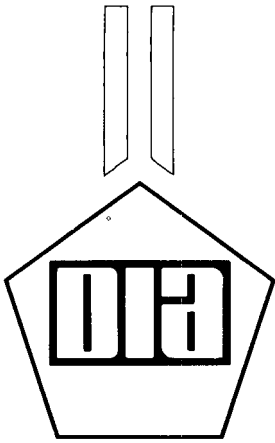


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DEFENSE  
INTELLIGENCE  
AGENCY

Special Defense  
Intelligence Estimate

Prospects for the  
Soviet Union's Airborne  
Warning and Control  
System (SUAWACS) (U)

SEPTEMBER 1981

NOFORN/WNINTEL

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DIA review completed

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SPECIAL DEFENSE INTELLIGENCE ESTIMATE

PROSPECTS FOR THE SOVIET UNION'S AIRBORNE  
WARNING AND CONTROL SYSTEM (SUAWACS) (U)

This estimate has been coordinated with the Intelligence Chiefs of the Army,  
Navy, and Air Force. All concur in the estimate as written.

APPROVED BY:



Acting Assistant Vice  
Director for Estimates

DDE-1370-4-81  
6 August 1981

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WARNING NOTICE  
INTELLIGENCE SOURCES AND METHODS INVOLVED

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Review on 6 August 2001  
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Reason 2-301.c.5

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Prospects for the Soviet Union's Airborne  
Warning and Control System (SUAWACS)

*This estimate provides background discussions and long-range judgments regarding the Soviet Union's Airborne Warning and Control System aircraft and their operations. The estimate is primarily intended for use in support of US studies and acquisition programs, notably those dealing with a new US bomber and with countermeasures to the SUAWACS. (U)*

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Discussion

1. (S/NOFORN) The Soviet Union has been involved in Airborne Warning and Control System aircraft development since at least the mid-1960s.

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2. (S) As an airborne air battle command post, the AWACS would enhance command flexibility and responsiveness in both strategic and tactical applications. As a situation and intelligence synthesizer, the AWACS would contribute to the success of a ground-based authority in planning and executing operations. The Siauliai unit, home of the MOSS AWACS, is viewed by the Soviets as an experimental squadron which has an inherent operational capability for use in time of war. Its peacetime employment has been exploratory in tactics, equipment, and operations. A full AWACS operational capability can be obtained only with mass production, deployment, and routine daily operations.

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\* PVO Strany has recently absorbed the national staff of PVO Sukhoputnykh Voysk (Air Defense of the Ground Forces); other changes have also occurred. Voyska PVO is the title for the new organization and is best rendered as "Troops of National and Ground Forces Air Defense."

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The MOSS AWACS and Its Follow-Ons

4. (S) The TU-126/MOSS is the first Soviet aircraft used to perform airborne warning and intercept control.

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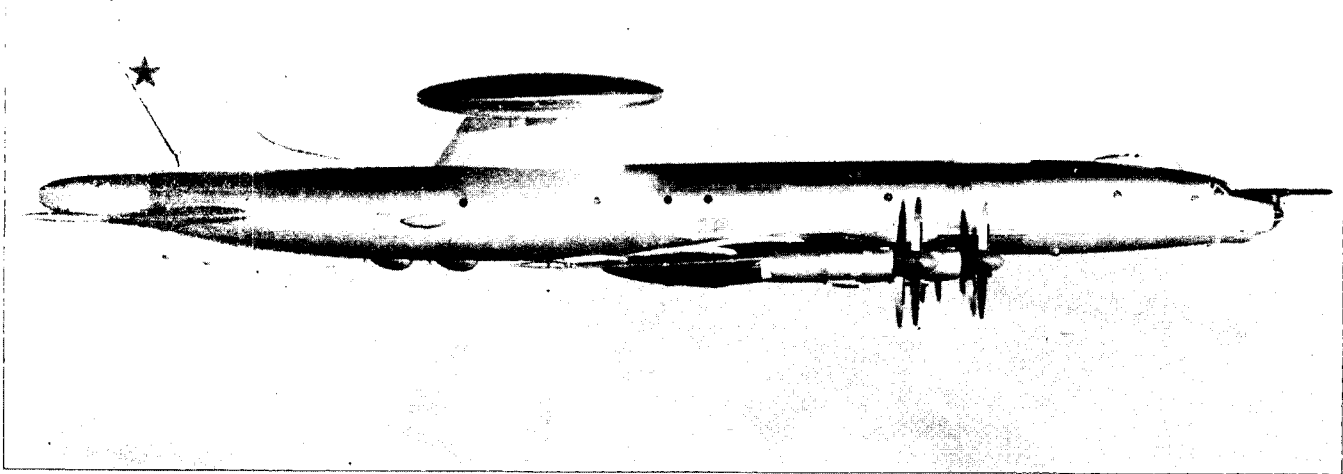


Figure 1. (U) MOSS AWACS

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6. (C) The three onboard operators are responsible for identifying and tracking targets, extracting and forwarding data to the automatic control system, and directing fighters for interceptions. The levels of proficiency expected for the average operator are simultaneous direction of three to seven intercepts and simultaneous tracking of six targets. A trained operator should be able to identify about nine targets per minute. This level of activity would require a "loose" control--i.e., general vectoring of the interceptor by the Air Combat Intercept (ACI) operators--as opposed to a "tight" control (i.e., control by the ACI operator until actual weapons release).

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Air Defense Operations

16. (S) The General Staff, probably through the Troops of National and Ground Forces Air Defense Headquarters, would allocate AWACS resources according to availability and needs. AWACS employment would include homeland air defense, theater war in Europe or the Far East, and, eventually, air surveillance support of power-projection operations abroad. We believe the Soviets will use AWACS in support of a fraternal ally only when risk to the platform is very low.

17. (S) Resources permitting, air defense operations will be conducted on the most probable avenues of enemy approach, with air defense fronts or armies formed to combat air threats. The general tactic is one of attrition in depth, beginning with forward fighters and coastal SAM barriers, followed by further fighter zones, and finally terminal defenses. But AWACS patrol zones are not projected to be established as a homogeneous barrier encircling the USSR. The requisite number of AWACS platforms is too great, there are insufficient numbers of peripheral interceptor regiments, and complementary air defense capabilities are inadequate in some eastern regions. Instead, as in theater war, we believe the AWACS will be deployed to cover the expected axes of major ground and air operations to priority targets. A national defense problem for the 1990s will be extending and supporting forward defenses to defeat airborne, cruise-missile launch platforms.

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19. (S) The CANDID AWACS will become the central element in the air defense battle. The ability of the CANDID AWACS to conduct semiautonomous operations derives from its capacity to vector fighters or groups of fighters against multiple targets. CANDID AWACS operations are expected to be integrated into the national air defense command and control system. Patrol zones are likely to be contiguous to areas of good GCI radar coverage to facilitate placing continuous pressure upon an attacking force. Initial AWACS operations are expected to be over water, but, with improvements in technique, experience, and numbers, AWACS patrols will be standardized over land as well.

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21. (S) The AWACS may function as an active source and relay for general air battle information for the ground-based command authority. A principal function would probably be that of conducting air intercept operations. In the near term, the kind of direction given the fighters is expected to be general or zonal. In low-intensity battles or in more advanced AWACS, air intercept instruction will probably become more discrete and specific, except possibly when directing Modified FOXBAT-type aircraft in strategic defense operations.

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24. (S) Although equipped with some self-protection devices, AWACS is an exposed and vulnerable platform. Its value increases with the intensity of the air defense operation and the degree of reliance placed upon it. The essential functions to be preserved are surveillance and communications. To preserve these functions, altitude-change maneuvers may be required to avert certain dangers.

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#### Tactical Battlefield AWACS

25. (S) The Soviets have foreseen a need for an AWACS in a tactical battlefield situation. In the European theater especially, the combat situation is likely to be complex and rapidly evolving, requiring the larger, integrated-air-situation capability of an AWACS. Soviet experience with airborne reconnaissance has already indicated a strong need for real-time coverage over broad areas. An overland-capable AWACS can provide real-time processing and large-scale integration functions.

26. (S) The mission of a Soviet tactical AWACS would be collecting and communicating air battle data and the efficient application of fighter assets in escort and counterair roles. The establishment of an environment for air battle management is accomplished through extending the zone of air control to facilitate the operation of air warfare assets over hostile territory. Enroute strike guidance to low-altitude aircraft outside the range of navigation emitters, intercept vectors to the target, as well as threat information, are unique battlefield AWACS functions. Front air defense support operations are also enhanced by AWACS participation. Specific offensive AWACS applications indicated in Soviet writings include air surveillance, the "isolation of the battlefield" (i.e., limited air supremacy operations), close air support, air interdiction, airborne landings, and airlift operations.

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27. (S) Soviet doctrinal emphasis on combined-arms combat stresses the integration of aviation with the conduct of ground operations. With advances, probably by the late 1980s to early 1990s, in signal processing to allow detection of moving ground targets, we believe a Soviet tactical AWACS would also likely be used for limited battlefield ground-force surveillance where circumstances permit. Carrying encoded beacon transponders could permit monitoring the movements of friendly troop formations. Otherwise, ground resolution of the AWACS radar is not expected to be sufficient to detect individual pieces of equipment. Another battlefield use would be passive search wherein the AWACS would not radiate but instead would monitor airborne radar and IFF as well as ground-based threat radars and jammers. We believe the AWACS will possibly be equipped with an IFF jammer for tactical employment.

28. (S) In open source literature, the Soviets have expressed an interest in multistatic, or "diverse," radar operations in which one transmitter may be synchronized with other receive-only radars. A tactical innovation which could yield significant advantages is the adaptation of bistatic operations between SUAWACS pairs. Through digital coding of the transmitted signal, computer processing is enhanced; forward-scatter radar energy received and decoded by a second AWACS would provide additional detection and tracking information, especially against small RCS, low-altitude targets. Technical difficulties, however, are formidable in airborne bistatic operations but such operations have been proven feasible. Bistatic operations against a noncooperating AWACS would be even more difficult.

29. (S) The principal commanders with which the tactical AWACS would interact are the air and air defense authorities at the front. Army- and division-level headquarters may also be provided with the capability to monitor air or ground battle developments. The AWACS is expected to have an up-link satellite capability to relay battle information to higher echelons, such as a theater of military operations (TVD) and national authorities. This projected facility would enhance General Staff assessment and control of inter- and intra-theater developments.

#### Naval Applications

30. (S) Operational requirements for naval applications include support of surface units at sea as well as in port. The latter function would be subsumed under homeland air defense. Fleet units operating in peripheral offshore areas, particularly those units with SAM capability, could coordinate their air defense efforts with land-based air defense forces. Shipboard fighter controllers may augment AWACS controllers in meeting local air threats and in defending the AWACS platform itself.

31. (S) Support of distantly deployed naval forces will be limited to areas within SUAWACS radius of action (about 1,000 nm for CANDID) from land bases, which need not necessarily be limited to the Soviet Union. Within these areas, AWACS could support such functions as antiship-missile defense/antiair warfare (ASMD/AAW), over-the-horizon targetting for antiship cruise missile systems, and carrier-based antisurface warfare (ASUW). However, this will not fulfill all naval air surveillance needs.

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40. (S) We project the Soviets will use a new airframe for a Follow-on AWACS. The requirements for longer on-station loiter times and a larger cargo compartment for on-board processing equipment and crew rest area will probably drive the Soviets

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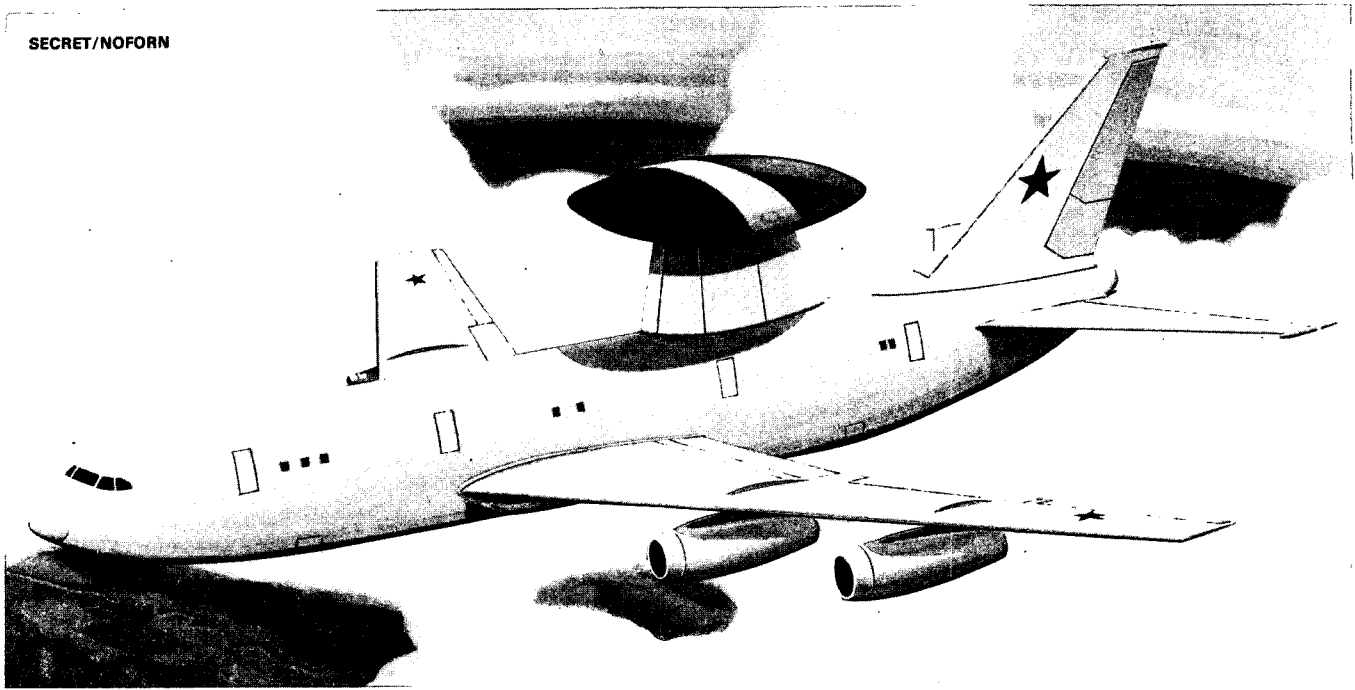


Figure 9. (U) Projected CAMBER AWACS

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Reactive Changes in AWACS Doctrine

44. (S) The current AWACS concept is predicated upon the perceived threat in terms of technical characteristics, numbers, and radar observables. Emergence in the 1990s of a US stealth bomber and advanced cruise missiles would call for new Soviet tactics and capabilities.

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45. (S) A decrease in the cruise missile threat, perhaps through arms control, would reduce somewhat the emphasis on AWACS development. An increase in the numbers of penetrating bombers would be met by corresponding increases in the numbers of AWACS, but there may be less need for extended defenses.

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 A124 1 OSD NET ASSESSMENT  
 A125 2 OUSDRE  
 A127 1 OSD SALT/AC SUP GP  
 A302 1 JCS/CHAIRMAN  
 A315 3 JCS/SAGA  
 A325 1 JCS/J3  
 A340 8 JCS/J-5 MIL SEC  
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 B329 1 DIA/JSI-6A  
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 C030 3 CH RDA  
 C043 1 USAMIA  
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 C231 1 2ND ARM DIV  
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C238 1 364TH MI CO (TI)  
 C242 1 FORSCOM  
 C300 1 172ND INF BDE (AK)  
 C302 4 2ND PSYOP GROUP  
 C303 1 4TH PSYOP GROUP  
 C305 2 18TH ABN CORPS  
 C306 1 82ND ABN DIV  
 C307 1 24TH INF DIV  
 C311 1 305TH PSYOP BN  
 C348 1 453D MID  
 C351 1 10TH SFG(ABN)1STSF  
 C354 1 477TH MID  
 C417 1 7TH INF DIV  
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 C471 1 OPRG ARMY WAR COL  
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 C509 1 BALLISTIC RES LAB  
 C513 1 ARRADCOM  
 C522 1 YUMA PG  
 C523 1 ERADCOM/FI-A  
 C539 1 TRASANA  
 C557 1 USAITAC (IAX-D-II)  
 C590 1 USATAC  
 C591 1 FSTC  
 C605 1 JFK CTR MIL ASSIST  
 C617 1 CONCEPT ANLYS AGCY  
 C619 1 MIA REDSTONE  
 C620 1 USAITAC (IAX-TA-R)  
 C635 2 AIR DEF AGCY  
 C641 1 AVIATION CTR & SCH  
 C644 1 LOG CTR  
 C667 1 USAIMA  
 C683 3 INTEL CTR&SCH  
 C684 2 USAISD  
 C715 1 ARMOR CTR  
 C748 1 HQDA DAMI-FRT  
 C763 1 HQDA DAMI-FIT  
 C766 1 HQDA DAMI-FIC  
 C768 1 USAITAC (IAX-TA-D)  
 C788 2 HQDA DAMI-FIS  
 C819 1 5TH SFG(ABN)1ST SF

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 D005 1 OP-60  
 D008 1 NISC  
 D010 1 OP-00K  
 D011 5 OP-09B34 (MLRM)  
 D150 3 CMC (INT)  
 D159 1 NAVWARCOL  
 D202 1 NAVWARCOL/IO  
 D204 1 NAVWPNCEN  
 D217 1 NAVWPNCEN  
 D246 1 NAVSURFWPNCEN DAHL  
 D247 1 NAVSURFWPNCEN NOAK  
 D263 1 NOSC  
 D496 1 DIR SSPD  
 D502 1 DIR OPA  
 D507 1 COMINWARCOM  
 D584 1 FIRSTPAC 0470  
 D700 1 CGMCDCC  
 D900 1 NFOIO  
 D902 1 NFOIO DET NPT  
 D947 1 NTC-522  
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E010 1 AFIS/INDOC  
 E016 1 AFIS/INC  
 E017 1 AFIS/INSA (W)  
 E018 2 AFIS/INSA (C)  
 E020 1 AFIS/INOZA  
 E050 1 AFSAC/INOC-1  
 E054 1 HQ USAF/INER  
 E100 10 TAC (460 RTS/LDD)  
 E104 1 4513TH TTG/NIPT  
 E130 1 ADMC/IN  
 E200 2 AAC  
 E231 1 HQ USAF/LERX (CM)  
 E280 1 AFTAC/DOI  
 E303 1 HQ USAF/INEG  
 E304 1 HQ USAF/INES  
 E317 1 HQ USAF/SAMI  
 E401 1 AFLC/IN  
 E403 1 AFSC/INA  
 E408 1 AFWL  
 E409 1 AMD/RDI  
 E410 1 AD/IND  
 E411 1 ASD/FTD/NIIS  
 E415 1 OC-ALC/XRO  
 E420 4 FTD/NIIS  
 E429 1 HQ SPACE DIV/IND  
 E436 2 AFEMC/ESRI  
 E437 1 AFIS/INDI  
 E438 1 3480 TCHGT/TTVL  
 E450 1 AIR UNIV  
 E555 1 6916 ESS  
 E706 1 HQ ELECT SCTY CMD

UNIFIED AND SPECIFIED COMMANDS

F005 1 CINCHAC  
 G005 3 CINCAD  
 H005 1 USCINCEUR  
 H010 1 SOTFE (J-3)  
 H101 6 USAFE 497RTG (IRC)  
 H300 1 USAICE(USAREUR)  
 H350 1 SFDCT (ABN) EUR  
 H500 1 CINCUSNAVEUR  
 H511 1 COMSIXTHFLT  
 H525 1 HQ VII CORPS  
 H527 1 HQ 8TH INF DIV  
 H528 1 1ST INF DIV (FWD)  
 H529 1 HQ 3RD ARMORED DIV  
 J007 1 COMUSFORAZ  
 J015 1 COMICEDEFOR  
 J037 1 COMMATWING ONE  
 J500 3 CINCLANTFLT  
 J502 1 COMSECNDFLT  
 J505 1 COMNAVAIRLANT  
 J515 1 FICEURLANT  
 J517 1 COMNAVSURFLANT  
 J532 1 COMSUBLANT  
 J575 1 FMFLANT  
 J577 1 32ND MAU  
 J664 1 FAIRECONRON 4  
 J818 1 SECONDMARDIV (CFU)  
 K007 1 COMUSJAPAN  
 K010 4 USFK  
 K100 1 PACAF 548 RTG  
 K101 1 PACAF/DOIA  
 K118 2 51 COMPH(T)/DOI  
 K201 1 13TH AF  
 K203 1 314 AD/IN  
 K300 1 IPAC (LIBRARY)  
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 K365 1 NUMPNTRAGRUPAC  
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 L164 1 940 AREFW/DOXI  
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 R010 1 OMB  
 R048 1 FEMA  
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 R145 3 ACDA  
 S013 1 LLL  
 S030 1 FRD LIB OF CONG

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 B329 1 DIA/JSI-6A  
 B331 1 DIA/RTS-2A2  
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 B588 1 DIA/JSI-2C  
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 B917 1 USDAO POLAND

U.S. ARMY

C500 1 TRADOC  
 C533 1 FT RITCHIE DEPT F  
 C591 1 FSTC  
 C667 1 USAIMA  
 C684 1 USAISD  
 C757 1 SED  
 C768 1 USAITAC (IAX-TA-D)  
 C772 1 HQDA DAMI-FIO  
 C788 1 HQDA DAMI-FIS

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D247 1 NAVSURFWPNCEN NOAK  
 D900 1 NFOIO  
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E100 3 TAC (460 RTS/LDD)  
 E436 1 AFEMC/ESRI  
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H101 4 USAFE 497RTG (IRC)  
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