

UNCLASSIFIED//

RTTUZYUW RUOIAAA0017 1020050-UUUU--RHMCSUU.

ZNR UUUUU

R 110050Z APR 20 MID110000572608U

FM COMNAVSEASYS COM WASHINGTON DC

TO COMNAVAIRLANT NORFOLK VA

COMNAVAIRPAC SAN DIEGO CA

COMNAVSURFLANT NORFOLK VA

COMNAVSURFPAC SAN DIEGO CA

INFO NAVSUP WEAPON SYSTEMS SUPPORT MECHANICSBURG PA

COMSUBPAC PEARL HARBOR HI

COMSUBLANT NORFOLK VA

COMSC NORFOLK VA

COMNAVSUPSYSCOM MECHANICSBURG PA

NAVSURFWARCENDIV PHILADELPHIA PA

COMNAVSAFECEN NORFOLK VA

COMPACFLT PEARL HARBOR HI

COMUSFLTFORCOM NORFOLK VA

NRL WASHINGTON DC

SUPSHIP BATH ME

SUPSHIP GULF COAST MS

SUPSHIP NEWPORT NEWS VA

NAVSHIPYD AND IMF PEARL HARBOR HI

NAVSHIPYD AND IMF PUGET SOUND WA

NAVSHIPYD NORFOLK VA

COMNAVRMC NORFOLK VA

MARMC NORFOLK VA

FDRMC NAPLES IT

FDRMC DET BAHRAIN

FDRMC DET ROTA SP

NAVSHIPREPFAC AND JAPAN RMC DET SASEBO JA

NAVSHIPREPFAC AND JAPAN RMC YOKOSUKA JA

SOUTHEAST RMC MAYPORT FL

SOUTHWEST RMC SAN DIEGO CA

PEO SHIPS WASHINGTON DC

PEO USC WASHINGTON DC

PEO CARRIERS WASHINGTON DC

BT

UNCLAS

PASS TO OFFICE CODES:

TO COMNAVAIRLANT NORFOLK VA/N43/N41/

COMNAVAIRPAC SAN DIEGO CA/N43/N41/

COMNAVSURFLANT NORFOLK VA/N43/N41/

COMNAVSURFPAC SAN DIEGO CA/N43/N41/

INFO NAVSUP WEAPON SYSTEMS SUPPORT MECHANICSBURG PA/N26/

COMSUBPAC PEARL HARBOR HI/N02M/

COMSUBLANT NORFOLK VA/N43/

COMNAVSUPSYSCOM MECHANICSBURG PA/N41/

NAVSURFWARCENDIV PHILADELPHIA PA/335/

COMNAVSAFECEN NORFOLK VA/31/

COMNAVSEASYSYSCOM WASHINGTON DC/04X/05Z/05P/05V/05D/

COMPACFLT PEARL HARBOR HI/N43/N41/N46/

COMUSFLTFORCOM NORFOLK VA/N43/N41/N46/

NRL WASHINGTON DC/6000/

SUPSHIP NEWPORT NEWS VA/200/

SUPSHIP BATH ME/200/

SUPSHIP GULF COAST MS/200/

NAVSHIPYD AND IMF PEARL HARBOR HI/200/
NAVSHIPYD AND IMF PUGET SOUND WA/200/240/
NAVSHIPYD NORFOLK VA/200/240/
COMNAVRMC NORFOLK VA/100/200/
MARMC NORFOLK VA/200/300/900/
FDRMC NAPLES IT/100/
FDRMC DET BAHRAIN/100/
FDRMC DET ROTA SP/100/
NAVSHIPREPFAC AND JAPAN RMC DET SASEBO JA/200/
NAVSHIPREPFAC AND JAPAN RMC YOKOSUKA JA/200/
SOUTHEAST RMC MAYPORT FL/200/300/900/
SOUTHWEST RMC SAN DIEGO CA/200/300/900/
PEO SHIPS WASHINGTON DC/PMS317/PMS325/PMS377/PMS400D/PMS500/
PEO USC WASHINGTON DC/PMS501/PMS505/
PEO CARRIERS WASHINGTON DC/PMS312/PMS378/
SECINFO/U/-//
MSGID/GENADMIN,USMTF,2008/COMNAVSEASYSCOM WASHINGTON DC//
SUBJ/FLEET ADVISORY 03-2020 - SUPPLEMENTAL GUIDANCE FOR
/SURFACE SHIPS AND AIRCRAFT CARRIERS REGARDING USE OF
/CORONAVIRUS DISINFECTANT PRODUCTS AND PROCEDURES IN
/HABITABILITY SPACES//
REF/A/MSGID:WEBSITE/CDC WEBSITE/-//
REF/B/MSGID:DOC/NMCPHC/25MAR2020//
REF/C/MSGID:MSG/COMNAVSEASYSCOM/031131ZAPR2020//
REF/D/MSGID:MSG/PEO CARRIERS/031820ZAPR2020//
REF/E/MSGID:WEBSITE/EPA WEBSITE/-//
REF/F/MSGID:WEBSITE/CDC WEBSITE/-//
REF/G/MSGID:DOC/NAVSEA/SEP2014//
REF/H/MSGID:DOC/BUMED/10APR2020//

NARR/REF A IS CDC WEBSITE GUIDANCE FOR DISINFECTION.

[HTTPS://WWW.CDC.GOV/CORONAVIRUS/2019-NCOV/PREVENT-GETTING-SICK/CLEANING-DISINFECTION.HTML?CDC_AA_REFVAL=HTTPS%3A%2F%2FWWW.CDC.GOV%2FCORONAVIRUS%2F2019-NCOV%2FPREPARE%2FCLEANING-DISINFECTION.HTML](https://www.cdc.gov/coronavirus/2019-nCoV/prevent-getting-sick/cleaning-disinfection.html?CDC_AA_REFVAL=https%3A%2F%2Fwww.cdc.gov%2Fcoronavirus%2F2019-nCoV%2Fprepare%2Fcleaning-disinfection.html)

REF B IS NAVY MARINE CORPS PUBLIC HEALTH CENTER GUIDANCE FOR UNDERWAY EVALUATION AND MANAGEMENT FOR 2019 NOVEL CORONAVIRUS.

REF C IS NAVSEA FLEET ADVISORY 01-2020, GUIDANCE FOR SURFACE SHIPS - CORONAVIRUS DISINFECTANT PRODUCTS AND PROCEDURES.

REF D IS PEO CARRIERS CLASS ADVISORY PEOCVN-001-2020 - GUIDANCE FOR AIRCRAFT CARRIERS CORONAVIRUS DISINFECTANT PRODUCTS AND PROCEDURES.

REF E IS EPA WEBSITE FOR COVID-19 RECOMMENDED DISINFECTANT PRODUCTS.
[HTTPS://WWW.EPA.GOV/PESTICIDE-REGISTRATION/LIST-N-DISINFECTANTS-USE-AGAINST-SARS-COV-2](https://www.epa.gov/pesticide-registration/list-n-disinfectants-use-against-sars-cov-2)

REF F IS CDC WEBSITE GUIDANCE FOR PREVENTION.

[HTTPS://CDC.GOV/CORONAVIRUS/2019-NCOV/PREVENT-GETTING-SICK/PREVENTION](https://cdc.gov/coronavirus/2019-nCoV/prevent-getting-sick/prevention.html)
.HTML

REF G IS NAVY TACTICAL REFERENCE PUBLICATION NTRP 4-02.10 - GUIDANCE FOR QUARANTINE AND ISOLATION.

REF H IS EMAIL FROM BUMED (CAPT STEVENS) TO NAVSEA (P. RUSSO) PROVIDING BUMED CONCURRENCE.//

POC/B. PLUNKETT/CIV/UNIT:SEA 05V1/NAME:WNY BLDY 176/TEL:202-907-6467
/EMAIL:BRYAN.PLUNKETT@NAVY.MIL//

POC/R.NEUERMAN/MIL/UNIT:SEA 05D5/NAME:WNY BLDG 197/TEL:202-781-5325
/EMAIL:REOBERT.A.NEUERMAN@NAVY.MIL//

GENTEXT/REMARKS/1. PURPOSE: THIS MESSAGE IS A PRODUCT OF THE NAVAL COVID-19 RAPID RESPONSE TEAM (NCR2T). THIS MESSAGE (MSG)

PROVIDES SURFACE SHIPS AND AIRCRAFT CARRIERS (CVN) WITH

SUPPLEMENTAL GUIDANCE FOR SELECTING AND USING

PRODUCTS EFFECTIVE AGAINST SEVERE ACUTE RESPIRATORY

SYNDROME CORONAVIRUS 2 (SARS-COV-2), THE PATHOGEN WHICH CAUSES NOVEL CORONAVIRUS DISEASE 2019 (COVID-19), FOR USE IN SHIPBOARD HABITABILITY SPACE APPLICATIONS.

2. THIS MSG IS APPLICABLE TO ALL U.S. NAVY SURFACE SHIPS INCLUDING AIRCRAFT CARRIERS. SUBMARINES SHOULD FOLLOW GUIDANCE AS PROVIDED BY THEIR TYCOM. THIS GUIDANCE APPLIES TO PRODUCT SELECTION AND USE IN HABITABILITY SPACES. FOR PROPULSION PLANT AND MACHINERY SPACES, USE THE GUIDANCE IN THE 03 APR NAVSEA AND PEO CARRIERS FLEET ADVISORIES (REFS C AND D REFER). FOLLOW APPROPRIATE DIRECTIONS REGARDING PROPER SANITATION, DISINFECTION, AND HAND HYGIENE PROCEDURES. THIS GUIDANCE APPLIES TO PRODUCTS OBTAINED BY SHIP SUPPLY DEPARTMENTS FOR USE IN SHIP-WIDE SANITATION AND DISINFECTION EFFORTS IN HABITABILITY SPACES. CONSULT FLEET MEDICAL OFFICERS FOR GUIDANCE SPECIFIC TO MEDICAL AND DENTAL SPACES.

3. BACKGROUND.

3.A. PER CDC AND BUMED, SARS-COV-2 IS SPREAD MAINLY FROM PERSON-TO-PERSON DURING CLOSE EXPOSURE WITH A PERSON INFECTED WITH THE DISEASE. THE INFECTED PERSON PRODUCES RESPIRATORY DROPLETS BY COUGHING OR SNEEZING. THE DROPLETS CAN LAND IN THE MOUTHS, NOSES, OR EYES OR POSSIBLY BE INHALED INTO THE LUNGS OF PEOPLE WHO ARE WITHIN CLOSE PROXIMITY. THE CONTRIBUTION OF SMALL RESPIRABLE PARTICLES, SOMETIMES CALLED AEROSOLS OR DROPLET NUCLEI, TO CLOSE PROXIMITY TRANSMISSION IS CURRENTLY UNCERTAIN. HOWEVER, AIRBORNE TRANSMISSION FROM PERSON-TO-PERSON OVER LONG DISTANCES IS HIGHLY UNLIKELY.

3.B. PER RECENT PEER-REVIEWED MEDICAL PUBLICATIONS, SARS-COV-2 IS THOUGHT TO BEHAVE IN A SIMILAR WAY TO OTHER CORONAVIRUSES, AND WILL PERSIST FOR SOME PERIOD OF TIME ON SURFACES DEPENDING ON THE MATERIAL. AS PER CDC, IF MORE THAN 7 DAYS HAVE PASSED SINCE A SUSPECTED OR CONFIRMED COVID-19 PERSON HAS BEEN IN A PARTICULAR SPACE, NO ADDITIONAL CLEANING AND DISINFECTING IS NECESSARY. IF A PERIOD OF 7 DAYS HAS NOT PASSED, THE VIRUS MAY STILL EXIST ON SURFACES WHERE INFECTED PERSONS MAY HAVE BEEN IN CONTACT; THUS IT IS POSSIBLE TO TRANSFER THE VIRUS FROM CONTAMINATED SURFACES TO A PERSONS FACE TO CAUSE INFECTION. THERE IS NO EVIDENCE THAT THE VIRUS CAN RE-AEROSOLIZE AFTER IT HAS ATTACHED TO A SURFACE TO CAUSE INFECTION. HOWEVER, IN ORDER TO MITIGATE RISK THAT THE VIRUS MIGHT AEROSOLIZE FROM A SURFACE, THE RECOMMENDATION MADE IS TO USE LIGHT MIST SPRAYING AND/OR WIPING WHEN APPLYING DECONTAMINATION SOLUTIONS. THERE IS ALSO NO EVIDENCE THAT VIRUS WILL BE RE-AEROSOLIZED BY A PERSON MOVING ITEMS LIKE MATTRESSES. HOWEVER, SUCH MATERIAL MOVEMENT ACTIVITIES OF POTENTIALLY CONTAMINATED MATERIAL WOULD REQUIRE THE PERSON TO WEAR PPE (GLOVES, EYE PROTECTION, AIR-PURIFYING RESPIRATOR AND TYVEK SUIT) TO MITIGATE THE RISK OF THE PERSON(S) TRANSFERRING VIRUS FROM CONTAMINATED SURFACES TO THEIR EYES, NOSE OR MOUTH.

4. DISCUSSION.

4.A. THIS SUPPLEMENTAL GUIDANCE PROVIDES RECOMMENDATIONS FOR THE CLEANING AND DISINFECTION OF SHIPBOARD COMPARTMENTS THAT MAY HAVE BECOME

CONTAMINATED DUE TO EXPOSURE TO A PERSON WITH CONFIRMED COVID-19. THESE RECOMMENDATIONS WILL BE UPDATED IF ADDITIONAL INFORMATION BECOMES AVAILABLE. THESE GUIDELINES ARE FOCUSED ON DISINFECTION OF CONTAMINATED SHIPBOARD HABITABILITY SPACES. THESE PROCEDURES ARE NOT AUTHORIZED FOR MACHINERY SPACES OR CLEANING ELECTRONICS.

4.B. CLEANING AND DISINFECTION OF CONTAMINATED COMPARTMENTS. AS PREVIOUSLY RECOMMENDED, USE CLEANERS AND DISINFECTANTS IDENTIFIED IN REFERENCES (B) THROUGH (F) THAT ARE APPROPRIATE FOR THE SURFACE TO BE CLEANED.

4.C. THREE DISINFECTION SCENARIOS ARE ADDRESSED HEREIN:

4.C.(1) SCENARIO (1). CLOSE OFF SPACE AND LEAVE DORMANT FOR SEVEN DAYS. BASED ON CDC GUIDANCE, AN EFFECTIVE CONTROL MEASURE WOULD BE TO RESTRICT PERSONNEL ACCESS TO A SPECIFIC AREA UNTIL THE VIRUS IS NO LONGER VIABLE TO CAUSE INFECTION. DURING THIS PERIOD THERE IS NO REQUIREMENT OR NEED TO ALTER NORMAL VENTILATION TO THE COMPARTMENT AS SARS-COV-2/COVID-19 WILL SETTLE ON SURFACES AND NOT REMAIN AIRBORNE. BUMED HAS HIGH CONFIDENCE IN, AND ADVOCATES THE USE OF, A CLEANING AND DISINFECTANT APPROACH AGAINST SARS-COV-2/COVID-19 (IF RESTRICTING ACCESS TO THE SPACE IS NOT POSSIBLE, SEE SCENARIOS 2 AND 3). WHEN THE 7-DAY ISOLATION PERIOD IS COMPLETE, CDC CONSIDERS THE SPACE COVID-FREE AND NO ADDITIONAL DECONTAMINATION IS REQUIRED. THE 7-DAY PERIOD TAKES INTO ACCOUNT ALL MATERIALS (POROUS, NON-POROUS, PAINTED, MATTRESSES, ETC.)

4.C.(2) SCENARIO (2) CLEAN AND DISINFECT SURFACES BY HAND. CLEANING IS CONDUCTED WITH DETERGENT OR SOAP AND WATER TO REMOVE ANY DUST, DIRT, GREASE, OR OTHER MATERIAL WHICH MIGHT HARBOR VIRUS. THEN, DISINFECT USING AN EPA-REGISTERED DISINFECTANT. USE GUIDANCE FROM REFERENCES (B) THROUGH (F), FOLLOWING PRODUCT LABEL INSTRUCTIONS FOR APPROPRIATE PPE AND OTHER SAFETY PRECAUTIONS.

4.C.(3) SCENARIO (3). USE HIGH VOLUME PUMP SPRAYER TO COVER POTENTIALLY CONTAMINATED SURFACES WITH DISINFECTANT.

4.C.(3).(A) HIGH VOLUME PUMP SPRAYER PROCUREMENT INFORMATION IS PROVIDED BELOW (NSN OR PURCHASE LOCALLY). EQUIVALENT SPRAYERS INCLUDE THE TYPICAL 1 OR 2 GALLON GARDEN SPRAYER AVAILABLE THROUGH HARDWARE STORES OR GARDEN CENTERS:

NSN 3740-00-191-3677

NSN 3740-00-641-4719

NSN 3740-00-720-0465

NSN 3740-01-338-5390

NSN 3740-01-561-9633

4.C.(3).(B) NAVSEA RECOMMENDED PRODUCTS ARE QUATERNARY AMMONIUM BASED DISINFECTANT CLEANERS (NSN OR PURCHASE LOCALLY). THESE COMPOUNDS ARE WELL KNOWN AND ARE THE ACTIVE INGREDIENTS IN HOUSEHOLD NON-BLEACH WIPES SUCH AS CLOROX WIPES. THEY ARE EXTREMELY EFFECTIVE AT NEUTRALIZING ENVELOPED VIRUSES (SAR-COV-2 / COVID-19 IS AN ENVELOPED VIRUS). THE FOLLOWING PREFERRED PRODUCTS ARE COMMONLY USED EFFECTIVE DISINFECTING AGENTS WHICH HAVE NO DETRIMENTAL IMPACTS TO FABRICS WHEN USED IN

RECOMMENDED DILUTED CONCENTRATIONS PER THE
MANUFACTURER DIRECTIONS. RECOMMENDED CLEANERS
INCLUDE:

4.C.(3).(B).I. NSN-6840-00-201-2505, MIKRO-QUAT INC. ECOLAB,
EPA-N LIST ITEM 1677-21, QUATERNARY AMMONIUM ETHANOL BLEND, 1
GALLON, CAGE CODE 85884. THIS PRODUCT SHOULD BE DILUTED
AT A RATIO OF 1 OUNCE PER 1 GALLON PER MANUFACTURER
SPECIFICATIONS.

4.C.(3).(B).II. NSN 6840-01-604-6411, CAVICIDE, METREX RESEARCH,
QUATERNARY AMMONIUM - ISOPROPANOL BLEND. EPA-N LIST
ITEM 46781-6. THIS PRODUCT SHOULD BE USED AS RECEIVED; NO
DILUTION IS RECOMMENDED PER MANUFACTURERS SPECIFICATION.

4.C.(3).(B).III. LYSOL BRAND I.C. QUATERNARY AMMONIUM
DEODORIZING DISINFECTANT CLEANER, EPA-N LIST ITEM 675-54; 24
OZ BOTTLES, NO NSN. THIS PRODUCT SHOULD BE DILUTED AT A
RATIO OF 1:256 (0.5 OUNCE CONCENTRATED SOLUTION DILUTED
WITH 1 GALLON OF WATER) PER MANUFACTURER SPECIFICATION.

4.C.(3).(B).IV. DECON 7 PART 1. EPA-N LIST 89833-3; NO NSN (NOTE:
PART 1 CONSISTS OF A BLEND OF QUATERNARY AMMONIUM
COMPOUNDS AND SURFACTANTS.) THIS PRODUCT SHOULD BE
DILUTED AT A RATIO OF 1:1 (1 GALLON OF CONCENTRATED
SOLUTION DILUTED WITH 1 GALLON OF WATER) PER
MANUFACTURER SPECIFICATION.

4.C.(3).(B).V. MAQUAT 2420-10 EPA-N LIST 10324-194. NO NSN. THIS
PRODUCT SHOULD BE DILUTED AT A RATIO OF 1.5 OUNCE PER 1
GALLON OF WATER PER MANUFACTURER SPECIFICATION.

4.C.(3).(B).VI. NSN 7930-01-589-0598, MULTI-SURFACE SANITIZER
(VIREX II 256), DIVERSEY, EPA-N LIST ITEM 70627-24, QUATERNARY
AMMONIUM ETHANOL BLEND, 6-32OZ, CAGE CODE 325G4. THIS

PRODUCT SHOULD BE DILUTED AT A RATIO OF 1:256 (1 OUNCE CONCENTRATED SOLUTION DILUTED WITH 2 GALLONS OF WATER) PER MANUFACTURER SPECIFICATION.

4.C.(3).(B).VII. OASIS 146 MULTI-QUAT SANITIZER; NIIN 01-589-3786; THIS PRODUCT SHOULD BE DILUTED AT A RATIO OF 2 OUNCES PER GALLON OF WATER (THIS IS LOWER THAN THE MANUFACTURER'S RECOMMENDATION)

NOTE: ENSURE CHEMICAL DILUTION INSTRUCTIONS ARE STRICTLY FOLLOWED TO PREVENT SAFETY HAZARDS FROM STRONG SOLUTIONS OR INEFFECTIVE DISINFECTION FROM WEAK SOLUTIONS.

NOTE: AS NOTED IN REFERENCE (D), OTHER PRODUCTS CONTAINING QUATERNARY AMMONIUM MAY BE USED IF APPROVED VIA A SHML FEEDBACK REPORT (SFR). SURFACE SHIPS ARE TO DOWNLOAD THE SFR SPREADSHEET TEMPLATE AND UTILIZE, AS REQUIRED, TO POST SFR SMIL FEEDBACK DETAILS IN THE ELECTRONIC ADVISORY RECORD REPOSITORY AND TRACKING SYSTEM (EARRTS) ADVISORY TRACKING RECORD (ATR), AS APPLICABLE.

SHIPS FORCE SHOULD PERIODICALLY REVISIT THE NAVSUP WEBSITE, WHICH HAS A LIST OF COVID APPROVED DISINFECTANTS ON THE SHML, WHICH IS UPDATED AS PRODUCTS ARE ADDED:
[HTTPS://WWW.NAVSUP.NAVY.MIL/PUBLIC/NAVSUP/PRODUCTS_SERVICES/HMM/PS_HMM_COVID/](https://www.navsup.navy.mil/public/navsup/products_services/hmm/ps_hmm_covid/)

FOLLOW MANUFACTURERS RECOMMENDATIONS FOR DILUTION, PPE AND VENTILATION REQUIREMENTS AS APPROPRIATE.

NOTE: THESE PRODUCTS ARE CORROSIVE, ESPECIALLY IN THE CONCENTRATED FORM, SO PROPER DILUTION IS NECESSARY, AND CAUTION WITH RESPECT TO POOLING AND EXCESS CLEANUP IS

NECESSARY ON ALL SURFACES (NOT JUST DECKS). ALL OF THE DATA WE HAVE SUGGEST THAT SO LONG AS THIS IS A ONE-TIME MIST COAT AND NOT PROLONGED IMMERSION, CORROSION IMPACTS WILL BE MITIGATED, BUT CAUTION IS PRUDENT IN ANY CASE.

4.C.3.[C]. PERSONAL PROTECTIVE EQUIPMENT (PPE).

4.C.3.[C].(1) FOLLOW MANUFACTURER'S SPECIFICATIONS FOR PPE WHILE MIXING / DILUTING DISINFECTANT TO THE APPROPRIATE STRENGTH FOR USE IN SPRAYERS. MIXING / DILUTING SHOULD BE CONDUCTED IN A WELL-VENTILATED AREA. ADDITIONAL VENTILATION MAY BE REQUIRED DURING MIXING TO REDUCE VAPORS DUE TO DISINFECTION PRODUCTS. AT MINIMUM FOR THOSE MIXING / DILUTING, WEAR NON-VENTED SPLASH GOGGLES AND FACESHIELD, AS WELL AS CHEMICAL RESISTANT GLOVES. A TYVEK SUIT OR COVERALLS (WITH SLEEVES DOWN) MUST ALSO BE WORN TO AVOID EXPOSING SKIN. ENSURE THAT CONTAINERS OF CLEANING SOLUTION ARE SEALED WHEN NOT IN IMMEDIATE USE.

4.C.3.[C].(2).II. FULL-FACE AIR-PURIFYING RESPIRATOR EQUIPPED WITH ORGANIC VAPOR AND P100 COMBINATION FILTERS/CARTRIDGES (NOTE: A CHANGE-OUT SCHEDULE MUST BE ESTABLISHED BY THE CVN AND/OR TYCOM INDUSTRIAL HYGIENE OFFICER TO REPLACE THE CARTRIDGES BEFORE END OF SERVICE LIFE). MANDATORY: ENSURE THAT ALL RESPIRATOR WEARERS HAVE BEEN TRAINED, MEDICALLY CLEARED AND FIT-TESTED PRIOR TO WEAR OF ANY SPECIFIC RESPIRATOR.

4.C.3.[C].(2).III. TYVEK SUIT (COVERALLS WITH SLEEVES DOWN IF DISPOSABLE SUITS ARE IN SHORT SUPPLY).

4.C.3.[C].(2).IV. BOOT COVERS OR CHEMICAL RESISTANT BOOTS CONSULT WITH CVN OR TYCOM INDUSTRIAL HYGIENE OFFICER

(IHO) FOR CLARIFYING INFORMATION, ADDITIONAL QUESTIONS, AND/OR SUPPORT. THIS GUIDANCE INCLUDES ENSURING MEDICAL PERSONNEL MONITOR HEAT STRESS EXPOSURE USING NAVMED P-5010-3 AND PHEL CHARTS, PARTICULARLY FOR THOSE PERSONNEL WEARING TYVEK SUITS AND WHEN CONSIDERING AMBIENT TEMPERATURE AT YOUR PARTICULAR LOCATION.

4.C.3.(D) PROCEDURE FOR SPRAYER USE (NON-PROPULSION PLANT, NON-MACHINERY SPACES). MIST COAT SURFACES THAT MAY HAVE BEEN CONTAMINATED BY DIRECT CONTACT FROM RESPIRATORY DROPLETS OR INDIRECTLY THROUGH CONTACT BY A COVID-19 INFECTED CREWMEMBER WITH DISINFECTANT. DO NOT SPRAY DIRECTLY ONTO ELECTRONIC COMPONENTS. IT IS PERMISSIBLE TO SPRAY NEAR AND AROUND ELECTRONIC COMPONENTS TAKING CAUTION NOT TO WET EXPOSED ELECTRONICS.

4.C.3.(D).(1) DON APPROPRIATE PPE BEFORE ENTERING SPACE.

NOTE: THIS PROCEDURE IS FOR VACANT SPACES. ALL INHABITANTS OF A SPACE TO BE DISINFECTED SHOULD EXIT PRIOR TO TREATMENT AND REMAIN OUT OF THE SPACE UNTIL CLEARED BY MEDICAL DEPARTMENT TO RETURN. NO CONFINED SPACES SHOULD BE ENTERED OR SPRAYED.

4.C.3.(D).(2) UNDER NORMAL CIRCUMSTANCES, ALL LINENS AND OTHER SIMILAR MATERIALS WOULD ALREADY BE REMOVED FOR CLEANING THROUGH NORMAL LAUNDRY PROCESSES. IF LINENS AND OTHER WASHABLE FABRIC MATERIALS REMAIN, REMOVE LINENS, BUNK CURTAINS, AND OTHER WASHABLE FABRICS (WEAR APPROPRIATE PPE ? GLOVES, FACE MASK, AND CLOTHING PROTECTION) BEFORE STARTING THE DISINFECTION PROCESS USING A SPRAYER. REMOVED FABRIC MATERIALS SHOULD BE

LAUNDERED PRIOR TO REINSTALLATION.

NOTE: VISUALLY INSPECT THE AREAS TO BE DISINFECTED FOR AREAS THAT ARE VISIBLY DIRTY OR HEAVILY CONTAMINATED.

CLEAN THE DIRTY/CONTAMINATED AREAS WITH DETERGENT OR SOAP AND POTABLE WATER AND ALLOW TO DRY PRIOR TO DISINFECTION (VISIBLE DIRT/CONTAMINATION WILL REDUCE EFFECTIVENESS OF DISINFECTION PROCEDURE).

4.C.3.(D).(3) FILL SPRAYER WITH DISINFECTANT AT THE MANUFACTURER RECOMMENDED CONCENTRATION / DILUTION LEVEL. SET THE SPRAYER NOZZLE TO PRODUCE A WIDE DISPERSION MIST. THE GOAL IS TO ACHIEVE A FINE MIST TO COVER THE SURFACE BEING TREATED.

4.C.3.(D).(4) ESTABLISH VENTILATION REQUIREMENTS IN THE COMPARTMENT TO REDUCE VAPORS FROM DISINFECTANT PRODUCTS. FOLLOW STANDARD DAMAGE CONTROL PRACTICES TO "DE-SMOKE" THE SPACE, VENTING VAPORS OVERBOARD.

4.C.3.(D).(5) SPRAY ALL HORIZONTAL AND VERTICAL SURFACES IN THE SPACE THAT MAY HAVE BEEN CONTAMINATED FROM THE DECK TO APPROXIMATELY SEVEN FEET HIGH ON THE BULKHEADS. (IT IS NOT NECESSARY TO SPRAY PIPING, CABLING RUNS OR DROP CEILINGS IN THE OVERHEAD). THE GOAL IS TO FOCUS ON HIGH TOUCH AREAS SUCH AS HANDRAILS, TABLETOPS, DESKS, HATCHES, HANDLES, DOORS, ETC., WITH LESS FOCUS ON LOW TOUCH AREAS LIKE BULKHEADS. START FURTHEST FROM VENTILATION SUPPLY AND WORK TOWARDS IT. FOCUS ON HIGH TRAFFIC AREAS FIRST.

CAUTION: THE INTENDED APPLICATION IS A MIST COAT. THE SURFACES SHOULD NOT BE DRENCHED OR RESULT IN POOLING SOLUTION, SOAKED CREVICES OR RUNNING / DRIPPING SOLUTION.

DO NOT SPRAY ELECTRICAL OUTLETS OR ELECTRICAL COMPONENTS. HAND WIPE EXTERIOR SURFACES OF RECEPTACLES, LIGHT FIXTURES, SWITCHES, THERMOSTATS AND ALL OTHER ELECTRICAL ENCLOSURES WITH CLOTH PER REFERENCE (D).

4.C.3.(D).(5).I. LIGHTLY MIST SPRAY BOTH HARD, NON-POROUS (BUNKS, LOCKERS, DESKS, SHOWER CURTAINS, DECK, ETC.) AND SOFT, POROUS SURFACES (BARE MATTRESSES, PILLOWS, , ETC.) IN THE SPACE IN A METHODICAL WAY TO ENSURE ALL NEEDED AREAS ARE DISINFECTED.

4.C.3.(D).(5).II. ONE APPLICATION IS SUFFICIENT.

4.C.3.(D).(5).III. DO NOT WIPE THE SPRAY OFF AFTER APPLICATION. ALLOW THE WETTED SURFACE TO DRY BY EVAPORATION. MINIMUM OF TEN MINUTES OF CONTACT TIME IS REQUIRED.

4.C.3.(D).(5).IV. IF POOLING OF LIQUID IS NOTED ON THE DECK, BUNK PANS, OR OTHER HORIZONTAL SURFACES, WIPE UP EXCESS WITH A RAG BEFORE EXITING THE SPACE. IF USED, WET RAGS SHOULD BE BAGGED AND CONTROLLED UNTIL CLEANED BY LAUNDERING.

4.C.3.(D).(6) EXIT THE SPACE. CONTROL ACCESS TO THE SPACE. RESTORE NORMAL VENTILATION AND ALLOW SURFACES IN SPACE TO DRY. COORDINATE WITH MEDICAL AND SAFETY DEPARTMENT BEFORE ALLOWING RE-ENTRY AND RE-USE OF SPACE.

4.C.3.(D).(7) AFTER CLEANING EACH SPACE, CLEAN THE INDIVIDUAL PERFORMING THE CLEANING AND ALL EQUIPMENT AND GEAR (E.G., MOPS, SPONGES, RAGS, ETC.) USING THE DISINFECTANT SOLUTION (APPLY THE CLEANING PRODUCT ONTO A CLEAN SPONGE/TOWEL, WRING OUT THE SPONGE/TOWEL, AND WIPE DOWN THE INDIVIDUAL(S) PERFORMING THE CLEANING

(INDIVIDUAL(S) SHOULD REMAIN IN PPE), AS WELL AS THEIR GEAR, MATERIALS), TO ENSURE DISINFECTED PRIOR TO MOVING TO THE NEXT SPACE. HEAT STRESS SCHEDULES SET BY MEDICAL MAY CREATE THE NEED TO HAVE A NEW CREW FOR EACH SPACE TO BE CLEANED; THIS WORK/REST SCHEDULE SHOULD BE CLEARLY DEFINED BY MEDICAL PRIOR TO INITIATION OF THE CLEANING EVOLUTION. CONSULT WITH CVN OR TYCOM MEDICAL FOR ADDITIONAL GUIDANCE.

4.C.3.(D).(8) IF SPRAY IS USED ON COOKING / EATING SURFACES, CLEAN SURFACES IN ACCORDANCE WITH NORMAL GALLEY SANITATION PROCEDURES PRIOR TO USE.

4.D. ONCE THE SPACE HAS BEEN DISINFECTED AND USE RESTORED, USE NORMAL CLEANING PROCESSES TO CLEAN FREQUENTLY TOUCHED SURFACES DAILY.

5. FOR AIRCRAFT CARRIERS ADVISORIES CAN BE VIEWED ON NIPR AT [HTTPS://HELP.PHDNSWC.NMCI.NAVY.MIL/SITES/S2E/PAGES/DEFAULT.ASPX](https://help.phdnswc.nmci.navy.mil/sites/s2e/pages/default.t.aspx)

USERS CAN REQUEST S2E NIPRNET ACCESS AT THE FOLLOWING URL: [HTTPS://ACCOUNTS.PHDNSWC.NMCI.NAVY.MIL](https://accounts.phdnswc.nmci.navy.mil)

A DOD CLIENT PKI EMAIL CERTIFICATE IS REQUIRED FOR ACCESS.

FOR ANY ASSISTANCE, CONTACT CAN BE MADE AT

ITHELP.NSWCPHD.FCT@NAVY.MIL FOR NIPRNET OR COM (805) 228-8191, DSN 296-8191.

6. FOR SURFACE SHIPS: ELECTRONIC ADVISORY RECORD REPOSITORY AND TRACKING SYSTEM (EARRTS):

6.A. ACCOMPLISHMENTS AND DISCREPANCIES FOUND SHALL BE REPORTED IN EARRTS ([HTTPS://EFORMS.NSLC.NAVY.MIL/ARRTS](https://eforms.nslc.navy.mil/arrts)).

AN ADVISORY TRACKING RECORD (ATR) WILL BE INITIATED BY NAVSEA WITHIN EARRTS FOR TYCOM'S READDRESSAL AND

ASSIGNMENT OF ADVISORY ACTIONS TO AFFECTED ACTIVITIES
FOR POSTING ADVISORY TRACKING RECORD (ATR) RESPONSES.

6.B. ACTIVITIES REQUIRING ACCESS TO EARRTS CAN REQUEST
ACCESS THROUGH THE "NEW USER" REGISTRATION LINK AT
[HTTPS://EFORMS.NSLC.NAVY.MIL](https://eforms.nslc.navy.mil). A DOD CLIENT PKI CERTIFICATE
IS REQUIRED FOR ACCESS. EARRTS HAS NO PROVISION FOR
CLASSIFIED CONTENT. FOR EARRTS TECHNICAL SUPPORT,
CONTACT VIA EMAIL AT EFORMSSUPPORT.FCT@NAVY.MIL.

6.C. SHIPS WITH OPEN ATR ACTIONS SHALL BE IN EARRTS ALERT
STATE WITH REGARDS TO THE RESPECTIVE ADVISORY UNTIL A
RESPONSE HAS BEEN SUBMITTED FOR EACH ASSIGNED TASK.

6.D. COGNIZANT TYCOM STAFF WILL BE THE PRIMARY POC FOR
ALL SHIP FORCE ADVISORY RESPONSES. THE TYCOM WILL CLOSE
INDIVIDUAL ATR IN EARRTS FOR EACH SHIP HAVING REPORTED
COMPLETION. NAVSEA WILL ARCHIVE CLOSED ADVISORIES IN
EARRTS. ARCHIVED ADVISORIES WILL REMAIN VIEWABLE IN
EARRTS BUT WILL NOT BE LISTED ON THE RESPECTIVE SHIP'S
ACTIVE ADVISORY REPORT.

7. TECHNICAL CONCURRENCE: THE TECHNICAL WARRANT
HOLDERS FOR HAZMAT (SEA 05P5), CLIMATE CONTROL SYSTEMS
(SEA 05Z42), AFLOAT NAVOSH (SEA 04R), AFLOAT MEDICAL
PROGRAMS (SEA 05P3), AND THE DIRECTOR FOR SHIP INTEGRITY
AND PERFORMANCE ENGINEERING (SEA 05P), DIRECTOR FOR
MARINE ENGINEERING (SEA 05Z), DIRECTOR FOR SURFACE SHIP
DESIGN AND SYSTEMS ENGINEERING (SEA 05D), AND DIRECTOR
FOR AIRCRAFT CARRIER DESIGN AND SYSTEMS ENGINEERING
(SEA 05V), CONCUR WITH THIS ADVISORY.

8. PROGRAM CONCURRENCE: COMNAVAIRPAC (N43),
COMNAVAIRLANT (N43), COMNAVSURFPAC (N43),

COMNAVSURFLANT (N43), NAVSEA (PMS 443TD), PEO USC (PMS 505F) AND PEO CVN (PMS 312) CONCUR WITH THIS ADVISORY.

9. REQUEST TYCOMS DISSEMINATE THIS ADVISORY TO ALL APPLICABLE UNITS.//

BT

#0017

NNNN

<DmdsSecurity>UNCLASSIFIED//</DmdsSecurity>

<DmdsReleaser>MARK.GEOFFREY.EUGENE.1273494487</DmdsReleaser>

CLASSIFICATION: UNCLASSIFIED//