

APPLICATION FOR EQUIPMENT FREQUENCY ALLOCATION	CLASSIFICATION	DATE	<i>Form Approved OMB No. 0704-0188</i>
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DOD GENERAL INFORMATION			
TO HONEYWELL DRAFT 05-13-2002		FROM	
1. APPLICATION TITLE Next Generation ACAS II			
2. SYSTEM NOMENCLATURE CAS-100 ACAS II Processor, TPA-100A			
3. STAGE OF ALLOCATION (<i>X one</i>) ☐ a. STAGE 1 - CONCEPTUAL ☐ b. STAGE 2 - EXPERIMENTAL ☒ c. STAGE 3 - DEVELOPMENTAL ☐ d. STAGE 4 - OPERATIONAL			
4. FREQUENCY REQUIREMENTS a. FREQUENCY(IES) 1030 MHz (transmit); 1090 MHz (receive) b. EMISSION DESIGNATOR(S) 10M0K1D, 10M0V1D (Note 1090MHz designators: 14M0V1D, 14M0K1D)			
5. TARGET STARTING DATE FOR SUBSEQUENT STAGES			
a. STAGE 2		b. STAGE 3	c. STAGE 4 November 2002
6. EXTENT OF USE Testing not intended until Stage 2 (intermittent, 24 hours per day, 7 days per week during flight test/demonstration windows)			
7. GEOGRAPHICAL AREA FOR			
a. STAGE 2 West, Northwest USA (Washington and Southern California)			
b. STAGE 3 West, Northwest USA (Washington and Southern California)			
c. STAGE 4 Worldwide			
8. NUMBER OF UNITS			
a. STAGE 2		b. STAGE 3 6 to 10	c. STAGE 4 Fully equipped: over 3000 A/C
9. NUMBER OF UNITS OPERATING SIMULTANEOUSLY IN THE SAME ENVIRONMENT Maximum as limited by commercial ATC			
10. OTHER J/F 12 APPLICATION NUMBER(S) TO BE ☐ a. SUPERSEDED J/F 12/ ☒ b. RELATED J/F 12/		11. IS THERE ANY OPERATIONAL REQUIREMENT AS DESCRIBED IN THE INSTRUCTIONS FOR PARAGRAPH 11? ☒ a. YES ☐ b. NO ☐ c. NAvail	
12. NAMES AND TELEPHONE NUMBERS			
a. PROGRAM MANAGER		(1) COMMERCIAL	(2) AUTOVON
b. PROJECT ENGINEER		(1) COMMERCIAL	(2) AUTOVON
13. REMARKS 10. J/F 12/7091 Traffic Alert and Collision Avoidance System (TCAS-II) 11. Interoperable with Mode S, IFF Mode S, TCAS, E-TCAS, and MILACAS systems used by the commercial airlines, DoD components, US government agencies, and/or other nations.			
DOWNGRADING INSTRUCTIONS		CLASSIFICATION	

**INSTRUCTIONS FOR COMPLETING DD FORM 1494,
"APPLICATION FOR EQUIPMENT FREQUENCY ALLOCATION"**

GENERAL INFORMATION

CLASSIFICATION: This form must be classified in accordance with appropriate agency security directions. Downgrading instructions must be indicated. The highest classification for each item or sub-item as required must be indicated by a (U), (C), or (S) alongside the item or sub-item title, for classified applications.

APPLICATION PURPOSE: This is an application for development or procurement of equipment with RF emitters. It is not a frequency assignment request for operation of RF emitters. Funds must not be obligated prior to the approval of an application for frequency allocation.

DATA REQUIREMENT: All applicable data items shall be submitted for all stages. Estimated values or ranges of values may be submitted for Stage 1 and 2 in the absence of calculated or measured values and shall be annotated (EST). Values for Stages 3 and 4 should be measured.

STANDARDS: Technical parameters of the application will be evaluated against the appropriate DoD, National and International EMC standards.

REMARKS ITEMS: Use the remarks item located at the bottom of each page of the form to amplify or clarify the entries. Add continuation pages as required.

ABBREVIATIONS:

Hertz	Hz	microseconds	usec
kilohertz	kHz	decibel	dB
megahertz	MHz	dB isotropic	dBi
gigahertz	GHz	pulses per second	pps
milliwatt	mW	parts per million	ppm
watt	W	peak envelope power	PEP
nanoseconds	nsec	not applicable	NA
National	NTIA	not available	NAvail
Telecommunications & Information Administration		occupied bandwidth	OC-BW

HOW TO ASSEMBLE THE FORM:

FOR US COORDINATION:

1. DoD General Information Page
2. Transmitter Page(s)
3. Receiver Page(s)
4. Antenna Page(s)
5. Line Diagram(s)
6. Space Systems Data, if applicable
7. Continuation Page(s) (cross reference pages)
8. NTIA General Information Page

FOR FOREIGN COORDINATION: If this form is used to obtain foreign national frequency supportability comments, see the instructions on the back of the Foreign Coordination General Information Page.

DOD GENERAL INFORMATION PAGE

ITEM 1 - Application Title. Enter the Government nomenclature of the equipment, or the manufacturer's name and model number, and a short descriptive title.

ITEM 2 - System Nomenclature. Enter the nomenclature of the system for which this equipment is a subsystem, e.g., PATRIOT or Global Positioning System.

ITEM 3 - Stage of Allocation. Mark the appropriate block using the following NTIA definitions.

Stage 1 - Conceptual. The initial planning effort has been completed, including proposed frequency bands and other available characteristics.

Stage 2 - Experimental. The preliminary design has been completed, and radiation, using test equipment or preliminary models, may be required.

Stage 3 - Developmental. The major design has been completed, and radiation may be required during testing.

Stage 4 - Operational. Development has been essentially completed, and final operating constraints or restrictions required to assure compatibility need to be identified.

ITEM 4 - Frequency Requirements.

a. Enter the required frequency band(s). For equipment designed to operate only at a single frequency, enter this frequency. Indicate units, e.g., kHz, MHz, or GHz.

b. Enter the emission designator(s) including the necessary bandwidth for each designator, as described in Chapter 9 of the NTIA Manual e.g., 40M0PON. Identify each mode as hopping or non-hopping, e.g. 64M0F3E (Hopping).

Enter in Item 13, "Remarks," any other information pertinent to frequency requirements, such as minimum frequency separation or special relationships involving multiple discrete frequencies.

ITEM 5 - Target Starting Date for Subsequent Stages. Enter proposed date of application submission for each subsequent stage.

ITEM 6 - Extent of Use. Describe extent of use that will apply to Stage 4, e.g., continuous or intermittent. If intermittent, provide information including the expected number of hours of operation per day or other appropriate time period; scheduling capability; and any conditions governing the times of intermittent use, e.g., used only during terminal guidance phase, used only as required for calibration of test range equipment.

ITEM 7 - Geographical Area. Enter geographical location(s) or area(s) of use for this and subsequent stage(s), e.g., Gilfillan Plant, Los Angeles, California, and White Sands Missile Range, New Mexico (Stage 2); US&P (Stage 3); US&P, NATO Countries and Korea (Stage 4). Provide geographical coordinates (degrees, minutes, seconds) if available.

ITEM 8 - Number of Units. Enter total number of units planned for the stage review requested and the subsequent stages.

ITEM 9 - Number of Units Operating Simultaneously in the Same Environment. Enter maximum number of these units planned to be operating simultaneously in the same environment during Stage 4 use.

ITEM 10 - Other J/F 12 Application Number(s). Mark appropriate block(s) and enter J/F 12 number(s) for superseded and/or related application(s).

ITEM 11 - Operational Requirement. If this equipment will operate with the same or similar equipment used by other US Military Services, DoD Components, US Government Agencies or Allied Nations, mark "Yes," and specify in Item 13, "Remarks," the Services, Agencies or countries (to include the country's services).

ITEMS 12 and 13 - Self-explanatory.