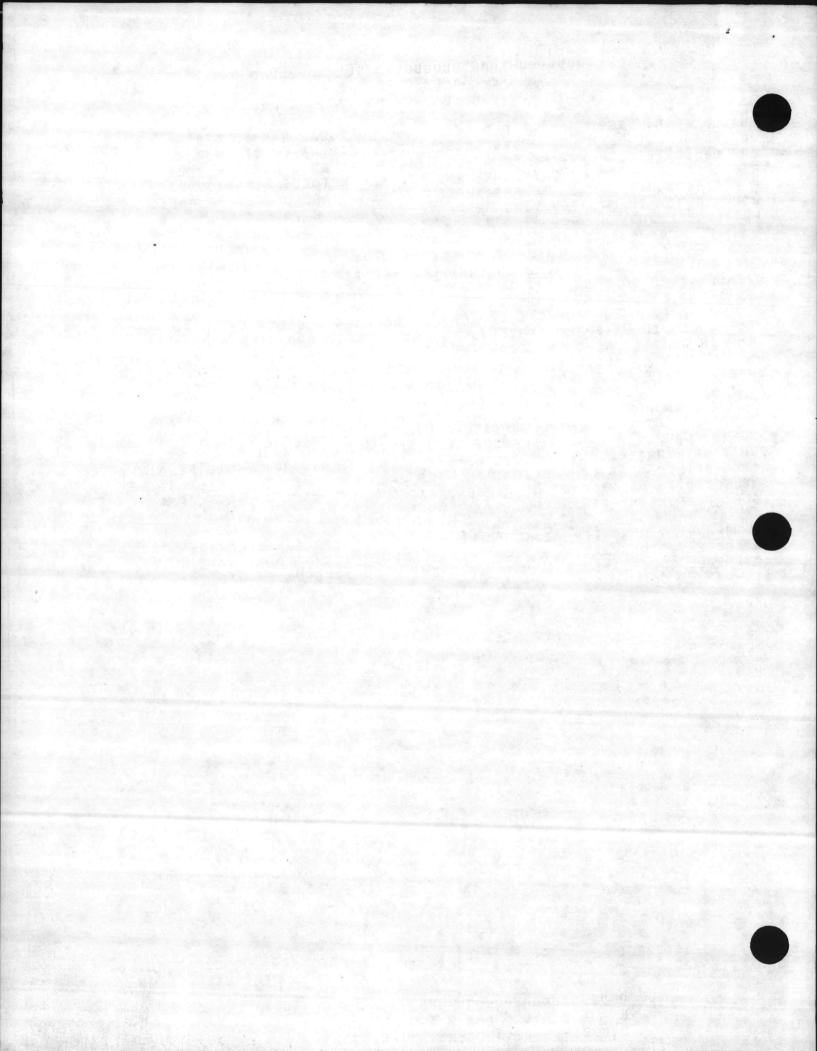
G. SURFACE. IT IS IMPERATIVE THAT THE SURFACE TO BE PAINTED IS ABSOLUTELY FREE OF ALL MOISTURE AND CLEAN; I.E., NO SANDING DEBRIS. CARBON DEPOSIT, GREASE, WAX, SALT, OIL, DIESEL FUEL, SOLVENTS OR HYDRAULIC/TRANSMISSION FLUID CONTAMINATION, INCLUDING DIRTY FINGERPRINTS. AFTER APPLICATION, THE PAINTED SURFACE SHOULD NOT BE SUBJECTED TO DRIVING RAIN OR PRESSURIZED WASH WATER FOR AT LEAST FOUR, PREFERABLY SIX HOURS.

PLANNING CONSIDERATIONS. THE EFFECTS OF CARC APPLICATION
ARRACTERISTICS REQUIRE THAT TOUCH-UP PAINTING OF CARC BE CONDUCTED
AS A WELL SUPERVISED AND PLANNED EVENT. FACTORS WHICH WILL IN-

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ROUTINE

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FM CG SECOND MARDIV

TO SECOND MARDIV

R 0202262 MAY 86

FH CHC WASHINGTON DC

TO CG FMFPAC
CG FMFLANT
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COMMARCORBASEPAC CAMP H M SMITH HI
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CG MCB CAMP PENDLETON CA
CG FOURTH MARDIV
CGTHIRDMARDIV
CGIMAF
CGSECONDMARDIV
CGTHIRDMAW

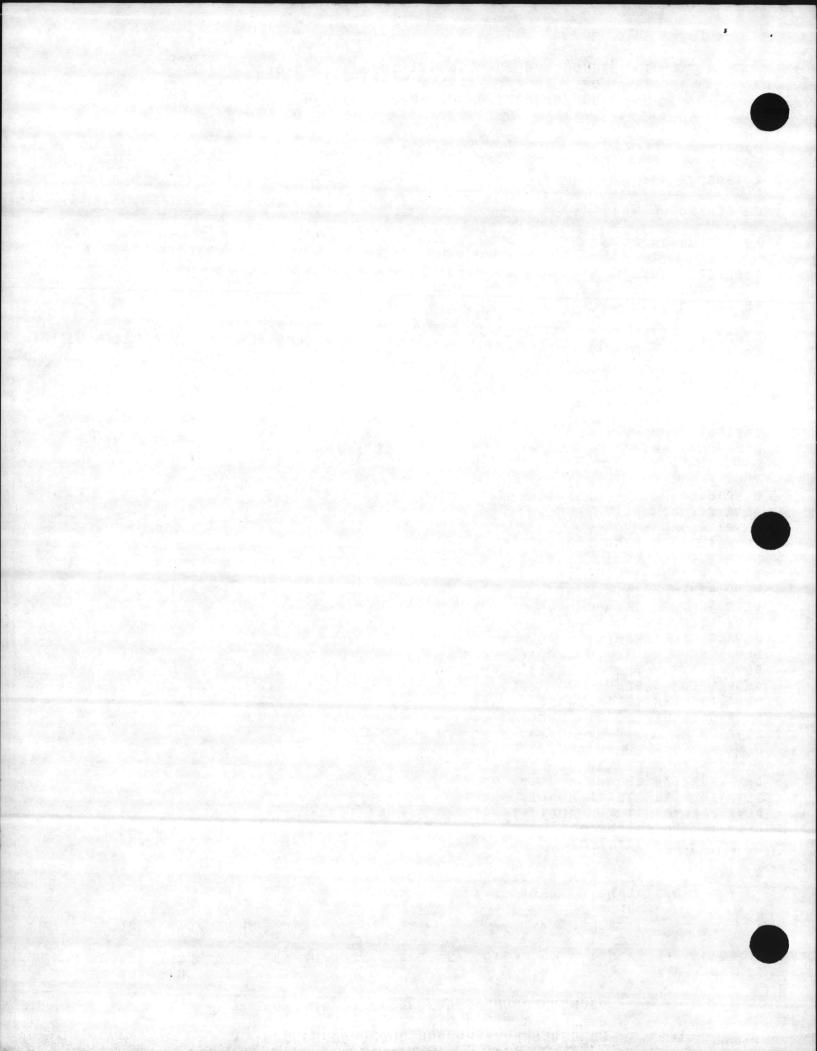
DLVR:SECOND CBTENGRBN(L) ... ACT DLVR:SECOND ASLTPHIBBN(10)...ACT LYR:SECOND LAVBN(2)...ACT LVR:THIRDBH SECOND MAR(1) ... ACT DLVR: EIGHTH MAR(1) ... ACT DLYR: SECOND MAR(1) ... ACT DLVR:SIXTH MAR(1) ... ACT DLVR:TENTH MAR(1) ... ACT DLYR: HQBN SECOND MARDIY(L) ... ACT DLVR:SECOND TKBH(L) ... ACT DLVR:SECONDBN TENTH MAR(1) ... ACT DLVR:FIRSTBN TENTH MAR(1)...ACT DLYR: SECOND RECOMBN(7) ... ACT DLYR: FIFTHBH TENTH MAR(1) ... ACT DLVR:SECONDBN EIGHTH MAR(1) ... ACT DLYR: THIRDBH SIXTH MAR(1) ... ACT DLVR:THIRDBH TENTH MAR(1) ... ACT DLYR: THIRDBH EIGHTH MAR(1) ... ACT DLVR:FIRSTBN SECOND MAR(1) ... ACT DLYR: FOURTHBH TENTH MAR(1) ... ACT DLVR:FIRSTBN SIXTH MAR(1)...ACT DLVR: TAB TENTH MAR(1) ... ACT DLVR: MAR DET UNITAS(2) ... ACT

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SPECIAL(1)...ORIG FOR CG SECOND MARDIV(1)
NOTE-DIST SAME AS SECT 01

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CGFIRSTMAN COMCABBEST EL TORO CA CG FIRST MAB CG THIRD FSSG FIRST FSSG MATSG HINE ZERO MILLINGTON TH

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FLUENCE THE SCHEDULING OF THE TOUCH-UP PAINTING ARE THE FOLLOWING: A. IN ACCORDANCE WITH REF G, THE VOLUME OF WORK FOR ONE PAINTER, USING A BRUSH OR A ROLLER, INDOORS OR OUTDOORS, HOT IN A CONFINED SPACE, CANNOT EXCEED ONE QUART PER DAY PER VEHICLE/ITEM OF EQUIPMENT AT ANY ONE TIME. THE INTENT OF THE GUIDANCE CONTAINED IN REF G IS TO PRECLUDE AN INDIVIDUAL FROM TOUCH-UP PAINTING WITH MORE THAN ONE QUART OF CARC PER DAY AND TO PRECLUDE MORE THAN ONE INDIVIDUAL FROM PAINTING A VEHICLE AT ONE TIME.

A DELAY OF UP TO AU DAYS MAY BE EXPERIENCED INITIALLY IN REQUESTING CARC THROUGH NORMAL SUPPLY CHANNELS. NATIONAL STOCK (1)

PUP TOP COAT, SPECIFICATION MIL-C-46168, QUART KIT HSH 8010-01-160-6741

--BROWH 353 -NSN 8010-01-160-6744 --BLACK -

NSN 8010-01-141-2419 SAHD -NSN 8010-01-141-2416

LIGHT GREEN -NSN 8010-01-141-2421 FOREST GREEN - NSN 8010-01-144-9888

DARK GREEN -HSH 8010-01-141-2412 FIELD DRAB -

NSN 8010-01-141-2414 -- HOTE -- COMPRISES THE WOODLAND, THREE-COLOR CAMOUFLAGE PATTERN; ANY ONE VEHICLE WILL BE APPROXIMATELY 44 PERCENT GREEN 383, 41 PER-CENT BLACK, AND 15 PERCENT BROWN 383 (SEE PARA 10).

(2) EPOXY PRIMER, FERROUS AND NON FERROUS SURFACES. SPECIFICATION MIL-P-53022. QUART KIT

MSN 8010-01-193-0516

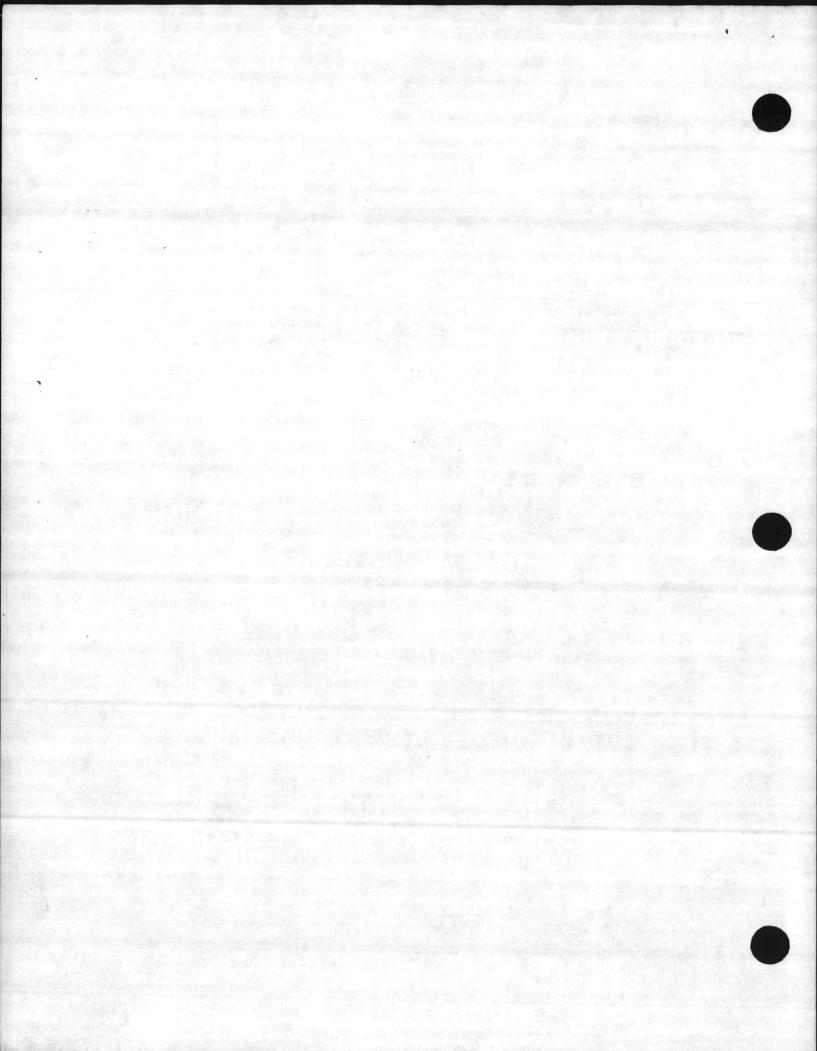
(3) PRIMER COATING, EPOXY, WATER REDUCIBLE, LEAD AND CHRO-MATE FREE, SPECIFICATION MIL-P-53030, ONE-QUART KIT NSN 8010-01-193-0519

= - NOTE - - THE ABOVE PRIMER IS THE ONLY PRIMER WHICH IS AUTHORIZED FOR USE WITHIN THE STATE OF CALIFORNIA (I.E., MEETS CALIFORNIA VOLATILE ORGANIC CHEMICALS (VOC) REQUIREMENTS). IT MAY, DEPENDING ON LOCAL REGU-LATIONS, BE AUTHORIZED IN OTHER STATES.

(4) EPOXY ENAMEL, INTERIOR APPLICATION, GLOSS WHITE,

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SPECIFICATION NIL-C-22750, TWO-QUART KIT NSN 8010-01-053-2647

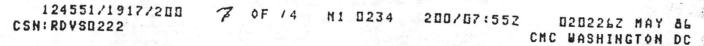
- (5) EPOXY ENAMEL, INTERIOR APPLICATION, SEMI-GLOSS SEAFOAM GREEN, SPECIFICATION MIL-C-22750, ONE-QUART KIT HSN A010-01-211-9645
- (L) THINNER, SPECIFICATION MIL-T-81722
 TYPE I FOR POLYURETHANE PAINT
 - OHE GALLOH NSN 8010-01-181-8080 - FIVE GALLON NSN 8010-01-181-8079

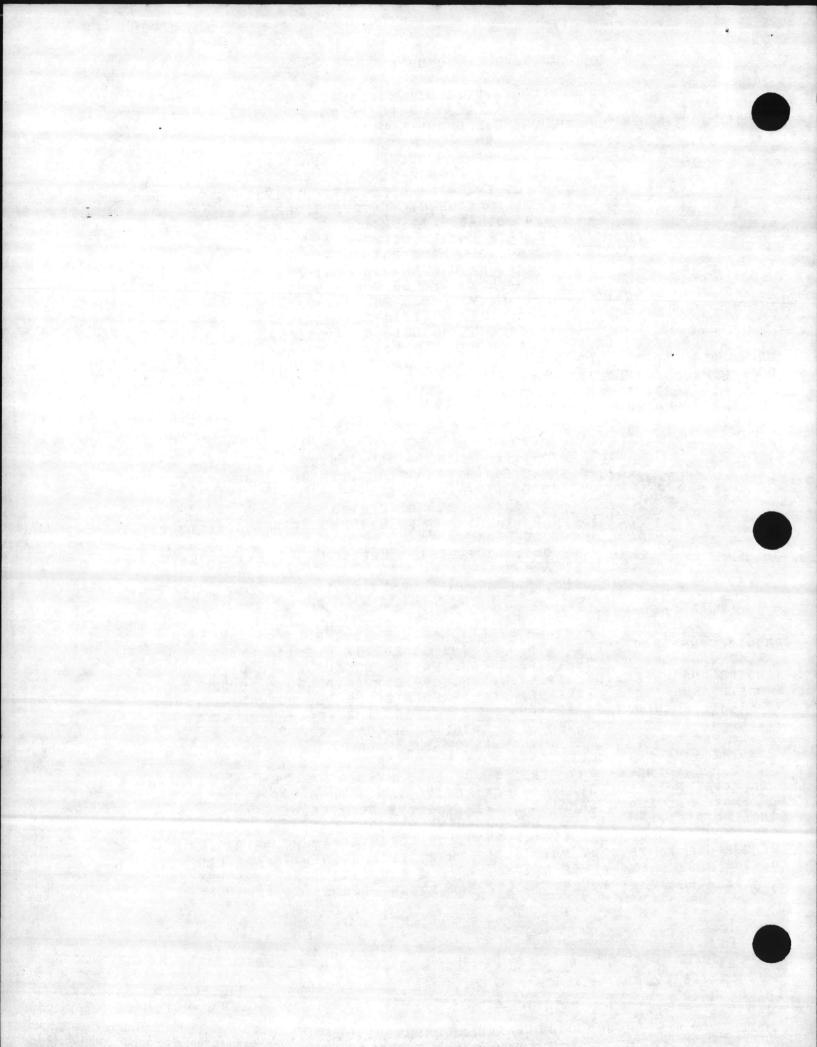
TYPE II FOR EPOXY ENAMEL AND PRIMER

- ONE GALLON HSN 8010-01-200-2637 - FIVE GALLON NSN 8010-01-212-1704
- C. A MIXED GALLON KIT OF PUP TOP COAT OR EPE WILL COVER IN BRUSH APPLICATION APPROXIMATELY 400 SQUARE FEET; A MIXED QUART WILL COAT APPROXIMATELY 100 SQUARE FEET.
- D. APPROXIMATE DRY AND CURE TIMES ARE THE FOLLOWING, GIVEN SUBSTRATE AND ENVIRONMENTAL TEMPERATURE MAINTAINED AT APPROXIMATELY 70 DEGREES F:
 - (1) EPOXY PRIMERS
 - (A) DRY-TO-TOUCH 20 TO 30 MINUTES
 - (B) SUITABLE FOR OVERCOATING WITH PUP 30 MINUTES
 - (2) POLYURETHANE PAINT TOPCOAT
 - (A) DRY-TO-TOUCH 20 TO 30 MINUTES
 - (B) THOROUGHLY DRY 4 TO 6 HOURS (TEMP MAINTAINED ABOVE 60 DEGREES F)
 - (C) DRY FOR IMPACT RESISTANCE (E.G., WALKING ON IT) -
 - (D) CURED THOROUGHOUT 7 TO 14 DAYS

5. SURFACE PREPARATION

- A. SCRATCHES OR OTHER LIGHT DAMAGE TO THE PUP TOPCOAT WILL REQUIRE BUFF SANDING CONFINED TO THE IMMEDIATE BLEMISHED AREA.
- B. DAMAGE OR CORROSION EXTENDING TO THE SUBSTRATE WILL REQUIRE SANDING AND REPRINING. ALL EVIDENCE OF CORROSION MUST BE ABRADED FROM THE SUBSTRATE. THE SURFACE IMMEDIATELY SURROUNDING THE EXPOSED-SUBSTRATE SHOULD THEN BE SANDED, UTILIZING THE FEATHEREDGING TECHNIQUE. THAT IS, SAND AWAY THE PAINT FILM (PRIMER AND TOPCOAT) IN SUCH A FASHION THAT THE THICKNESS OF THE FILM IS SMOOTHLY TAPERED FROM THE BARE NETAL/SUBSTRATE TO THE TOP OF THE PAINT FILM.
- C. SANDING OF ANY TYPE IS FOLLOWED BY WIPING DOWN THE EXPOSED AREA TO BE PAINTED USING A CLEAN RAG WETTED WITH MIL-T-B1722 THINNER TO REMOVE ALL LOOSE SANDING DEBRIS, MILL SCALE, GREASE, OIL, DIRTY FINGERPRINTS, AND DIESEL FUEL/GASOLINE RESIDUE. DO NOT USE OTHER PETROLEUM OR ALCOHOL-BASED THINNERS OR CLEANING AGENT OF ANY KIND. THE SURFACE TO BE SPOT PAINTED IS THEN WIPED DOWN WITH A CLEAN DRY-RAG TO ENSURE REMOVAL OF ALL MOISTURE. PERSONS USING RAGS WETTED WITH MIL-T-B1772 THINNER SHOULD WEAR RUBBER GLOVES TO PRECLUDE



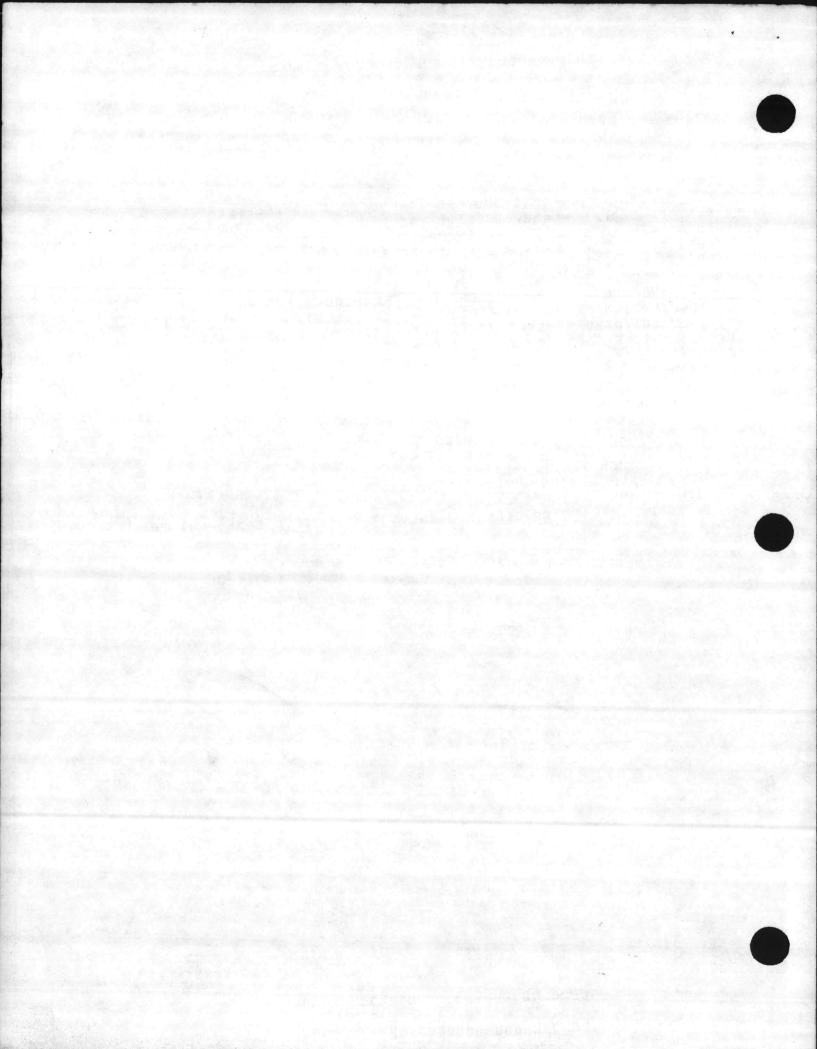


ABSORPTION AND DEFATTING (I.E., THE THINNER WILL ABSORB NATURAL OILS IN THE SKIN, RESULTING IN DRYING AND CRACKING OF THE SKIN) OF THE HANDS CAUSED BY THE THINNER.

6. MIXING.

- A. MIXING OPERATIONS MUST BE CONDUCTED IN A WELL VENTILATED AREA AWAY FROM OPEN FLAME, WELDING TORCHES, AND COMBUSTION HEATERS (SEE PARAGRAPH BC BELOW). PERSONNEL DOING THE MIXING SHOULD WEAR FULL FACE SHIELD AND CLOTHES PROVIDING FULL SKIN COVERAGE, ESPECIALLY GLOVES. DROPLETS OF MIXED PUP AND EPE ON THE SKIN HARDEN QUICKLY AND ARE DIFFICULT TO REMOVE.
- B. COMPONENT "A" OF THE EPE WILL REQUIRE STIRRING TO ENSURE EVEN DISTRIBUTION OF ALL INGREDIENTS. COMPONENT "A", PUP, MUST BE THOROUGHLY AGITATED BY SHAKING OR STIRRING FOR UP TO 30 MINUTES TO ENSURE SOLIDS SETTLED TO THE BOTTOM OF THE CONTAINER ARE AGAIN PLACED INTO SUSPENSION AS A SMOOTH HOMOGENOUS LIQUID. IF MECHANICAL PAINT SHAKERS ARE NOT AVAILABLE A PAINT STIRRING ACCESSORY FOR AN AIR DRILL MAY BE USED. --CAUTION-- DON'T USE AN ELECTRIC DRILL AS IT MAY CAUSE AN IGNITION/EXPLOSION OF THE PAINT.
- C. SEE PARA 3.A. FOR MIXING OF CARC PAINT COMPONENTS. RECOM-MEND THE FOLLOWING DISPOSABLE PAILS:
 - (1) FOR MIXING A ONE-QUART KIT PAIL, FIVE PINT, MSN 7240-00-889-3785
 - (2) FOR MIXING A ONE-GALLON KIT PAIL, FIVE QUART, NSN 7248-00-061-1163
 - D. COMPONENT "B" SHOULD BE SLOWLY STIRRED INTO COMPONENT "A"

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FM CG SECOND MARDIY

TO SECOND MARDIY

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FM CHC WASHINGTON DC

TO CG FMFPAC
CG FMFLANT
CGMCDEC QUANTICO VA
CG MCB CAMP BUTLER JA
CG III MAF
CG SECOND MAW
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CG FOURTH MAW

COMMARCORBASEPAC CAMP H M SMITH HI
CG II MAF
CG NCB CAMP PENDLETON CA
CG FOURTH MARDIV
CGTHIRDMARDIV
CGIMAF
CGSECONDMARDIV
CGTHIRDMAN

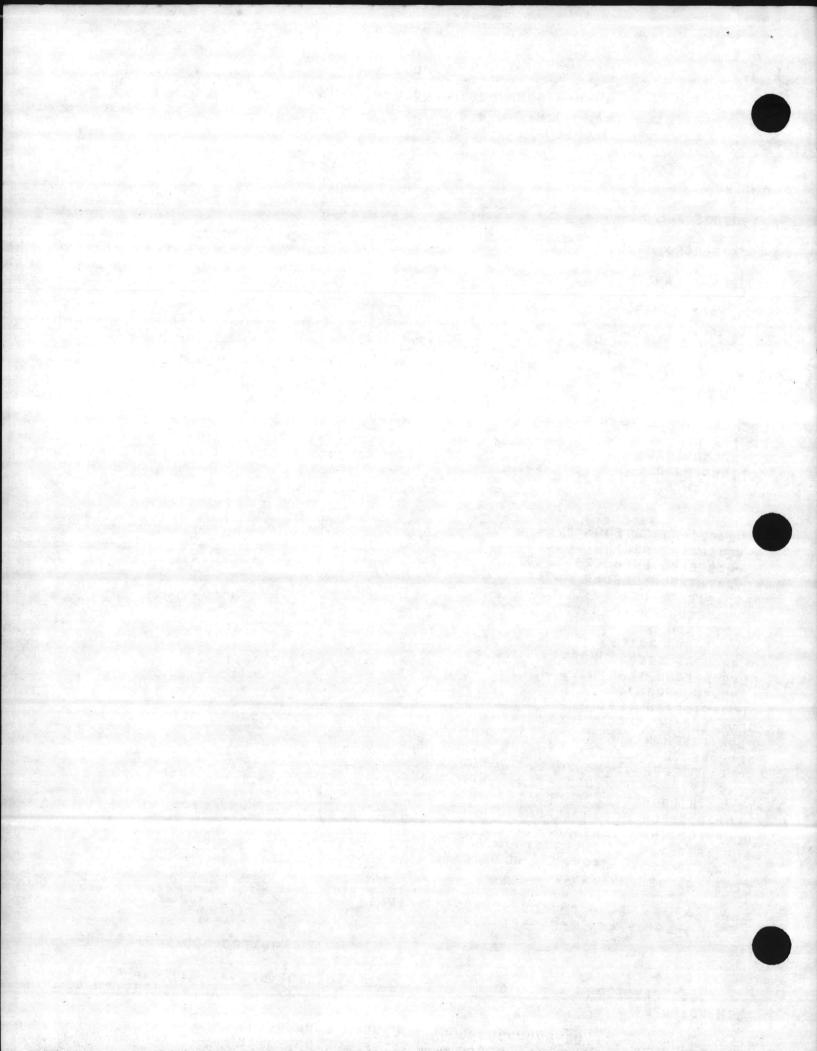
LYRISECOND CBTENGRBH(L)...ACT DLVR:SECOND ASLTPHIBBN(10) . . . ACT DLVR:SECOND LAVBN(2)...ACT DLYR: THIRDBH SECOND MAR(1) ... ACT DLYR: EIGHTH MAR(1) ... ACT DLVR:SECOND MAR(1)...ACT DLVR:SIXTH MAR(1)...ACT DLVR:TENTH MAR(1) ... ACT DLYR : HOBN SECOND MARDIY(L) . . . ACT DLVR:SECOND TKBH(L) ... ACT DLVR:SECONDBN TENTH MAR(1) ... ACT DLVR:FIRSTBN TENTH MAR(1)...ACT DLYR:SECOND RECOMBN(7)...ACT DLYR: FIFTHBN TENTH MAR(1) ... ACT DLVR:SECONDBN EIGHTH MAR(1) ... ACT DLYR: THIRDBN SIXTH MAR(1) ... ACT DLVR:THIRDBN TENTH MAR(1)...ACT DLVR:THIRDBH EIGHTH MAR(1)...ACT DLYR: FIRSTBH SECOND MAR(1) ... ACT DLYR: FOURTHBN TENTH MAR(1) ... ACT DLVR:FIRSTBN SIXTH MAR(1)...ACT DLYR: TAB TENTH MAR(1) ... ACT DLVR:MAR DET UNITAS(2)...ACT

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SPECIAL(1)...ORIG FOR CG SECOND MARDIY(1)
NOTE-DIST SAME AS SECT D1

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MCLB ALBANY GA
CG NCLB BARSTOW CA
CG MCB CAMP LEJEUNE NC
CG SECOND FSSG
COMCABEAST CHERRY PT NC
MARBKS GUANTANAMO BAY CU

CGFIRSTMAN
COMCABNEST EL TORO CA
CG FIRST MAB
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BT UHCLAS //NO4750// SECTION 03 OF 04

WHEN MIXING EITHER EPE OR PUP. THE BLENDED CONTENTS OR ADMIX SHOULD BE STIRRED FOR ABOUT 15 MINUTES OR UNTIL THE MIXED CONTENTS FORM A SMOOTH HONOGEHOUS LIQUID. IF NECESSARY, THE EPE OR PUP ADMIX SHOULD BE THINNED WITH MIL-T-81722 THINNER TO A VISCOSITY PERMITTING SMOOTH BRUSH APPLICATION. DO NOT USE ANY OTHER THINNER. THE EPE ADMIX MUST THEN BE ALLOWED TO STAND 30 MINUTES PRIOR TO USE; THE PUP

E. IMMEDIATE CLEAN-UP OF MIXING AND PAINTING ACCESSORIES USING MIL-T-81772 THINNER IS NECESSARY TO MAINTAIN SERVICEABILITY AND PRE-CLUDE CONTAMINATION OF FUTURE MIXING AND PAINTING OF CARC. PERSONS CLEANING THESE ACCESSORIES SHOULD WEAR A FULL FACE SHIELD, CLOTHES PROVIDING FULL SKIN COVERAGE AND RUBBER GLOVES TO PREVENT ABSORPTION AND DEFATTING OF THE HANDS CAUSED BY THE THINNER.

APPLICATION.

A. GENERAL. TOUCH-UP PAINTERS APPLYING EPE AND/OR PUP BY BRUSH OR ROLLER MUST WEAR CLOTHING AND GLOVES AFFORDING FULL SKIN COVERAGE. APPLICATIONS MUST BE IN ACCORDANCE WITH REF G WHICH IS APPLICABLE TO ALL PAINTS/COATINGS (SEE PARA 4.A)

B. EPOXY PRIMER. APPLY EVENLY IN ONE COAT OVER EXPOSED SUB-STRATE; APPLY OVER PORTIONS OF EXPOSED ORIGINAL PRIMER COAT UTI-LIZING "FEATHERING IN TECHNIQUE", I.E., TAPERING OFF QUANTITY APPLIED TO A FINE EDGE. AFTER APPLICATION, ENSURE IMMEDIATE CLEAN UP OF ALL EQUIPMENT.

C. POLYURETHANE PAINT (PUP)

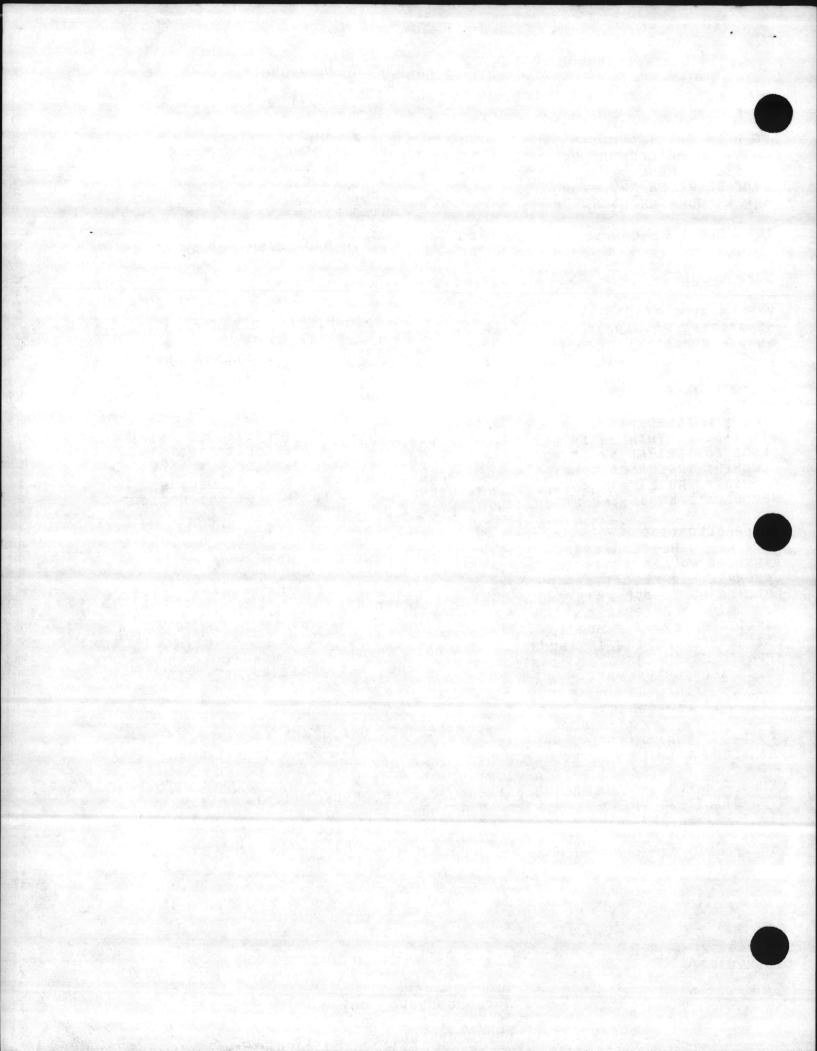
(1) GENERAL.

(A) ENSURE THAT SURFACE OVER WHICH PUP IS APPLIED IS PETROLEUM RESIDUE AND GRAHULAR DEBRIS OF ANY KIND.

(B) PUP IS A HIGH SOLIDS COATING. APPLY EVENLY TO ENSURE CONFORMANCE WITH THE ORIGINAL COAT SURROUNDING THE PAINTED AREA UTILIZING THE "FEATHERING IN TECHNIQUE". TOO MUCH PUP MAY IN-HIBIT PROPER DRYING/CURING OF THE PUP COAT AND THE EPOXY PRIMER.

(2) APPLICATION OVER EPOXY PRIMER (EP). ALLOW THE PRIMER COAT TO AIR DRY A MINIMUM OF 20 MINUTES OR UNTIL DRY TO THE TOUCH

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BEFORE TOP-COATING WITH PUP. EP, WHICH HAS BEEN ALLOWED TO DRY MORE THAN 24 HOURS (ESPECIALLY WHEN "BAKED" IN THE HOT SUN) MAY REQUIRE LIGHT SCUFF SANDING TO ENSURE PROPER PUP ADHERENCE.

(3) APPLICATION OVER PUP. RECOATING MAY BE PERFORMED WHEN ORIGINAL COATING IS TACKY. ONCE THE ORIGINAL PUP COAT HAS CURED FOR 14 DAYS OR MORE (ESPECIALLY WHEN "BAKED" IN THE HOT SUN) LIGHT SCUFF SANDING MAY BE REQUIRED TO ENSURE PROPER ADHERENCE.

(4) SPOT PAINTING OVER ALKYD. PUP CAN BE APPLIED OVER A WELL CURED (I.E., 90 DAYS) ALKYD PAINT. THE ALKYD COATING MUST BE SOUND (E.G., HO CORROSION, HO SUBSTRATE SHOWING) AND ABSOLUTELY FREE OF ABSORBED OR DEPOSITED CARBON, SALT, DIESEL FUEL, GASOLINE, OILS, HYDRAULIC/TRANSMISSON FLUIDS, SOLVENTS, WAX, ETC.

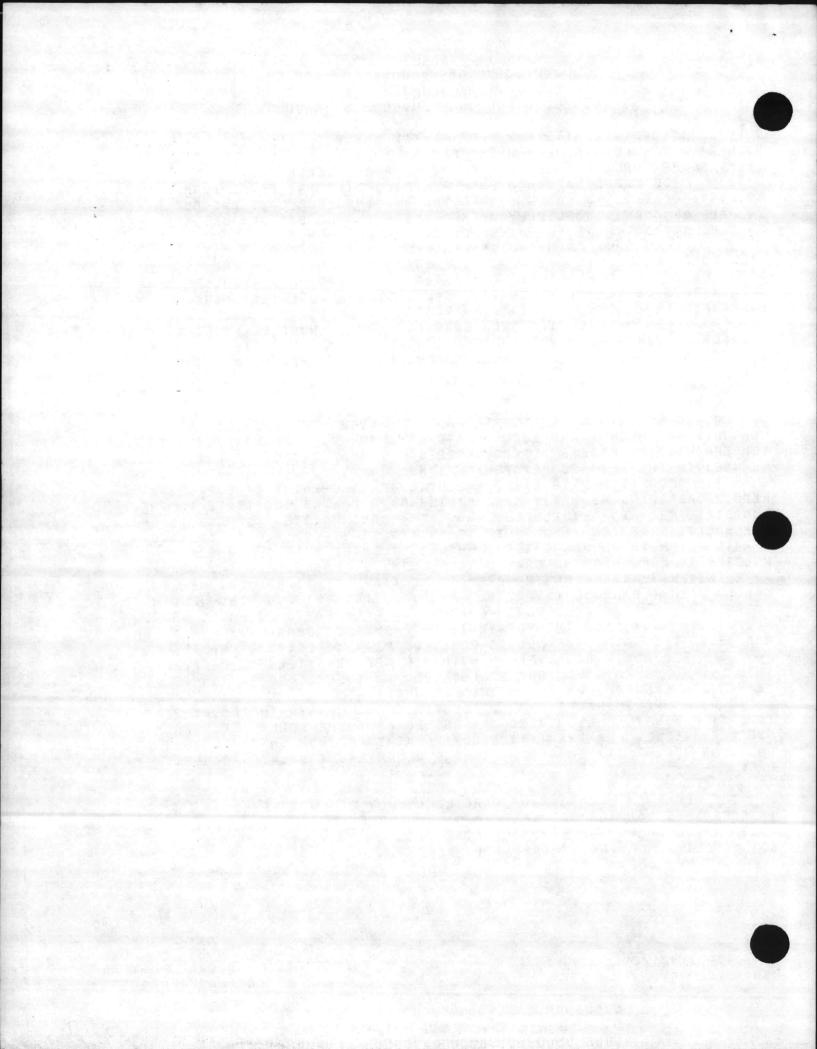
(5) APPLICATION OVER LACQUER. PUP CANNOT BE APPLIED OVER LACQUER COATINGS OR VINYL. THE LACQUER MUST BE COMPLETELY REMOVED NECESSITATING REPRINING WITH EPOXY PRIMER AND APPLICATION OF PUP TOPCOAT.

A. MISCELLANEOUS.

- A. CARC SHOULD NOT BE SPOT PAINTED OVER SURFACES SUCH AS EXHAUSTS, MUFFLERS, AND TURBO-CHARGERS WHICH WILL BE SUBJECTED TO TEMPERATURES IN EXCESS OF 400 DEGREES F. HEAT RESISTANT PAINT MUST BE USED IN THESE TYPES OF APPLICATIONS.
- B. AS PROVIDED IN REF D. WELDING OF CARC-PAINTED SURFACES WILL REQUIRE ABRADING AWAY THE CARC FINISH DOWN TO THE SUBSTRATE IN THE MEDIATE AREA TO BE WELDED. AND, IF A CARC PAINTED SURFACE IS ON E BACKSIDE OF THE WELD SPOT. IT MUST ALSO BE ABRADED TO THE SUBTRATE PRIOR TO WELDING, I.E., ON CARC PAINTED SURFACES WHERE WELDING IS REQUIRED THE CARC FINISH MUST BE REMOVED FROM AT LEAST FOUR INCHES SURROUNDING THE AREA OF HEAT APPLICATION. FAILURE TO COMPLY WITH THE ABOVE MAY RESULT IN TOXIC POISONING DURING WELDING OPERATIONS. AFTER WELDING IS COMPLETED, ALL CRAZED SURFACES SHOULD BE ABRADED AWAY FROM THE SUBSTRATE TO ENSURE CONDENSATION FORMED ON AND BELOW THE PAINT SURFACE IS REMOVED PRIOR TO EPOXY REPRIMING.
- C. PUP ADMIX HAS A FLASH POINT OF APPROXIMATELY 34 DEGREES F. THIS LOW FLASH POINT IS DUE EXCLUSIVELY TO THE INCORPORATION OF METHYL ETHYL KETONE (MEK) IN THE FORMULATION.
- D. CARC SURFACES CAN BE IDENTIFIED BY WETTING A RAG WITH ACE-TONE (I.E., HAIL POLISH RENOVER) AND RUBBING THE FULLY CURED PAINTED SURFACE BRISKLY FOR TWENTY SECONDS. PAINT RESIDUE ON THE RAG INDI-CATES AN ALKYD PAINTED SURFACE AND A CLEAN RAG INDICATES A CARC SUR-FACE.
- 9. THE SPRAY APPLICATION OF CARC WILL ONLY BE AUTHORIZED AT THE INTERMEDIATE MAINTENANCE LEVEL AND ABOVE DUE TO THE PROHIBITIVE COSTS INVOLVED FOR ADDITIONAL FACILITIES.

 10. CARC, 3-CCP AND FIELDED EQUIPMENT.
 - A. PER THE GUIDANCE RECEIVED DURING REF H ACTION ADDRESSEES

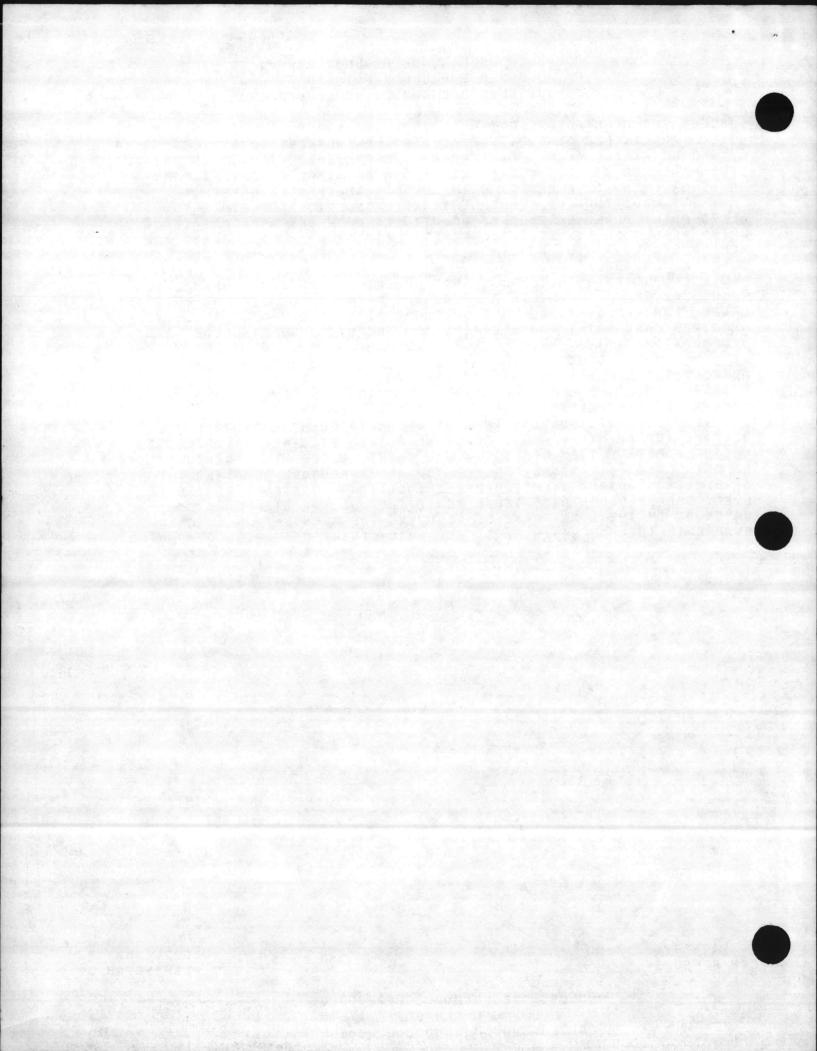
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(EXCEPT THE MCLB'S) ARE NOT AUTHORIZED TO APPLY 3-CCP'S TO ANY ITEM. ACTION ADDRESSEES (EXCEPT THE MCLB'S) ARE AUTHORIZED ONLY TO TOUCH UP A CARC FINISH (E.G., EITHER AN ITEM FINISHED WITH GREEN 383 OR AN ITEM FINISHED W/THE 3-CCP BY EITHER AN ORIGINAL EQUIPMENT MANUFACTURER (OEM) OR A DEPOT) WITH CARC AS DELINEATED HEREIN.

- B. ADDITIONALLY, EQUIPMENT WHICH IS PRIMARILY FINISHED WITH ALKYD PAINT SHALL BE TOUCHED UP WITH CARC IN THE APPROPRIATE COLORS WHICH RESULT IN THE BEST COLOR MATCH (SEE PARA 4.B). UNITS ARE REMINDED ALKYD PAINT REQUIRES 90 DAYS TO COMPLETELY AIR CURE TO INSURE PROPER ADMESTON OF CARC.
- C. IN THE EVENT CARC IS NOT AVAILABLE FOR TOUCH-UP, ALKYD PAINT CAN BE USED ONLY IF A WAIVER/APPROVAL IS GRANTED AT THE FORCE LEVEL. WAIVER APPROVAL MUST BE PREDICATED ON NON AVAILABILITY OF REQUIRED CARC PAINT AND OPERATIONALLY REQUIRED TO PRECLUDE READINESS DEGRADATION.
- D. WHILE CARC CAN BE APPLIED OVER PROPERLY CURED ALKYD PAINT, ALKYD PAINT CAN NOT BE APPLIED OVER CARC, AND ACHIEVE PROPER ADHESION (I.E., THE ALKYD PAINT WILL, REGARDLESS OF THE SURFACE PREPARATION, EVENTUALLY CHIP AND/OR PEEL OFF A CARC FINISH WITH MIMINUM FRICTION). ADDITIONALLY, THE USE OF ALKYD PAINT OVER CARC WILL DEGRADE THE CHEMICAL AND BIOLOGICAL AGENT RESISTANT CAPABILITIES OF A CARC FINISHED ITEM BECAUSE ALKYD PAINT ABSORBS THE AGENTS (WHERE AS CARC DOES NOT ABSORB THE AGENTS) AND THEREFORE REQUIRES THE USE OF DECONTAMINATING SOLUTION NO. 2 (DS2). A PURE CARC FINISH HOWEVER, CAN BE DECONTAMINATED USING EITHER DS2 OR STEAM AND SOAPY WATER OR IN THE WORST CASE BY ALLOWING THE AGENTS TO NATURALLY EVAPORATE THROUGH WEATHERING; FOR WHICH THE TIME VARIES DEPENDING

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CG MCB CAMP BUTLER JA
CG III MAF
CG SECOND MAW
CGFIRST MARDIV
CG FOURTH MAW

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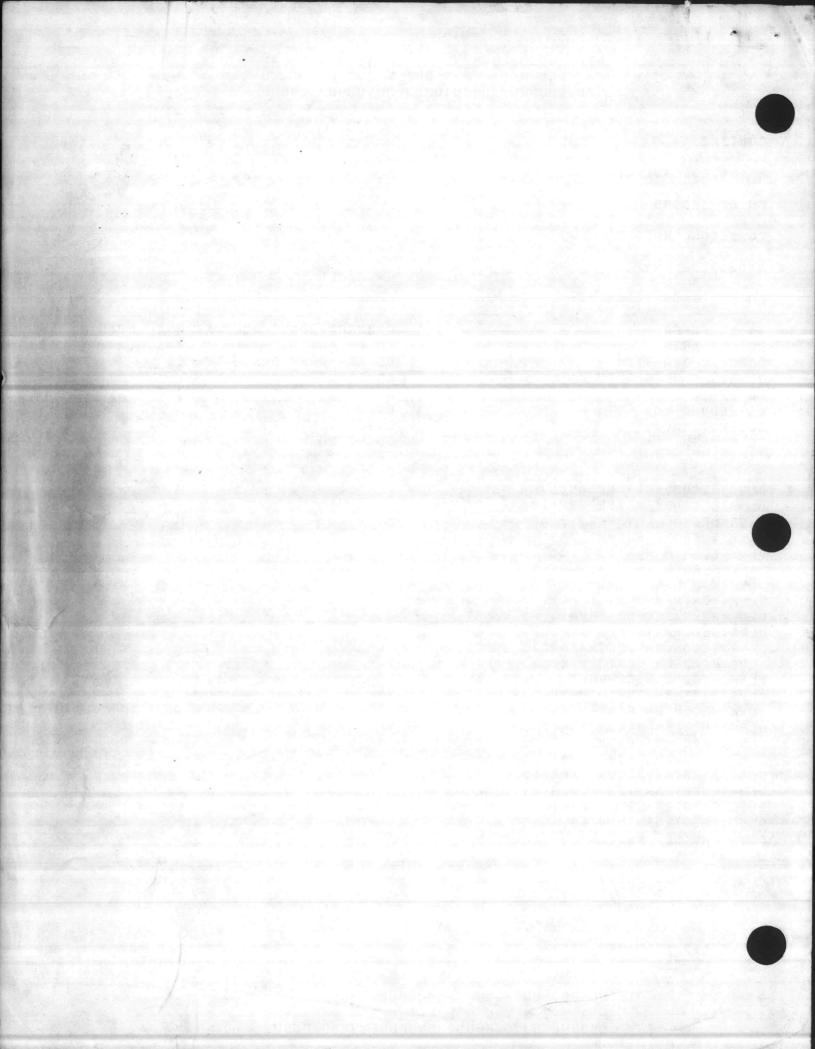
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SPECIAL(1)...ORIG FOR CG SECOND MARDIV(1)
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ON THE SUNLIGHT, TEMPERATURE, WIND, DIRT ON THE ITEM AND THE AGENTS EMPLOYED BY THE ENEMY.

11. COMPLETE GUIDANCE ON CARC AND 3-CCP PAINTING WILL BE FURNISHED IN REF I WHICH IS ANTICIPATED TO BE AVAILABLE FOR FORMAL PUBLICA-TION TO THE FIELD DURING 4TH OTR FYEL. ADDITIONAL GUIDANCE REGARD-ING THE USE OF CARC PAINT CAN BE FOUND IN THE NOVEMBER 1985 ISSUE OF "THE PREVENTIVE MAINTENANCE MONTHLY" (PS MAGAZINE) ON PAGES 28-36. THIS MESSAGE IS TO RECEIVE WIDEST DISSEMINATION AND TO BE RETAINED IN ALL APPROPRIATE TURNOVER FOLDERS UNTIL REF I IS RECEIVED.

13. ADDITIONAL GUIDANCE FOR THE DNA'S WILL BE PUBLISHED IN A SEPARATE MESSAGE DURING MAY 1986.

POC AT THIS HOTRS (CODE LME-3) IS CAPT R. L. TAKACS, 225-3041/3460.

