

UNCLASSIFIED/

182006Z MAY 15 P COMNAVAIRSYSCOM PATUXENT RIVER MD

TO COMNAVIAIRFOR SAN DIEGO CA  
COMNAVIAIRFORES SAN DIEGO CA  
CNATRA CORPUS CHRISTI TX  
COMNAVAIRSYSCOM PATUXENT RIVER MD  
DCMA AIMO BETHPAGE NY  
DCMA AIMO SAINT AUGUSTINE FL  
DCMA BELL HELICOPTER FORT WORTH TX  
DCMA BOEING SEATTLE WA  
DCMA LOCKHEED MARTIN OWEGO NY  
DCMA SAINT LOUIS MO  
DCMA SIKORSKY AIRCRAFT STRATFORD CT  
DCMA SAN DIEGO CA  
HQ AFSOC CC HURLBURT FLD FL

INFO COMNAVAIRSYSCOM PATUXENT RIVER MD

UNCLAS

PASS TO OFFICE CODES:

FM COMNAVAIRSYSCOM PATUXENT RIVER MD//4.0P// TO COMNAVIAIRFOR SAN  
DIEGO CA//N421// COMNAVIAIRFORES SAN DIEGO CA//N421// CNATRA CORPUS  
CHRISTI TX//N421// COMNAVAIRSYSCOM PATUXENT RIVER MD//5.0D// HQ AFSOC  
CC HURLBURT FLD FL//A3/A4/A5/A6// INFO COMNAVAIRSYSCOM PATUXENT  
RIVER MD//4.0P/PMA281/4.1//

MSGID/GENADMIN/MIL-STD-6040(SERIES)/B.0.01.00

/COMNAVAIRSYSCOM PATUXENT RIVER/-/MAY/-/-/-// SUBJ/MULTIPLATFORM  
INTERIM FLIGHT CLEARANCE FOR PORTABLE ELECTRONIC /TABLETS.//  
REF/A/DESC:DOC/COMNAVAIRSYSCOM/-/110806ZMAR2015/NOTAL//

REF/B/MSGID:GENADMIN/COMNAVAIRSYSCOM/-/022008ZMAR2015//

REF/C/DESC:NAVAIRINST 13034.1E/NAVAIR/-/30MAR2015// NARR/REF A IS IFC  
REQUEST.

REF B IS PREVIOUS FLIGHT CLEARANCE FOR PORTABLE ELECTRONIC TABLETS.

REF C IS FLIGHT CLEARANCE POLICY FOR AIR VEHICLES AND AIRCRAFT  
SYSTEMS.// POC/SARAH GRAVES/CNTR/UNIT:4.0P FLIGHT CLEARANCE

/NAME:PATUXENT RIVER MD/TEL:301-342-5741

/EMAIL:SARAH.GRAVES.CTR@NAVY.MIL//

GENTEXT/REMARKS/1. IRT REF A, INTERIM FLIGHT CLEARANCE (IFC) IS  
GRANTED FOR TYCOM DESIGNATED SH-60B, H-60F/H, MH-60R/S, UH-60L, VH-3D,  
VH-60N, TH-57B/C, OH-58C, AV-8B, TAV-8B, C-2A, E-2C, E-2D, EA-6B, F/A-  
18A/A++/B/C/D/E/F, EA-18G, NEA-18G, C/KC-130F/R/T/J, CH-53E, MH-53E, P-3A/B/C,  
EP-3E, P-3SP, AH-1W, AH-1Z, HH/UH-1N, UH-1Y, HH/CH-46E, MV-22B, CV-22, C-40A,  
C-9B, DC-9, C-12C, UC-12B/F/M/W, RC-12M, RC-12F, NC-12B, TC-12B, C-26D, EC-26D,  
RC-26D, S-3B, UC-35C/D, P-8A, E-6A/B, F-5N/F, F-16A/B, T-38C, UH-72A, U-6A, NU-1B,  
X-26, T-2C, UV-18A, O-2A, T-39D, NP-3D, MZ-3A, T-34C, T-6A/B, T-45A/C, T-44A/C  
AIRCRAFT TO USE PORTABLE ELECTRONIC TABLETS WITHIN THE  
CONFIGURATION BOUNDARIES AND LIMITATIONS SET FORWARD IN THIS IFC.  
THIS IFC CANCELS AND SUPERCEDES REF B. CHANGES TO REF B INCLUDE:  
CHANGED LIMIT IN PARA 3.B.4.A, AND ADMINISTRATIVE.

2. AIRCRAFT CONFIGURATION AND LOADING: IAW APPLICABLE T/M/S NATOPS,  
NATIP, AND OTHER APPLICABLE NAVAIR FLIGHT CLEARANCES, AND AS

FOLLOWS:

A. ANY PORTABLE ELECTRONIC TABLET THAT MEETS THE BELOW

REQUIREMENTS MAY BE USED AS A CARRY ON CARRY OFF ITEM FOR ANY

FLIGHT. SEVERAL TABLETS HAVE ALREADY BEEN EVALUATED AND

HAVE MET ALL OF THESE REQUIREMENTS. NEW TABLETS ARE BEING

EVALUATED CONTINUALLY. PLEASE CONTACT PMA-281 FOR A

COMPREHENSIVE LIST OF APPROVED TABLETS OR SEE THE PMA-281 EKB WEBSITE FOR MORE DETAILS:

[HTTPS://MPS.NAVAIR.NAVY.MIL/EKB/](https://mps.navair.navy.mil/ekb/) OR EMAIL: [EKB@NAVY.MIL](mailto:EKB@NAVY.MIL).

THE WEBSITE WILL BE UPDATED FREQUENTLY TO LIST NEWLY APPROVED DEVICES AND THIS IFC WILL BE KEPT UP TO DATE UNTIL THEY ARE CALLED OUT IN THE AIRCREW SYSTEMS NATOPS.

B. PORTABLE ELECTRONIC TABLETS MUST FIT INTO ONE OF THE FOLLOWING LEG STRAP/HOLSTERS (SEE APPLICABLE LIMITATIONS BELOW):

- (1) NAVAIR DWG 3217AS300 ASSEMBLY (TO INCLUDE NAVAIR DWGS 3217AS305, 3217AS310, AND 3217AS390) OR
- (2) NAVAIR DWG 24713M0301
- (3) ALTERNATE HOLSTERS CAN BE APPROVED VIA UPDATES TO THIS FLIGHT CLEARANCE.
- (4) FLIGHT IS AUTHORIZED WITH OR WITHOUT THE HOLSTER, BUT ANY TABLET USED, WITH NVIS FILTER (AS REQUIRED), MUST FIT INTO THE HOLSTER TO BE APPROVED. THE TABLET MUST NOT BE TOO BIG AS TO NOT ALLOW THE HOLSTER TO CLOSE SECURELY OR TOO SMALL AS TO ALLOW SPACE FOR IT TO SLIDE ABOUT WITHIN THE HOLSTER.
- (5) USE OF ANY NEW TABLET MUST COMPLETE AN IN FIELD FIT CHECK TO ENSURE IT IS USABLE WHILE SEATED IN THE HOLSTER.
- (6) HOLSTER MUST BE USED TO RETAIN NVIS FILTER. PMA-281 MAY APPROVE ALTERNATE MEANS TO ATTACH NVIS FILTER WITHOUT AMENDING THIS FLIGHT CLEARANCE.

(7) LARGER HOLSTER (DWG 3217AS300) CAN BE USED WITHOUT RUBBER INSERT (DWG 3217AS310) TO ACCOMMODATE THICKER TABLET, SUCH AS THE IPAD 1.

C. THE FOLLOWING NVIS FILTERS ARE AUTHORIZED FOR NIGHT VISION COMPATIBILITY (SEE APPLICABLE LIMITATIONS BELOW):

- (1) KORRY NIGHTSHIELD P/N 47989-001 FOR IPAD
- (2) WAMCO P/N FPDC212-IP-002 FOR IPAD
- (3) WAMCO P/N FPDC212-IPM-002 FOR IPAD MINI
- (4) KORRY NIGHTSHIELD P/N 50051-001 FOR IPAD MINI
- (5) CONTACT PMA-281 FOR DETAILS ON THESE APPROVED NVIS FILTERS.
- (6) FLIGHT IS AUTHORIZED WITH OR WITHOUT THE NVIS FILTER. WITHOUT NVIS FILTER, ADHERE TO LIMITS AND WARNINGS LISTED BELOW.
- (7) EACH NEW TABLET OR NVIS FILTER CONFIGURATION CHANGE SHALL BE TESTED FOR DAY/NIGHT/NVG LIGHTING QUALITIES BY NAVAIR 4.6.5.5.

D. TABLETS USING LITHIUM ION BATTERIES THAT MEET THE FOLLOWING CRITERIA ARE APPROVED FOR USE AND DO NOT REQUIRE TESTING AND REVIEW BY NOSSA IAW WITH NAVSEA TECHNICAL MANUAL S9310-AQ-SAF-010 REV2 DATED 7/15/2010.

- (1) UNMODIFIED COTS BATTERY
- (2) UNDERWRITERS LABORATORIES (UL) LISTED
- (3) USED IN DEVICE AS RECOMMENDED BY THE MANUFACTURER
- (4) NO MORE THAN FOUR (4) CELLS IN SERIES (LESS THAN OR EQUAL

TO 18 VOLT OUTPUT)

- (5) RATED FOR NO MORE THAN 100 WATT-HOURS, AS LISTED IN THE MANUFACTURERS SPECIFICATION OR CALCULATED BY MULTIPLYING THE CAPACITY IN AMP-HOURS (AH) BY THE MAXIMUM WORKING (NOMINAL PERFORMANCE) VOLTAGE
- (6) BATTERIES THAT MEET THESE CRITERIA MUST STILL BE REPORTED TO THE NOSSA TECHNICAL AGENT BEFORE USE IAW SAFETY PROGRAM REQUIREMENTS. CONTACT MARK TISHER AT DSN 482-5912/COMM 812-854-5912/EMAIL MARK.TISHER@NAVY.MIL OR JULIE BANNER AT DSN 287-1853/COMM 301-227-1853/EMAIL JULIE.BANNER@NAVY.MIL TO REPORT USE OR IF YOU ARE UNSURE IF THE BATTERY IN YOUR TABLET MEETS THE CRITERIA.
- (7) BATTERIES THAT DO NOT MEET THE CRITERIA ABOVE MUST BE FULLY REVIEWED BY NOSSA TECHNICAL AGENTS IAW SAFETY PROGRAM REQUIREMENTS. THIS IFC APPROVAL IS NOT APPLICABLE FOR TABLETS WITH LITHIUM BATTERIES THAT DO NOT MEET THESE CRITERIA.
- (8) BATTERIES IN THE FOLLOWING TABLETS HAVE BEEN TESTED AND HAVE NOSSA SAFETY CERTIFICATES:
  - (A) IPAD 1, 2, 4, MINI BATTERY PART NUMBERS A1315, A1376, A1389, A1512
  - (B) TOSHIBA THRIVE 7-INCH MODEL NUMBER AT1S5-T16 BATTERY PART NUMBER PA3978U-1BRS
  - (-C) OTHER BATTERIES MAY BE APPROVED, CHECK WITH PMA-281 FOR UPDATED DEVICE APPROVAL INFORMATION.

E. DOCUMENTED DATA COMPATIBLE WITH EMI MIL-STD-461 MUST BE SUBMITTED TO AIR 4.1.13 FOR ANY NEW TABLET PRIOR TO FLIGHT. ANALYSIS FOR USE ON THE REQUESTED AIR PLATFORM MUST BE PERFORMED BY AIR 4.1.13. A TAILORED ELECTROMAGNETIC COMPATIBILITY SAFETY OF FLIGHT TEST IS REQUIRED.

F. EACH NEW TABLET MUST BE TESTED FOR ELECTROMAGNETIC COMPATIBILITY WITH EACH T/M/S AIRCRAFT. SUCCESSFUL COMPLETION OF AN EMI/EMC SAFETY OF FLIGHT TEST IS REQUIRED PRIOR TO THE FIRST FLIGHT WITH A NEW TABLET IN THAT T/M/S. CRITICAL FLIGHT SYSTEMS SHALL BE CHECKED FOR ELECTROMAGNETIC COMPATIBILITY WHILE THE TABLET IS OPERATED IN ALL MODES THAT WILL BE USED IN FLIGHT. TESTS WILL VERIFY THAT COMMUNICATIONS ARE CLEAR AT ALL COMMUNICATIONS FREQUENCIES THAT WILL BE USED IN FLIGHT WHILE THE TABLET IS OPERATING IN ALL MODES THAT WILL BE USED IN FLIGHT. VERIFICATION OF COMPLETED E3 SOFT SHALL BE FORWARDED TO EMC CONTACTS LISTED IN PARA 6.D. BELOW AND PMA-281 AT EKB@NAVY.MIL AS SOON AS TESTING IS COMPLETED. IF YOU ARE UNSURE IF AN EMC SOFT HAS BEEN COMPLETED FOR YOUR DEVICE IN YOUR AIRCRAFT T/M/S CONTACT PMA-281 AT EKB@NAVY.MIL, OR YOUR NAVAIR PLATFORM CLASS DESK TO VERIFY.

3. LIMITATIONS: IAW THE MOST RESTRICTIVE OF APPLICABLE T/M/S NATOPS, NATIP, OTHER APPLICABLE NAVAIR FLIGHT CLEARANCES, AND THE FOLLOWING:

A. DURING CARRY ON, NORMAL EGRESS, T/O, LANDING, AND OUTSIDE OF IN-FLIGHT OPERATING ENVELOPE DEFINED IN PARA. 3.B, THE PORTABLE ELECTRONIC TABLET MUST BE STOWED OR SECURED TO LEG

WITH AUTHORIZED LEGSTRAP. TABLET MUST BE IN POSITIVE CONTROL AT ALL TIMES (E.G., STOWED IN HELMET BAG, IN HANDS, SECURED TO LEG).

B. IN-FLIGHT OPERATING ENVELOPE: LIMITS OF T/M/S NATOPS WITH THE FOLLOWING EXCEPTIONS:

(1) WITHOUT AN APPROVED NVIS FILTER INSTALLED MINIMUM

AIRCRAFT ALTITUDE UNDER NVG AIDED OPERATIONS:

(A) FIXED WING AND V-22 IN AIRPLANE MODE: 3,000 FT AGL.

(B) ROTARY WING AND V-22 IN VTOL MODE: MINIMUM IFR

ALTITUDES

(2) MAXIMUM CABIN ALTITUDE: 55,000 FT WITH TABLET POWER ON OR OFF.

(3) CABIN TEMPERATURE: TABLET OPERATING LIMITS

(A) DO NOT LEAVE DEVICE IN AIRCRAFT WHEN AIRCRAFT IS UNOCCUPIED. BATTERY THERMAL RUNAWAY AND FIRE MAY OCCUR IF DEVICE REACHES EXTREME TEMPERATURE.

(4) CELLULAR (3G & 4G), WIFI, AND BLUETOOTH ARE NOT AUTHORIZED IN FLIGHT AND MUST BE DISABLED WHILE AIRBORNE, EXCEPT ON THE FOLLOWING AIRCRAFT:

(A) VH-3D AND VH-60N. VERIZON CELLULAR WEATHER DATA AUTHORIZED FOR USE ONLY ON IPAD AIR WITH FOREFLIGHT APPLICATION. VOICE COMMUNICATIONS NOT AUTHORIZED. MAINTAIN 1 METER SEPARATION DISTANCE OR MAXIMUM DISTANCE POSSIBLE FROM IPAD AIR AND SYSTEMS PROCESSING CLASSIFIED.

(5) GROUND USE OF CELLULAR, WIFI, AND BLUETOOTH IS AUTHORIZED, PROVIDED AIRCRAFT SYSTEMS ARE NOT AFFECTED AND THERE IS AN AUTHORITY TO OPERATE (ATO) THAT ALLOWS IT. CONTACT PMA-281 FOR SPECIFIC GUIDANCE ON NON-FLIGHT USE.

(6) H-1 SPECIFIC LIMITATIONS:

(A) AH-1W AFT COCKPIT SHALL NOT STRAP A TABLET ON THE LEFT LEG.

(B) UH-1Y/N LEFT OR RIGHT SEAT SHALL NOT STRAP A TABLET ON THE LEFT LEG.

(7) EA-6B SPECIFIC LIMITATIONS:

(A) PILOT USE OF TABLETS IS PROHIBITED.

(B) AICREW USAGE IS LIMITED TO ECMO 1, ECMO 2 AND ECMO 3.

(-C) TABLET SHALL NOT BE CONNECTED TO ANY AIRCRAFT SYSTEM OR EBOARD.

(8) F/A-18A/B/C/D/E/F, EA-18G AND NEA-18G SPECIFIC LIMITS:

(A) TABLET SHALL NOT BE ATTACHED TO PILOT THIGH FOR IN-FLIGHT REFUELING OR CLOSE FORMATION FLIGHT (E.G. PARADE, FINGERTIP).

(9) H-53 SPECIFIC LIMITS:

(A) USE OF TWO ELECTRONIC DEVICES STRAPPED TO THE LEGS AT THE SAME TIME (TABLET AND EDM) IS PROHIBITED.

(10) T-45A/C AND T-6A/B SPECIFIC LIMITS:

(A)PILOT AT CONTROLS SHALL NOT CONDUCT CLOSE FORMATION (E.G. PARADE, FINGERTIP) WITH TABLET ATTACHED TO

THIGH.

- C. IF NVIS FILTER IS NOT INSTALLED, THEN NIGHT FORMATION FLIGHT WITH TABLET POWER ON IS NOT AUTHORIZED FOR SINGLE SEAT OR SIDE BY SIDE SEATED AIRCRAFT. IN TANDEM SEATED AIRCRAFT, THE NON-FLYING PILOT OR CREWMAN MAY USE TABLET DURING NIGHT FORMATION FLIGHT. (SEE WARNING RELATED TO NVD COMPATIBILITY)
- D. TABLETS SHALL NOT BE USED AS A PRIMARY SOURCE OF COORDINATES FOR WEAPON DELIVERY OR NAVIGATION.
- E. CHARGING TABLET BATTERIES USING AIRCRAFT POWER IS PROHIBITED.
- F. TABLETS SHALL NOT BE INTERFACED WITH AIRCRAFT SYSTEMS INCLUDING TIES INTO 1553 DATA BUS, WEAPON TARGETING SYSTEMS, AVIONICS, ELECTRICAL POWER, ETC BY EITHER WIRED OR WIRELESS INTERFACES UNLESS SPECIFICALLY APPROVED IN A SEPARATE FLIGHT CLEARANCE.

4. WARNINGS, CAUTIONS, AND NOTES: IAW APPLICABLE T/M/S NATOPS, NATIP, OTHER APPLICABLE NAVAIR FLIGHT CLEARANCES, AND THE FOLLOWING:

----- WARNING -----

- A. TEMPERATURE AND ALTITUDE EXTREMES (ESPECIALLY RAPID DECOMPRESSION) MAY RESULT IN TABLET FIRE OR EXPLOSION.

----- WARNING -----

- B. EJECTION WITH UNSTOWED TABLET MAY RESULT IN INJURY OR DEATH DUE TO BODY STRIKE, DAMAGE TO DROGUE CHUTE, OR DAMAGE TO PARACHUTE.

----- WARNING -----

C. TABLET AND NVIS FILTERS MAY BECOME FOREIGN OBJECT DEBRIS  
RESULTING IN BINDING FLIGHT CONTROLS IF NOT PROPERLY SECURED.

----- WARNING -----

D. TABLETS HAVE NOT BEEN CERTIFIED AS NVG COMPATIBLE. USE OF  
TABLETS WITHOUT THE NVIS FILTER WILL RESULT IN DEGRADED NIGHT  
VISION PERFORMANCE THAT IS BELOW SPECIFICATION REQUIREMENTS  
AND WILL ALSO RESULT IN CANOPY REFLECTIONS THAT MAY REDUCE  
AIRCREW ABILITY TO SEE AND AVOID TRAFFIC AND/OR TERRAIN. IF  
DEGRADATION OCCURS, TURN OFF THE TABLET AND SECURE.

----- WARNING -----

E. TABLET MAY RESULT IN DEGRADED NIGHT VISION PERFORMANCE AND  
CANOPY REFLECTIONS THAT MAY REDUCE AIRCREW ABILITY TO SEE AND  
AVOID TRAFFIC AND/OR TERRAIN, EVEN WHILE USING FILTER. IF  
DEGRADATION OCCURS, TURN OFF TABLET AND SECURE.

----- WARNING -----

F. USE OF SOFTWARE APPLICATIONS OR HYPER DIMMING IN LIEU OF  
NVIS FILTERS FOR NVG COMPATIBILITY HAS NOT BEEN CERTIFIED.  
USE OF THESE METHODS CAN RESULT IN DEGRADED NIGHT VISION  
PERFORMANCE AND A LOSS IN CONTRAST IN THE DISPLAYED IMAGE.

----- WARNING -----

G. EMERGENCY EGRESS WITH TABLET WORN ON USERS LEG PRESENTS  
SNAG HAZARD AND RISK OF ENTRAPMENT/ENTANGLEMENT. TABLET  
SHOULD BE REMOVED FROM LEG PRIOR TO EXITING THE SEAT. IF TIME  
PERMITS, THE TABLET SHOULD BE REMOVED AND SECURELY STOWED

PRIOR TO DITCHING/CRASH.

----- WARNING -----

H. TABLET STRAPPED TO THE LEFT LEG IN H-1 (SEE PARA 3.B.6) WILL CAUSE SIGNIFICANT INTERFERENCE WITH CYCLIC AND COLLECTIVE MOVEMENT.

----- WARNING -----

I. TABLET STRAPPED TO THE THIGH, MAY INTERFERE WITH AND LIMIT LATERAL STICK INPUT TO HALF OF FULL THROW. INTERFERENCE MAY REDUCE THE ABILITY TO PERFORM DEFENSIVE ROLLING MANEUVERS, GROUND AVOIDANCE MANEUVERS, AVOID A WINGMAN IN FORMATION FLIGHT, OR OTHER MANEUVERS REQUIRING AGGRESSIVE FULL LATERAL STICK INPUTS. CONSIDER THE POTENTIAL NEED FOR DEFENSIVE MANEUVERS OR GROUND AVOIDANCE PRIOR TO STRAPPING TABLET TO THIGH. RECOMMEND CONDUCTING A CONTROLS SWEEP ON THE GROUND PRIOR TO FIRST FLIGHT TO BECOME FAMILIAR WITH THE INTERFERENCE OF TABLET DURING FULL STICK DEFLECTIONS.

----- CAUTION -----

J. ELECTROMAGNETIC EMISSIONS FOR TABLETS MAY EXCEED MIL-STD LIMITS. MOST TABLETS HAVE NOT BEEN TESTED FOR ELECTROMAGNETIC COMPATIBILITY WITH AIRCRAFT SYSTEMS. POTENTIAL EXISTS FOR EMI IN RF RECEIVERS (I.E. COMMS, NAVS) THAT MAY RESULT IN INACCURATE DISPLAY OF INFORMATION. IF EMI TO AIRCRAFT SYSTEMS IS SUSPECTED, TURN OFF AND SECURE THE TABLET. ANY EMI OBSERVED SHALL BE REPORTED IAW OPNAVINST 3750.6R TO ASSESS IMPACT.

----- CAUTION -----

K. TABLETS MAY BE SUSCEPTIBLE TO EXTERNAL RF ENVIRONMENTS (E.G. SHIPBOARD RADARS, HIGH POWERED TRANSMITTERS, ETC.). POWERED TABLETS ON FLIGHT DECK MAY BE DAMAGED. HIGH LEVELS OF RF ENERGY COULD CORRUPT OR ERASE MEMORY, OR BURN OUT FRONT END RECEIVER. DUE TO POTENTIAL EMI EFFECTS, TABLET DATA VALIDITY CANNOT BE ASSURED. IPAD 4 AND IPAD MINI HAVE BEEN TESTED AND ARE COMPATIBLE WITH FLIGHT DECK ELECTROMAGNETIC ENVIRONMENTS.

----- CAUTION -----

L. EA-6B USE OF TABLET FROM ECMO2/ECMO 3 CREW STATIONS MAY INTERFERE WITH MINI-RAD SWITCH. SWITCH MAY BE INADVERTENTLY MOVED FORWARD INTO RAD OR RADIATE POSITION.

----- NOTE -----

M. NORMAL FLIGHT GLOVES MAY IMPEDE TABLET TOUCH SCREEN OPERATION. RECOMMEND THE USE OF AUTHORIZED FINGERLESS GLOVES, WHICH PROVIDE LIMITED FIRE PROTECTION, BUT NO CHEMICAL BIOLOGICAL PROTECTION.

----- NOTE -----

N. TABLETS ARE NOT AUTHORIZED FOR PRIMARY OR SOLE MEANS OF AIR NAVIGATION. TABLETS DO NOT HAVE AN INTEGRITY MONITORING CAPABILITY AND ARE MUCH MORE SUSCEPTIBLE TO JAMMING AND RF INTERFERENCE THAN MILITARY GPS RECEIVERS. TABLETS MAY BE USED AS AN AID TO VISUAL NAVIGATION.

----- NOTE -----

O. REFERENCE DEVICE CYBER COMMAND AUTHORITY TO OPERATE FOR RESTRICTIONS OR PROHIBITIONS ON STORAGE OF SENSITIVE OR CLASSIFIED MATERIALS.

----- NOTE -----

P. TABLETS MAY SERVE AS THE PRIMARY SOURCE OF NAVIGATION DOCUMENTATION (APPROACH PLATES, CHARTS, FLIP, ETC) PROVIDED THERE IS A PAPER BACKUP SOURCE OF THE INFORMATION. TABLETS HAVE NOT BEEN AUTHORIZED TO REPLACE SAFETY OF FLIGHT DOCUMENTS SUCH AS THE NATOPS POCKET CHECKLIST, BUT MAY BE APPROVED AFTER ADDITIONAL TESTING VIA FUTURE UPDATES TO THIS FLIGHT CLEARANCE.

----- NOTE -----

Q. MANY TABLETS HAVE SPECIFIED OPERATING TEMPERATURE LIMITS. AIRCREW SHOULD FAMILIARIZE THEMSELVES WITH THE TABLET SPECIFICATIONS.

----- NOTE -----

R. DURING LOW LUNAR ILLUMINATION THE USE OF TABLETS WITH NIGHT VISION GOGGLES MAY RESULT IN VEILING GLARE (GREEN HAZE OVER NVG IMAGE). VEILING GLARE HOODS (P/N 272523) ARE RECOMMENDED TO MITIGATE THE EFFECTS OF VEILING GLARE CAUSED BY TABLETS.

----- NOTE -----

S. USE OF ALQ-99 PODS CAN RESULT IN DAMAGE TO TABLET FUNCTIONALITY AND/OR CORRUPT DATA STORED IN MEMORY.

----- NOTE -----

T. ELECTROMAGNETIC EMISSIONS FOR TABLETS USED IN CELLULAR MODE

WILL EXCEED EMCON LIMITS. TABLETS MUST BE TURNED OFF  
MANUALLY DURING REQUIRED TACTICAL EMCON CONDITIONS.

5. TIME PERIOD: THIS IFC EXPIRES 30 SEP 2019.

6. POINTS OF CONTACT:

A. CDR JONATHAN MCELLROY, PMA-281, TEL: (301) 757-8024,  
EMAIL: JONATHAN.MCELLROY@NAVY.MIL.

B. BLAINE SUMMERS, PMA-281, TEL: (301) 757-1665, EMAIL:  
BLAINE.SUMMERS@NAVY.MIL.

C. LCDR DAN PETERS, PMA-281, TEL: (301) 342-0422,  
EMAIL: DANIEL.J.PETERS2@NAVY.MIL.

D. EMC CONTACTS

(1) ROTARY WING EMC POC: JON BERGMANN, AIR 41M1, TEL: (301)  
995-3832, EMAIL: JON.BERGMANN@NAVY.MIL

(2) MARITIME/PATROL AIRCRAFT EMC POC: JOE KMETZ, AIR 41M1,  
TEL: (301) 757-2361, EMAIL: JOSEPH.KMETZ@NAVY.MIL

(3) TACTICAL AIRCRAFT EMC POC: LUKE ONACHILA, AIR 41M1, TEL:  
(301) 757-2420, EMAIL: LUKE.ONACHILA@NAVY.MIL

(4) V-22 EMC POC: PAUL BELUSKO, AIR 41M1, TEL (301) 757-2446,  
EMAIL: PAUL.BELUSKO@NAVY.MIL

E. SARAH GRAVES, 4.0P, TEL: (301) 342-5741,  
EMAIL: SARAH.GRAVES.CTR@NAVY.MIL.

F. AIRWORTHINESS GLOBAL CUSTOMER SUPPORT TEAM,  
TEL: (301) 757-0187, AIRWORTHINESS@NAVY.MIL.

7. OTHER REMARKS:

A. CONTACT PMA-281 FOR THE MOST UP TO DATE INFORMATION ON

APPROVED TABLETS, CYBER COMMAND AUTHORITY TO OPERATE, APPLICATION INFORMATION, AND ANCILLARY EQUIPMENT. SEE THE PMA-281 EKB WEBSITE FOR MORE DETAILS:

[HTTPS://MPS.NAVAIR.NAVY.MIL/EKB/](https://mps.navair.navy.mil/ekb/) OR EMAIL: [EKB@NAVY.MIL](mailto:EKB@NAVY.MIL).

B. REQUEST TYCOM READDRESS THIS IFC TO APPROPRIATE ACTIVITIES FOR ACTION.

C. PRIOR TO USE IN FLIGHT, CHECK WITH PMA-281 TO ENSURE SPECIFIC MODEL OF TABLET MEETS ALL THE REQUIREMENTS OF THIS IFC.

D. THIS IFC INCLUDES THE USAF CV-22 AND SHOULD BE CONSIDERED A FLIGHT CLEARANCE RECOMMENDATION FOR THIS PLATFORM.

E. PER REF C, THIS IFC DOES NOT CONSTITUTE A CYBER COMMAND AUTHORITY TO OPERATE (ATO). FOR ALL US GOVERNMENT OWNED DEVICES AND/OR DEVICES INTERFACED WITH AIRCRAFT SYSTEMS, AN ATO IS REQUIRED IAW OPNAVINST 5239.1C AND SECNAVINST 5239.3B AND SUBSEQUENT.

F. THE RISK OF INFORMATION ASSURANCE INCURSIONS IS NOT ADDRESSED IN THIS IFC. LOCAL COMMANDERS SHOULD DEVELOP PROCEDURES TO MITIGATE THIS RISK. OPERATION OF ANY DEVICE UNDER THIS IFC SHOULD BE IAW LOCAL SECURITY PROCEDURES AND POLICIES.

G. PER REF C, THIS IFC PROVIDES NAVAIR AIRWORTHINESS CERTIFICATION SUBSEQUENT TO AN ENGINEERING DESIGN REVIEW. IT DOES NOT AUTHORIZE AIRCRAFT/SYSTEM MODIFICATION, NOR DOES IT SATISFY NAVAIR REQUIREMENTS FOR CONFIGURATION MANAGEMENT. AS DIRECTED BY OPNAVINST 4790.2J, REFER TO CNAFINST 4790.2B CH-1 FOR POLICY GUIDANCE ON CONFIGURATION MANAGEMENT AND MOD

AUTHORITY.

H. INFORMATION REGARDING THE AIRWORTHINESS PROCESS, INCLUDING A LISTING OF ALL CURRENT INTERIM FLIGHT CLEARANCES, NATOPS AND NATIP PRODUCTS ISSUED BY NAVAIR 4.0P, CAN BE FOUND ON THE AIR 4.0P WEBSITE: [AIRWORTHINESS.NAVAIR.NAVY.MIL](http://AIRWORTHINESS.NAVAIR.NAVY.MIL).

I. EPOWER FOLDER NO: 1139738, TRACKING NO: 65212.//